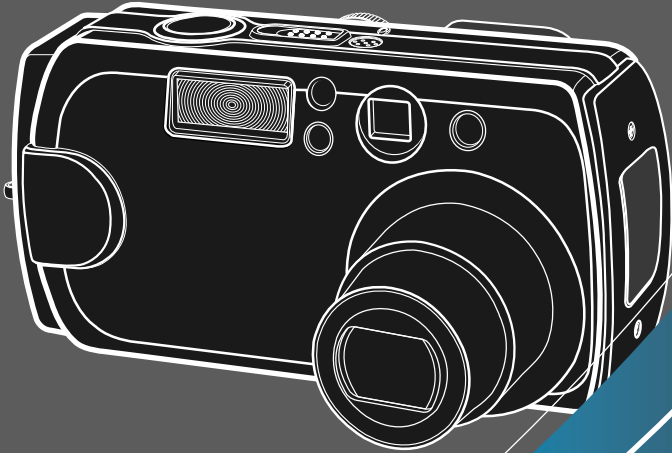# SAMSUNG

SAMSUNG DIGIT*all*
everyone's invited™

ENGLISH
• **Digimax V6000**

SAMSUNG CAMERA

User's Manual
Digimax V6

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.
※ Figures (Images) used for the manual are based on model Digimax V6.

Instructions

■ Use this camera in the following order

Set up the camera driver

Before connecting the camera to a PC, via the USB cable, you will need to set up the camera driver. Install the camera driver that is contained in the Application S/W CD-ROM.(p.99)

Take a picture

Take a picture (p.21)

Insert the USB cable

Insert the supplied USB cable into the PC's USB port and the camera's USB connection terminal.(p.105)

Check the camera's power

Check the camera's power
If the power is turned off, slide the camera switch to power it on.

Check [Removable Disk]

Open Window's EXPLORER and search for [Removable Disk].(p.106)

● 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.

Contents

Contents

Getting to know your camera

Thank you for buying a Samsung Digital Camera.

● Prior to using this camera, please read the user manual thoroughly.

● When you require After Sales service, please bring the camera and the cause of the camera malfunction (such as Batteries, Memory card etc.) to the A/S center.

● Please check that the camera is operating properly prior to when you intend to use it (e.g. for a trip or an important event) to avoid disappointment. Samsung camera takes no responsibility for any loss or damages that may result from camera malfunction.

● Keep the manual in a safe place.

∗ Microsoft, Windows and Windows logo are registered trademarks of Microsoft Corporation incorporated in the United States and/or other countries.

∗ All brand and product names appearing in this manual are registered trademarks of their respective companies.

About the icons

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

DANGER

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

WARNING

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

CAUTION

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

Danger

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

DANGER

Warning

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

WARNING

Caution

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

CAUTION

An FCC warning

  • This device has been tested in accordance with the limits of a class B digital device
    under item 15 of the FCC rules. These limits are designed to provide protection
    against harmful interference in commercial installation. This equipment generates,
    absorbs and can emit radio frequency energy. If it is not installed and used in
    accordance with the instructions, it may cause harmful interference to radio
    communication.
    There is however, no guarantee that interference will not occur in some situations.
    Should any interference occur when this device is in operation, please try one or
    more of the following measures.

    ■ Change the location and direction of any aerial.
    ■ Increase distance between the camera and the affected device.
    ■ Use a different socket away from the affected device.
    ■ Please contact a Samsung agent or a radio/TV engineer.

  • This device complies with part 15 of the FCC Rules.
  • Changes or modifications not expressly approved by the party responsible for
    compliance could void user's authority to operate the equipment.

This digital camera can be used for
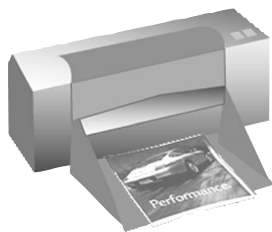
Printing images using a dedicated printer, DPOF and PictBridge compatible printer or a DPOF-equipped photo lab.
(refer to page 70~77)

Viewing images on a TV.
(refer to page 84)

Down loading image files from camera to computer.
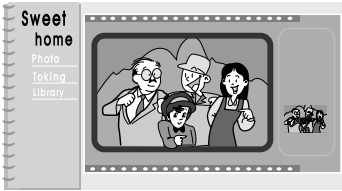(refer to page 106)

Taking a picture.
(refer to page 21)

Editing images on a PC.
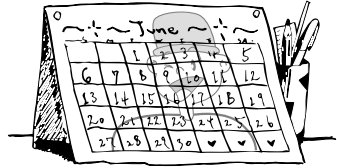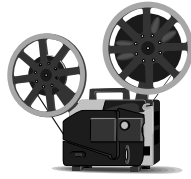(refer to page 113)

This digital camera can be used for

Creation of a digital photo album.

Taking a favourite image and creating your own personalized calendar with it.

Recording your voice.
(refer to page 23)

Recording a movie clip.
(refer to page 24)

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

Inserting images directly into any electronic document.

Manufacturer's contents

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

Digital Camera   Pouch   AV cable   USB cable

Camera strap   User manual   Product warranty   Software CD

SD memory card   CR-V3 battery   AC adapter
(SAC-51, DC 5V)   Remote control

Digimax Battery I-Pack : SBP-1303 KIT   Battery   Rechargeable
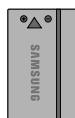charger(SBC-L2)   battery   AC cord
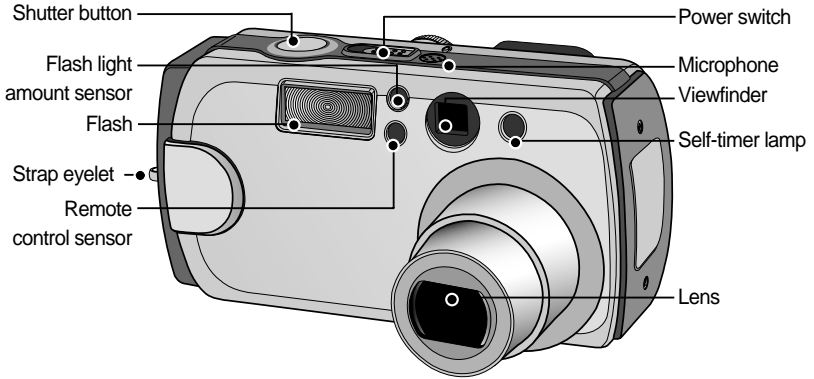
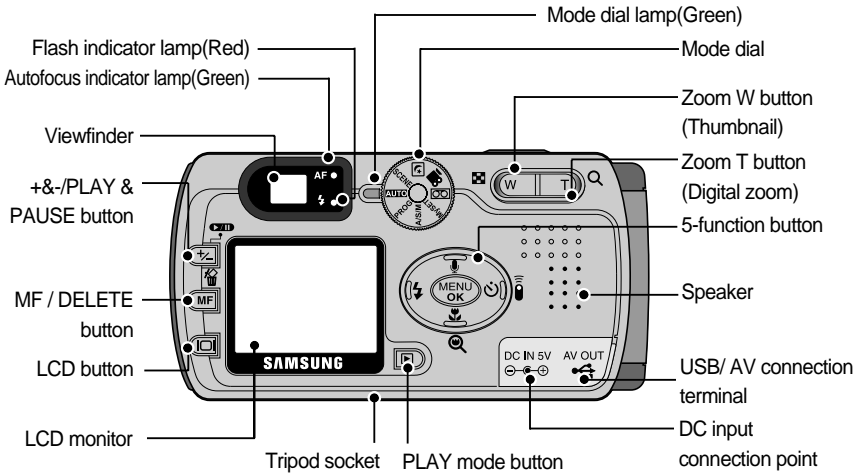Battery   Rechargeable
charger   battery   AC cord

Identification of features

Front & Top

Shutter button

Flash light amount sensor

Flash

Strap eyelet

Remote control sensor

Power switch

Microphone

Viewfinder

Self-timer lamp

Lens

Back & Bottom

Mode dial lamp(Green)

Mode dial

Flash indicator lamp(Red)

Autofocus indicator lamp(Green)

Viewfinder

Zoom W button (Thumbnail)

Zoom T button (Digital zoom)

5-function button

+&-/PLAY & PAUSE button

MF / DELETE button

LCD button

LCD monitor

Speaker

USB/ AV connection terminal
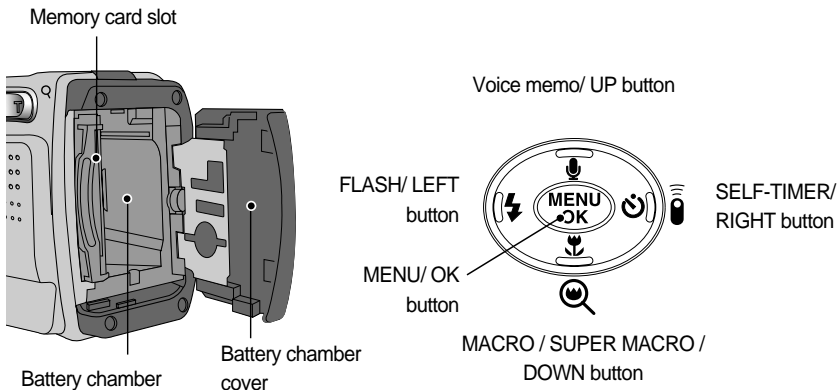
DC input connection point

Tripod socket   PLAY mode button

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

Identification of features

Side/ 5-function button

Memory card slot

Voice memo/ UP button

FLASH/ LEFT
button

MENU
OK

SELF-TIMER/
RIGHT button

MENU/ OK
button

MACRO / SUPER MACRO /
DOWN button
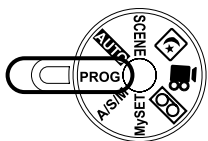
Battery chamber

Battery chamber
cover

Mode dial

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

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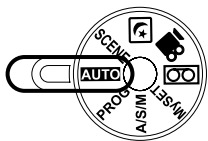
Please select this mode for quick and easy picture taking
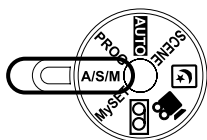with minimal user interaction.

● PROGRAM mode

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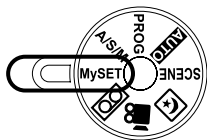functions except the iris and shutter speed.
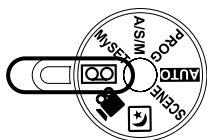
Identification of features

● A/S/M mode

Aperture priority / Shutter priority / Manual mode
The Aperture and Shutter can be set manually in the A/ S/ M mode.
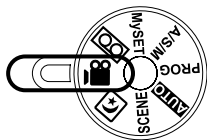
● MySET mode

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

● VOICE RECORDING mode

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

● MOVIE CLIP mode

A movie clip can be recorded for as long as the available recording time of the memory capacity allows.
- Image size   : 640X480, 320X240(user selectable)
- Movie clip file type   : *.avi

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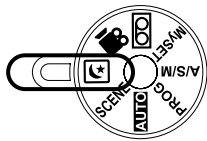
This mode is used at night or against a dark background.

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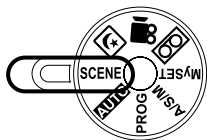
Use the menu to easily configure optimal settings for a variety of shooting situations including portrait, children, landscape, close-up, sunset, dawn, backlight, fireworks, beach scenes and snowscape.

Identification of features

■ Self-timer lamp (Based on 10-second Self-timer; see p. 35)

Color	Status	Camera Status
Red	Blinking	- For the first 7 seconds, the LED blinks at 1second intervals. - For the final 3 seconds, the LED blinks quickly at 0.25-second intervals.

■ Auto focus indicator lamp

Color	Status	Camera Status
Green	Blinking	Recording Mode (lightly press the shutter button): Not focused PC Mode: Transmitting Data
	On	Recording Mode (lightly press the shutter button): Focused

■ Flash indicator lamp

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

■ Mode dial lamp

Color	Status	Camera Status
Green	ON	Turned off the LCD with the LCD button. PC Mode: When the USB cable is inserted.

■ Mode icons

MODE	AUTO	PROGRAM	A/S/M	MySET	VOICE RECORDING	MOVIE CLIP	NIGHT SCENE	SCENE	PLAY
Icon	🅞	🅟	A/S/M	My	🔲	🎬	🌙	SCENE	▶

MODE	SCENE								
	PORTRAIT	CHILDREN	LANDSCAPE	CLOSE-UP	SUNSET	DAWN	BACKLIGHT	FIREWORKS	BEACH&SNOW
Icon	🧍	👤	🏔	🌷	🌅	🌄	🌇	🎆	🏖

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Connecting to a Power Source

■ There are two ways in which to provide the camera with power. You can use batteries or alternatively, you can use an AC(100 ~ 250V) Adapter (DC 5V 2.0A).

■ We recommend using batteries for a digital camera (Within a year from the date of manufacture). The batteries are listed below.

Non rechargeable batteries : AA type   - Alkaline, Ni-Mn, Ni-Zn, Lithium

                              CR-V3 type   - Lithium

Rechargeable batteries   : AA type   - Ni-MH, Ni-Cd (over 1000mAh)

                              CR-V3 type   - SBP-1303

Manufacturer's rechargeable battery: SLB-1437

INFORMATION

Important information about battery usage

● It is easy to buy alkaline batteries. However, the duration for using batteries varies in accordance with the battery manufacturer or the photographic conditions.

● When the camera is not used, turn off the camera power.

● Do not recharge the non rechargeable batteries. It may cause an explosion.

● Please remove the batteries if the camera will not be used for long periods. Batteries can lose power over time and are prone to leaking if kept inside the camera.

● We recommend high capacity ALKALINE batteries as manganese batteries cannot deliver sufficient power.

● Low temperatures (below 0 ℃) can affect the performance of the batteries and you may experience reduced battery life.

● Batteries will usually recover at normal temperatures.

● Do not use old and new batteries at the same time.

● During extended use of the camera, the camera body may become warm. This is perfectly normal.

Using the AC power adapter (5V 2.0A)
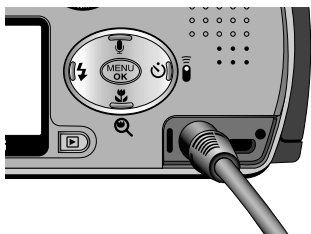
If you have access to a mains supply, using an AC Adapter (5V 2.0A) allows the camera to be used for long periods of time.

Plug the adapter into the connection point (DC IN 5V) on the camera.

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

Connecting to a Power Source

Using the batteries : If the camera does not turn on after you have inserted batteries, please check whether the batteries are inserted with the correct polarity(+/-).

1. Open the battery chamber cover by pushing in the direction of the arrow.
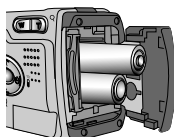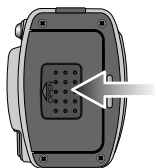
[Inserting the AA type battery]

[Inserting the CR-V3 type battery]

2. Insert the batteries taking note of the polarity (+ / -).

3. To close the battery chamber cover, push it until it clicks.
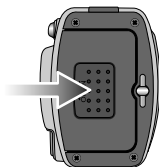
■ There are 3 indicators for battery condition that are displayed on the LCD monitor.

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

Instructions on how to use the memory card

● Be sure to format the memory card (see p. 81) if you are using a newly purchased memory for the first time, if it contains data that the camera cannot recognize, or if it contains images captured with a different camera.
● Turn off the camera power whenever the memory card is being inserted or removed.
● Repeated use of the memory card will eventually reduce the memory card's performance. Should this be the case, you will need to purchase a new memory card. Wear and tear on the memory card is not covered by the Samsung warranty.
● The memory card is an electronic precision device. Do not bend, drop or subject the memory card to any heavy impact.
● Do not store the memory card in an environment with strong electronic or magnetic fields, e.g. near loud speakers or TV receivers.
● Please do not use or store in an environment where there are extremes in temperature.
● Do not allow the memory card to become dirty or to come into contact with any liquid. Should this happen, clean the memory card with a soft cloth.
● Please keep the memory card in its case when not in use.
● During and after periods of extended use, you may notice that the memory card is warm. This is perfectly normal.
● Do not use a memory card that is used in another digital camera or memory card reader.
● Do not use a memory card formatted by another digital camera or memory card reader.

Preserving the memory card data

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

Instructions on how to use the memory card

INFORMATION

● If you open the battery chamber cover when the camera power is turned on, the power will turn off automatically.

● Don't remove the memory card when the Auto focus lamp(Green) is blinking as this may cause damage to data in the memory card.

■ The camera can use SD Memory Cards and MMC (Multi Media Card).

Card pins

Write protect switch

Label
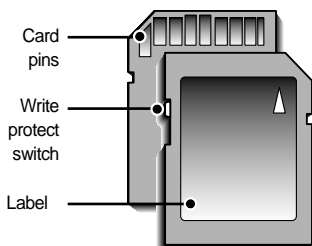
[SD(Secure Digital) memory card]

The SD memory card has a write protect switch that prevents image files from being deleted or formatted.
By sliding the switch to the bottom of the SD memory card, the data will be protected. By sliding the switch to the top of the SD memory card, the data protection will be canceled. Slide the switch to the top of the SD memory card before taking a picture.

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

Mode	STILL IMAGE mode							MOVIE CLIP mode	
Quality/Size	2816	2560	2272	2048	1600	1024	640	640x480	320x240
TIFF	1	2	2	3	5	12	27	-	-
Super fine	9	11	14	17	28	64	129	-	-
Fine	18	22	28	33	53	106	201	-	-
Normal	26	32	40	49	75	139	227	-	-
30FPS	-	-	-	-	-	-	-	29SEC	107SEC
15FPS	-	-	-	-	-	-	-	45SEC	154SEC

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Inserting the memory card

1. Slide the power switch to turn the power off. Open the battery chamber cover while pushing it in the direction of the arrow.
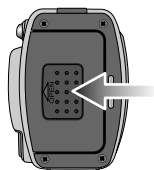
2. Have the front of the memory card facing toward the front of the camera (lens) and the card pins toward the back of the camera (LCD monitor), and then push the memory card into the card slot until you hear a click.
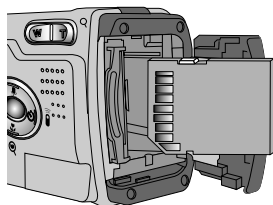
3. To close, push the battery chamber cover until you hear a click. If the memory card does not slide in smoothly, do not attempt to insert it by force. Check the direction of insertion, and then insert it correctly.
Do not insert the memory card the wrong way round. Doing so may damage the memory card slot.
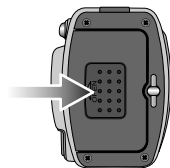
Removing the memory card

1. Slide the power switch to turn the power off.
Open the battery chamber cover and press the memory card as shown in the image and release.

2. Remove the memory card and close the battery chamber cover.
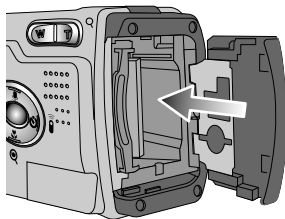
LCD monitor indicator
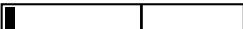
■ The LCD monitor displays information about the shooting functions and selections.
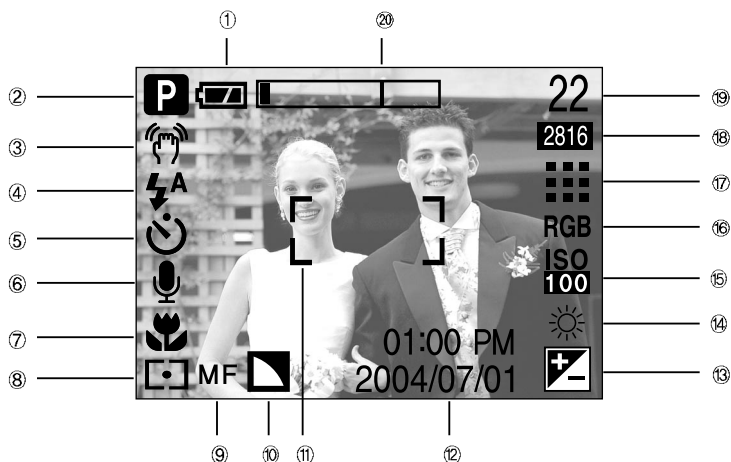
[Image & Full Status]

No.	Description	Icons	Page
1	Battery		p.16
2	Recording mode	P A S M My SCENE	p.12~13
3	Camera shake warning		p.26
4	Flash	A S	p.33
5	Self-timer	2S	p.35
6	Voice memo		p.29
7	Macro		p.30
8	Metering		p.50
9	Manual focus	MF	p.38
10	Sharpness		p.52
11	Auto focus frame	⌐ ¬	
12	Date/ Time	2004/07/01 01:00 PM	p.82
13	Exposure compensation		p.41

LCD monitor indicator

14	White Balance	AWB ☼ ☁ 🏢 🏢 ☀ 🔳	p.42
15	ISO	ISO AUTO ISO 50 ISO 100 ISO 200 ISO 400	p.42
16	RGB	**RGB**	p.41
17	Image quality	TIFF ▦ ⋮⋮ ⋰	p.49
18	Image size/ Continuous shot	2816, 2560, 2272, 2048, 1600, 1024, 640/ ▭	p.48
19	Number of available shots remaining	22	
	Remaining time (Movie clip/ Voice recording)	00:01:30/ 01:00:00	
20	Optical/ Digital Zoom rate	▮▭▭▭▭▭▭	

Starting the recording mode

■ How to use the AUTO mode (**AUTO**)

1. Insert the batteries.(p.16) Insert the batteries taking note of the polarity (+ / -).
2. Insert the memory card (p.19).
3. Close the battery chamber cover.
4. Slide the power switch to turn on the camera.
   (If the date/time that is displayed on the LCD monitor is incorrect, reset the date/time before taking a picture.)
5. Select the AUTO mode by rotating the mode dial.
6. Point the camera towards the subject and compose the image by using either the viewfinder or LCD monitor.
7. Press the shutter button to capture an image.
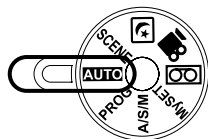
[AUTO mode]

INFORMATION

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

Starting the recording mode

■ How to use the PROGRAM mode (**PROG**)
Selecting the automatic mode will configure the camera with optimal settings. You can still manually configure all functions except the iris and shutter speed.
Steps from 1-4 are the same as those for AUTO mode.
5. Select the PROGRAM mode by rotating the mode dial.
6. Press the menu button to configure advanced functions such as image size (p.48), quality (p.49), metering (p.50), number of pictures in continuous shooting (p.50), picture effects (p.51), sharpness (p.52).
7. Point the camera towards the subject and compose the image by using either the viewfinder or LCD monitor.
8. Press the shutter button to capture an image.

[PROGRAM mode]

■ How to use the A/S/M mode (**A/S/M**)
In this mode you can select the shutter speed or aperture value to your preference. Steps from 1-4 are the same as those for AUTO mode.
5. Select the A/S/M mode by rotating the mode dial.
6. Press the menu button and select the [ASM] menu tab.
7. Use the Up/Down buttons to select A (Aperture priority), S (shutter priority), or M (Manual mode).
Press the OK button to confirm.
* Please see page 40 for details on Aperture and Shutter speed setting
8. Point the camera towards the subject and compose the image by using either the viewfinder or LCD monitor.
9. Press the shutter button to capture an image.
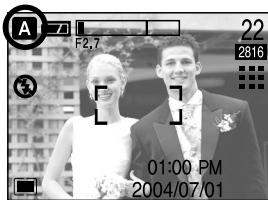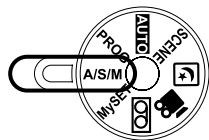
[A/S/M mode]

Starting the recording mode

■ How to use the MySET mode (**MySET**)

This mode allows users to save frequently used shooting settings for later use. Steps from 1-4 are the same as those for AUTO mode.

5. Select the MySET mode by rotating the mode dial.
6. You can use the menus that appear when you press camera and menu buttons to change the desired camera functions.
   The last changed function(s) will automatically be saved as MySET mode.
7. If you rotate the Mode Dial to MySET mode while in another camera operation mode, the camera settings will switch to the settings you changed in Step 6.
8. Point the camera towards the subject and compose the image by using either the viewfinder or LCD monitor.
9. Press the shutter button to capture an image.

* Voice memo, self-timer, and remote controller configurations cannot be saved.
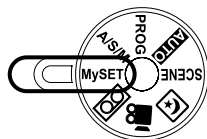
[MySET mode]

■ How to use the VOICE RECORDING mode (🔾🔾)

Steps from 1-4 are the same as those for AUTO mode.
5. Select the VOICE RECORDING mode by rotating the mode dial.
6. Press the shutter button to record a voice.
  - Press the shutter button once and voice is recorded for as long as the available recording time(Max : 1 hour) allows. The recording time will be displayed on the LCD monitor. Voice will still be recorded if the shutter button is released.
  - If you wish to stop recording, press the shutter button again.
  - File type : *.wav
* A distance of 40cm between you and the camera (microphone) is the best distance to record sound.
* The auto focus indicator lamp(Green) blinks during voice recording.

01:00:00

STANDBY

START:SHUTTER
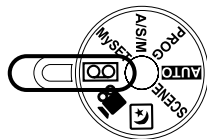
[VOICE RECORDING mode]

Starting the recording mode

■ How to use the MOVIE CLIP mode (🎥)

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

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

   Movie clips will still be recorded if the shutter button is released. The auto focus lamp(green) will blink during the movie clip recording.
8. If you wish to stop recording, press the shutter button again.

 * Image size and type are listed below.
   - Image size : 640x480, 320 x 240(Selectable)
   - File type : *.avi
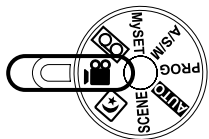
[MOVIE CLIP mode]

■ NIGHT SCENE mode (🌙)

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

Please see page 44 for a detailed description for Long Time shutter.

[NIGHT SCENE mode]

《24》
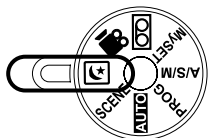
Starting the recording mode

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

Use the menu to easily configure optimal settings for a variety of shooting situations including portrait, children, landscape, close-up, sunset, dawn, backlight, fireworks, beach scenes and snowscape.
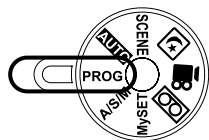
Steps from 1-4 are the same as those for AUTO mode.

5. Select the SCENE mode by rotating the mode dial.
6. Press the menu button and use the Left/Right buttons to select the [SCENE] menu tab.
7. Use the Up/Down buttons to select the desired submenu in Scene mode. Press the OK button to confirm.

   Please see page 53 for detailed descriptions for each screen.
8. The current scene icon is displayed at the top left of the LCD.
9. Point the camera towards the subject and compose the image by using either the viewfinder or LCD monitor.
10. Press the shutter button to capture an image.
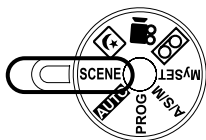
[SCENE mode]

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. (See page 14)
Press the shutter button all way down to take the picture.
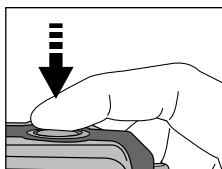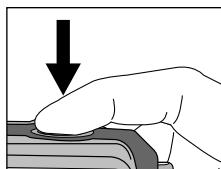
[Lightly press the shutter button]   [Press the shutter button]

■ The available recording time may vary depending on shooting conditions and camera settings.

■ When the Flash Off or Slow synchro mode is selected in a low lighting condition, the camera shake warning indicator ( ) may appear on the LCD monitor. In this case, use a tripod, support the camera on a solid surface or change the flash mode to flash shot mode.

■ Backlight compensated shots: When taking an outdoor shot, avoid facing the sun, as the image may be dark because of the strong backlight. To take a picture against the sun, please use the [BACKLIGHT] in the scene shooting mode (see page 53), Fill-in flash (see page 33), Spot metering (see page 50), or Exposure compensation (see page 43).

■ Avoid obstructing the lens or the flash when you capture an image.

■ As there can be some differences between what is seen through the Viewfinder and the resulting image when taken at a range closer than 1.5m, it is recommended that you use the LCD monitor to compose these shots.

■ Using the LCD monitor extensively will drain the batteries.
We recommend turning off the LCD monitor and using the optical viewfinder as often as possible in order to extend battery life.

■ Under certain conditions the auto focus system may not perform as expected.
 - When photographing a subject that has little contrast.
 - If the subject is highly reflective or shiny.
 - If the subject is moving at high speed.
 - When there is strong reflected light, or when the background is very bright.
 - When the subject matter has only horizontal lines or the subject is very narrow (such as a stick or flagpole).
 - When the surroundings are dark

Using the camera buttons to adjust the camera

■ The RECORDING(AUTO, PROGRAM, A/S/M, MySET, VOICE RECORDING, MOVIE CLIP, NIGHT SCENE , SCENE) mode function can be set up by using the camera buttons.

POWER switch

● Used for turning the camera's power on / off.
Slide the power switch to turn the power on
● If there is no operation during the specified time, the camera's power will be turned off automatically to save battery life. Slide the power switch and hold it for 3 seconds to turn the power on without the 'start' sound.
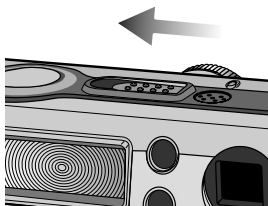
SHUTTER button

● Used for taking an image or recording voice in the RECORDING mode.
● In MOVIE CLIP mode : Pressing the shutter button down fully starts the process for recording a movie clip. Press the shutter button once and the movie clip is recorded for as long as the available recording time in the memory allows. If you wish to stop recording, press the shutter button again.
● In STILL IMAGE mode
Pressing the shutter button down halfway activates the auto focus and checks the condition of the flash.
Pressing the shutter down fully takes the image and stores the relevant data regarding the shot. If you select voice memo recording, the recording will start after the camera has finished storing the image data.
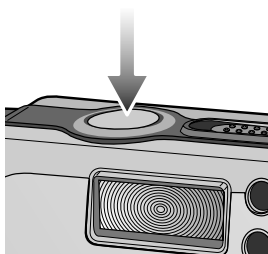
ZOOM W/T button

● Press the W/T buttons to browse between menu tabs in 5 steps while using a menu screen in the Program, A/S/M, or MySET shooting modes.
● If the menu is not displayed, this button works as the OPTICAL ZOOM or DIGITAL ZOOM button.
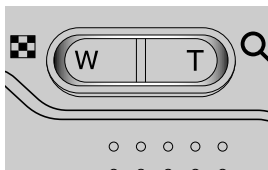
ZOOM W/T button

● This camera has a 3X optical zoom and a 4X digital zoom function. Using both will offer a total zoom ratio of 12X.

● 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 (4X) 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 2.0X]
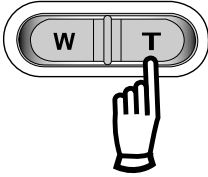
● WIDE Zoom

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

[TELE zoom]   Pressing the ZOOM W button →   [Optical zoom 2X]   Pressing the ZOOM W button →   [WIDE zoom]
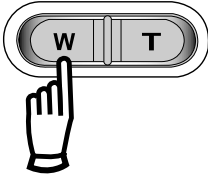
Digital zoom WIDE : When the digital zoom is in operation, pressing the ZOOM W button will reduce the digital zooming in steps. Releasing ZOOM W button stops digital zooming. Pressing the ZOOM W button will reduce the digital zoom and then it will continue to reduce the optical zoom until the minimum setting is reached.

Optical zoom

Digital zoom

[Digital zoom 4.0X]   Pressing the ZOOM W button →   [Digital zoom 2.0X]   Pressing the ZOOM W button →   [TELE zoom]

《28》
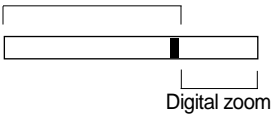
ZOOM W/T button

INFORMATION

● To use the digital zoom the LCD monitor has to be turned on.
● Images taken using the digital zoom may take a little longer for the camera to process. Allow time for this to take place.
● Digital Zoom will not work in Night Scene mode.
● You may notice a decrease in image quality when using the digital zoom.
● You can record with digital zoom in MOVIE CLIP mode; you can use the digital zoom while recording movie clips.
● Do not use the zoom button while recording video, to avoid accidentally recording the clicking sound. Please adjust the zoom before starting to record.
● Take care not to touch the lens to avoid taking an unclear image and possibly causing camera malfunction.
  If the image is dim, turn the camera power off and on again to modify the lens position.
● Take care not to press the lens as this may cause a camera malfunction.
● When the camera is turned on, take care not to touch the camera's moving lens parts as this may cause the resulting image to be dim and unclear.
● Take care not to touch the lens during zoom operation as this may cause damage.

Voice memo(🎤)/ UP button

■ While the menu is showing, press the UP button to move up the submenu cursor.
■ When the menu is not displayed on the LCD monitor, the UP button operates as the voice memo button. You can add your voice-over to a stored still image.
● Recording a voice memo
  1. Rotate the MODE DIAL to select a RECORDING mode with the exception of MOVIE CLIP and VOICE RECORDING modes.
  2. Press the VOICE MEMO(🎤) button. If the voice memo indicator is displayed on the LCD monitor, the setting is completed.

[Preparing for Voice Memo]   [Recording Voice Memo]

Voice memo( )/ UP button

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

INFORMATION

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

MACRO ( ) / SUPER MACRO ( ) button

■ When the menu is displayed on the LCD monitor, pressing the DOWN button makes the menu cursor move down or changes the sub menu value.
■ When the menu is not displayed on the LCD monitor, the button operates as the MACRO ( ) / SUPER MACRO ( ) button. The photography range is 0.06m ~ 0.8m.

● Selecting the MACRO/ SUPER MACRO
   1. Rotate the mode dial to the RECORDING (except SCENE, NIGHT SCENE, VOICE RECORDING) mode.
   2. Press the MACRO button. The macro indicator will be displayed on the LCD monitor. Press the MACRO button until the desired MACRO mode indicator displays on the LCD monitor.

[Selecting the macro mode]   [Selecting the super macro mode]

3. Take a picture with the desired macro mode.

MACRO (🌷) / SUPER MACRO (◉) button

● Types of focus modes and focus ranges (W: WIDE, T: TELE)

Unit : m

Types of focus modes	Normal	Macro		Super Macro	
Range	0.8 ~ ∞	W:0.3~0.8	T:0.3~0.8	W:0.06~0.3	T: X

INFORMATION

● When the macro or super macro mode is selected, It is possible that camera shake will occur. If this is the case, use a tripod to eliminate this.
● When super macro is selected, the flash mode is changed to Flash off automatically.
● The super macro can be activated only in the wide zoom mode.
● You cannot use the zoom(wide/tele) button in the super macro mode.

● Available focusing method, by recording mode.
(O: Available, X: Not available, ∞: Infinite Focus)

	📷	P	A/S/M	MySET	🎥	🌙	SCENE								
Auto	O	O	O	O	O	O	O	O	∞	X	∞	∞	O	∞	O
🌷	O	O	O	O	O	X	X	X	X	X	X	X	X	X	X
◉	O	O	O	O	O	X	X	X	X	O	X	X	X	X	X

《31》

Focus lock

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

[The image to be captured]   [Press the SHUTTER button halfway and focus on the subject]   [Recompose the picture and fully depress the SHUTTER button]
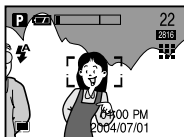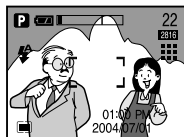
FLASH(⚡) / LEFT button

■ When the menu is displayed on the LCD monitor, pressing the LEFT(◀) button makes the cursor shift to the left tab.

■ When the menu is not displayed on the LCD monitor, the LEFT button operates as the FLASH (⚡) button.

● Selecting the flash mode

   1. Rotate the MODE DIAL to select a RECORDING mode with the exception of SCENE, MOVIE CLIP and VOICE RECORDING modes.

[Selecting the Auto & Red eye reduction flash]

   2. Press the Flash(⚡) button until the desired flash mode indicator displays on the LCD monitor.

   3. A flash mode indicator will be displayed on the LCD monitor. Use the correct flash to suit the environment.

● Flash range

Unit : m

ISO	AUTOFOCUS		MACRO	
	WIDE	TELE	WIDE	TELE
AUTO	0.8 ~ 3.0	0.8 ~ 2.0	0.3 ~ 0.8	0.3 ~ 0.8

INFORMATION

● Using the flash frequently will reduce the life of the batteries.

● Under normal operating conditions the charging time for the flash is normally within 7 seconds. If the batteries are weak, the charging time will be longer.

● When using super macro, continuous shot, manual focus (6 to 30cm), movie clip mode, the flash function will not operate.

● Take photographs within the flash range.

● The image quality is not guaranteed if the subject is too close or highly reflective.

FLASH(⚡) / LEFT button

● Flash mode indicator

ICON	Flash mode	Description
⚡A	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 available light. The intensity of the flash will be controlled, according to the prevailing conditions. The brighter the background or subject is, the less intense the flash will be.
⚡S	Slow synchro	The flash will operate in conjunction with a slow shutter speed in order to obtain the correct exposure. We recommend using a tripod for this function. When you take an image in a condition with poor light, the camera shake warning indicator (📳) will display on the LCD monitor.
⚡⊘	Flash off	The flash does not fire. Select this mode when capturing images in a place or situation where flash photography is prohibited. When you capture an image in a poorly lit condition, the camera shake warning indicator (📳) will display on the LCD monitor.

● Available flash mode, by recording mode

	📷	P	A/S/M	MySET	🎥	🌙	SCENE								
⚡A	X	O	X	O	X	X	X	X	X	X	X	X	X	X	O
👁	O	O	X	O	X	X	O	O	X	X	X	X	X	X	X
⚡	X	O	O	O	X	X	X	X	X	X	X	X	O	X	X
⚡S	X	O	O	O	X	O	X	X	X	X	X	X	X	X	X
⚡⊘	O	O	O	O	O	O	X	X	O	O	O	O	X	O	X

SELF-TIMER / REMOTE button

■ When the menu is displayed on the LCD monitor, pressing the RIGHT button makes the cursor shift to the sub menu.
■ When the menu is not displayed on the LCD monitor, the RIGHT button operates as the SELFTIMER (⏱) / REMOTE (📱) button. This function is used when the photographer would also like to be in the image.
● Selecting the self-timer
  1. Rotate the mode dial to the RECORDING mode.
     Note that only remote controller shooting is available in the voice recording mode.
  2. Press the SELF-TIMER button until the desired mode indicator displays on the LCD monitor.

[Selecting the 2sec. self-timer mode]   [Selecting the remote mode]

- Selecting the self-timer mode :
  Pressing the shutter button will allow an interval of ten seconds before the image is taken. After that, the self-timer is cancelled.
- Selecting the remote mode :
  Pressing the shutter button in the remote controller will allow an interval of 2 seconds before the image is taken. In the remote mode, you cannot use the shutter button.

● Self-timer/ remote mode definition

Icon	Mode	Definition
$\circlearrowleft^{2S}$	2s	Pressing the shutter button will allow an interval of 2 seconds before the image is taken.
$\circlearrowleft$	10s	Pressing the shutter button will allow an interval of 10 seconds before the image is taken.
📱	Remote mode	You can take a picture with the remote controller.

SELF-TIMER / REMOTE button

● Self-timer/ remote mode setting

Mode dial	Setting (marked camera working mode is the default setting.)
AUTO	
PROGRAM	
A/S/M, MySET	Off → 2s self-timer → 10s self-timer → Remote
MOVIE CLIP	
NIGHT SCENE, SCENE	
VOICE RECORDING	Off → Remote

INFORMATION

● When taking a picture using the self-timer, the self-timer lamp works as follows:

  2 second self-timer setting   : The self-timer lamp blinks at 0.25 second interval for 2
                                    seconds.

  10 second self-timer setting : The self-timer lamp blinks at 1 second interval for the
                                    first 7 seconds. It blinks at 0.25 second interval for the
                                    remaining 3 seconds.

● If you operate the Mode dial and Self-timer button during the self-timer operation, the self-timer function is cancelled.

● Use a tripod to prevent the camera from shaking.

● Remote control range

When you take a picture by using the remote control, refer to the illustrations shown alongside about the remote control range.

[Shutter button on the remote control]

4m

30°   30°

4m

5m

《36》
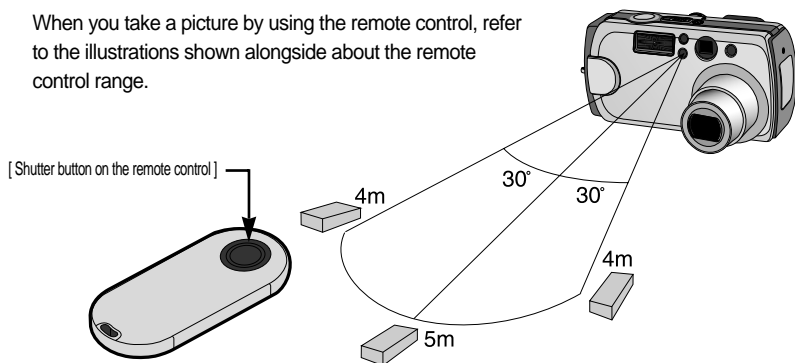
SELF-TIMER / REMOTE button

● Changing the remote controller battery

Check the polarity while installing the remote controller batteries. The + polarity must be upward. Contact your dealer or Samsung camera service center for supplier details.
The battery type is CR 2025 3V.

MENU/ OK button

■ MEMU 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.
  - A menu option can be displayed when the following are selected. AUTO, PROGRAM, A/S/M, MySET, MOVIE CLIP, NIGHT SCENE and SCENE. There is no menu available when the VOICE RECORDING mode is selected.
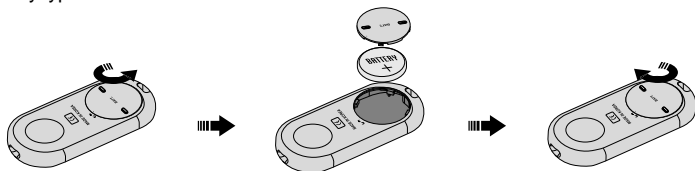

Pressing the MENU/OK button

[menu off]   [menu on]
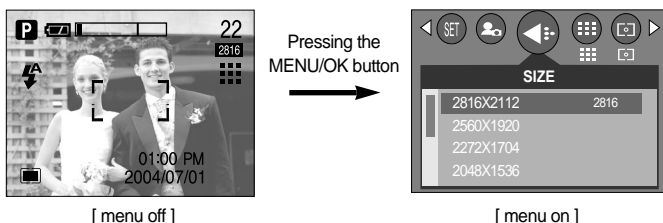
■ OK button
  - When the menu is displayed on the LCD monitor, this button is used for shifting the cursor to the sub menu or for confirming data.

INFORMATION

● The menu will not be displayed on the LCD monitor in the following circumstances:
  - When another button is being operated.
  - While image data is being processed.(when the green LED next to the viewfinder blinks)
  - When there is no battery capacity.
● When the menu is showing on the LCD monitor, it is not possible to operate the shutter button i.e. take an image. To take an image, simply cancel the menu display by pressing the MENU button.

MF button

■ In dark conditions, the autofocus may not function. If this occurs, press the MF button and you can select manual focus.

■ Carefully set the focus, using the MF button for focusing. If the focus is not accurate, the picture may be blurred. Please set manual focusing carefully.

■ Use the MF button in A/S/M mode to change the Aperture value and Shutter speed.

● Focusing
  1. Press the MF button and use the Left/Right buttons to select automatic or manual focusing.
  2. The MF bar is displayed if manual focusing is selected.
     Use the Up/Down buttons to set the desired distance.
     - Pressing the UP button : Focus at long range.
     - Pressing the DOWN button : Focus at close range.
  3. After setting the manual focus, press the Menu/OK button to confirm.
     The MF bar disappears and the MF icon is displayed in the bottom of the LCD.

[Select Auto Focusing]   [Select Manual Focusing]   [After Setting the Manual Focus]

● Available options for each shooting mode
  (Available: O, Not available: X)

	AUTO	PROGRAM	A/S/M	MySET	VOICE RECORDING	MOVIE CLIP	NIGHT SCENE	SCENE
Auto focus	O	O	O	O	X	O	O	O
Manual focus	X	O	O	O	X	O	O	X

MF button

INFORMATION

● The manual focus function is disabled in the AUTO, VOICE RECORDING SCENE modes.

● The MF bar is divided into 3 parts according to the photography range.

Part of the MF bar	Photography range
1st part	0.8m ~ infinity
2nd part	0.3m ~ 0.8m
3rd part (only in wide zoom mode)	0.06m ~ 0.3m

● When the subject distance is between 0.06m ~ 0.3m, the flash mode is changed to FLASH OFF automatically.

● The focus value displayed in the LCD while manually focusing is measured from the end of the lens.

■ The MF button is used as described below in A/S/M mode.

● A mode(Aperture priority mode)

1. Press the MF button. Aperture value in the LCD goes red.
2. Use the Left/Right buttons to set the desired Aperture value.
3. Press the MF or Menu/OK button to save the selected values.
   - Pressing the MF button: Saves the new aperture value and displays the focus adjust icon (◄AF ►). To set manual focusing, set the distance as shown in page 38.
     To set automatic focusing, press the MF button again.
   - Pressing the Menu/OK button: The camera goes into shooting mode after saving the new aperture value.

 * Smaller Aperture values make the object sharp but blur the background.
   Larger Aperture values make both the object and background sharp.
 * Toggle the MF button in step 1 to select Aperture set (Red) → Focusing (◄AF ►:Red) → Aperture priority mode (White)

《39》

MF button

● S mode(Shutter priority mode)

1. Press the MF button and wait for the shutter speed value in the LCD to go red.
2. Use the Left/Right buttons to set the desired shutter speed value.
3. Press the MF or Menu/OK button to save the selected values.
   - Pressing the MF button: Saves the new shutter speed and displays the focus adjust icon (◀AF ▶).
     To set manual focusing, set the distance as shown in page 38. To set automatic focusing, press the MF button again.
   - Pressing the Menu/OK button: The camera goes into shooting mode after saving the new shutter speed.
   * 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.
   * Toggle the MF button in step 1 to select Shutter speed →Focusing (◀AF ▶: Red) → Shutter priority mode (White)

● M mode (Manual mode): manually set the Aperture value, Shutter speed, and Focusing.

1. Both Aperture value and Shutter speed are displayed in the LCD.
2. Press the MF button and wait for the Aperture value to go red.
3. Use the Up/Down/Left/Right buttons to select the sub menu option.
   - Up/Down buttons: select the Aperture value or Shutter speed.
   - Left/Right buttons: Change the values
4. Press the MF or Menu/OK button to save the selected values.
   - Pressing the MF button: Saves the new aperture value / shutter speed and displays the focus adjust icon (◀AF ▶). To set manual focusing, set the distance as shown in page 38. To set automatic focusing, press the MF button again.
   - Pressing the Menu/OK button: The camera goes into shooting mode after saving the new aperture value / shutter speed.
   * Both the Shutter speed and Aperture value can be set.
   * Toggle the MF button in step 1 to select Shutter speed/Aperture set (Red) → Focusing (◀AF ▶: Red) → Manual shooting mode (White)

《40》

MF button

If the aperture value or shutter speed is out of the limit of application, the value that is displayed on the LCD monitor will show as red. However, you will still be able to take a picture. Please adjust the shutter speed and aperture value so that the red warning turns white (normal) before taking the picture.
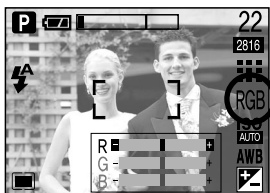
+/- button

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

Main menu	Sub menu	Available camera mode
RGB	R (Red), G (Green), B (Blue)	**P** A/S/M MySET ▮▮ SCENE (◨ ▲ ※ ▨)
ISO	AUTO, 50, 100, 200, 400	**P** A/S/M MySET
WHITE BALANCE	AUTO, DAYLIGHT, CLOUDY, FLUORESCENT H, FLUORESCENT L, TUNGSTEN, CUSTOM.	**P** A/S/M MySET ▮▮ SCENE (◨ ▮)
Exposure compensation	-2.0~0.0~+2.0(0.5EV steps)	**P** A/S/M MySET SCENE (◨ ▮)
Shutter speed/ Aperture value	Changed by zoom scale	▮

■ RGB : Allows the user to adjust the R (Red), G (Green), and B (Blue) values of the images to be captured.

● Setting RGB Values
  1. Press the +/- button, and then use the UP and DOWN buttons to select the RGB icon (RGB).
     The RGB menu bar will appear as shown.
  2. Use the UP/ DOWN/ LEFT and RIGHT buttons to select the desired RGB value.
     - Up/Down Button: Navigates between R, G, and B icons.
     - Left/Right Button: Changes value of each icon.
  3. When you press the +/- button again, the value you set will be saved and RGB setup mode will end.

+/- button

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

● Selecting an ISO Sensitivity
   1. Press the +/- button, and the use the UP and DOWN
      buttons to select the ISO icon(ISO AUTO). The ISO menu bar
      will appear as shown.
   2. Use the LEFT and RIGHT buttons to select the desired
      ISO sensitivity value.
      - AUTO :
        The camera's sensitivity is automatically changed by
        variables such as lighting value or subject brightness.
   - 50, 100, 200, 400 :
        You can increase the shutter speed while the same amount of light is present, by
        increasing the ISO sensitivity. However, the image may be saturated in high luminance.
        The higher the ISO value, the higher the camera's sensitivity to light is and therefore the
        greater its capacity to take pictures in dark conditions. However, the noise level in the
        image will increase as the ISO value increases, making the image appear coarse.
   3. When you press the +/- button again, the value you set will be saved and ISO setup mode will end.

■ White balance : The white balance control allows you to adjust the colours to appear more
natural looking.
● Selecting a White Balance
   1. Press the +/- button, and then use the UP and DOWN
      buttons to select the white balance icon (AWB).
      The white balance menu bar will appear as shown.
   2. Use the LEFT and RIGHT buttons to set the white
      balance to the desired value. The value you set will be
      displayed on the LCD monitor.

   AUTO   AWB   : The camera automatically
                         selects the appropriate white
                         balance settings, depending on the prevailing lighting conditions.
   DAYLIGHT   ☼   : For taking images outside.
   CLOUDY   ☁   : For taking images under a cloudy and overcast sky.
   Fluorescent H ⊟   : 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.
   3. Press the +/- button again. The value you set will be saved and White Balance setup mode
   will end.

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+/- button

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

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

[White paper]
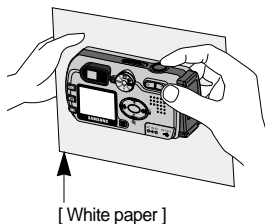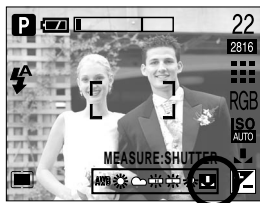
■ Exposure compensation : This camera automatically adjusts the exposure according to the
                          ambient lighting conditions.
                          You can also select the exposure value by using the +/- button.

● Compensating Exposure
  1. Press the +/- button, and then use the UP and DOWN
     buttons to select the exposure compensation icon (🔆).
     The exposure compensation menu bar will appear as
     shown.
  2. Use the LEFT and RIGHT buttons to set the desired
     exposure compensation factor.
  3. Press the +/- button again. The value you set will be
     saved and the Exposure Compensation setup mode will close. If you change the exposure
     value, the exposure indicator (🔆) will be displayed on the bottom of the LCD monitor.
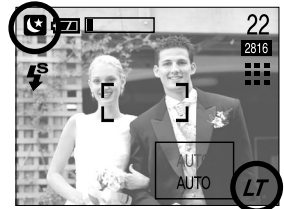 * A negative exposure compensation value reduces the exposure.
    Note that a positive exposure compensation value increases the exposure and the LCD
    monitor will appear white or you may not get good pictures.

+/- button

■ Long Time shutter : This camera automatically adjusts the shutter speed and aperture values
    to the shooting environment. However, in NIGHT SCENE mode, you can
    set the shutter speed and aperture values to your preference.

● Adjusting the shutter speed and aperture values
    1. Select the NIGHT SCENE mode by rotating the mode
       dial.
    2. Press +/- button and Long Time shutter menu
       (LT, For selecting shutter speed and aperture value) will
       be displayed.
    3. Configure the Long Time shutter value with the up/
       down/ left/ right button.
       Up/ Down Button: Select the iris / shutter speed
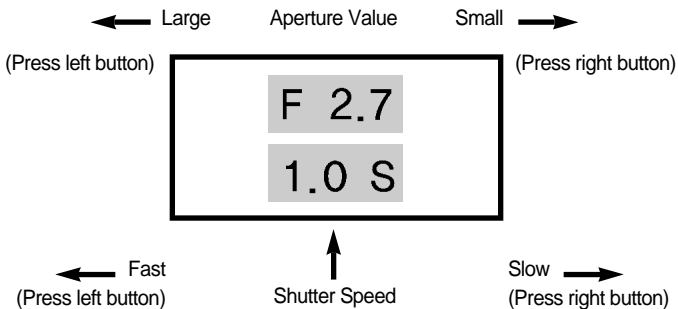   Left/ Right Button: Change the value. Available iris value options, depending on zoom step
                           will be displayed on the menu.
    4. Press the +/- button again. The value you set will be saved and the mode will switch to
       NIGHT SCENE mode. Press the SHUTTER button to take the picture.

■ Aperture values and shutter speeds changed by zoom scale are listed below.
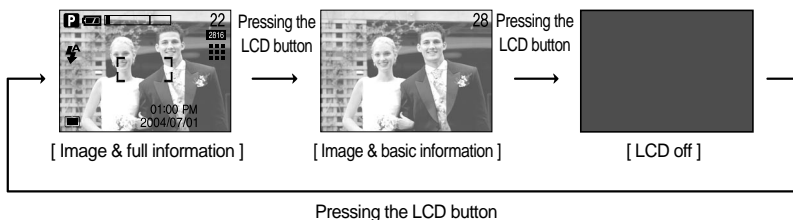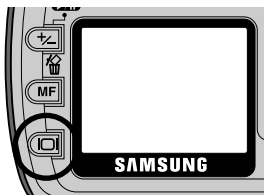
    Supported Aperture Values: AUTO, F2.7 ~ F11
    Supported Shutter Speeds: AUTO, 1/2000 ~ 16S

◄────── Large   Aperture Value   Small ──────►
(Press left button)   (Press right button)

F 2.7

1.0 S

◄────── Fast   Slow ──────►
(Press left button)   Shutter Speed   (Press right button)

LCD button

■ You can check the recording status in the LCD monitor. Toggle the LCD button in shooting mode (except in voice recording mode) to display the next LCD information displayed.

[Image & full information]   Pressing the LCD button   [Image & basic information]   Pressing the LCD button   [LCD off]

Pressing the LCD button

■ If the LCD monitor is turned off, the mode dial lamp will light up.

Using the LCD monitor to adjust the camera settings

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

INFORMATION

● The menu will not be displayed on the LCD monitor in the following circumstances:
  - When another button is being operated.
  - While image data is being processed.
    (when the green LED next to the viewfinder blinks)
  - When there is no battery capacity.
● When the menu is showing on the LCD monitor, it is not possible to operate the shutter button i.e. capture an image. To capture an image, simply cancel the menu display by pressing the MENU button.

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

The items indicated by ▢ are default settings.

Menu tab	Main menu	Sub menu	Camera working mode	Page
		2816X2112	**AUTO** PROG A/S/M MySET ◤ SCENE	p.48
		2560X1920		
		2272X1704		
	SIZE	2048X1536		
		1600X1200		
		1024X768		
		640X480		
		640X480	🎥	
		320X240		
		TIFF	**AUTO** PROG A/S/M MySET ◤ SCENE	p.49
		S. FINE		
	QUALITY	FINE		
		NORMAL		
		30FPS	🎥	
		15FPS		
	METERING	MULTI	PROG A/S/M MySET	p.50
		SPOT		

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Using the LCD monitor to adjust the camera settings

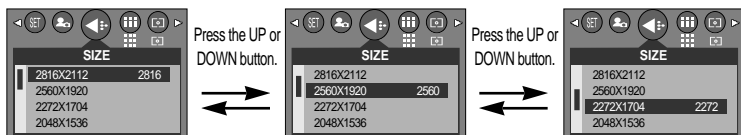| Menu tab	Main menu	Sub menu			Camera working mode	Page
	SHOOTING	SINGLE			**PROG** **A/S/M** MySET	p.50
		2 SHOTS				
		4 SHOTS				
		8 SHOTS				
	EFFECT	NORMAL			**PROG A/S/M** MySET	p.51
		B & W				
		SEPIA				
	SHARPNESS	SOFT			**PROG A/S/M** MySET	p.52
		NORMAL				
		VIVID				
A S M	ASM	A			**A/S/M**	p.52
		S				
		M				
SCENE	SCENE	PORTRAIT	CHILDREN	LANDSCAPE	**SCENE**	p.53
		CLOSE-UP	SUNSET	DAWN		
		BACKLIGHT	FIREWORKS	BEACH&SNOW		

* 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. However, there is no menu for Voice Recording mode (🔲).
2. Use the LEFT and RIGHT buttons to navigate through the menus.

SIZE
2816X2112   2816
2560X1920
2272X1704
2048X1536

Press the LEFT or RIGHT button.

QUALITY
TIFF
S.FINE
FINE
NORMAL

Press the LEFT or RIGHT button.

SHOOTING
SINGLE
2 SHOTS
4 SHOTS
8 SHOTS

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

SIZE
2816X2112   2816
2560X1920
2272X1704
2048X1536

Press the UP or DOWN button.

SIZE
2816X2112
2560X1920   2560
2272X1704
2048X1536

Press the UP or DOWN button.

SIZE
2816X2112
2560X1920
2272X1704   2272
2048X1536

4. Select a sub menu, and then press the OK button.
   The value you set will be saved and the menu will disappear.

Size

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

Mode	STILL IMAGE mode							MOVIE CLIP mode	
Icon	2816	2560	2272	2048	1600	1024	640	640	320
Size	2816X2112	2560X1920	2272X1704	2048X1536	1600X1200	1024X768	640X480	640X480	320X240

SIZE
2816X2112   2816
2560X1920
2272X1704
2048X1536

[PROGRAM mode]

SIZE
640X480   640
320X240
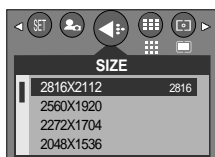
[MOVIE CLIP mode]

INFORMATION

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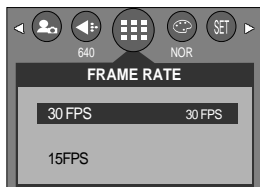
Quality

■ You can select the compression ratio appropriate for your application of the captured images.

The higher the compression ratio, the lower the picture quality.

Mode	STILL IMAGE mode				MOVIE CLIP mode	
Icon	TIFF	▦	⁝⁝⁝	∴	▦	⁝⁝⁝
Sub menu	TIFF	S.FINE	FINE	NORMAL	30FPS	15FPS
File Format	tiff	jpeg	jpeg	jpeg	avi	avi

[PROGRAM mode]

[MOVIE CLIP mode]

INFORMATION

● TIFF is the highest quality and NORMAL is the lowest setting.
  Choose the setting appropriate for your needs.
● TIFF format is an uncompressed image file format for an expert. If you take a picture with the TIFF file format, the number of available shots is decreased and the time for recording the image file will be longer because the TIFF file size is bigger than the JPG file format.
● When the TIFF file is being recorded to the memory card, a [PLEASE WAIT!] message will be displayed on the LCD monitor.
● This file format complies with the DCF(Design rule for Camera File system).
● JPEG (Joint Photographic Experts Group): JPEG is the image compression standard developed by the Joint Photographic Experts Group. This type of compression is most commonly used for compressing photos and graphics because it can compress the files efficiently without damaging the data.

Metering

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

MULTI(▣)   : Exposure will be calculated based on an average of the available light in the image area. However, the calculation will be biased towards the centre of the image area. This is suitable for general use.

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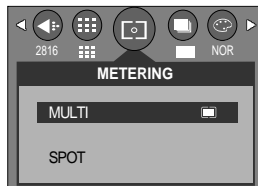
INFORMATION

● The default metering mode is Multi pattern metering.
● 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, rather use exposure compensation.

Continuous shot

■ Select the number of pictures in continuous shooting.
  - [SINGLE]   : Take one picture only
  - [2, 4, 8 SHOTS]   : Take the set number of pictures with one push of the shutter. Continuous shooting mode is cleared after one shooting.
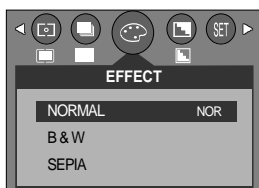
[PROGRAM mode]

Continuous shot

● Available maximum number of continuous shots, by image size/ quality type   (Unit : shot)

| size quality	TIFF	S.FINE	FINE	NORMAL
2816X2112	1	1	2	2
2560X1920	1	2	2	2
2272X1704	1	2	2	2
2048X1536	1	2	2	2
1600X1200	1	2	2	4
1024X768	1	4	8	8
640X480	1	8	8	8

* High resolution and picture quality increases file saving time, which increases stand-by time.
* Select [2, 4, 8 SHOTS] menu to inactivate the flash.
* Changing the image size after continuous shooting will clear the continuous shooting you set.

Effect

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

EFFECT		EFFECT
NORMAL NOR		NORMAL NOR
B & W		B & W
SEPIA		SEPIA
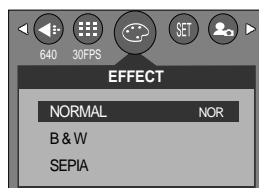
[PROGRAM mode]   [MOVIE CLIP mode]

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

Sharpness

■ You can adjust the sharpness of the picture you want to take. You cannot check the sharpness effect on the LCD monitor before you take a picture, because this function is applied only when the captured image is stored on the memory.
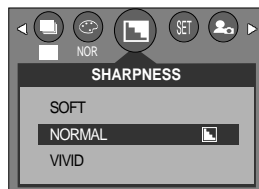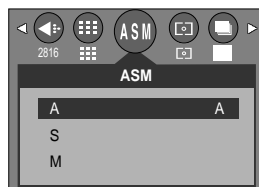
[PROGRAM mode]

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.

A/S/M

■ In this mode you can select the shutter speed or aperture value to your preference.
The menu is available in A, S, and M modes. Please see page 39 and 40 for details of each mode.

1. Rotate the mode dial to the A/ S/ M mode and press the MENU button.
2. Select [ASM] menu by pressing the LEFT/RIGHT button.
3. Select the desired sub menu by pressing the UP/DOWN button.
   - A mode (Aperture priority) :
     You can select the aperture value in this mode.
     The camera calculates the best shutter speed automatically to the proper exposure value.
   - S mode (Shutter priority) :
     You can select the shutter speed in this mode. The camera calculates the best aperture value automatically to the proper exposure value.
   - M mode (Manual) :
     You can select the shutter speed and the aperture value in this mode.
4. Press the OK button to save the desired shooting mode.

Scene

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

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

INFORMATION

● When close-up, sunset, dawn, fireworks scene mode are selected, it is possible that camera shake will occur. If you think this will happen, use a tripod.

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.
■ Slide the power switch to turn the camera power on. Press the play mode button once to switch to play mode. Press the play mode button again to switch to shooting 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 the power off. Switch the mode dial to change to another shooting mode while the camera is on.
■ You can set up the PLAY mode function by using the camera buttons and LCD monitor.
■ If you press PLAY button to switch to Play mode, the camera lens will retract into the camera body for protection of the lens in about 10 seconds.

● 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 play back by pressing the LEFT / RIGHT button.

  ※ Press and hold the Left or Right button to fast forward the images played.

INFORMATION

● Manner mode : Press the play mode button for more than 3 seconds and the camera will be turned on without the start-up sound and the [SOUND] function will be disable.
● Even if the camera' s power is off, you can start the play mode by pressing the play mode button.
● Lightly press the shutter button in Play mode to switch to the currently set shooting mode with the mode dial.

《54》

Starting play mode

■ Playing back a movie clip

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

3. Select the recorded movie clip that you want to play back by using the LEFT/RIGHT button. If you select a movie clip, the movie clip indicator (🎬) will be displayed on the LCD monitor.

4. Press the play & pause button (▶/Ⅱ) to play back a movie clip file.
   - To pause a movie clip file while playing it back, press the play & pause button again.
   - Pressing the play & pause button again will cause the movie clip file will restart.
   - To rewind the movie clip while it is playing, press the LEFT button. To fast forward the movie clip, press the RIGHT button.
   - To stop playback of the movie clip, press the play & pause button, and then press the LEFT or RIGHT button.
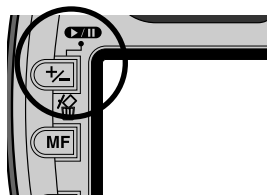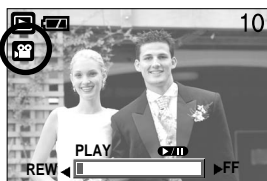
■ Movie clip capture function: capture still images from the movie clip.

● How to capture the movie clip

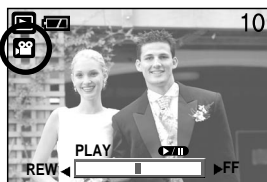Steps 1-2 are the same as those for playing back a still image.

3. Select the recorded movie clip that you want to play back by using the LEFT/RIGHT button.
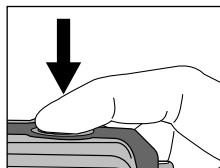
4. Press the Play/Pause button to play the movie clip

5. Press the Play/Pause button while playing the movie clip. Then press the Shutter button.

6. The paused movie clip is saved in a new file name.

* The captured movie clip file has same size as the original movie clip (640X480 or 320X240)

[Paused]

[Press the shutter button]

Starting play mode

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

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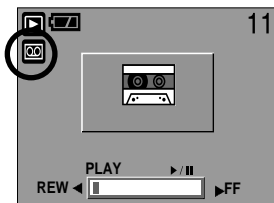
LCD monitor indicator

■ The LCD monitor displays information about the shooting conditions.

No.	Description	Icon	Page
1	Battery	▮▰ ▱▰ ▱	p.16
2	Play mode	▶	
3	File Type	🎙 🎥	
4	Voice memo	♪	p.60
5	Protect indicator	⊶	p.67
6	DPOF indicator	⧈	p.70
7	Stored image number	9	
8	TIFF file	TIFF	

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

|		
SIZE	: 2816X2112	Size
AV	: F2.7	Aperture value
TV	: 1/30	Shutter speed
ISO	: 50	ISO sensitivity
FLASH	: OFF	Whether or not the flash is used.
DATE	: 2004/07/01	Recording date

Using the camera buttons to adjust the camera

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

Thumbnail (🔳) / 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 5 function button to move to a desired image.

4. To view an image separately, press the enlargement button (🔍).
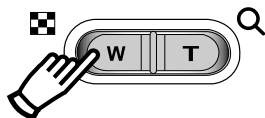
[Normal display mode]

Pressing the thumbnail button (🔳)

Pressing the enlargement button (🔍)
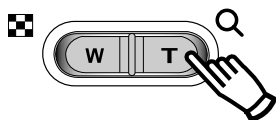
Highlighted image

[Thumbnail display mode]

● 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 5 function button.

3. Pressing the thumbnail button will zoom back to the original full sized image.

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

-TIFF, Movie clips and WAV files can't be enlarged.

- If an image is enlarged, a loss of quality may occur.

X2.2

Thumbnail(▦) / Enlargement(🔍) button

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

Image size	2816	2560	2272	2048	1600	1024	640
Maximum enlargement rate	×11	×10	×8.8	×8.0	×6.2	×4.0	×2.5

● Trimming : You can extract part of the image that you want and save it separately.

1. Select an image that you want to enlarge and press the enlargement button.
2. Different parts of the image can be viewed by pressing the 5 function button.
3. Press the MENU button and a message will be displayed as shown alongside.
4. Press the OK button to save the trimmed image with a new file name.

   The trimmed image will be displayed on the LCD monitor.

   Press the LEFT button to return to the image before it was selected.

   - If there is little memory space to save the trimmed image, the image can't be trimmed.

* Trimming is not available for TIFF images

Voice (🎤) memo / Up button

■ When the menu is displayed on the LCD monitor, pressing the UP button makes the menu cursor move up.

■ When the menu is not displayed on the LCD monitor, the UP button operates as the voice memo button. You can add your voice to a stored still image.

● Adding a Voice Memo to a Still Image

1. Press the LEFT/ RIGHT button to select an image that you wish to add sound to.
2. Press the voice memo button (🎤) and the voice memo indicator will display. The camera is now ready to record a voice memo.
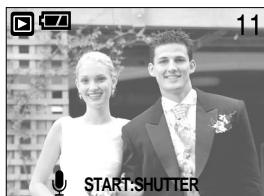
Voice (🎤) memo / Up button

3. Press the shutter button to start recording and voice will be recorded to the still image for 10 seconds. While the voice is recording, the recording status window will be displayed as shown alongside.

4. The recording can be stopped by pressing the shutter button again.

5. The (🎵) icon will be displayed on the LCD monitor after voice memo recording has finished.
   - Voice memos can't be recorded onto movie clip files.
   - A distance of 40cm between you and the camera (microphone) is the best distance to record sound.
   - The voice memo will be saved in *.wav format, but has the same file name as the still image to which it corresponds.
   - If you add a new voice memo to the still image that already has a voice memo, the existing voice memo will be erased.
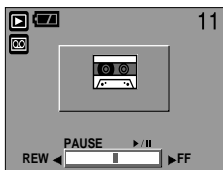

Play & Pause (▶❚❚) button

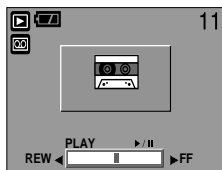■ In Play mode, the play & pause button works as follows:
   - If a still image with a voice memo, a voice file, or a movie clip is playing
      In Stop mode   : Plays a still image with a voice memo, a voice file, or a movie clip.
      During playback : Temporarily stops playback.
      In Pause mode   : Resumes playback
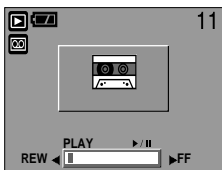
[Voice recording is stopped]

[Voice recording is playing]

[Voice recording is paused]