

**SAMSUNG**

# Instinctive Reaction



## ***Digimax L70*** User Manual

Thank you for buying a Samsung camera.

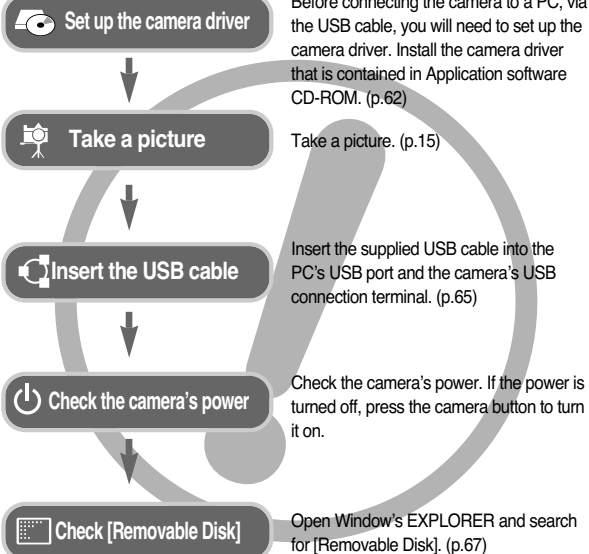
This manual will guide you through using the camera, including capturing images, downloading images and using the application software.

Please read this manual carefully before using your new camera.

ENGLISH

## 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 battery, Memory card etc.) to the A/S centre.
  - 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 this manual in a safe place.
  - Specifications are subject to change without prior notice.
- \* 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.

## Danger

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

- Do not attempt to modify this camera in any way. To do so may result in fire, injury, electric shock or severe damage to you or your camera. Internal inspection, maintenance and repairs should only be carried out by your dealer or Samsung Camera Service centre.
- 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. You must contact your dealer or Samsung Camera Service centre. 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.

## Warning

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

- 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.
- For safety reasons keep this product and accessories out of reach of children or animals to prevent accidents e.g.:
  - Swallowing battery 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.
- Battery 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 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 Charger. 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

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

- Leaking, overheating, or damaged battery could result in fire or injury.
  - Use battery with the correct specification for the camera.
  - Do not short circuit, heat or dispose of battery in fire.
  - Do not insert the battery with the polarities reversed.
- Remove the battery when not planning to use the camera for a long period of time. Otherwise the battery may leak corrosive electrolyte and permanently 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 Charger. After use, always switch off the camera before unplugging the cable 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.
- Take care not to touch the lens or lens cover to avoid taking an unclear image and possibly causing camera malfunction.
- Avoid obstructing the lens or the flash when you capture an image.
- Before inserting any cables or AC adapter, check the directions and do not insert by force. It may cause breakage of cable or camera.
- Credit cards may be demagnetized if left near case. Avoid leaving magnetic strip cards near the case.

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### SETUP

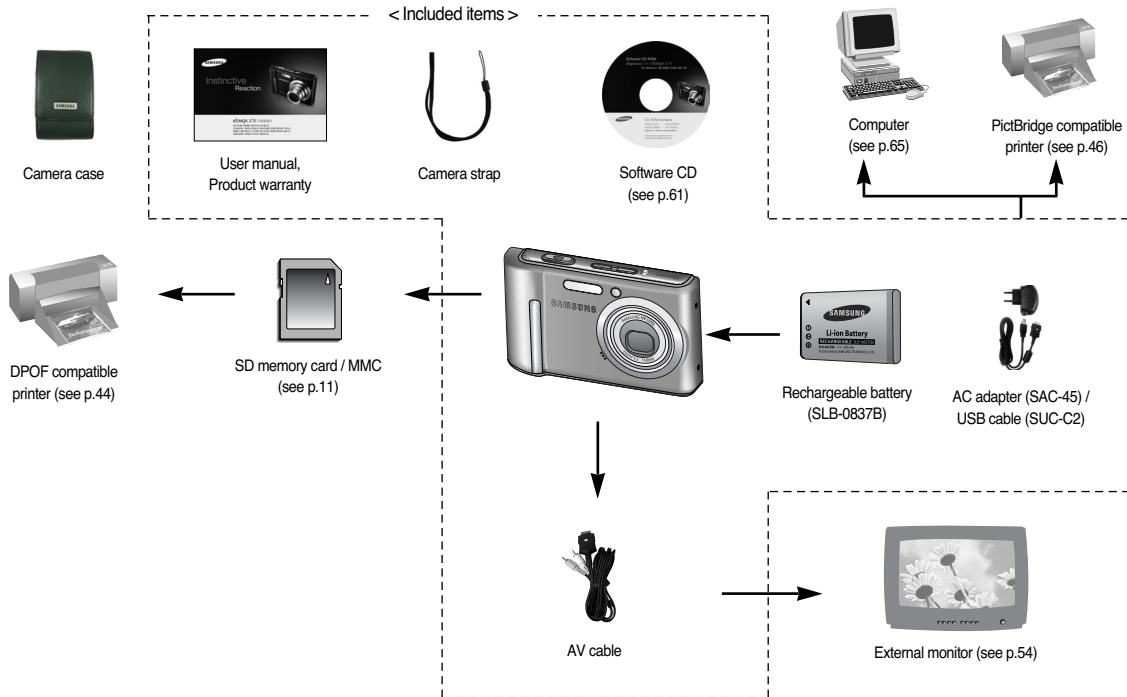
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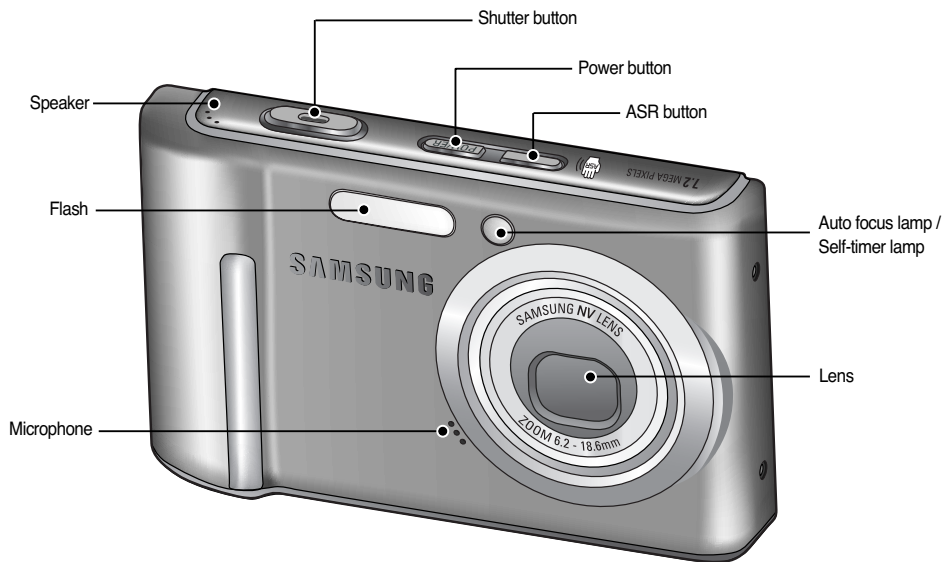
## System chart

Please check that you have the correct contents before using this product. The contents can vary depending on the sales region. To buy the optional equipment, contact your nearest Samsung dealer or Samsung service centre.



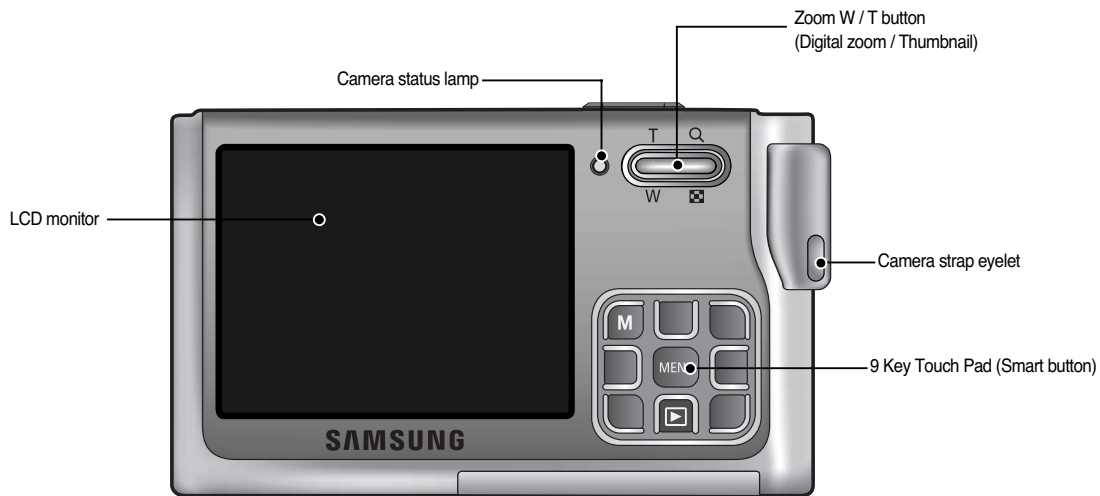
## • Identification of features

Front & Top



## • Identification of features

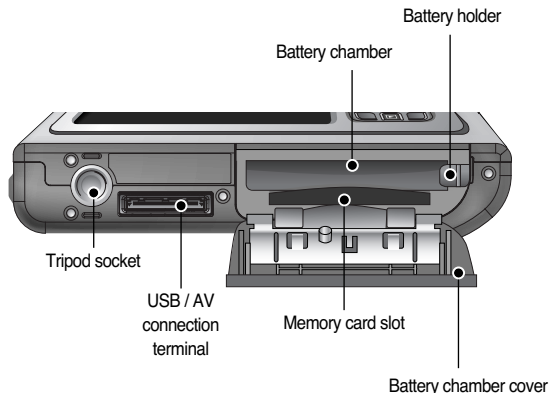
### Back & Bottom





## • Identification of features

### Bottom



### ■ Self-timer lamp

Icon	Status	Description
	Blinking	- For the first 7 seconds, the lamp blinks at 1 second intervals. - For the final 3 seconds, the lamp blinks quickly at 0.25-second intervals.
	Blinking	For the 2 seconds, the lamp blinks quickly at 0.25-second intervals before taking a picture
	Blinking	A picture will be taken after about 10 seconds and 2 seconds later a second picture will be taken.

### ■ Camera Status Lamp

Status	Description
After taking a picture	The lamp blinks while saving the image and then turns off when ready to take another picture
While voice memo recording	The lamp blinks
When the USB cable is inserted to a PC	The lamp lights up (LCD monitor turns off after initializing the device)
Transmitting Data with a PC	The lamp turns on (LCD monitor turns off)
When the USB cable is inserted to a printer	The lamp is off
When the printer is printing	The lamp blinks
When the AF activates	The lamp lights up (The subject is in focus)
	The lamp blinks (The subject is not in focus)

## • Connecting to a Power Source

- You should use the rechargeable battery (SLB-0837B) supplied with the camera. Be sure to charge the battery before using the camera.
- SLB-0837B rechargeable battery Specification

Model	SLB-0837B
Type	Lithium Ion
Capacity	800mAh
Voltage	3.7V
Charging time (When the camera is turned off)	About 130 ~ 150 Min.

- Number of images and battery life : Using the SLB-0837B

Still image		Movie	
Battery life	Number of images	Recording time	
Approx. 90 MIN	Approx. 180	Approx. 80 MIN	
Based on the following shooting conditions	Using the fully charged battery, Auto mode, 7M image size, Fine image quality, Shot to shot interval : 30Sec. Changing the zoom position between the Wide and the Tele after every shot. Using the flash on every second shot. Using the camera for 5 minutes and then Powering it off for 1 minute.	Based on the following shooting conditions	Using the fully charged battery 640X480 image size 30fps frame rate

- ※ These figures are measured under Samsung's standard conditions and shooting conditions and may vary depending on the user's methods.

## INFORMATION

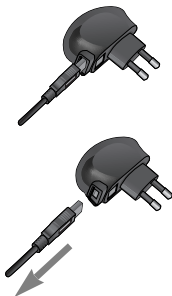
Important information about battery usage.

- When the camera is not used, turn off the camera power.
- Please remove the battery if the camera will not be used for long periods. Battery can lose power over time and are prone to leaking if kept inside the camera.
- Low temperatures (below 0°C) can affect the performance of the battery and you may experience reduced battery life.
- Battery will usually recover at normal temperatures.
- During extended use of the camera, the camera body may become warm. This is perfectly normal.

## • Connecting to a Power Source

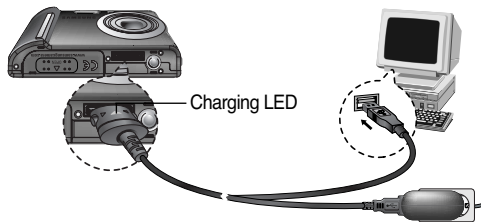
- You can charge the rechargeable battery (SLB-0837B) by using an SAC-45 KIT. The SAC-45 consists of the AC adapter (SAC-45) and the USB cable (SUC-C2). When the AC adapter and the USB cable are assembled, it can be used as an AC cable.

- Using the SAC-45 as an AC charger  
: Insert the AC adapter into the USB connector.  
When the AC adapter is inserted, it can be used as an AC charger.



- Using the SAC-45 as a USB cable  
: Remove the AC adapter from the USB connector. You can transmit data with a PC (p.66) or charge the battery.

- How to charge the rechargeable battery (SLB-0837B)



## CAUTION

In the following cases, the battery may not be charged.

- When using the USB cable that was not supplied with this camera : Use the supplied USB cable.
- When using the USB hub : Connect the camera to the PC directly.
- When other USB devices are connected to the PC : Disconnect the other USB devices.
- When the USB is connected to the USB port located on the front of the computer : Use the USB located on the back of the computer.
- If the USB port of the PC doesn't meet the Power output standard (5V, 500mA), the camera may not be charged.

## Connecting to a Power Source

### ■ Charging LED of the AC Adapter

	Charging LED
Being Charged	Red LED is on
Charging is complete	Green LED is on
Charging error	Red LED is off or blinking
Being discharged (Using the AC adapter)	Orange coloured LED is on

### CAUTION

- Before inserting any cables or AC adapter, check the directions and do not insert by force. It may cause breakage of cable or camera.
- If the charging LED of the AC Charger does not turn on or blink after inserting the rechargeable battery, please check whether the battery is inserted correctly.
- If you charge the battery with the camera power on, the battery can't charge fully. Turn the camera off while charging the battery.
- If you insert the fully discharged battery to charge it, do not turn on the camera at the same time. The camera may not be turned on because of the low battery capacity. Charge the battery for more than 10 minutes before using the camera.
- Do not use the flash frequently or take a movie clip with a fully discharged battery that has only been charged for a short time.

### ■ Insert the battery as shown

- If the camera does not turn on after you have inserted battery, please check whether the battery is inserted with the correct polarity (+ / -).
- When the battery chamber cover is opened, do not press the battery chamber cover by force. This may cause damage to the battery chamber cover.



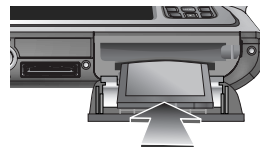
### ■ There are 4 indicators for battery condition that are displayed on the LCD monitor.

Battery indicator				
Battery status	The battery is fully charged	Low battery capacity (Prepare to recharge or use spare battery)	Low battery capacity (Prepare to recharge or use spare battery)	Low battery capacity (Prepare to recharge or use spare battery)

## Inserting the memory card

### ■ Turn off the camera's power before inserting the memory card.

- Insert the memory card as shown.
- Have the front of the memory card facing toward the back of the camera (LCD monitor) and the card pins toward the front of the camera (Lens).
- Do not insert the memory card the wrong way round. Doing so may damage the memory card slot.



## ● Instructions on how to use the memory card

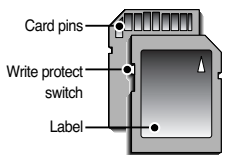
- Be sure to format the memory card (see p.54) if you are using a newly purchased memory for the first time, if it contains data that the camera cannot recognise, or if it contains images captured with a different camera.
- Turn off the camera power whenever the memory card is being inserted or removed.
- Repeated use of the memory card will eventually reduce its 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 it 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. To use the memory card in this camera, format the memory card using this camera.
- Do not use a memory card formatted by another digital camera or memory card reader.
- 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 : A [Memory Full!] message will appear and the camera will not operate. To optimise the amount of memory in the camera, replace the memory card or delete unnecessary images stored on the memory card.

### INFORMATION

- Don't remove the memory card when the camera status lamp is blinking as this may cause damage to data in the memory card.

## Instructions on how to use the memory card

- The camera can use SD Memory Cards and MMC (Multi Media Cards).  
When using MMC cards, please consult the instructions supplied with the cards.



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

- When using a 256MB MMC memory, the specified shooting capacity will be as follows. These figures are approximate as image capacities can be affected by variables such as subject matter and memory card type.

Recorded image size	Super Fine	Fine	Normal	30FPS	15FPS	
Still image	7M	68	117	203	-	-
	5M	93	159	272	-	-
	3M	151	266	425	-	-
	1M	572	795	943	-	-
	VGA	1213	1381	1533	-	-
* Movie	640	-	-	00:11:24	00:22:13	
	320	-	-	00:22:13	01:05:57	

- \* The recording times can be changed by the zoom operation.  
The zoom button doesn't operate while recording movies.

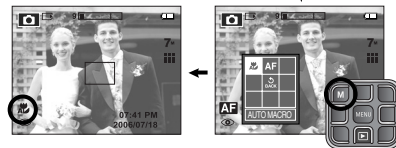
## When Using the Camera for the First Time : Smart button

- This button is used for shifting the menu cursor to select or for confirming the selected menu.



[Selecting the main menu :  
Touching the button]

[Confirming the main menu :  
Pressing the button]



[Confirming the sub menu :  
Pressing the button]

[Selecting the sub menu :  
Touching the button]

## • LCD monitor indicator

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



No.	Description	Icons	Page
1	Recording mode		p.15
2	Voice Off (Movie)		p.17
3	Shooting mode		p.32
4	Metering		p.33
5	Self-timer		p.30
6	Focus mode	<b>AF</b>	p.22

No.	Description	Icons	Page
7	Flash		p.22
8	Date / Time	07:00PM 2006/07/17	p.51
9	Exposure compensation		p.23
10	White Balance	AWB	p.24
11	ISO		p.25
12	Sharpness		p.32
13	Image quality / Frame rate		p.30
14	Image size		p.29
15	Battery		p.11
16	Optical / Digital Zoom bar / Digital Zoom rate		p.19
17	Number of available shots remaining	9	p.13
	Remaining time (Movie clip/ Voice recording)	00:01:00/01:00:00	p.13
18	Card inserted indicator		-
19	Voice memo		p.31
20	Auto focus frame		-

## Starting the recording mode

### ■ How to use the AUTO mode ( )

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

1. Insert the battery (p.11) taking note of the correct polarity (+ / -).
2. Insert the memory card (p.11). As this camera has a 22MB internal memory, it is not essential to insert the memory card. If the memory card is not inserted, an image will be stored in the internal memory. If the memory card is inserted, an image will be stored on the memory card.
3. Close the battery chamber cover.
4. 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 pressing the Mode button (p.21).
6. Point the camera towards the subject and compose the image by using the LCD monitor.
7. Press the shutter button to capture an image.



[AUTO mode]

### ■ How to use the PROGRAM mode ( )

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

1. Select the Program mode by pressing the Mode button.
2. Press the menu button to configure advanced functions such as image size (p.29), quality (p.30), effects (p.31), sharpness (p.32), metering (p.33) and continuous shooting (p.32)



[PROGRAM mode]

※ Refer to page 28-34 for more information about the menus.

## 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.

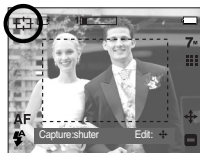


## Starting the recording mode

### How to use the Special Effect mode ( )

It is possible to add special effects to your images by using this mode. Select the Special Effect mode by rotating the mode dial.

※ Refer to page 33, 26~27 for more information about the special effect menus.



[SPECIAL EFFECT mode]

### How to use the SCENE mode ( **SCENE** )

Use the menu to easily configure optimal settings for a variety of shooting situations. Select the Scene mode by pressing the Mode button.

※ Refer to page 34 for more information about the menus.



[SCENE mode]

### How to use the MOVIE CLIP mode ( )

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

1. Select the MOVIE CLIP mode by rotating the mode dial. (Available recording time will display on the LCD monitor)

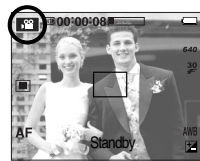
2. Point the camera towards the subject and compose the image by using the LCD monitor. Press the shutter button and movie clips are recorded for as long as the available recording time allows. Movie clips will still be recorded if the shutter button is released.

If you wish to stop recording, press the shutter button again.

\* Image size and type are listed below.

- Image size : 640X480, 320X240 (Selectable)

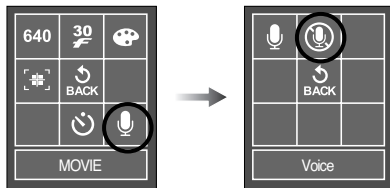
- File type : \*.avi (MPEG-4)



[MOVIE CLIP mode]

## Starting the recording mode

- To record a movie clip without voice
  - Press the Menu button.
  - Select the [VOICE] → [OFF] menu.



- Press the shutter button and movie clip is recorded for as long as the available recording time without voice allows.

- Pausing while recording a movie clip (Successive Recording)

This camera allows you to temporarily stop during unwanted scenes, while recording a movie clip. Using this function, you can record your favourite scenes into a movie clip without having to create multiple movie clips.

- Using Successive Recording

- Press the shutter button and movie clips are recorded for as long as the available recording time allows. Movie clips will still be recorded if the shutter button is released.
- Press the II button to pause recording. Press the II button again to resume the recording.
- If you wish to stop recording, press the shutter button again.



[Successive recording of a movie clip]

- How to use the ASR (Advanced Shake Reduction) mode ( ) ASR )

Advanced Shake Reduction (ASR) mode. This mode will reduce the effect of camera shake and help you get a well-exposed image in dim conditions.

Press the ASR button.

- Things to watch out for using the ASR mode

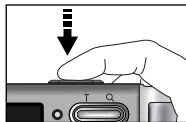
- The digital zoom will not operate in the ASR mode.
- If the lighting conditions are brighter than fluorescent lighting condition, the ASR doesn't activate.
- If the lighting condition is darker than in fluorescent lighting condition, camera shake warning indicator ( ) will display. For best results only take pictures in situations where the camera shake warning indicator ( ) is not displayed.
- If the subject is moving the final image captured may be blurred.
- Avoid moving the camera while the [Capturing!] message is displayed to achieve a better result.
- As the ASR uses the camera's digital processor, images taken using the ASR may take a little longer for the camera to process.



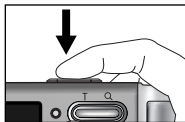
[ASR mode]

## • 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.  
Press the shutter button all way down to take the picture.



[Lightly press the shutter button]



[Press the shutter button]

- The available recording time may vary depending on shooting conditions and camera settings.
- When either 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 to flash shot mode.
- Shooting against the light :  
Please do not take pictures into the sun. Taking a picture against the sun may make the picture dark. To take a picture against the sun, please use the [Backlight] in the scene shooting mode (see page 34), fill-in flash (see page 22), spot metering (see page 33), or exposure compensation (see page 23).

- Avoid obstructing the lens or the flash when you capture an image.
- Compose the image by using the LCD monitor.
- In some of the following 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 set the camera

- The recording 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. Refer to page 52 for more information about the auto power off 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 halfway activates the autofocus and checks the condition of the flash. Pressing the shutter button down fully takes and stores the image. 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 not displayed, this button works as the OPTICAL ZOOM or DIGITAL ZOOM button.

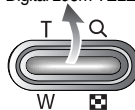


- This camera has a 3X optical zoom and a 5X digital zoom function. Using both will offer a total zoom ratio of 15X.

- TELE Zoom

Optical zoom TELE : Pressing the ZOOM T button. This will zoom into the subject i.e. the subject will appear nearer.

Digital zoom TELE : 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 (5X) is achieved, pressing the ZOOM T button will have no effect.



[WIDE zoom]

Pressing  
the ZOOM  
T button



[TELE zoom]

Pressing  
the ZOOM  
T button

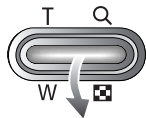


[Digital zoom 5X]

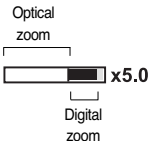
## • ZOOM W / T button

### • WIDE Zoom

Optical zoom WIDE : Pressing the ZOOM W button. This will zoom out from the subject i.e. the subject will appear farther away. Pressing the ZOOM W button continuously will set the camera to its minimum zoom setting i.e. the subject appears at its farthest from the camera.



Digital zoom WIDE : 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.



## INFORMATION

- Images taken using the digital zoom may take a little longer for the camera to process. Allow time for this to take place.
- You may notice a decrease in image quality when using the digital zoom.
- To view a clearer digital zoom image, press the shutter button halfway at the maximum optical zoom position and press the zoom T button again.
- The digital zoom can't be activated in the ASR, Continuous shot, Interval shot, Movie clip mode, [Night], [Children], [Text], [Close up] and [Fireworks] scene modes.
- 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.

## • M (Mode) button

- You can select the desired working mode using the M (Mode) button located on the back of the camera.



Press the M button and a menu show aside will display. Select a desired mode by using the Smart button.

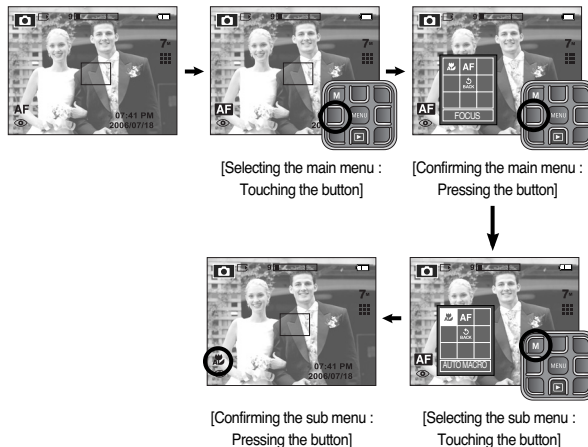
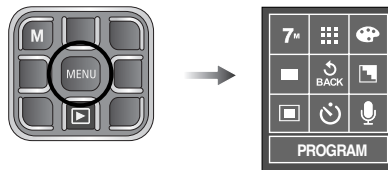


### ■ Mode icon

MODE	AUTO	PROGRAM	SPECIAL EFFECT	MOVIE	ASR	PLAY
ICON						
MODE	SCENE					
	NIGHT	PORTRAIT	CHILDREN	LANDSCAPE	CLOSE UP	
ICON						
MODE	TEXT	SUNSET	DAWN	BACKLIGHT	FIREWORKS	BEACH & SNOW
ICON						

## • MENU button

- When you press the MENU button, a menu related to each camera mode will be displayed on the LCD monitor. Pressing it again will return the LCD to the initial display.



## Selecting focus type

- You can select the focus type in accordance with the subject distance.  
The distance ranges are show below.



[Auto]



[Macro]



[Auto Macro]

- Types of focus modes and focus ranges (W : Wide, T : Tele) (Unit : cm)

Focus Type	Normal	Macro	Auto macro
Focus range	W:50-Infinity	W:15-50	W:15-Infinity
	T:50-Infinity	T:40-50	T:40-Infinity

### INFORMATION

- When the macro mode is selected, it is possible that camera shake will occur. Take care not to shake the camera while taking a picture.
- When you take a picture within 40cm in the Macro mode, select the FLASH OFF mode.

## Flash

- You can select the flash type in accordance with the subject distance.  
The distance ranges are show below.
- During the ASR, Continuous shot, Interval shot, AEB, Movie clip mode and Scene mode except for the Night, Portrait, Children modes, the flash will not operate.



- Flash range (W : Wide, T : Tele) (Unit : m)








ISO	Normal	Macro	Auto macro
AUTO	W:0.2-3.0	W:0.2-0.5	W:0.2-3.0
	T:0.4-2.2	T:0.4-0.5	T:0.4-2.2

### INFORMATION

- If you press the shutter button after selecting the Auto, Fill-in, Slow synchro flash, the first flash fires to check the shooting condition (Flash range and Power ratio of flash).  
Do not move the camera until the second flash fires.
- Using the flash frequently will reduce the life of the battery.
- Under normal operating conditions the charging time for the flash is usually within 3 seconds. If the battery is weak, the charging time will be longer.
- Take photographs within the flash range.
- The image quality is not guaranteed if the subject is too close or highly reflective.
- When taking an image in poorly lit conditions with the flash, there may be a white speck in the captured image. The speck is caused by the reflecting of the flash light from the atmospheric dust. It is not camera malfunction.

## Flash

- Flash mode indicator

Menu tab	Flash mode	Description
	Auto flash	If the subject or background is dark, the camera flash will operate automatically.
	Auto & 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.
	Fill in flash	The flash fires regardless of the available light. The intensity of the flash will be automatically controlled to suit the prevailing conditions.
	Slow synchro	The flash operates with a slow shutter speed to obtain a balanced correct exposure. In poor lighting conditions the camera shake warning indicator (  ) will display on the LCD monitor.
	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.

## 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

1. Press the exposure compensation menu button and the exposure compensation menu bar will appear as shown.



2. Press the Left / Right button to select the exposure value.
3. Press the Menu button again. The value you set will be saved and the Exposure Compensation setup mode will close.



- ※ 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.



## White balance

- The white balance control allows you to adjust the colours to appear more natural. When a menu except the AWB (Auto White Balance) is selected, you can only select the negative color effect.

**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** 🍷 : For shooting under daylight fluorescent types of three way fluorescent lighting.

**Fluorescent L** 🍷 : Shooting under white fluorescent lighting.

**TUNGSTEN** 🌞 : For shooting under tungsten (standard light bulb) lighting.

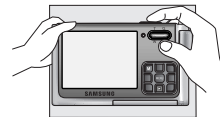
**CUSTOM** 📄 : Allows the user to set the white balance according to the shooting condition.

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

- 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 and place a sheet of white paper in front of the camera so that the LCD monitor shows only white.



2. Press the Shutter button to store the new custom white balance.

- The custom white balance value will be applied, starting with the next picture you take.

- The user configured white balance will remain effective until it is overwritten.

## ISO

- You can select the ISO sensitivity when taking pictures.  
The speed or specific light-sensitivity of a camera is rated in ISO numbers.

### - AUTO :

The camera's sensitivity is automatically changed by variables such as lighting value or subject brightness.

### - 100, 200, 400, 800 :

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 greater is the camera's sensitivity to light; therefore it has a greater capacity for taking pictures in darker conditions. However, the noise level in the image will increase as the ISO value increases, making the image appear coarse.



## Shutter Speed / Aperture Value

- 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
  - Select the [Night] scene mode. (p.34)
  - Press the LT menu button and a menu for selecting the shutter speed and aperture value will display.



AUTO, WIDE : F2.7 ~ F4.3  
TELE : F5.2 ~ F8.3

Aperture Value

Shutter Speed

AUTO, 1~16S

3.



:Selecting the  
Shutter speed or



:Changing the  
values

- Press the MENU button again. The value you set will be saved and the mode will switch to NIGHT SCENE mode.

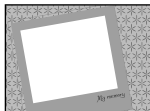
- High Shutter speeds can capture a moving object in a still image as if the object is not moving. Low Shutter speeds can capture a moving object with an 'active' effect.
- Smaller Aperture values make the object sharp but blur the background. Larger Aperture values make both the object and background sharp.

## Special Effect : Photo Frame

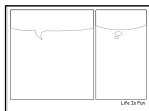
- You can add 8 types of frame-like borders to a still image you want to capture.
- Date & Time information will not be printed on the stored image taken with Photo Frame menu.
- This menu can be selected only in the Special Effect mode.



F1



F2



F3



F4



F5



F6



F7



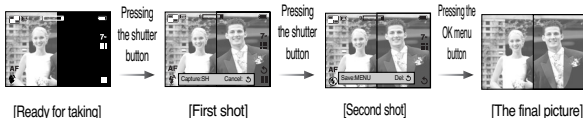
F8

## Special Effect : Composite shooting

- You can combine 2, 3, or 4 different shots in a still image
- This menu can be selected only in the Special Effect mode.
  - : 2 different shots are combined in a still image.
  - : 3 different shots are combined in a still image.
  - : 4 different shots are combined in a still image.
  - : 2 different panorama shots are combined in a still image.



※ Selecting 2 composite shooting





### INFORMATION

- You can use the flash, self-timer, macro focus, voice memo functions and the Zoom W / T button during the composite shooting.
- If you press the Play mode button or pressing the mode button during the composite shots, each camera working mode is executed. The images captured before will be deleted.
- After taking the last composite shooting, press the MENU button. And then the voice memo will start.

## Special Effect : Composite shooting


- Changing a part of composite shot before taking the last shot  
Before taking the last composite shot, you can change a part of composite shot.

- During the composite shots, press the  button.
- A previous image will be deleted and new frame will display. If there is an image taken before, press the  button again and a previous image will be deleted again.



- Press the shutter button to capture a new image.

- Changing a part of composite shot after taking the last shot


- After taking the last shot, a menu will display as shown.
- Select an image to delete by using the Smart button.
- Press the  button and the selected image is deleted.
- Press the Shutter button to take an image again.
- Press the MENU button and the image is saved.

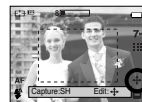


## Special Effect : Preset focus frames

- You can make the subject stand out from its surroundings. The subject will be sharp and in focus while making the rest out of focus.
- This menu can be selected only in the Special Effect mode.



- Moving and changing the focus frame
  - Press the  button after selecting a preset focus frame.



- The colour of frame turns to white. Press the Smart button to move the focus frame position.
- Press the Shutter button to capture images.



## Using the LCD monitor to adjust the camera settings

- You can use the menu on the LCD monitor to set up recording functions.
- The items indicated by  are default settings.

Menu tab	Main menu	Sub menu	Camera working mode	Page	
	Size	<span style="background-color: #cccccc;">7M</span>	5M	SCENE	p.29
		3M	1M		
		VGA	-		
				640	320
	Quality	Super Fine	<span style="background-color: #cccccc;">Fine</span>	SCENE	p.30
		Normal	-		
	Frame Rate	<span style="background-color: #cccccc;">30FPS</span>	15FPS		p.30
	Timer	<span style="background-color: #cccccc;">Off</span>	10sec	SCENE	p.30
		2sec	Double		
	Voice	Memo	Record	SCENE	p.31
		<span style="background-color: #cccccc;">Off</span>	-		
	Color E	<span style="background-color: #cccccc;">Normal</span>	B & W		p.31
		Sepia	Blue		
		Red	Green		
		Negative	Custom		
	Shooting	<span style="background-color: #cccccc;">Single</span>	Continuous		p.32
		AEB	Interval		
	Sharpness	<span style="background-color: #cccccc;">Soft</span>	Normal		p.32
		Vivid	-		
	Metering	Spot	<span style="background-color: #cccccc;">Multi</span>		p.33
	Effect	<span style="background-color: #cccccc;">Photo Frame</span>	Composite		p.33
		HighLight	-		

Menu tab	Main menu	Sub menu	Camera working mode	Page	
	Scene	<span style="background-color: #cccccc;">Nightscene</span>	Portrait	SCENE	p.34
		Children	Landscape		
		Backlight	Firework		
		Text	Beach&Snow		
		Sunset	Dawn		
		Close up	-		
	Stabilizer	<span style="background-color: #cccccc;">On</span>	Off		p.34

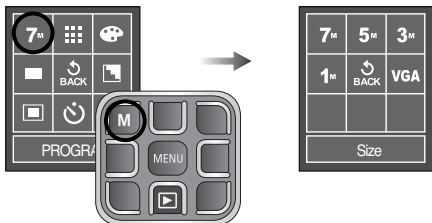
※ Menus are subject to change without prior notice.

## How to use the menu

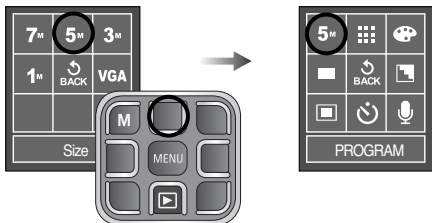
1. Turn on the camera and press the MENU button.  
A menu for each camera mode appears.



2. Press a menu button that locates on the same position of the desired menu and the sub menu will display.



3. Press a menu button that locates on the same position of the desired sub menu and the menu will be selected.

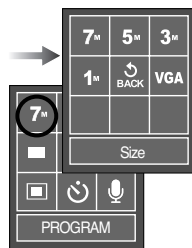


4. Press the MENU button and the menu will disappear.

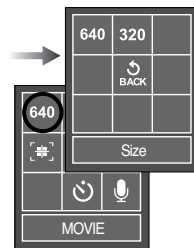
## Size

- You can select the image size appropriate for your application.

Mode	Still image mode					Movie clip mode	
Icon	<b>7<sup>M</sup></b>	<b>5<sup>M</sup></b>	<b>3<sup>M</sup></b>	<b>1<sup>M</sup></b>	<b>VGA</b>	<b>640</b>	<b>320</b>
Size	3072X 2304	2592X 1944	2048X 1536	1024X 768	640X 480	640X 480	320X 240



[STILL IMAGE mode]



[MOVIE CLIP mode]

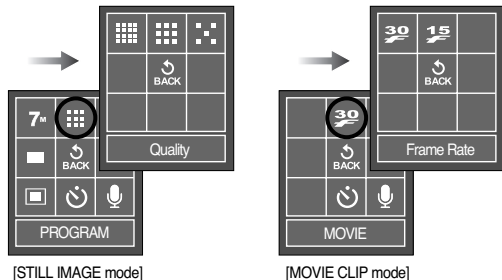
### INFORMATION

- The higher the resolution, the lower the number of shots available because high resolution images require more memory.

## Quality / Frame rate

- You can select the compression ratio appropriate for your application of the captured images. The higher the compression ratio, the lower the picture quality.

Mode	Still image mode			Movie clip mode	
Icon					
Sub menu	Super Fine	Fine	Normal	30FPS	15FPS
File Type	jpeg	jpeg	jpeg	avi	avi

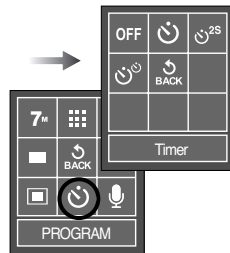


### INFORMATION

- 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.

## Self-timer / Remote control

- This function is used when the photographer would also like to be in the picture.
  - Selecting a self-timer :
    - When you press the Shutter button, the picture will be taken after the specified time has elapsed and the self-timer function will be cancelled.



- Description of Self-timer / Remote mode

Icon	Mode	Description
	10s	Pressing the shutter button will allow an interval of 10 seconds before the image is taken.
	2s	Pressing the shutter button will allow an interval of 2 seconds before the image is taken.
	Double	A picture will be taken after about 10 seconds and 2 seconds later a second picture will be taken.

## Voice recording / Voice memo

- A voice can be recorded for as long as the available recording time of the memory capacity allows. And you can add your voice-over to a stored still image.

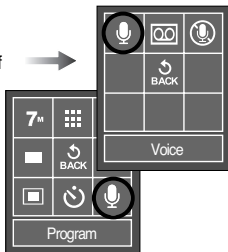
### Voice recording

1. Select a recording mode with the exception of the Movie clip mode by pressing the mode button.
2. Select the Voice recording menu by using the smart button.
3. 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 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



### Voice memo

1. Select a recording mode with the exception of the Movie clip mode by pressing the mode button.
2. Select the Voice memo menu by using the smart button. If the voice memo indicator is displayed on the LCD monitor, the setting is completed.
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.



## Effect

- By using the camera's digital processor, it is possible to add special effects to your images

**NOR** : No effect is added to the image

**BW** : Captured images will be stored in black and white.

**S** : Captured images will be stored in a sepia tone (a range of yellowish brown colours).

**B** : Captured images will be stored in a blue tone.

**R** : Captured images will be stored in a red tone.

**G** : Captured images will be stored in a green tone.

**N** : Save the image in negative mode.

**C** : User can set the tone of the R (Red), G (Green) and B (Blue) value.

These menus can be selected in the Special Effect mode only.



[Program mode]

- How to use the Custom Effect ( **C** )

Up / Down button : Selects R, G, B menu.

Left / Right button : Change the values

MENU button : saves the changes





## Continuous shot

- You can select type of shooting and number of continuous shot.

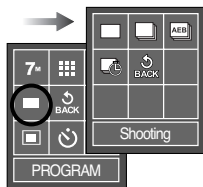
- Single : Take one picture only
- Continuous : Images will be taken continuously until the shutter button is released. The shooting capacity depends on the memory.
- AEB : Take three pictures in a series in different exposures: short exposure (-0.5EV), standard exposure (0.0EV) and over exposure (+0.5EV). Use the mode if it is hard to decide exposure of the object.
- Interval : You can take images with interval and number of images set before.

Up / Down button : Selecting the Interval menu or or Number of image menu.

Left / Right button : Changing the numbers (00 min-60 min / 00 pics-99 pics).

After changing the number, press the MENU button. And then the camera starts taking images.

- ※ After taking the first image, the LCD monitor turns off. After taking the last image, the camera turns off.
- ※ Before using the Interval shot, charge the battery fully. If the battery is out during the shots, the last taken before the camera was turned off.
- ※ High resolution and picture quality increases file saving time, which increases stand-by time.
- ※ If the [Continuous] or [AEB] sub menu is selected, the flash will be off automatically.
- ※ It is best to use a tripod for the AEB and Interval shooting as the time to save each image file is longer and blurring caused by camera shake may occur.



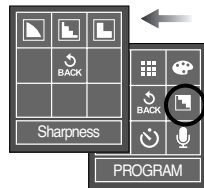
[PROGRAM mode]



[Interval shot menu]

## 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.



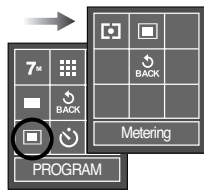
[PROGRAM mode]

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.

## • Metering

- If you cannot obtain suitable exposure conditions, you can change the metering method to take brighter pictures.




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

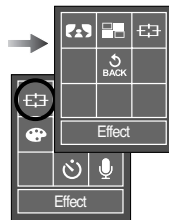


[PROGRAM mode]

## • Special Effect

- It is possible to add special effects to your images by using this button.

-  : You can add 8 types of frame-like borders to a still image you want to capture.
-  : You can combine 2 ~ 4 different shots in a still image.
-  : You can make the subject stand out from its surroundings. The subject will be sharp and in focus while making the rest out of focus.

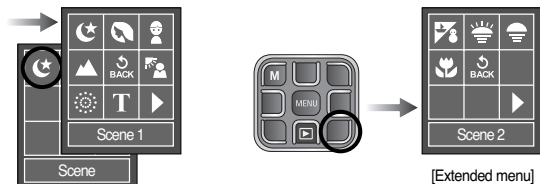


[Special Effect mode]

- ※ If the subject is not the centre of the focus area, do not use the spot metering as this may result in an exposure error. In this circumstance, it is better to use exposure compensation.

## Scene menu

- Use the menu to easily configure optimal settings for a variety of shooting situations.

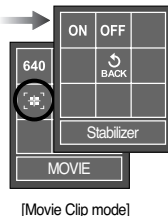


- [NIGHT] (🌙) : Use this for shooting still images at night or in other dark conditions.
- [PORTRAIT] (👤) : To take a picture of a person.
- [CHILDREN] (👦) : To take a picture of fast moving objects, for example, children.
- [LANDSCAPE] (🏞️) : To take pictures of distant scenery.
- [BACKLIGHT] (🌞) : For portraits without shadows caused by backlighting.
- [FIREWORK] (💣) : Firework scenes.
- [TEXT] (📄) : Use this mode to shoot a document.
- [BEACH&SNOW] (🌊) : For ocean, lake, beach and snow scape scenes.
- [SUNSET] (🌅) : For taking pictures of sunsets.
- [DAWN] (🌄) : Daybreak scenes.
- [CLOSE UP] (🌿) : Close-up shooting for small objects such as plants and insects.


## Movie Clip frame stabiliser

- This function helps stabilise images captured during movie recording. You can select this menu only in the MOVIE CLIP mode. If the memory card is not inserted, this function will not operate.


- Off** : Movie clip frame stabilizer function is disabled.
- On** : Prevents camera shake during movie recording.



## 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 the memory card is inserted in the camera, all the camera functions apply only to the memory card.
- If the memory card is not inserted in the camera, all the camera functions apply only to the internal memory.

### • Playing back a still image

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 view by pressing the LEFT/ RIGHT button.




- ※ Press and hold the LEFT or RIGHT button to play back the images quickly.


## INFORMATION



- 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 to ON.

### • Playing back a movie clip


1. Select the recorded movie clip that you want to play back by using the smart button.
2. Press the smart button and menus for movie will display.
3. Press the /|| button to play back a movie clip file.

- To pause a movie file while playing it back, press the /|| button again.

- Pressing the /|| button again will cause the movie clip file will restart.


- To rewind the movie clip while it is playing, press the  ◀◀ button. To fast forward the movie clip, press the  ▶▶ button.

To control the movie' s sound volume, press the Up / Down button.

- To stop playback of the movie clip, pause the movie by pressing the /|| button and press the Left / Right button.



### • Movie clip capture function : capture still images from the movie clip.

1. Press the /|| button while playing back a movie file.
2. Press the Shutter button. The captured image is saved under a new file name.



## Starting play mode

- On camera movie trimming : You can extract desired frames of movie clip during the movie clip play back.

1. Press the ►/II button at the point of the movie clip that you want to start extracting.



2. Press ►/II button at the point of the movie clip that you want to stop extracting.



3. Press the MENU button and a confirmation window will display.



4. Press the smart button to select a desired sub menu.

[YES] : The extracted frames are saved as a new file name.

[NO] : The movie trimming will cancel.

- Playing back a recorded voice file

1. Select the recorded voice that you want to play back by using the smart button.



2. Press the ►/II button and the voice will playback.

- To pause a voice file while playing it back, press the ►/II button again.

- Pressing the ►/II button again will cause the voice file to restart.

- To rewind the voice while it is playing, press the ◀◀ button. To fast forward the voice, press the ▶▶ button.

- To stop playback of the voice, pause the voice by pressing the ►/II button and press the Left / Right button.



- Playing back a recorded voice memo

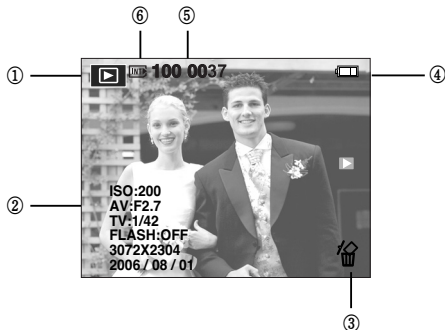
1. Select a still image that has voice memo. And then voice memo icon as shown will display.

2. Press the ►/II button and the voice memo will playback.



## LCD monitor Indicator

- The LCD monitor displays shooting information about the displayed image.



No.	Description	Icon	Page
1	Play mode icon		-
2	Recording Information	ISO - ISO:200 Aperture value - AV:F2.7 Shutter speed - TV:1/42 Flash On/Off - FLASH:OFF Image size - 3072X2304 Recording date - 2006.08.01	-
3	Delete menu		p.37, 40
4	Battery		p.11
5	Folder name & File name	100-0001	p.52
6	Card inserted indicator		-

## 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.

### Play mode button

- 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. The camera is turned on in play mode. Press the play mode button again to turn off the camera.

### Delete button

- This deletes images displayed on the LCD monitor.



- Press the Delete button and a menu as shown will display.
  - If [Yes] is selected : deletes the displayed image.
  - If [No] is selected : cancels "Delete Image".

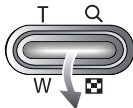


## • Thumbnail( ) / Enlargement( ) button


- 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.
2. The thumbnail display will highlight the image that had been showing at the time the thumbnail mode was selected.
3. Press the Smart button to move to a desired image.
4. To view an image separately, press the enlargement button.



[Normal display mode]

Pressing the Thumbnail button(  )

Pressing the enlargement button(  )



[Thumbnail display mode]

- The maximum enlargement in proportion to the image size.

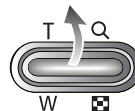
Image size	7M	5M	3M	1M	VGA
Maximum enlargement	X10.0	X8.1	X6.4	X3.2	X2.0

### • Image enlargement

1. Select an image that you want to enlarge and press the enlargement button.
2. Different parts of the image can be viewed by pressing the Smart button.
3. Pressing the thumbnail button will zoom back to the original full sized image.

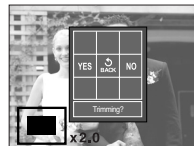
- You can tell whether the image displayed is an enlarged view by checking the image enlargement indicator shown at the bottom left of the LCD monitor. (If the image is not an enlarged view, the indicator will not be displayed.) You can also check the area of enlargement.

- Movie clips and WAV files can't be enlarged.
- If an image is enlarged, a loss of quality may occur.



### • Trimming : You can extract part of the image and save it separately.

1. Select an image that you want to enlarge and press the enlargement button.
  2. Different parts of the image can be viewed by pressing the smart button.
  3. Press the MENU button and a message will be displayed as shown alongside.
  4. Select a desired sub menu by pressing the Left / Right button and press the MENU button.
- [YES] : The trimmed image will save as a new file name, and display on the LCD monitor.





[NO] : The trimming menu will disappear.

- ※ If there is insufficient memory space to save the trimmed image, the image can't be trimmed.
- ※ To delete the enlarged image during the trimming function, press the delete button.


## 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 mode button or shutter button.

Icon	Main menu	Sub menu		Page	
	DELETE	Select	All Pics	p.40	
	PROTECT	Select	All Pics	p.41	
	SLIDE SHOW	Play	One	p.41	
			Repeat		
		Interval	1,3,5,10sec		
			Effect		Off
			Effect1,2,3,4		
MIX					
	RESIZE	5M	3M	p.42	
		1M	VGA		
		Start Image1	-		
	ROTATE	Right 90 °	Left 90 °	p.43	
		180 °	Horizontal		
		Vertical	-		
	Color E	B&W	Sepia	p.43	
		Blue	Red		
		Green	Negative		

Icon	Main menu	Sub menu		Page
	DPOF	Images	One Pic	p.44
			All Pics	
			Cancel	
		Index	No	
			Yes	
		Size	One Pic	
			All Pics	
			Cancel	
			COPY TO CARD	

- This menu is available while the camera is connected to a PictBridge supporting printer (direct connection to the camera, sold separately) with a USB cable.

Icon	Main menu	Sub menu		Page
	PRINT	No	Yes	p.47
	IMAGES	One Pic	-	
		All Pics	-	
	Size	Auto	-	p.48
		PostCard	Card	
		4X6	L	
		2L	Letter	
		A4	A3	
		Auto	Full	
		1	2	
	Layout	4	8	
		9	16	
		Index	-	



## Setting up the play back function using the LCD monitor

Icon	Main menu	Sub menu		Page
☑	Type	Auto	-	p.48
		Plain	-	
		Photo	-	
		FastPhoto	-	
	Quality	Auto	-	
		Draft	-	
		Normal	-	
		Fine	-	
	Date	Auto	-	
		Off	-	
		On	-	
	File Name	Auto	-	
		Off	-	
		On	-	
RESET	No	-		
	Yes	-		

※ Menus are subject to change without prior notice.

## 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 and SKIN image are 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.



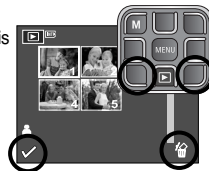
- Deleting images

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

Moving between images : Smart button

Selecting image : ☑ button

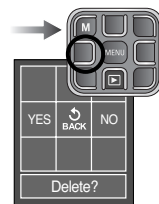
Deleting image : 🗑 button



[All Pics] : Displays confirmation window.

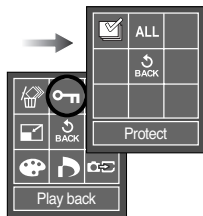
Select the [Yes] menu to delete all unprotected images.

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



## Protecting images

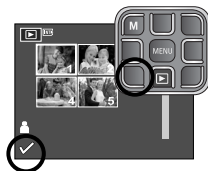
- This is used to protect specific shots from being accidentally erased (Lock). It also unprotects images that have been previously protected (Unlock).



### Protecting Images

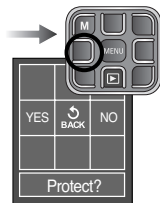
[Select] : Selection window for an image to be protected/released is displayed.

Moving between images : Smart button  
Protect/ release the image :  button



[All Pics] : Selecting the [Yes] menu protects all saved images.

Selecting the [No] menu release all saved images from protection.

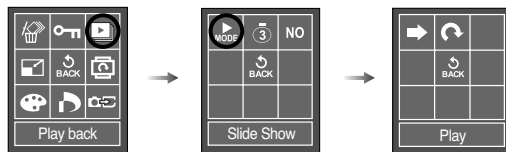


- If you protect an image, the protect icon will be displayed on the LCD monitor. (An unprotected image has no indicator)
- An image in LOCK mode will be protected from the delete function, but will NOT be protected from the format function.

## 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.



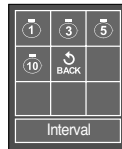
[ONE PLAY] : The slide show is closed after one cycle.

[REPEAT PLAY] : The slide show is repeated until cancelled.

- Press **▶/||** button to pause the slide show.
- Press **▶/||** button again to resume the slide show.
- To stop the slide show, press the **▶/||** button, and then press the LEFT or RIGHT button.



- Setting play interval : Set the slide show play interval.



### INFORMATION

- The loading time depends on the image size and quality.
- While the slide show is playing, only the first frame of a MOVIE file is displayed.
- While the slide show is playing, the voice recording file will not display.

## Starting the slide show

- Configure slide show effects : Unique screen effects can be used for the slide show.

**off** : Normal display.

**[S]** : Image is displayed slowly.

**[C]** : Image is displayed slowly from the centre outwards.

**[TL]** : Image moves from the top left.

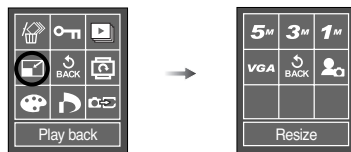
**[TR]** : The image slides diagonally from top left to bottom right.

**MIX** : The image slides irregularly.



## Resize

- Change the resolution (size) of pictures taken. Select [User image] to save an image to be the start-up image. The resized image will have a new file name.



- Image Resize Types ( O : Selectable, X : Not Selectable)

	5M	3M	1M	VGA	Start Image
7M	O	O	O	O	O
5M	X	O	O	O	O
3M	X	X	O	O	O
1M	X	X	X	O	O
VGA	X	X	X	X	O

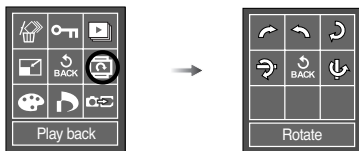
### INFORMATION

- 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 [START IMAGE] image is stored not on the memory card but on the internal memory.
- Only two [START IMAGE] images can be saved. If you save a new [START IMAGE] image, the existing startup image will be deleted in order.
- If the memory capacity is insufficient to store the resized image, a [Memory 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 various degrees.

Once the playback of the rotated picture is finished, it will switch back to the original state.



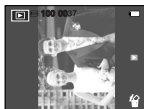
- Press the sub menu button and the rotated image will display. If you display the rotated image on the LCD monitor, empty spaces may appear to the left and right of the image.



[Before rotating the image]



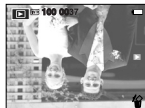
[Right 90 °]



[Left 90 °]



[180 °]



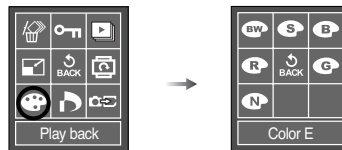
[Horizontal]



[Vertical]

## Effect

- By using the camera's digital processor, it is possible to add special effects to your images.



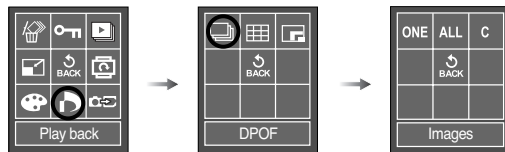
- BW** : Captured images will be stored in black and white.
- S** : Captured images will be stored in a sepia tone (a range of yellowish brown colours).
- B** : Captured images will be stored in a blue tone.
- R** : Captured images will be stored in a red tone.
- G** : Captured images will be stored in a green tone.
- N** : Save the image in negative mode.

## DPOF

- DPOF (Digital Print Order Format) allows you to embed printing information on your memory card's 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.
- If a memory card is not inserted, the menus are still displayed in the LCD, but are not selectable.

## DPOF : Selecting images

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




[ONE PIC] : Select a number of prints of displayed image.

[All Pics] : Configure number of prints for all pictures except movie and voice files.

[Cancel] : Cancel the print setup.

- ※ Select number of print by using the Smart button and press the MENU button.

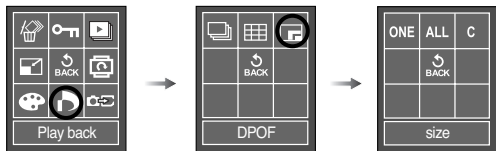


If an image carries DPOF instructions, the DPOF indicator (  ) will show.



## • DPOF : Print size

- You can specify the print size when printing images stored on the memory card. The [Size] menu is available only for DPOF 1.1 compatible printers.



[ONE PIC] : Select a print size of displayed image.

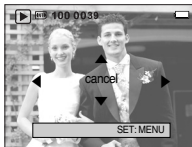
[ALL PICS] : Change print size of all saved images except movie and voice files.

[CANCEL] : Cancel all of the print size settings.

3. Select print size by using the Smart button and press the MENU button.

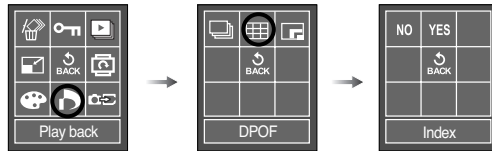
※ DPOF [SIZE] secondary menu : Cancel, 3X5, 4X6, 5X7, 8X10

※ Depending on the manufacturer and printer model, cancelling the printing may take a little longer for the printer to process.



## • DPOF : Index

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

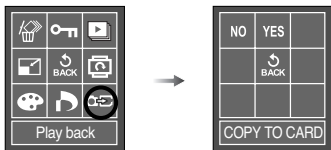


[NO] : Cancel the index print setting.

[YES] : The image will be printed in index format.

## Copy To Card

- This enables you to copy image files, movie clips and voice recording files on the camera's built-in internal memory to the camera's removable SD memory card.



- [No] : Cancels "Copy to Card".
- [Yes] : All images, movie clips and voice recording files saved in the internal memory are copied to the memory card after the [Processing!] message is displayed. After copying has been completed, the screen will return to play mode.

### INFORMATION

- When this menu is selected without inserting a memory card, you can select the [COPY TO CARD] menu but the menu can't be run.
- If there is not enough space available in the memory card to copy saved images in the internal memory (22MB), the [COPY TO CARD] command will copy only some of the images and display [Memory Full!] message. Then the system will return to the playback mode. Please be sure to delete any unnecessary files to free up space before inserting the memory card into the camera.
- When you move images from the internal memory to the removable SD card, they will be automatically renumbered to avoid duplication of the file name. If the last file in the memory card is SL700001.jpg, the copied file names start from SL700002.jpg. After completing [COPY TO CARD], the last stored image of the last copied folder is displayed on the LCD monitor.

## PictBridge

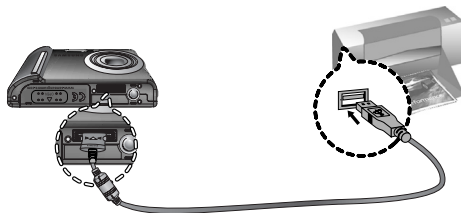
- You can use the USB cable to connect this camera to a printer that supports PictBridge (sold separately) and print the stored images directly. Movie clips and voice files cannot be printed.

- Setting up the camera for connection with the printer



- Connecting the Camera to a Printer

Connect the camera to a printer's USB port with the supplied USB cable.




## PictBridge

- ※ If the [USB] menu is set to the [Computer], you cannot connect a Pictbridge compatible printer to the camera through USB cable with [Connecting Computer] message. By pressing the Printer button, at this point, you can connect the easy printing mode with [Connecting Printer] message.

In some instances the camera may not connect to the printer, this will depend on the make of the printer.

### ■ Easy printing

When you connect the camera to printer in the Play back mode, you can print a picture easily.

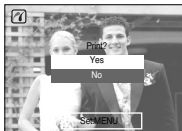
- Pressing the printer(  ) button : Currently displayed image will be printed with the printer's default setting.

- Pressing the Left / Right button : Selects a previous / next image.



### ■ Printing Images

1. Press the Menu button and the PictBridge menu will display.
2. Use the Up / Down buttons to select the [PRINT] menu. And then press the Right button.
3. Use the Up and Down buttons to select a desired sub menu and press the MENU button.
  - [YES] : A confirmation window will display. Select the [YES] menu and press the MENU button. The image will be printed.
  - [NO] : Printing will be cancelled.



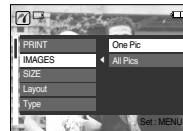
## PictBridge : Picture Selection

- You can select images you want to print

### ● Setting the Number of Copies to Print

1. Press the Menu button and the PictBridge menu will display.
2. Use the Left and Right buttons to select the [IMAGES] menu.
3. Use the Up and Down buttons to select a desired sub menu and press the MENU button.

- Select [One Pic] or [All Pics]. A screen where you can set the number of copies of prints will appear as shown below.



[When [One Pic] is selected]



[When [All Pics] is selected]

- Press the Up/ Down button to select the number of prints.
- When [One Pic] is selected : Use the Left/ Right button to select another picture. After selecting another picture, select the number of prints for another picture.
- After setting the number of prints, press the OK button to save.
- Press the Shutter button to return to the menu without setting the number of prints.



## PictBridge : Print Setting

- You can select the Paper Size, Print Format, Paper Type, Print Quality, Date Print, and File Name Print menus for printed pictures.
  1. Press the Menu button and the PictBridge menu will display.
  2. Use the UP and DOWN buttons to select the desired menu, and then press the RIGHT button.
  3. Use the UP and DOWN buttons to select the desired submenu value, and then press the MENU button.



※ The menus you can set up are as follows.

Menu	Function	Sub menu
Size	Set the size of the printing paper	Auto, PostCard, Card, 4X6, L, 2L, Letter, A4, A3
Layout	Set the number of pictures to be printed on a sheet of paper	Auto, Full, 1, 2, 4, 8, 9, 16, Index
Type	Set the quality of the printing paper	Auto, Plain, Photo, FastPhoto
Quality	Set the quality of the picture to be printed	Auto, Draft, Normal, Fine
Date	Set whether to print the date	Auto, Off, On
File Name	Set whether to print the file name	Auto, Off, On

※ Some menu options are not supported on all printers.  
If not supported, the menus are still displayed in the LCD, but are not selectable.

## PictBridge : Reset

- Initialises user-changed configurations.

1. Use the Up and Down buttons to select the [RESET] menu tab. And then press the Right button.
2. Use the UP and DOWN buttons to select the desired sub menu value, and then press the MENU button.

If [Yes] is selected : All print and image settings will be reset.


If [No] is selected : Settings will not be reset.



- ※ Default print setting varies depending on the printer manufacturer.



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



## 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
	OSD set (Recording mode)	Full	Basic	p.50
		Hide	LCD Save	
	OSD set (Playback mode)	Full	Basic	
		Hide	-	
	Date&Time	yy/mm/dd	mm/dd/yy	p.51
		dd/mm/yy	Off	
	Imprint	Off	Date	
		Date & Time	-	
	Language	ENGLISH	한국어	FRANÇAIS
		DEUTSCH	ESPAÑOL	ITALIANO
简体中文		繁體中文	РУССКИЙ	
PORTUGUÊS		DUTCH	DANSK	
SVENSKA		SUOMI	ไทย	
BAHASA		عربي	Čeština	
POLSKI		Magyar	Türkçe	
	File	Series	Reset	p.52
	Power Off	Off	1, 3, 5, 10 min	
	LCD	Dark	Normal	
		Bright	-	
	Quick View	Off	0.5, 1, 3 sec	p.53
AF Lamp	Off	On		

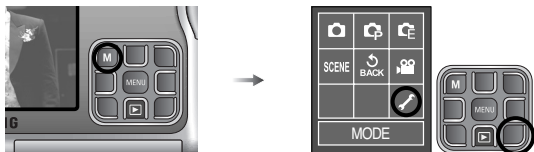
Menu tab	Main menu	Sub menu	Secondary menu	Page
	Sound Volume	Off	Low	p.53
		Medium	High	
	Shutter Sound	Off	Sound1	
		Sound2	Sound3	
	Beep Sound	Off	Sound1	
		Sound2	Sound3	
	Start Sound	Off	Sound1	
		Sound2	Sound3	
Start Image	Off	Logo	p.54	
	User Image 1	User Image 2		
	Format	No	Yes	p.55
	Video Out	NTSC	PAL	
	USB	Computer	Printer	
	Reset	No	Yes	

※ Menus are subject to change without prior notice.

## Setup menu

### How to select the setup menu

1. Select the Setup mode.



2. Press each buttons that have different setup menus.



3. To move the menu cursor, press the each smart buttons as shown.



4. After selecting a menu, press the MENU button to confirm the menu. Press the M button and the menu will disappear.



### [OSD set]

- You can check shooting (Recording mode) and displayed image (Play back mode) information.



[Recording mode menu]



[Play back mode menu]

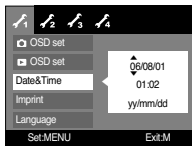
- [Full] : When the smart button is touched, the icons will be enlarged and OSD will be displayed.
- [Basic] : When the smart button is touched, the icons will be enlarged and OSD will not be enlarged.
- [Hide] : If the camera doesn't operate for about 3 seconds, all OSD will disappear. When the shutter is pressed down or half way down, the shutter speed and auto focus frame will display. OSD may display by using the camera buttons except for the shutter button.
- [LCD save] : If the camera is not used for about 30 seconds, the power and camera status lamps blink and the LCD monitor turns off.

## Setup menu

### [ 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.

- Date type : [yy/mm/dd], [mm/dd/yy], [dd/mm/yy], [Off]
- Up / Down button : changing the settings
- Left / Right button : changing the sub menus



### [ Imprinting the recording date ]

- There is an option to include DATE / TIME on still images.

#### ● Sub menus

- [Off] : The DATE & TIME will not be imprinted on the image file.
- [Date] : Only the DATE will be imprinted on the image file.
- [Date&Time] : The DATE & TIME will be imprinted on the image file.



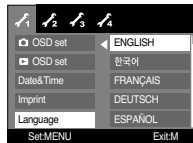
- ※ The Date & Time are imprinted at the bottom right side of the still image.
- ※ The imprint function is applied only to still images except for the images taken in the [Text] scene mode and photo frame effect mode.
- ※ Depending on the manufacturers and print model, the date printed on an image may not be printed correctly.

### [ Language ]

- There is a choice of languages that can be displayed on the LCD monitor. Even if the battery and AC charger are removed and inserted again, the language setting will be preserved.

#### LANGUAGE sub menu :

English, Korean, French, German, Spanish, Italian, S.Chinese, T.Chinese, Russian, Portuguese, Dutch, Danish, Swedish, Finnish, Thai, BAHASA (MALAY / INDONESIAN), Arabic, Czech, Polish, Hungarian and Turkish.



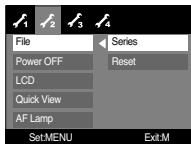
## Setup menu

### [ File name ]

- This function allows the user to select the file naming format.

[Series] : New files are named using numbers that follow the previous sequence, even when a new memory card is used, or after formatting, or after deleting all pictures.

[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.



- The first stored folder name is 100SSCAM, and the first file name is SL7010001.
- File names are assigned sequentially from SL7010001 → SL7010002 → ~ → SL7019999.
- The folder number is assigned sequentially from 100 to 999 as follows: 100SSCAM → 101SSCAM → ~ → 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.

#### ● Sub menus

[OFF] : The camera will not be turned off automatically.

[1, 3, 5, 10 min] : The power will turn off automatically if not used for the period of time specified.

- After replacing the battery, 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, playing back a movie file or taking a composite shot.



### [ LCD brightness ]

- You can adjust the LCD brightness.

#### ● [LCD] sub menu : Dark, Normal, Bright



## • Setup menu

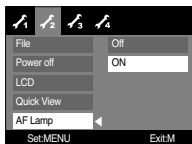
### [ Quick view ]

- 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 [Quick View] setup. Quick view is possible only with still images.
- Sub menus  
[Off] : The quick view function can't be activated.  
[0.5, 1, 3 sec] : The captured image is briefly displayed during the selected time.



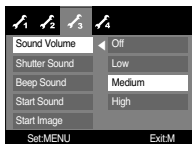
### [ Auto Focus lamp ]

- You can turn the Auto Focus lamp on and off.
- Sub menus  
[Off] : The AF lamp will not light up in a low light condition.  
[On] : The AF lamp will light up in a low light condition.



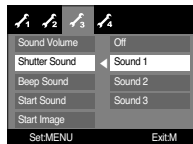
### [ Sound Volume ]

- You can select the sound volume of start sound, operation sound and shutter sound.
- [Sound] sub menus : [Off], [Low], [Medium], [High]



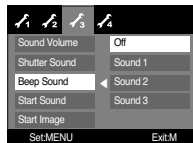
### [ Shutter sound ]

- You can select the shutter sound.
- Shutter sound : [Off], [Sound 1], [Sound 2], [Sound 3]



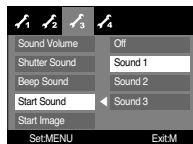
### [ Operation Sound ]

- If you set sound to ON, various sounds will be activated for camera startup, when buttons are pressed, so that you can be aware of the camera operation status.
- [Beep Sound] sub menus : [Off], [Sound 1], [Sound 2], [Sound 3]



### [ Start up sound ]

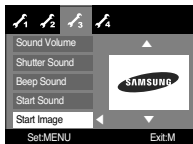
- You can select the sound that is activated whenever the camera is turned on.
- Start up sound : [Off], [Sound 1], [Sound 2], [Sound 3]  
- If the start up image is set to [Off], the start up sound will not activate, even though you may have set these to on.



## Setup menu

### [ Start up image ]

- You can select the image that is first displayed on the LCD monitor whenever the camera is turned on.
- Start up image : [Off], [LOGO], [User Image]
  - Use a saved image for the start-up image with the [START IMAGE] in the [RESIZE] menu in the play mode.
  - The start-up image will not be deleted by [DELETE] or [Format] menu.
  - The User images will be deleted by [Reset] menu.



### [ Formatting a memory ]

- This is used for formatting the memory. If you run [Format] on the memory, all images, including the protected images, will be deleted. Be sure to download important images to your PC before formatting the memory.
- Sub menus
  - [No] : The memory will not be formatted.
  - [Yes] : A [Processing!] message appears and the memory will be formatted. If you run FORMAT in Play mode, a [No Image!] message will appear.

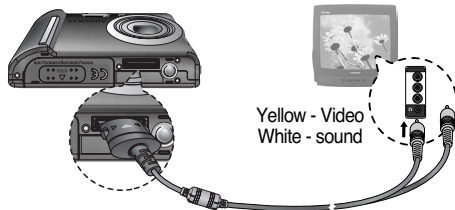


Be sure to run [Format] on the following types of memory card.

- A new memory card, or an unformatted memory card
- A memory card that has a file this camera can't recognise 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.

### [ 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.
- Connecting to an external monitor
  - Connect the camera to an external monitor with the supplied AV cable.



## • Setup menu

- 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, some parts of the image may not display.
- 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.
- When the camera is connected to an external monitor, the button sound may not sound.

### [ Connecting an External Device (USB) ]

- You can select an external device to which you want to connect the camera using the USB cable.

#### ● Sub menus

[Computer] : Select this if you want to connect the camera to your PC. Refer to page 65 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 46 for instructions on how to connect the camera to your printer.



### [ Initialisation ]

- 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.

#### ● Sub menus

[No] : Settings will not be restored to their defaults.

[Yes] : All settings will be restored to their defaults.





## • 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 leave this camera in places subject to dust, chemicals (like naphthalene and mothball), high temperatures or high humidity.  
Keep this camera with silica gel in a hermetically sealed box when not planning to use the camera for a long period of time.
- Sand can be particularly troublesome to cameras.
  - Do not let sand get inside the camera 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 camera unusable.
- Handling the camera
  - Never drop the camera or subject it to severe shocks or vibrations.
  - Protect the large size LCD monitor from an impact. When this camera is not used, keep it in the camera case.
  - Avoid obstructing the lens or the flash when you capture an image.
  - This camera is not waterproof.  
To avoid dangerous electrical shocks, never hold or operate the camera with wet hands.
  - If you use this camera in wet places, such as beach or pool, do not let water or sand get inside the camera. Doing so may result in failure or may permanently damage the unit.

- 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 a protective carrying case 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.
- Before an important event or going on a trip, you should check the camera condition.
  - Take a picture to check that the camera is working correctly and ensure you have a fully charged spare battery.
  - Samsung cannot be held responsible for camera malfunctions.

## Warning indicator

- There are several warnings that may appear on the LCD display

### Memory Error!

- Memory card error
  - Turn off the camera power and turn it on again
  - Insert the memory card again
  - Insert and format the memory card (p.54)

### Card Locked!

- The memory card is locked
  - SD memory card : Slide the write protect switch towards the top of the memory card

### No Card!

- A memory card is not inserted
  - Turn off the camera power and insert the memory card again
  - Turn off the camera power and turn it on again

### No Image!

- There are no images stored on the memory
  - Take images
  - Insert a memory card that is holding some images

### File Error!

- File error
  - Delete the erroneous files.
- Memory card error
  - Contact a camera service centre

### Low Battery!

- There is low battery capacity
  - Insert a fully charged battery

### Low Light!

- When taking pictures in dark places
  - Take pictures in Flash Photography mode.

### DCF Full Error

- Violation of DCF format
  - Copy the images to a PC and format the memory.

## Before contacting a service centre

- Please check the following

### The camera doesn't switch on

- There is low battery capacity
  - Insert a fully charged battery (p.11)
- Battery is inserted incorrectly with the polarities reversed.
  - Insert the battery according to the polarity marks (+, -)
- The rechargeable battery is not inserted
  - Insert the battery and turn on the camera

### The camera power ceases while in use

- The battery is exhausted
  - Insert a fully charged battery
- The Camera is turned off automatically
  - Turn on the camera power again.

## • Before contacting a service centre

### Battery power quickly drains

- 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

- There is insufficient memory capacity
  - Delete unnecessary image files
- The memory card has not been formatted
  - Format the memory card (p.54)
- The memory card is exhausted
  - Insert a new memory card
- The memory card is locked
  - Refer to [Card Locked!] error message
- The camera's power is off
  - Turn the camera power on
- The battery is exhausted
  - Insert charged battery (p.11)
- Battery is inserted incorrectly with the polarities reversed.
  - Insert the battery according to the polarity marks (+, -)

### The camera suddenly stops working while in use

- The camera stopped due to a malfunction
  - Remove /re-insert battery and switch the camera on

### The images are unclear

- A picture was taken the subject without setting an appropriate macro mode
  - Select an appropriate macro mode to take a clear image.
- Taking a picture beyond the flash range
  - Take a picture within the flash range
- The lens is smudged or dirty
  - Clean the lens

### The flash does not fire

- Flash off mode has been selected
  - Dis-engage flash off mode
- The camera mode can't use flash
  - Refer to the FLASH instruction (p.22)

### 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 battery 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

### The images don't play back

- Incorrect file name (Violation of DCF format)
  - Do not change the image file name

## • Before contacting a service centre

### Colour of image is different to the original scene

- White balance or effect setting is incorrect  
→ Select appropriate White balance and effect

### 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  
→ Check the connection cables
- There are incorrect files in the memory card  
→ 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  
→ Check the connection
- The camera is off  
→ Turn the camera on
- The operating system is not Windows 98, 98SE, 2000, ME, XP/ Mac OS Mac OS 9.0 ~ 10.4. Alternatively the PC does not support USB  
→ Install Windows 98, 98SE, 2000, ME, XP/ Mac OS 9.0 ~ 10.4 to PC that supports USB
- The camera driver is not installed  
→ Install a [USB Storage Driver]

## • Specifications

- Image Sensor
  - Type : 1/2.5" CCD
  - Effective Pixel : Approx. 7.2 Mega-pixel
  - Total Pixel : Approx. 7.4 Mega-pixel
- Lens
  - Focal Length : Focal length =6.2 ~ 18.6mm (35mm film equivalent: 37.5 ~ 112.5mm)
  - F No. : F2.7 ~ 5.2
  - Digital Zoom : · Still Image mode : 1.0X ~ 5.0X  
· Play mode : 1.0X ~ 10.0X (depends on image size)
- LCD Monitor : 2.5" color TFT LCD (230,000 pixel)
- Focusing
  - Type : TTL auto focus
  - Range

	Wide	Tele
Normal	50~ infinity	
Macro	15cm ~ 50cm (Wide)	40cm ~ 50cm (Tele.)
Auto Macro	15 ~ infinity (Wide)	40cm ~ infinity (Tele.)

- Shutter
  - Speed : - 1 ~ 1/2,000 sec. (Night: 16 ~ 1/2,000 sec.)
- Exposure
  - Control : Program AE
  - Metering : Multi, Spot
  - Compensation :  $\pm 2EV$  (0.5EV steps)
  - ISO Equivalent : Auto, 100, 200, 400, 800
- Flash
  - Modes : Auto, Auto & Red-eye reduction, Fill-in flash, Slow sync, Flash off
  - Range : Wide: 0.2m ~ 3m, Tele.: 0.4m ~ 2.2m (ISO AUTO)
  - Recharging Time : Approx. 3 sec.

## Specifications

- Sharpness : Soft, Normal, Vivid
- Effect : Normal, B&W, Sepia, Negative, Red, Green, Blue, RGB
- White Balance : Auto, Daylight, Cloudy, Fluorescent\_H, Fluorescent\_L, Tungsten, Custom
- Voice Recording : Voice Recording (Memory & Battery capacity dependent)  
Voice Memo in Still Image (max. 10 sec.)
- Date Imprinting : Off, Date, Date&Time (user selectable)
- Shooting
  - Still Image :
    - Modes : Auto, Program, Scene, ASR, Special Effect
    - Scene : Night, Portrait, Children, Landscape, Text, Close-up, Sunset, Dawn, Backlight, Fireworks, Beach & Snow
    - Continuous: Single, Continuous, Interval, AEB
    - Self-timer: 2 sec., 10 sec., Double (10 sec., 2 sec.)
  - Movie Clip :
    - With Audio or without Audio (user selectable, recording time : memory capacity dependent)
    - Size : 640x480, 320x240(3X Optical Zoom, Mute during Zoom Operation)
    - Frame rate : 30 fps, 15 fps
    - Movie Stabilizer (User Selectable)
    - Movie Editing (Embedded) : Pause during recording, Still Image Capture
- Storage
  - Media:
    - Internal memory: Approx. 22MB flash memory
    - External memory: SD card/MMC (Up to 1GM Guaranteed)
  - File Format :
    - Still Image : JPEG (DCF), EXIF 2.2, DPOF 1.1, PictBridge 1.0
    - Movie Clip : AVI (MPEG-4)    · Audio: WAV
  - Image Size

7M	5M	3M	1M	VGA
3072x2304	2592x1944	2048x1536	1024x768	640x480

- Capacity (256MB)

	7M	5M	3M	1M	VGA
Super Fine	68	93	151	572	1213
Fine	117	159	266	795	1381
Normal	203	272	425	943	1533

\* These figures are measured under Samsung's standard conditions and may vary depending on shooting conditions and camera settings.

- Image Play
  - Type : Single image, Thumbnails, Slide show, Movie Clip
  - Editing : Trimming, Resizing, Rotate, Effect
- Interface
  - Digital output connector : USB 2.0
  - Audio : Mono
  - Video output : NTSC, PAL (user selectable)
  - Pictbridge
- Power Source
  - Rechargeable battery: SLB-0837(B) (800mAh)
  - Battery Charger : SAC-45 (DC 4.2V, 450mA)
  - \* Included battery may vary depending on sales region.
- Dimensions (WxHxD) : 94x57x17.5 mm(excluding the projecting parts of the camera)
- Weight : Approx. 113g (without battery and card)
- Operating Temperature : 0 ~ 40 °C
- Operating Humidity : 5 ~ 85%
- Software
  - Camera Driver : Storage Driver  
(Windows98/98SE/2000/ME/XP, Mac OS 9.0~10.4)
  - Application : Digimax Master, Adobe Reader
- ※ Specifications are subject to change without prior notice.
- ※ All trademarks are the property of their respective owners.

## Software Notes

Please ensure that you read this instruction manual carefully before use.

- The attached software is a camera driver and image editing software tool for Windows.
- Under no circumstances should all or part of either the software or the user manual be reproduced.
- Copyrights for software are licensed only for use with a camera.
- In the unlikely event of a manufacturing fault, we will repair or exchange your camera.

We cannot, however, be held responsible in any way for damage caused by inappropriate use.

- Using a Hand-made (self assembled) PC or a PC and OS that has not been guaranteed by the manufacturer is not covered by the Samsung warranty.
- Before using this manual, you should have a basic knowledge of computers and O/S (Operating Systems).

## System Requirements

For Windows	For Macintosh
PC with processor better than Pentium II 450MHz (Pentium 700MHz recommended)	Power Mac G3 or later
Windows 98/98SE/2000/ME/XP	Mac OS 9.0~10.4
Minimum 64MB RAM	Minimum 64MB RAM
200MB of available hard-disk space	110MB of available hard-disk space
USB port	USB port
CD-ROM drive	CD-ROM drive
1024x768 pixels, 16-bit color display compatible monitor (24-bit color display recommended) Microsoft DirectX 9.0C	* Movie clip play condition : Above Mac OS 10.1 (need to install MPlayer or VLC)Quick time player or media player that supports AVI file format

## About the software

After inserting the CD-ROM provided with this camera into the CD-ROM drive, the following window should automatically run.



Before connecting the camera to the PC, you should first install the camera driver.

※ Screen Captures illustrated on this manual is based on English of Windows.

### ■ Camera driver : This enables images to transfer between the camera and PC.

This camera uses the USB Storage Driver as the camera driver. You can use the camera as a USB card reader. After installing the driver and connecting this camera to the PC, you can find [Removable Disk] in [Windows Explorer] or [My Computer]. A USB Storage Driver is provided only for Windows. A USB Driver for MAC is not included with the Application CD. You can use the camera with Mac OS 9.0~10.4

### ■ XviD codec : This makes movie clips (MPEG-4) recorded with this camera play back on a PC.

To play back a movie clip recorded with this camera, you must install the XviD codec. If a movie clip recorded with this camera does not play well, install this codec. This software is only compatible with Windows.

### ■ Digimax Master : This is the all-in-one multi media software solution.

You can download, view, edit and save your digital images and movie files with this software. This software is only compatible with Windows.

## About the software

### INFORMATION

- Be sure to check the system requirements before installing the driver.
- To play back the movie taken with this camera on the computer, DirectX 9.0 must be installed.
- You should allow 5 - 10 seconds for running the automatic setup program according to the capability of your computer. If the frame does not show, run the [Windows Explorer] and select [Samsung.exe] in the CD-ROM Drive.
- PDF documents of user manual are included in the Software CD-ROM supplied with this camera. Search the PDF files with Window's explorer. Before opening the PDF files, you must install the Adobe Reader included in the Software CD-ROM.
- To install the Adobe Reader 6.0.1 correctly, Internet Explorer 5.01 or later had to be installed. Visit "www.microsoft.com" and upgrade the Internet Explorer.

## Setting up the application software

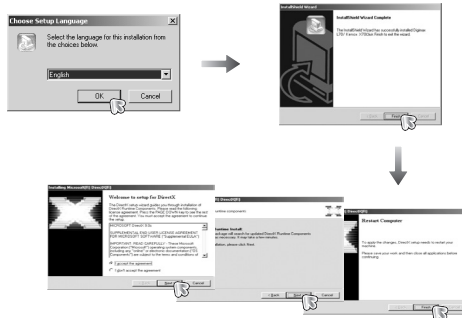
- To use this camera with a PC, install the application software first. After this has been done, the stored images in the camera can be moved to the PC and can be edited by an image editing program.
- You can visit the Samsung web-site through the internet.

<http://www.samsungcamera.com> : English  
<http://www.samsungcamera.co.kr> : Korean

1. The auto run frame will display.  
Click the [Install] menu in the Auto run frame.



2. Install the camera driver and DirectX by selecting a button shown on the monitor. If an latest version of DirectX was installed on your computer, DirectX may not be installed.



## • Setting up the application software

3. To play back the movie clip recorded with this camera on the computer, install the XviD codec.



4. Install the Digimax Master in order.



※ The XviD codec is distributed according to and under the terms and conditions of the GNU General Public License and anyone can copy, modify and distribute this codec freely, but WITHOUT ANY WARRANTY, IMPLIED OR EXPRESSED, OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE; provided, however, that you have to follow the GNU General Public License whenever you are distributing this codec or modification thereof. For more information see the GNU General Public License documents (<http://www.gnu.org/copyleft/gpl.html>).



## Setting up the application software

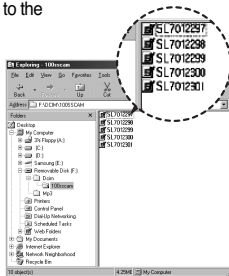
5. After restarting the computer, connect the PC to the camera with the USB cable.

6. Turn on the camera power.

The [Found New Hardware Wizard] will open and the computer will recognise the camera.

※ If your OS is Windows XP, an image viewer program will open.

If the download window of Digimax Master opens after starting Digimax Master, the camera driver was set up successfully.



### INFORMATION

- If you have installed the camera driver, The [Found New Hardware Wizard] may not open.
- On a Windows 98 or 98 SE system, the Found New Hardware Wizard dialog box opens and a window asking you to select a driver file may appear. In this case, specify "USB Driver" in the CD supplied.

## Starting PC mode

- If you connect the USB cable to a USB port on your PC and then turn on the power, the camera will automatically switch to "computer connection mode".
- In this mode, you can download stored images to your PC through the USB cable.
- The LCD monitor is always turned off in PC mode.

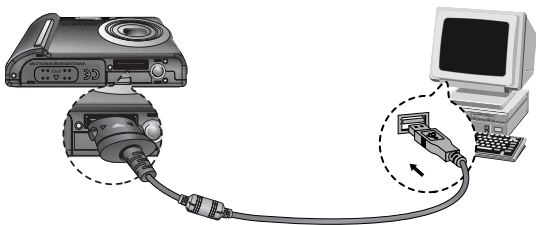
### ■ Connecting the camera to a PC

1. Press the Setup menu button and press the F4 menu button.
2. Select the [USB]-[Computer] menu by using the smart button.
3. Connect the PC to the camera with the USB cable.



## Starting PC mode

- Connecting the camera to a PC



※ If you selected [Printer] in the [USB] setup menu, when you connect the camera to your printer, the [Connecting Printer] message will display and the connection will not be established. In this case, disconnect the USB cable, and then select the [Computer] menu of the [USB]. And then connect the USB cable again.

- Disconnecting the camera and PC : Refer to page 67  
(Removing the removable disk).

### INFORMATION

- Before inserting any cables or AC adapter, check the directions and do not insert by force. It may cause breakage of cable or camera.

- Downloading stored images

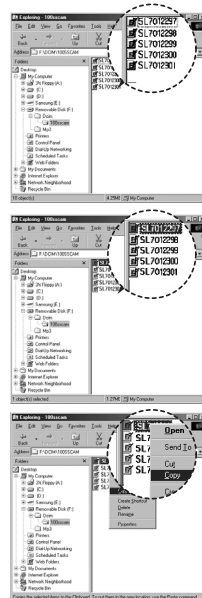
You can download the still images stored on the camera to your PC's hard disk and print them or use a photo editing software to edit them.

1. Connect the camera to your PC with the USB cable.
2. On your computer's desktop display, select [My computer] and double click [Removable Disk → DCIM → 100SSCAM].  
The image files will then be displayed.

3. Select an image and press the right mouse button.

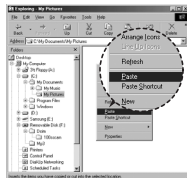
4. A pop-up menu will open.  
Click the [Cut] or [Copy] menu.
  - [Cut] : cuts a selected file.
  - [Copy] : copies files.

5. Click a folder where you want to paste the file.



## Starting PC mode

- Press the right mouse button and a pop-up menu will open. Click [Paste].



- An image file is transferred from the camera to your PC.



- By using [Digimax Master], you can see the stored images in the memory directly on the PC monitor and you can copy or move the image files.

## CAUTION

- We recommend that you should copy the images to the PC to view them. Opening images directly from the removable disk may be subject to unexpected disconnection.
- When you upload a file that is not taken by this camera to the Removable Disk, the [File Error!] message will be displayed on the LCD monitor in the PLAY mode, and nothing is displayed in THUMBNAIL mode.

## Removing the removable disk

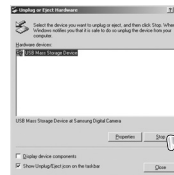
- Windows 98/98SE**
  - Check whether the camera and PC are transferring a file.  
If the camera status lamp blinks, please wait until the lamp has finished blinking and is constantly on.
  - Unplug the USB cable.
- Windows 2000/ME/XP**

(The illustrations may differ from those shown depending on the Windows O/S.)

  - Check whether the camera and PC are transferring a file.  
If the camera status lamp blinks, please wait until the lamp has finished blinking and is constantly on.
  - Double-click the [Unplug or Eject Hardware] icon on the task bar.
  - The [Unplug or Eject Hardware] window will open. Select the [USB Mass Storage Device] and click the [Stop] button.
  - The [Stop a Hardware device] window will open. Select the [USB Mass Storage Device] and click the [OK] button.
  - A [Safe to Remove Hardware] window will open. Click the [OK] button.



[Double-click!]



## ● Removing the removable disk

6. A [Unplug or Eject Hardware] window will open. Click the [Close] button and the removable disk will be removed safely.



7. Unplug the USB cable.

## ● Setting up the USB Driver for MAC

1. A USB Driver for MAC is not included with the software CD as MAC OS supports the camera driver.
2. Check the MAC OS version during start-up.  
This camera is compatible with MAC OS 9.0~10.4
3. Connect the camera to the Macintosh and turn the camera power on.
4. A new icon will be displayed on the desktop after connecting the camera to the MAC.

## ● Using the USB Driver for MAC

1. Double click a new icon on the desktop and the folder in the memory will be displayed.
2. Select an image file and copy or move it to MAC.

### CAUTION

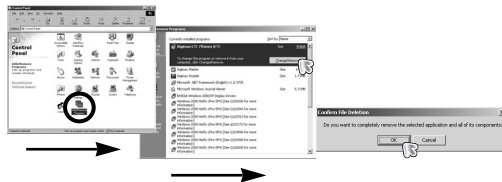
- For Mac OS 10.0 or later : First complete uploading from computer to camera and then remove the removable disk with the Extract command.
- If a movie clip can't play back on the Mac OS, please visit the following site (<http://www.divx.com/divx/mac/>) and download the codec. Or, use a media player that supports the Xvid codec (Mplayer, VLC (VideoLAN Client) media player).

## ● Removing the USB Driver for Windows 98SE

- To remove the USB driver, refer to the process shown below.
  1. Connect the camera to your PC and turn them on.
  2. Check whether the Removable Disk is on the [My Computer].
  3. Remove the [Samsung Digital Camera] on the Device manager.



4. Disconnect the USB cable.
5. Remove the [Digimax L70 / Kenox X70] on the Add / Remove Programs Properties.



6. Uninstallation is complete.

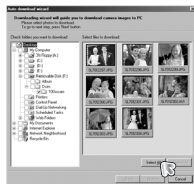


## • Digimax Master

- You can download, view, edit and save your images and movies with this software. This software is only compatible with Windows except for the Windows 98.
- To start the program, click [Start → Programs → Samsung → Digimax Master → Digimax Master].
- Downloading images
  1. Connect the camera to your PC.

2. A window for downloading images will display after connecting the camera to your PC.

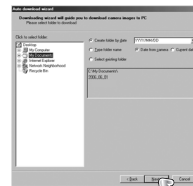
- To download the captured images, select the [Select All] button.
- Select desired folder in the window and click the [Select All] button. You can save captured images and selected folders.
- If you click the [Cancel] button, downloading will be cancelled.



3. Click [Next >] button.

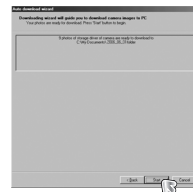


4. Select a destination and make a folder to save downloaded images and folders.
  - Folder names can be made in order of date and images will be downloaded.
  - Folder name will be made as you want and images will be downloaded.
  - After selecting a folder that was made before, images will be downloaded.



5. Click [Next >] button.

6. A window will open as shown alongside. The destination of the selected folder will be displayed on the upper side of the window. Click the [Start] button to download the images.

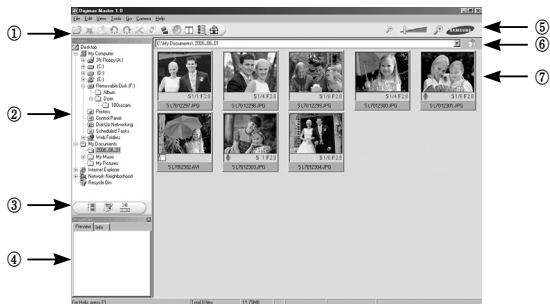


7. Downloaded images will be displayed.



# Digimax Master

- Image viewer : You can view the stored images.

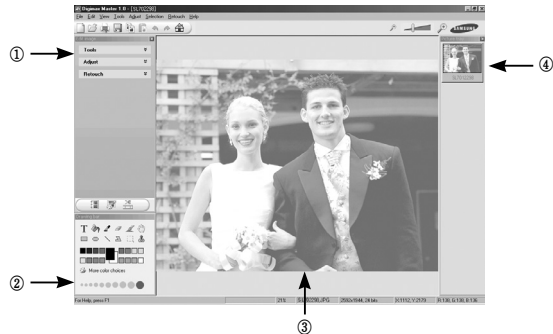


- Image viewer functions are listed below.

- ① Menu bar : You can select menus.  
File, Edit, View, Tools, Change functions, Auto download, help, etc.
- ② Image selection window : You can select the desired images in this window.
- ③ Media type selection menu : You can select image viewer, image edit and movie edit functions in this menu.
- ④ Preview window : You can preview an image or a movie clip and check the multi media information.
- ⑤ Zoom bar : You can change preview size.
- ⑥ Folder display window : You can see the folder location of the selected image.
- ⑦ Image display window : Images in the selected folder are displayed.

※ Refer to the [Help] menu in Digimax Master for further information.

- Image edit : You can edit the still image.



- Image edit functions are listed below.

- ① Edit menu : You can select the following menus.  
[Tools] : You can resize or crop the selected image. See the [Help] menu.  
[Adjust] : You can modify image quality. See the [Help] menu.  
[Retouch] : You can change image or insert effects on the image. See the [Help] menu.
- ② Drawing tools : Tools for editing an image.
- ③ Image display window : A selected image displays in this window.
- ④ Preview window : You can preview the changed image.

※ A still image edited with Digimax Master can't be played back on the camera.

※ Refer to the [Help] menu in Digimax Master for further information.

## • Digimax Master

- **Movie edit** : You can get the still image, movie clip, narration, music files together in a movie clip.



- Movie clip edit functions are listed below.

- ① **Edit menu** : You can select the following menus.
    - [Add Media] : You can add other media elements to a movie.
    - [Edit Clip] : You can change the brightness, contrast, colour and saturation.
    - [Effects] : You can insert an effect.
    - [Set Text] : You can insert texts.
    - [Narrate] : You can insert a narration.
    - [Produce] : You can save the edited multi media as a new file name.  
You can select AVI and Windows media (wmv), Windows media (asf) file types.
  - ② **Frame display window** : You can insert multi media in this window.
- ※ Some movie clips that were compressed with a codec that is not compatible with the Digimax Master can't play back in the Digimax Master.
- ※ Refer to the [Help] menu in Digimax Master for further information.

## • FAQ

- Please check the following if the USB connection malfunctions.

- Case 1**   USB cable is not connected or it is not the supplied USB cable.  
→ Connect the supplied USB cable.
- Case 2**   The camera is not recognised by your PC.  
Sometimes, the camera may appear under [Unknown Devices] in Device Manager.  
→ Install the camera driver correctly.  
Turn off the camera, remove the USB cable, plug in the USB cable again, and then turn on the camera.
- Case 3**   There is an unexpected error during file transfer.  
→ Turn the camera power off and on again. Transfer the file again.
- Case 4**   When using the USB hub.  
→ There may be a problem in connecting the camera to the PC through the USB hub if the PC and the hub are not compatible. Wherever possible, connect the camera to the PC directly.
- Case 5**   Are other USB cables connected to the PC?  
→ The camera may malfunction when it is connected to the PC at the same time as another USB cable. In this case, disconnect the other USB cable, and connect only one USB cable to the camera.

## FAQ

- Case 6** When I open the Device Manager (by clicking Start → (Settings) → Control Panel → (Performance and Maintenance) → System → (Hardware) → Device Manager), there are Unknown Devices or Other Devices entries with a yellow question mark (?) beside them or devices with an exclamation mark (!) beside them.
- Right-click on the entry with the question (?) or exclamation (!) mark and select "Remove". Restart the PC and connect the camera again. For Windows 98 PC, remove the camera driver also, restart the PC, and then reinstall the camera driver.

- Case 7** In some security programs (Norton Anti Virus, V3, etc.), the computer may not recognise the camera as a removable disk.
- Stop the security programs and connect the camera to the computer. Refer to the security program instructions about how to temporarily disable the program.

- Case 8** The camera is connected to the USB port located on the front of the computer.
- When the camera is connected to the USB port located on the front of the computer, the computer may not recognise the camera. Connect the camera to the USB port located on the back of the computer.

- When the movie clip doesn't play back on the PC
- ※ When the movie clip recorded by the camera doesn't play back on the PC, the causes are mostly due to the codec installed on the PC.

- When codec for play back the movie clip isn't installed  
→ Install the codec as listed below.

[ Installing codec for Windows ]

- 1) Insert the CD provided with the camera.
- 2) Run the Windows Explorer and select [CD-ROM drive:X:\Vid] folder and click the XviD-1.1.0-30122005.exe file.
  - ※ The XviD codec is distributed according to the GNU General Public License and everyone can copy, distribute and change this codec. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License.  
For more information, see the License documents (<http://www.gnu.org/copyleft/gpl.html>).

- When the DirectX 9.0 or later is not installed  
→ Install the DirectX 9.0 or later
  - 1) Insert the CD provided with the camera
  - 2) Run the windows explorer and select the [CD-ROM drive:\ USB Driver\ DirectX 9.0] folder and click the DXSETUP.exe file.  
The DirectX will be installed. Visit the following site for downloading the DirectX. <http://www.microsoft.com/directx>



## FAQ

- If a PC (Windows 98) stops responding while the camera and PC are connected repeatedly
  - If a PC (Windows 98) is turned on for a long time and the camera is connected repeatedly, the PC may not recognise the camera. In this case, re-start the PC.
- If a PC connected with the camera stops responding while Windows is starting.
  - In this case, disconnect the PC and the camera and Windows will start.
  - If the problem happens continuously, set the Legacy USB Support to disable and re-start the PC. The Legacy USB Support is in the BIOS setup menu. (The BIOS setup menu differs from the PC manufacturers and some BIOS menus don't have Legacy USB Support) If you can't change the menu by yourself, contact to the PC manufacturer or BIOS manufacturer.
- If the movie clip can't be deleted, or if a removable disk can't be extracted or if an error message displays during the file transfer.
  - If you install only the Digimax Master, the problems mentioned above occasionally happen.
    - Close the Digimax Master program by clicking the Digimax Master icon on the Taskbar.
    - Install all the application programs included in the software CD.



Samsung Techwin cares for the environment at all product manufacturing stages to preserve the environment, and is taking a number of steps to provide customers with more environment-friendly products. The Eco mark represents Samsung Techwin's will to create environment-friendly products, and indicates that the product satisfies the EU RoHS Directive.

## FCC notice

### ■ NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not in-stalled and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

### ■ CAUTION :

Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

### ■ Declaration of Conformity

Trade Name : SAMSUNG TECHWIN  
Model No. : Samsung L70  
Responsible Party : Samsung Opto-Electronics America, INC.  
Address : 40 Seaview Dr. Secaucus, NJ 07094  
Telephone No. : 201-902-0347

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

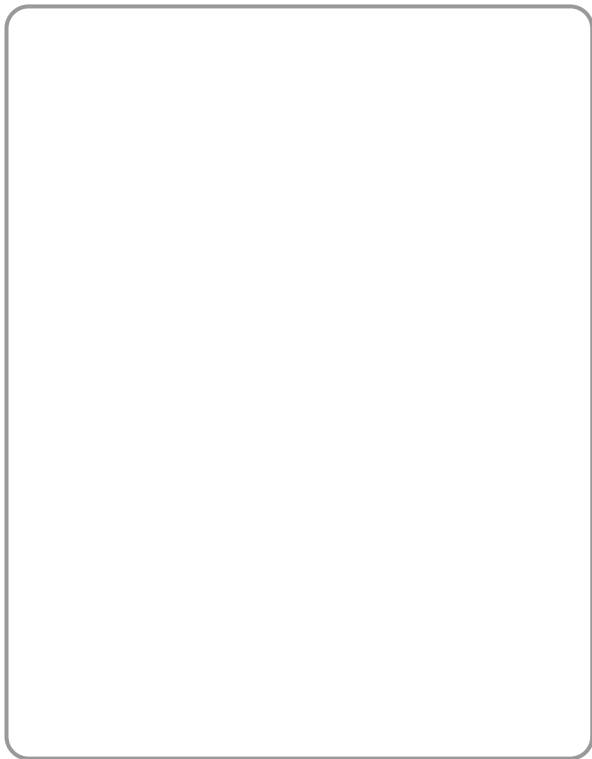
• MEMO

A large, empty, rounded rectangular box with a thin gray border, intended for writing a memo.

• MEMO

A large, empty, rounded rectangular box with a thin gray border, intended for writing a memo.

• **MEMO**



• **MEMO**



• MEMO

A large, empty, rounded rectangular box with a thin gray border, intended for writing a memo.

• MEMO

A large, empty, rounded rectangular box with a thin gray border, intended for writing a memo.

• **MEMO**

A large, empty, rounded rectangular box with a thin gray border, intended for writing notes.

• **MEMO**

A large, empty, rounded rectangular box with a thin gray border, identical to the one on the left, intended for writing notes.



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