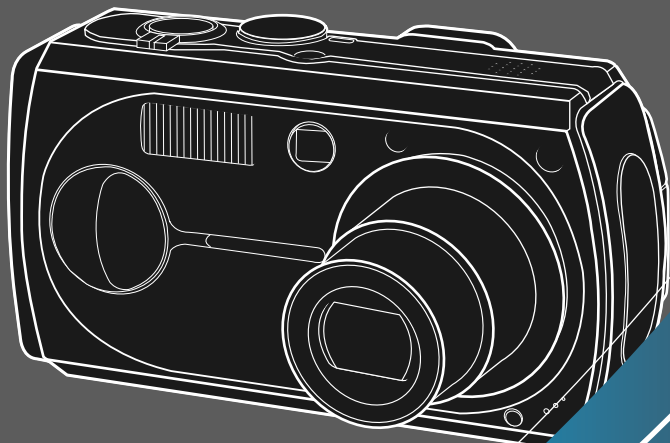**SAMSUNG**

SAMSUNG DIGIT*all*
everyone's invited™

ENGLISH

QuickTime

SAMSUNG CAMERA

User's Manual
Digimax V50

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 V50.

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.101)

Take a picture

Take a picture (p.23)

Insert the USB cable

Insert the supplied USB cable into the PC's USB port and the camera's USB connection terminal.(p.109)

Check the camera's power

Check the camera's power
If the power is turned off, press the camera button to power it on.(p.29)

Check [Removable Disk]

Open Window's EXPLORER and search for [Removable Disk].(p.110)

● To play back a video shot with this camera, be sure to use the QuickTime player supplied on the software CD-ROM. Applications that do not support the MPEG-4 codec (e.g., Windows Media Player) may not be able to play back the video.

● 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.

✽ Apple, Mac and QuickTime logo are registered trademarks of Apple computer.

✽ Memory Stick Duo is a registered trademark of Sony Corporation.

✽ 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.

《5》

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.

Warning

■ Do not use the flash in close proximity to people or animals. Positioning the flash too close to your subject's eyes, may cause eyesight damage.

■ When taking photographs, never point the lens of the camera directly into very strong light. This may result in permanent damage to your eyesight.

■ For safety reasons keep this product and accessories out of reach of children or animals to prevent accidents e.g.:
  • Swallowing batteries or small camera accessories. If an accident should occur, please consult a doctor immediately.
  • There is the possibility of injury from the camera's moving parts.

■ Batteries and camera may become hot during prolonged use and it may result in camera malfunction. Should this be the case, allow the camera to sit idle for a few minutes to allow it time to cool.

■ Do not recharge non rechargeable batteries. This may cause an explosion.

■ Do not leave this camera in places subject to extremely high temperatures, such as a sealed vehicle, direct sunlight or other places of extreme variances in temperature. Exposure to extreme temperatures may adversely affect the camera's internal components and could cause a fire.

■ When in use, do not cover the camera or AC Power Adapter. This may cause heat to build up and distort the camera body or cause a fire. Always use the camera and its accessories in a well-ventilated area.

Caution

유카 7

■ 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.
■ A non-rechargeable (disposable) battery can be used but has a short lifespan because of its
  relatively low battery capacity. We recommend the rechargeable battery which has a bigger
  capacity and longer lifespan than the non rechargeable type. (Rechargeable batteries may
  not be available everywhere).

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
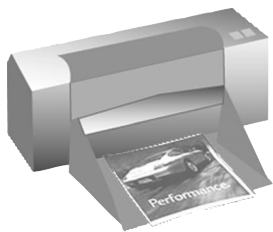
Printing images using a dedicated printer,
DPOF and PictBridge compatible printer or a
DPOF-equipped photo lab.
(refer to page 71~78)

Viewing images on a TV.
(refer to page 86)

Down loading image files
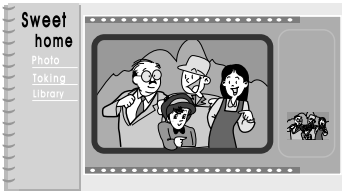from camera to computer.
(refer to page 110)

Taking a picture.
(refer to page 23~54)

Editing images on a PC.
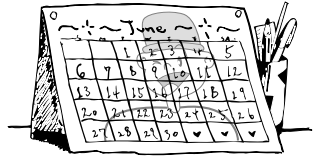(refer to page 117)

This digital camera can be used for
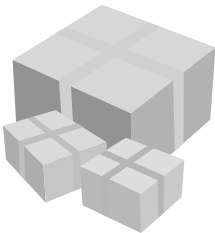
Creation of a digital photo album.

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

Recording your voice.
(refer to page 25)

Recording a movie clip.
(refer to page 26)

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	Remote control

SD memory card	Memory Stick Duo	AC adapter (SAC-51, 5.0V)	2 AA Alkaline Batteries

Digimax Premium Power Pack : SLB-1437 KIT			Digimax Battery I-Pack : SBP-1303 KIT		
Battery charger (SBC-L2)	Rechargeable battery	AC cord	Battery charger	Rechargeable battery	AC cord

Identification of features

Front & Top

Mode dial

Shutter button

Jog dial

Flash

Viewfinder

Power button

Mode dial lamp

Flash light amount sensor

Speaker

Auto Focus lamp

Lens ring

Lens

Microphone

Function lamp& Self-timer lamp   Remote control sensor
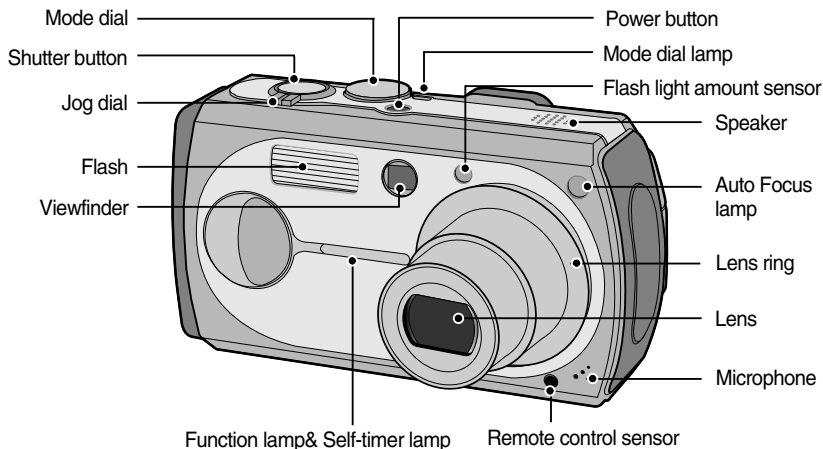
※SCL-T3755/W3755 conversion lens and SLA-3537 connection adapter are designed for the Digimax digital cameras. They are sold separately depends on the camera model. Please check local retailers for the purchase. Please see page 25 or included manual for the usage.
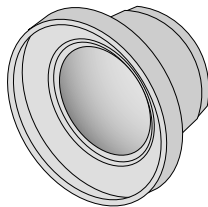
Conversion lens adapter
● Model Name: SLA-3537
● TELE conversion lens. Used to attach a WIDE conversion lens to the camera.
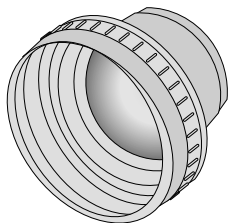
TELE Conversion lens
● Model Name: SCL-T3755
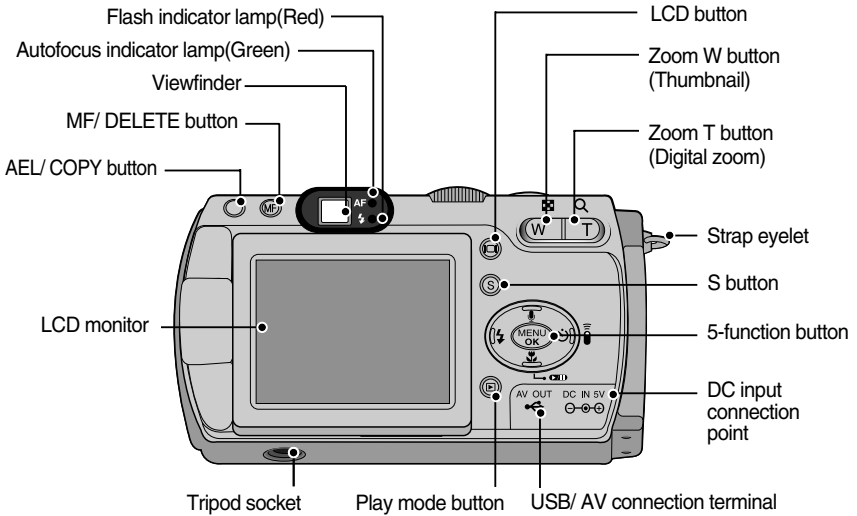● Extends camera lens focus to 1.7 times.

WIDE conversion lens
●Model Name: SCL-W3755
● Extends camera lens focus to 0.7 times.

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Identification of features

Back & Bottom

Flash indicator lamp(Red)
Autofocus indicator lamp(Green)
Viewfinder
MF/ DELETE button
AEL/ COPY button
LCD monitor
LCD button
Zoom W button (Thumbnail)
Zoom T button (Digital zoom)
Strap eyelet
S button
5-function button
DC input connection point
Tripod socket
Play mode button
USB/ AV connection terminal

* 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.

INFORMATION

● Please keep the LCD monitor closed while not using the camera.
● Please do not over twist the rotational LCD monitor to prevent camera damage.
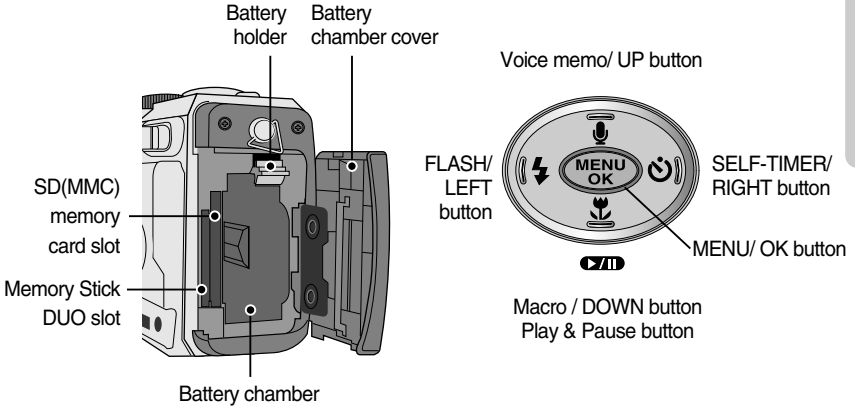 Rotational range : 180 degrees horizontal to the camera.
  180 degrees to forward and 90 degrees to backward while opened.
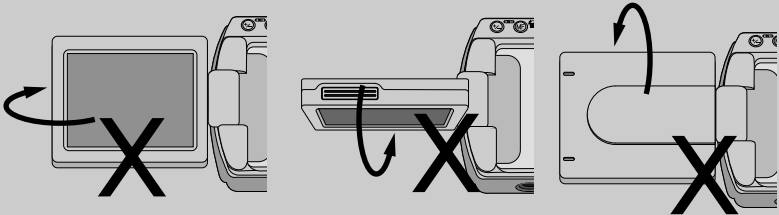
Please do not flip or twist the LCD monitor to the arrow direction.

Identification of features

Side/ 5-function button

Battery holder
Battery chamber cover

Voice memo/ UP button

FLASH/ LEFT button

MENU OK

SELF-TIMER/ RIGHT button

SD(MMC) memory card slot

Memory Stick DUO slot

MENU/ OK button

Macro / DOWN button
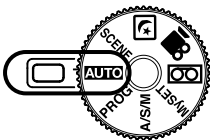Play & Pause button

Battery chamber

Mode dial

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

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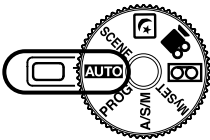
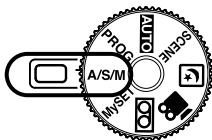Please select this mode for quick and easy picture taking with minimal user interaction.

● 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.
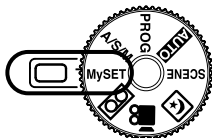
Identification of features

● A/S/M mode

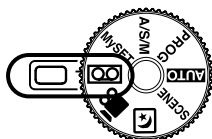The Aperture and Shutter can be set manually in the ASM mode.
- A : Aperture priority mode
- S : Shutter priority mode
- M : Manual mode

● MySET mode

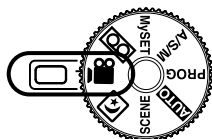This mode allows users to save frequently used shooting settings for later use.

● 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)
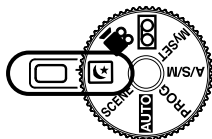- Voice recording file type : *.wav

● MOVIE CLIP mode

A movie clip can be recorded for as long as the available recording time of the memory capacity allows.
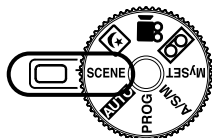- Image size   : 640x480, 320x240 (user selectable)
- Movie clip file type : *.mov

● 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.

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Identification of features

■ Function lamp & Self-timer lamp

Function	Description
Power on	Blue light blinks and then turns off when the camera is ready to take a picture.
After taking a picture	Blue lamp blinks once.
While movie recording	Blue lamp blinks at a 1-second interval.
While voice recording	Blue lamp blinks at a 1-second interval.
After selecting the remote mode	Blue lamp blinks at a 1-second interval.
While the self timer is functioning	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. * The lamp will function while using the self-timer even if the configuration is set to off the lamp. (Based on 10-second Self-timer; see p. 37)

■ 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.PC Mode: When the USB cable is inserted.

■ Mode dial lamp

Color	Status	Camera Status
Green	On	Turned off the LCD with the LCD button.

■ Flash indicator lamp

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

■ Mode icons

MODE	AUTO	PROGRAM	A/S/M			MySET	VOICE RECORDING	MOVIE CLIP	NIGHT SCENE	PLAY
Icon	◉	P	A	S	M	My	◉◉	◉	◉	▶

MODE	SCENE								
	PORTRAIT	CHILDREN	LANDSCAPE	CLOSE-UP	SUNSET	DAWN	BACKLIGHT	FIREWORKS	BEACH&SNOW
Icon	◉	◉	▲	◉	◉	◉	◉	▦	◉

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 5.0V 2.0A).

■ We recommend using batteries for a digital camera (Within a year from the date of manufacture) and rechargeable Ni-MH battery (over 1600mAh). 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   – Digimax Battery I-Pack(SBP-1303)

Exclusive type - Digimax Premium Power Pack : SLB-1437

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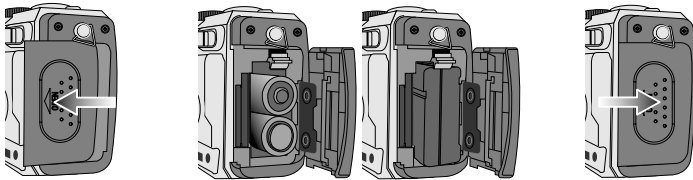
1. Open the battery chamber cover by pushing in the direction of the arrow.

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

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

Removing the battery : Please use the following steps to remove the manufacturer's rechargeable battery SLB-1437.
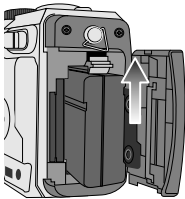
1. Turn off the camera power. Open the battery chamber cover and move the battery holder aside. The battery will be released.
2. Take out the battery and close the battery chamber cover.

■ 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.

Connecting to a Power Source

INFORMATION

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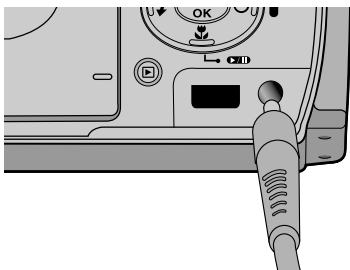- During extended use of the camera, the camera body may become warm.
  This is perfectly normal.

Using the AC power adapter (SAC-51, 5.0V)

If you have access to a mains supply, using an AC Adapter (SAC-51, 5.0V) allows the camera to be used for long periods of time.
Plug the adapter into the connection point (DC IN 5.0V) on the camera.
Remove the batteries from the camera when using an AC adapter.

DANGER

- Always turn off the power before taking the AC adapter out of the mains supply.
- As with all mains powered devices, safety is important. Ensure that neither the camera nor adapter comes into contact with water or metallic materials.
- Please ensure that you use an AC adapter (SAC-51, 5.0V) with the correct specification for the camera. Failure to do so may affect your warranty.

Instructions on how to use the memory card

● Be sure to format the memory card (see p. 82) 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.(Except for the exclusive type SLB-1437 battery)

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

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

Card pins

Write protect switch

Label
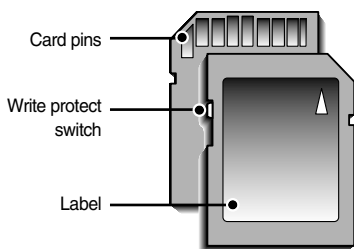
[SD(Secure Digital) memory card]

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.

Recorded image size		TIFF	SUPER FINE	FINE	NORMAL	30 FPS	15FPS
Still image	2592X1944	1	12	23	35	-	-
	2272X1704	2	15	30	45	-	-
	2048X1536	3	18	36	53	-	-
	1600X1200	5	30	61	91	-	-
	1024X768	12	70	130	183	-	-
	640X480	29	183	305	457	-	-
Movie clip	640X480	-	-	-	-	1MIN 50SEC	3MIN 35SEC
	320X240	-	-	-	-	3MIN 35SEC	6MIN 47SEC

Inserting the memory card

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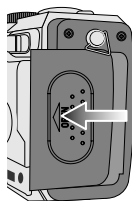
2. Have the front of the memory card facing toward the front of the camera (lens) and the card pins toward the back of the camera (LCD monitor), and then push the memory card into the card slot until you hear a click.
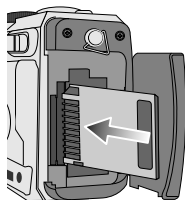
* When inserting the Memory Stick Duo, please have the label side facing down (toward the LCD) and the other side up (toward the lens).
  Be careful not to insert the Memory Stick Duo into the SD memory card slot.
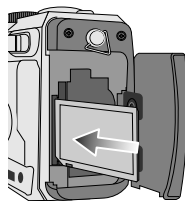
3. To close, push the battery chamber cover until you hear a click.
   If the memory card does not slide in smoothly, do not attempt to insert it by force. Check the direction of insertion, and then insert it correctly. Do not insert the memory card the wrong way round. Doing so may damage the memory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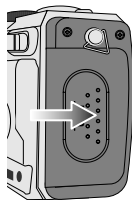
Removing the memory card

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

2. Remove the memory card and close the battery chamber cover.
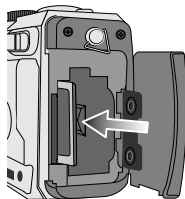
When Using the Camera for the First Time

■ If the camera is turned on for the first time, a menu will be displayed to set date, time and language in the LCD monitor. This menu will not be displayed after setting up the date, time and language. Set up the date, time and language before using this camera.

● Setting up the date, time and date type
   1. Select the [DATE.TIME] menu by pressing the UP/DOWN button and press the RIGHT button.
   2. Press the UP/DOWN/LEFT/RIGHT button to select the desired sub menu and press the OK button.

      RIGHT button : Selects YEAR/ MONTH/ DAY/ HOUR / MINUTE/DATE TYPE
      LEFT button : Moves the cursor to the [DATE/TIME] main menu if the cursor is at the first item of the date and time setup. In all other instances, the cursor will be shifted to the left of its current position.
      UP/ DOWN button : changes the value of each item.

```
                          SET

  SET UP
  ┃ LANGUAGE          ENGLISH
    DATE.TIME       ▶ 04/05/01
```

● Setting up the language
   1. Select the [LANGUAGE] menu by pressing the UP/DOWN button and press the RIGHT button.
   2. Select the desired sub menu by pressing the UP/ DOWN button and press the OK button.

```
                          SET

  SET UP
  ┃ LANGUAGE        ▶ ENGLISH
    DATE.TIME          04/05/01
```

INFORMATION

● Following languages are supported.
   Type A : English, French, German, Spanish, Italian, Russian, Dutch and Portuguese.
   Type B : English, Korean, Simplified Chinese, Traditional Chinese, Danish, Swedish, Thai, and Malaysian.
● Even if the camera is restarted, the language setting will be maintained.

LCD monitor indicator 430 20

■ The LCD monitor displays information about the shooting functions and selections.
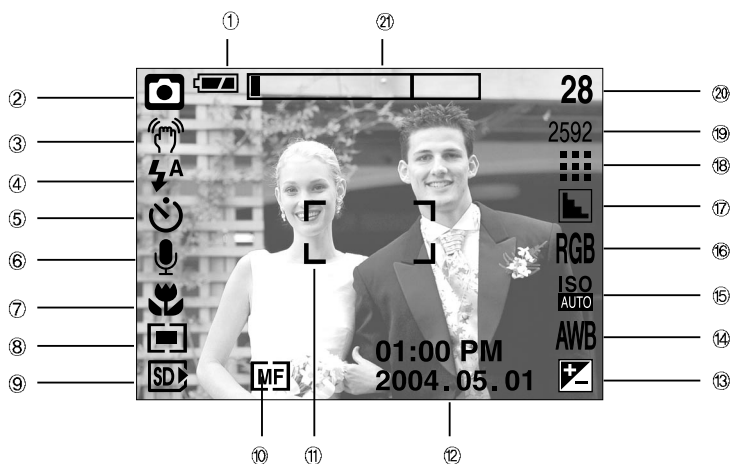
[Image & Full Status]

No.	Description	Icons	Page
1	Battery		p.16
2	Recording mode	🄾 P A S M My¹ 🄾🄾 🄾 🄾 SCENE	p.13~14
3	Camera shake warning		p.28
4	Flash	🄰 👁 🄵 🄵ˢ 🄵	p.35
5	Self-timer	²ˢ 🄾	p.37
6	Voice memo	🎤	p.32
7	Macro	🌷	p.33
8	Metering	▣ ▣	p.51
9	SD card/ MS DUO indicator	SD▶ MS▶	
10	Manual/ Continuous auto focus	MF CAF	p.45
11	Auto focus frame	⌞ ⌟	
12	Date/ Time	2004.05.01 01:00 PM	
13	Exposure compensation	�	p.40

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LCD monitor indicator

14	White Balance	⚘ ☀ ☰ ☰ ☁ ☀ AWB	p.41
15	ISO	ISO AUTO ISO 50 ISO 100 ISO 200 ISO 400	p.42
16	A/S/M mode	A S M	p.43
17	Sharpness	◣ ◣ ◣	p.52
18	Image size / Continuous shot	TIFF ▦ ▦ ▦ ▦	p.50
19	Image size	2592, 2272, 2048, 1600, 1024, 640	p.49
20	Number of available shots remaining	28	
	Remaining time (Movie clip/ Voice recording)	00:01:30/ 01:00:00	
21	Optical/ Digital Zoom bar	▮	

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.20)
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 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.
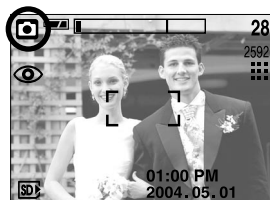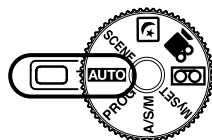
[AUTO mode]

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.
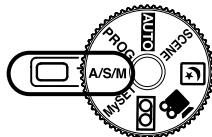
Starting the recording mode

■ 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 aperture value 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.49), quality (p.50), metering (p.51), picture effects (p.51), sharpness (p.52), continuous shooting (p.52) and saving MYSET settings(p.53).

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.
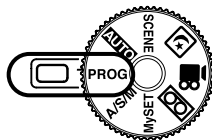
[PROGRAM mode]

■ How to use the A/S/M mode (A/S/M)

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

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 S button and select A, S or M icon by pressing the Up and Down button.

7. Use the Left and Right buttons to select desired shooting mode. A (Aperture priority mode), S (Shutter speed priority mode), and M (Manual mode).

8. Press the OK button to load the selected shooting mode.

9. Press the shutter button to capture an image. Please see page 43 for details of the A/S/M shooting mode.

[A/S/M mode]
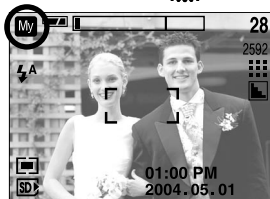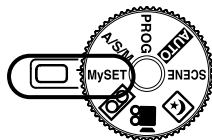
Starting the recording mode 신규

■ 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. Press the menu button.

7. Use the Left/Right buttons to select the [LOAD] menu tap. Use the Up/Down buttons to select desired MYSET number.

8. Press the OK button to load the camera configuration saved in the MYSET number and close the menu screen.

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.

Please see page 53 for details of the MYSET shooting mode and menus.

[MySET mode]

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

430 23 하단

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
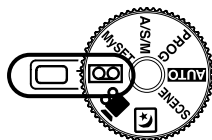
[VOICE RECORDING mode]

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

Starting the recording mode

■ How to use the MOVIE CLIP mode (🎥)

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

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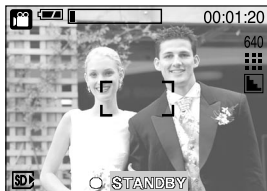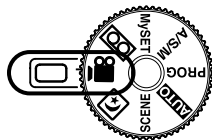   Movie clips will still be recorded if the shutter button is released. The auto focus lamp(green) will blink during the movie clip recording.

* If you wish to stop recording, press the shutter button again.
* Image size and type are listed below.
  - Image size : 640x480, 320x240(Selectable)
  - File type : *.mov

[MOVIE CLIP mode]

■ NIGHT SCENE mode (★)

This mode is used at night or against a dark background. It is possible that camera shake will occur. If this is the case, use a tripod to eliminate this.
Configure the shutter speed by zoom scale (Long Time shutter) with the S button.
Please see page 44 for a detailed description for Long Time shutter.

[NIGHT SCENE mode]
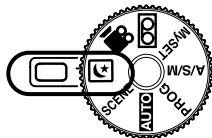
Starting the recording mode

■ 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 the SCENE mode menu will be displayed.
7. Use the LEFT and RIGHT buttons to select the [SCENE] menu tab.
8. Use the UP and DOWN buttons to select the desired [SCENE] sub menu. Please see page 54 for detailed descriptions for each screen.
9. The current scene icon is displayed at the top left of the LCD.
10. Point the camera towards the subject and compose the image by using either the viewfinder or LCD monitor.
11. Press the shutter button to capture an image.
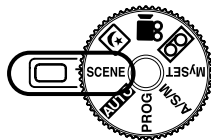
[SCENE mode]

Things to Watch Out for When Taking Pictures

■ Pressing the shutter button down half way.   4 30 2 5

Lightly press the shutter button to confirm focus and flash battery charge. (See page. 29)
Press the shutter button all way down to take the picture.
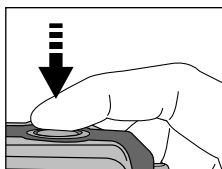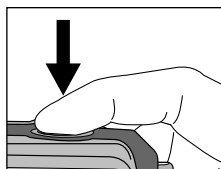
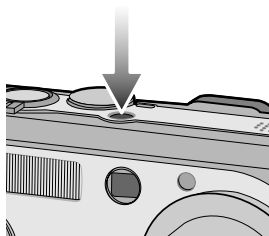[Lightly press the shutter button]   [Press the shutter button]

■ 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.
■ Compensated shooting against the light : Please do not take pictures to the sunlight direction.
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 54), forced flash (see page 35), spot side light (see page 51), or exposure compensation (see page 40).
■ 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 button

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

SHUTTER button/ Jog dial

● 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 button 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.
● Jog dial : Set focus distance while using the manual focusing (see page 45). Set the aperture value and shutter speed in the A/S/M shooting mode (see page 43).
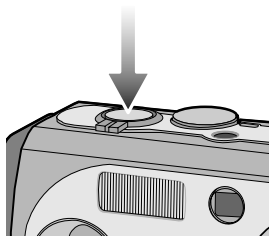
ZOOM W/T button

● If the menu is not displayed, this button works as the OPTICAL ZOOM or DIGITAL ZOOM button.
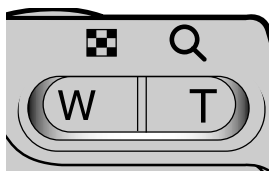
ZOOM W/T button   430 27

● 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]   [TELE zoom]   [Digital zoom 5.0X]

Pressing the ZOOM T button →   Pressing the ZOOM T button →
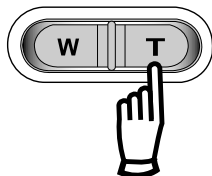
● WIDE Zoom

Optical zoom WIDE : Pressing the ZOOM W button. This will zoom out from the subject i.e. the subject will appear 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]   [Optical zoom 2X]   [WIDE zoom]

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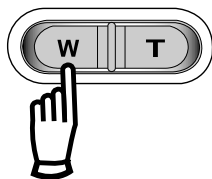
Digital zoom WIDE : When the digital zoom is in operation, pressing the ZOOM W button will reduce the digital zooming in steps. Releasing ZOOM W button stops digital zooming. Pressing the ZOOM W button will reduce the digital zoom and then it will continue to reduce the optical zoom until the minimum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

Optical zoom

X5.0

Digital zoom

[Digital zoom 5.0X]   [Digital zoom 2.0X]   [TELE zoom]

Pressing the ZOOM W button →   Pressing the ZOOM W button →
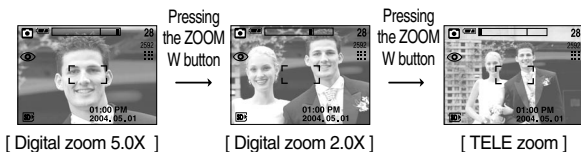
ZOOM W/T button

■ Use the conversion lens
   Use the optional conversion lens for more flexibility in setting the focus distance.
● Types of the conversion lens
   1. WIDE conversion lens : Install the WIDE conversion lens (model name: SCL-W3755) to
                        change the focus of camera lens in 0.7 times.
   2. TELE conversion lens : Install the TELE conversion lens (model name: SCL-W3755) to
                        change the focus of camera lens in 1.7 times.

● Focus distance and shooting range for each lens

Types of lens		Using the 3X camera lens		SCL-W3755 installed	SCL-T3755 installed
Focus		7.7 ~ 23.1mm		5.4mm	39.3 mm
35mm conversion distance		38 ~ 114mm		26.6mm	193.8 mm
Shooting range	Auto	80cm ~ Infinity		WIDE : 40cm ~ Infinity	TELE : 230cm ~ Infinity
	Macro	WIDE	4 ~ 80cm	WIDE : 1 ~ 40cm	TELE : 80 ~ 230cm
		TELE	30 ~ 80cm		

● Installing the conversion lens
   1. Turn the lens ring in the front of the
      camera to the left to remove it.
   2. Install the conversion lens adapter by
      turning it to the right.
   3. Install the WIDE or TELE conversion
      lens by turning it to the right.

 * While installing the adapter or
   conversion lens, make sure
   that they are securely fixed.

[Conversion lens]

[Adapter]

[Lens ring]

 * Please view the included manual with
   the lens for detailed usage of the
   conversion lens.

ZOOM W/T button
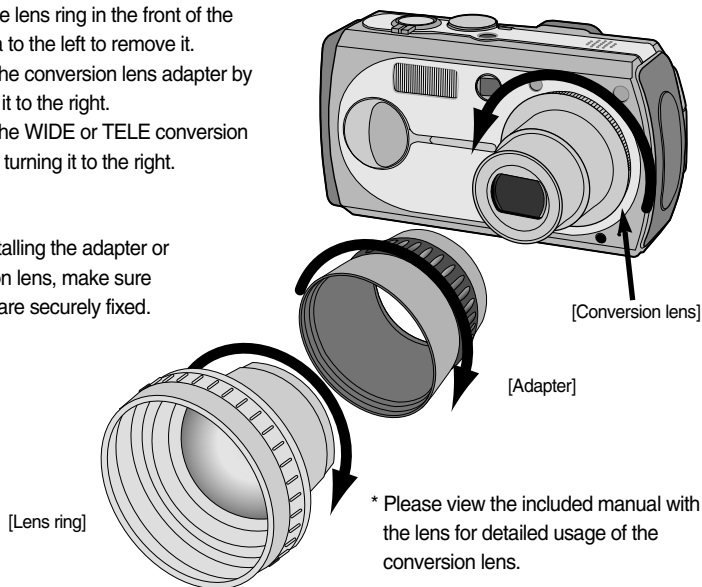
INFORMATION

● 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 Movie clip and Night Scene mode.
● You may notice a decrease in image quality when using the digital zoom.
● 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]

《32》

Voice memo(🎤) / UP button

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

INFORMATION

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

Macro(🌷) / Down button (Focusing)

■ While the menu is showing, press the DOWN button to move from the main menu to a submenu, or to move down the submenu cursor.

■ When the menu is not showing, you can use the MACRO/ DOWN button to take macro pictures (within the distance range of 4-80 cm).

[Auto focus]   [Macro]

■ Types of focus modes and focus ranges (W: Wide, T: Tele)

Focus type	Auto	Macro (🌷)	
Focus range	80cm ~ Infinity	W : 4 ~ 80cm	T : 30 ~ 80cm

INFORMATION

● When the macro mode is selected, it is possible that camera shake will occur.
  If this is the case, use a tripod to eliminate this.
● When you take a picture within 30cm(MACRO focus), select the FLASH OFF mode.

Macro(🌷) / Down button (Focusing)

430 30

■ Available focusing method, by recording mode(O : Selectable , X : Not selectable, ∞: Infinity focus range)

Mode	📷	P	A	S	M	My	🎥	🌙
Auto	O	O	O	O	O	O	O	O
Macro	O	O	O	O	O	O	O	X

Mode	🌿	👤	🏔	🌺	⛰	🌄	🎆	☀	🌅
Auto	O	O	∞	X	∞	∞	O	∞	O
Macro	X	X	X	O	X	X	X	X	X

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.
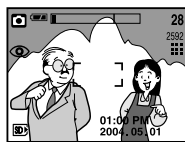
[The image to be captured]   [Press the SHUTTER button] halfway and focus on the subject   [Recompose the picture] and fully depress the SHUTTER button
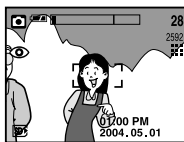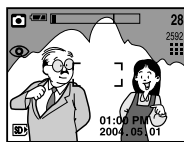
《34》

FLASH(⚡) / LEFT button   4 30 31

■ 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 MOVIE CLIP and VOICE
     RECORDING modes.

[Selecting the Auto flash]

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

● Flash range

Unit : m

ISO	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 6
    seconds. If the batteries are weak, the charging time will be longer.
  ● During the continuous shot, movie clip mode, the flash function will not operate.
  ● Take photographs within the flash range.
  ● The image quality is not guaranteed if the subject is too close or highly reflective.
  ● The LCD monitor is turned off for a while after using the flash to recharge it.

FLASH (⚡) / LEFT button   430 32

● 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	My	🌙	🚫	👤	🏔	🌷	🏖	🎆	🖼	🎇	🎬
⚡A	X	O	X	X	X	O	X	X	X	X	X	X	X	X	X	O
👁	O	O	X	X	X	O	X	O	O	X	X	X	X	X	X	X
⚡	X	O	O	O	O	O	X	X	X	X	X	X	X	O	X	X
⚡S	X	O	X	X	X	O	O	X	X	X	X	X	X	X	X	X
⚡⊘	O	O	O	O	O	O	O	X	X	O	O	O	O	X	O	X

Self-timer( ) / Remote( )/ Right button
4 30 33

■ When the menu is displayed on the LCD monitor, pressing the Right button makes the cursor shift to the right tab.

■ When the menu is not displayed on the LCD monitor, the RIGHT button operates as the Self-timer ( ) and 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 select a RECORDING mode with the exception of VOICE RECORDING mode.
2. Press the SELF-TIMER ( ) button until the desired mode indicator displays on the LCD monitor.
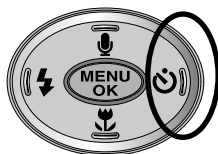   A 2 second self-timer or 10 second self-timer icon appears on the LCD monitor.
   · 2SEC self-timer ($\circlearrowleft^{2S}$) :
   Pressing the shutter button will allow an interval of 2 seconds before the image is taken.
   · 10SEC self-timer ( ) :
   Pressing the shutter button will allow an interval of 10 seconds before the image is taken.
3. When you press the SHUTTER button, the picture will be taken after the specified time has elapsed.

[Selecting the 10 SEC self-timer]

INFORMATION

● When taking a picture using the self-timer, the self-timer lamp works as follows:
   2 second self-timer setting : The 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.
● While the remote controller icon is selected, the self-timer in front of the camera blinks in 1 second cycle.

Self-timer( ) / Remote( )/ Right button

● Using the remote controller.
   1. Turn the mode dial to select shooting mode except the voice recording mode and movie shooting mode.
   2. Press the self-timer ( ) button repeatedly until the remote controller icon ( ) is displayed in the LCD.
   3. Press the remote controller shutter button for a 2 seconds delayed shooting.

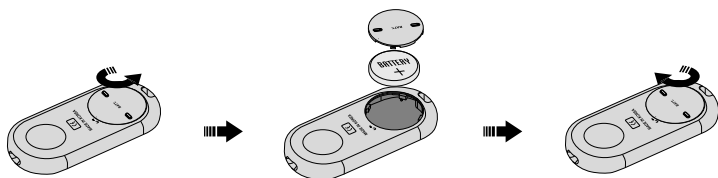[Remote controller shutter button]

4m

30°

30°

4m

5m
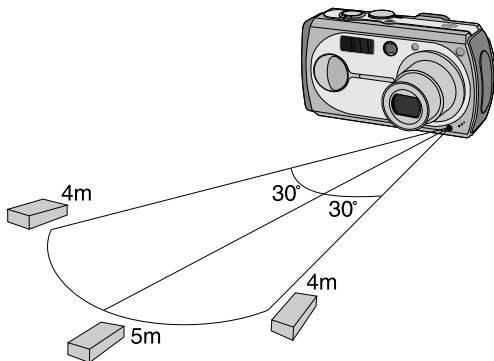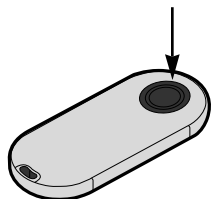
● Replacing batteries for the remote controller
   Make sure the + polarity is toward the top and the . polarity is toward the bottom while installing batteries for the remote controller.
   Replace batteries for the remote controller in the local service center.
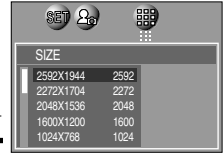   Use the CRV2025 3V batteries.

MENU/ OK button 430 34 상단

■ If the menu is displayed, use the 5-Function buttons to change the data values and for your changes to be accepted

■ If the menu is not displayed, press the MENU/OK button to display a menu for the current camera mode on the LCD monitor. Press the button again to return to the previous state.
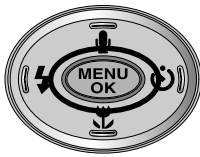
Pressing the MENU button

[Menu off] [Menu on]

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

S button

■ You can use the S button to adjust the values for the exposure compensation, white balance, ISO, RGB, A/S/M mode and longtime shutter.

Main menu	Sub menu	Available camera mode
Exposure compensation	-2.0 ~ 0.0 ~ +2.0(0.5EV steps)	**P** **A** **S** My SCENE
WHITE BALANCE	AUTO, DAYLIGHT, CLOUDY, FLUORESCENT H, FLUORESCENT L, TUNGSTEN, CUSTOM.	**P** **A** **S** **M** My SCENE
ISO	AUTO, 50, 100, 200, 400	**P** **A** **S** **M** My

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S button

Main menu	Sub menu	Available camera mode
RGB	R(Red), G(Green), B(Blue)	**P** **A** **S** **M** My 🎥 SCENE
A/S/M mode	A(Aperture priority mode), S(Shutter speed priority mode), M(Manual mode)	**A** **S** **M**
LT	Shutter speed, Aperture value (Changed by zoom scale)	🌙

■ Exposure compensation : This camera automatically adjusts the exposure according to the ambient lighting conditions. You can also select the exposure value by using the S button.

● Compensating Exposure
 1. Press the S 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 OK button.
  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.