

SPECIAL FEATURES

Thank you for buying a Samsung Digital Camera.
This digital camera possesses the following features.

- ▶ A high resolution image of 2.1 mega pixels
- ▶ 3x optical zoom lens and 2x digital zoom
- ▶ Moving image function
- ▶ Printing date/time on still image
- ▶ USB interface function by Mass Storage Driver
- ▶ 1.8 inch TFT LCD monitor

SYSTEM REQUIREMENTS

▶ For Windows

Computer : A personal computer with a processor more advanced than MMX Pentium 200 MHz.
Operating System : Windows 98/98SE/2000/ME
Memory : Minimum 32MB RAM
Others : USB port
140MB of available hard-disk space
16 bit color display adapter and compatible monitor a desktop area of 800 by 600 pixels
(24 bit color display adapter, True color display recommended)

▶ For Macintosh

Computer : PowerMac G3, G4, G4 Cube, iMac, PowerBook G3, G4, iBook series with USB Port
Operating System : Mac OS 9.X
QuickTime 4.0 or later
Memory : Minimum 64MB RAM

THIS DIGITAL CAMERA CAN BE USED FOR

- * Viewing images on TV
- * Recording images onto CD
- * Printing images
- * Editing images on a PC

THIS DIGITAL CAMERA CAN BE USED FOR

- * Creation of a digital photo album
- * Inserting images directly into any electronic document
- * Taking a self-portrait and using the image to personalize name cards
- * You can even create your own unique gift-wrap paper by using your digital images.

INFORMATION TO USER:

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation; if this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1. Reorient / Relocate the receiving antenna.*
 - 2. Increase the separation between the equipment and receiver.*
 - 3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.*
 - 4. Consult the dealer or an experienced radio/TV technician for help.*
- Shielded interface cable has to be used to ensure product compliance.

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

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- Prior to using this camera, please read the user manual thoroughly.
- Keep the manual in a safe place.

About the image mark

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.

The image marks are :



Warning

This is a descriptive statement warning of the result if the instructions are ignored or not understood.



Note

This explains use of the camera, please refer to this.



Reference

This should assist further in the operation of the camera.

A 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 a 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 camera and affected device.
- Use a different socket away from the affected device.
- Please contact a Samsung agent or a radio/TV engineer.

SAFETY NOTE

WARNING

- 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.
- Do not use the flash in close proximity to the people or animals. Positioning the flash too close to your subject's eyes, may cause eyesight damage.
- Do not attempt to photograph children using a flash, closer than a 1 meter proximity.
- When taking photographs, never point the lens of the camera directly into very strong light. This may result in permanent damage to the camera or your eyesight.
- Please do not use this product in close proximity to flammable or explosive gases, as this could increase the risk of explosion.
- Please keep this product away from children or animals or the following accidents may occur.
 - Choking on the camera strap
 - Swallowing batteries or small camera accessories.
 - In case of accidents, please consult a doctor immediately.
 - There is a risk of permanent eye damage if the flash is operated at a distance of less than one meter from a person's eyes.
 - There is a possibility of injury from the camera's moving parts

SAFETY NOTE

WARNING

- Should any form of liquid 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 use the camera if any foreign objects have entered the camera. Turn the camera power (batteries or AC power Adapter) off. Then 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. CF CARD slot and battery chamber. This may cause a fire or electric shock.
- Do not operate this camera with wet hands.

SAFETY NOTE

NOTE



- 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 case or cause a fire.
- Always use the camera and its accessories in a well-ventilated area.
- Leakage, overheating, or burst batteries could result in fire or injury.
- Do not short circuit, heat or dispose of batteries in fire.
- Do not use old batteries with new ones, or mix brands of batteries.
- Ensure the batteries are positioned correctly with regard to polarity (+ / -).

SAFETY NOTE

NOTE



- When the camera is not in use for long periods, always unplug the camera from its power source (batteries or AC Power Adapter) for safety purposes.
- Leaking batteries can cause fire and pollution to the environment.
- Do not radiate on the state that you close luminous part of flash. And be careful not to contact your hand to luminous part after continuous radiation.
- There is a danger you get burnt in hand.
- Contact your dealer or Samsung Camera Service Center to request interior cleaning every two years.
- Allowing dust to accumulate in the camera over a long period is hazardous as extreme circumstances may cause a fire. It is best to clean your camera prior to seasonal periods of high humidity.
- Consult your dealer or Samsung Camera Service Center for information on the cost of cleaning your camera.
- Do not move the camera while it is switched on. If you are using the AC Power Adapter, unplug the adapter from the AC Power wall socket after you have switched off the camera.
- Failure to do so may damage the cords or cables and cause a fire or electric shock.

MANUFACTURE'S CONTENTS

MANUFACTURE'S CONTENTS

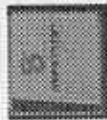
■ Please check that you have the correct contents before using this product.

Digital camera



CompactFlash™ card

(CF CARD)



4 AA Alkaline

Batteries



Pouch



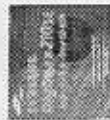
Video cable



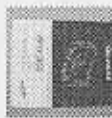
USB cable



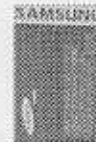
Applications S/W
Driver CD-ROM



User manual



Product warranty



Lens cap



Lens cap
retaining cord



AC Adapter
(optional)

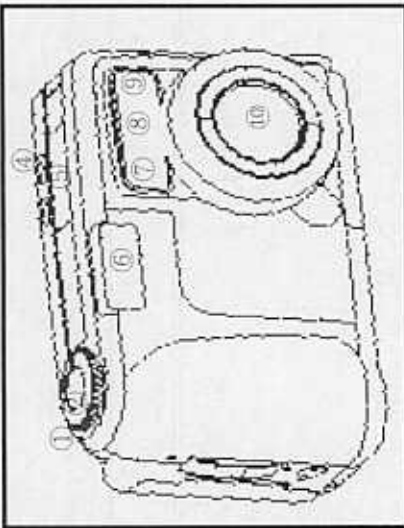


Camera strap



IDENTIFICATION OF FEATURES

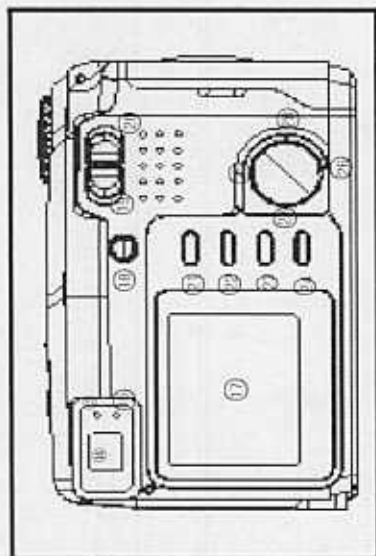
Product Exterior (Front)



- ① Mode dial
- ② Shutter button
- ③ Select button
- ④ Scroll button
- ⑤ LCD panel
- ⑥ Flash
- ⑦ Self-timer lamp
- ⑧ Viewfinder
- ⑨ Flash fading control sensor
- ⑩ Lens

IDENTIFICATION OF FEATURES

Product Exterior (Rear)



- ⑭ Viewfinder
- ⑮ Autofocus indicator (Green LED)
- ⑯ Flash indicator (Red LED)
- ⑰ LCD monitor
- ⑱ Power button
- ⑲ Zoom button (W) (WIDE)
- ⑳ Zoom button (T) (TELE)
- ㉑ LCD button / DRGF button

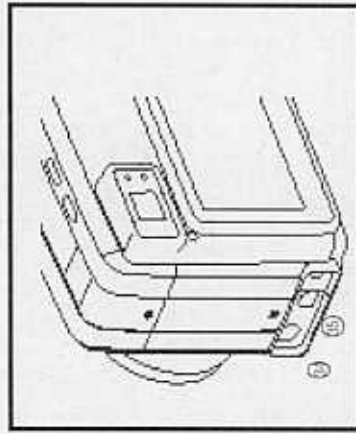
IDENTIFICATION OF FEATURES

Product Exterior (Side)



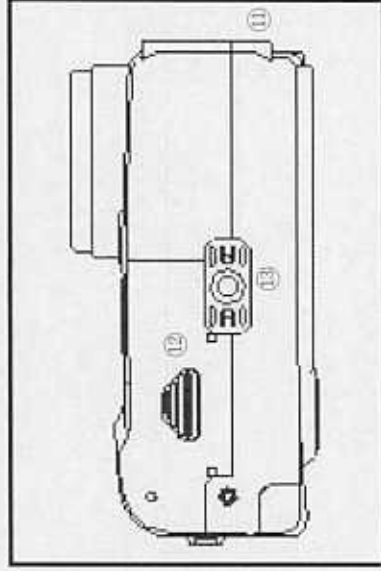
- ① Menu button
- ② Status button / **ERASE** button
- ③ **ENTER** / button
- ④ Direction button : Up
- ⑤ Direction button : Down
- ⑥ Direction button : Left
- ⑦ Direction button : Right
- ⑧ Strap eyelet
- ⑨ Card cover

- ① Memory card slot
- ② Card eject lever
- ③ DC input connection point
- ④ Video connection terminal
- ⑤ USB connection terminal



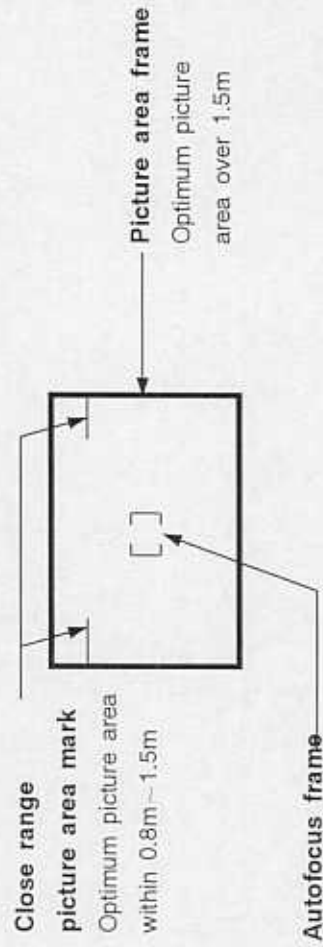
IDENTIFICATION OF FEATURES

Product Exterior (Bottom)



- ① External interface cover
- ② Battery chamber cover
- ③ Tripod socket

Viewfinder



IDENTIFICATION OF FEATURES



Reference

Vertical and Horizontal shots are taken in the same way



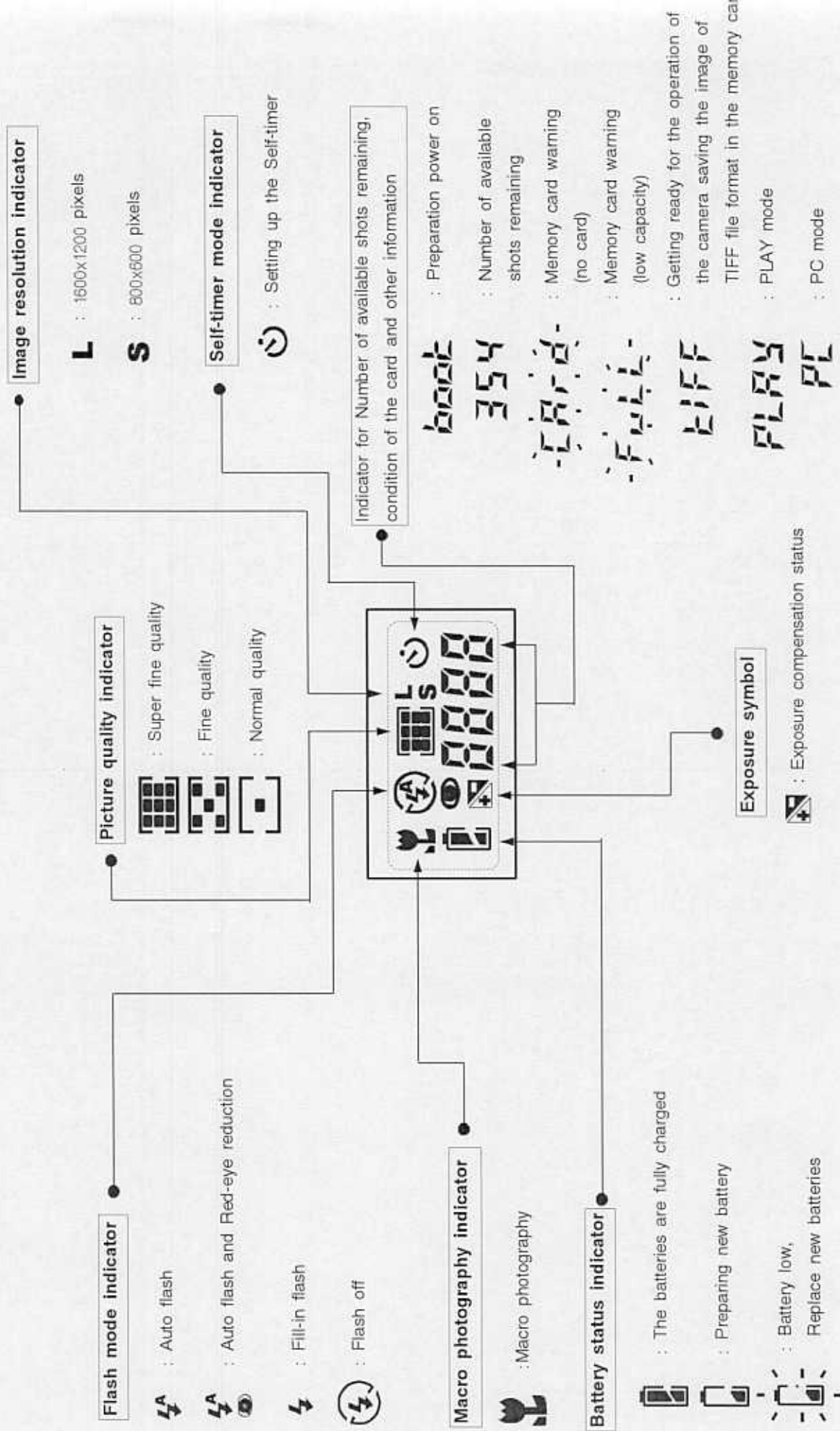
Note

Please use the LCD monitor when using Macro mode (0.2-0.8m).
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 the shot.

Refer to next page

IDENTIFICATION OF FEATURES

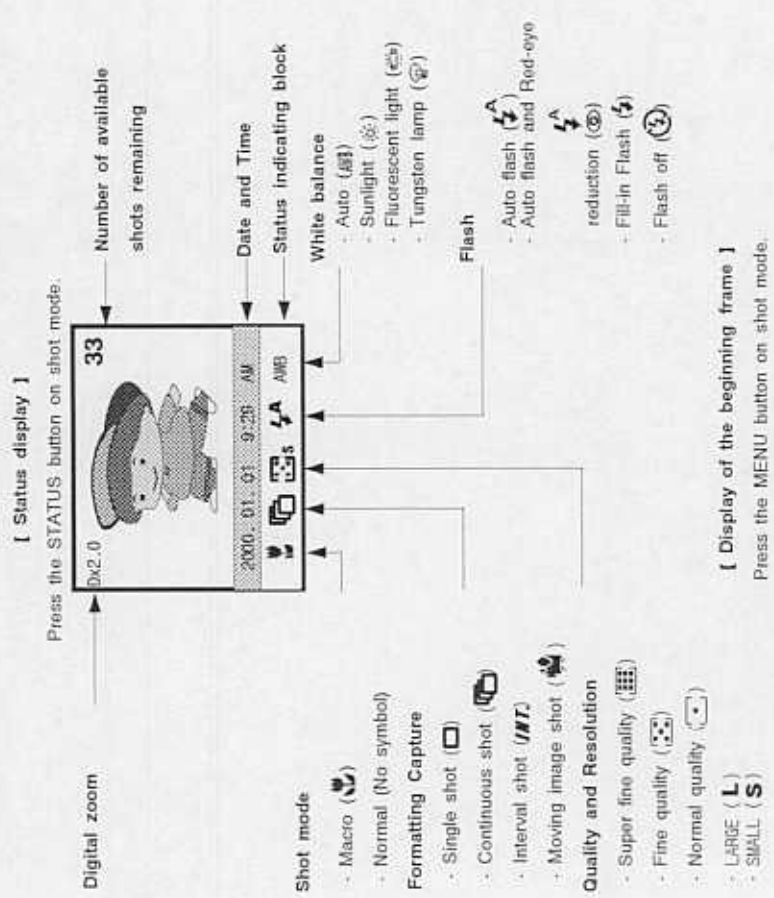
LCD panel indicator



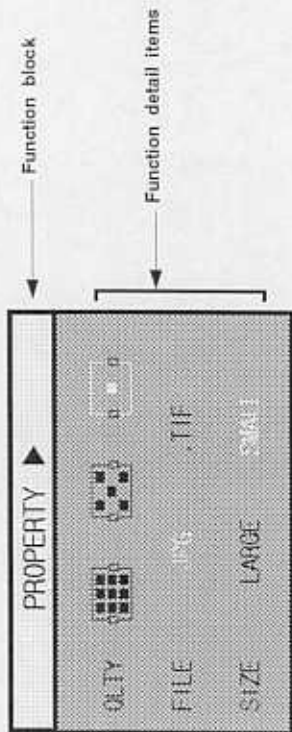
IDENTIFICATION OF FEATURES

LCD monitor symbol

- Symbol for shot mode (Macro /Normal)

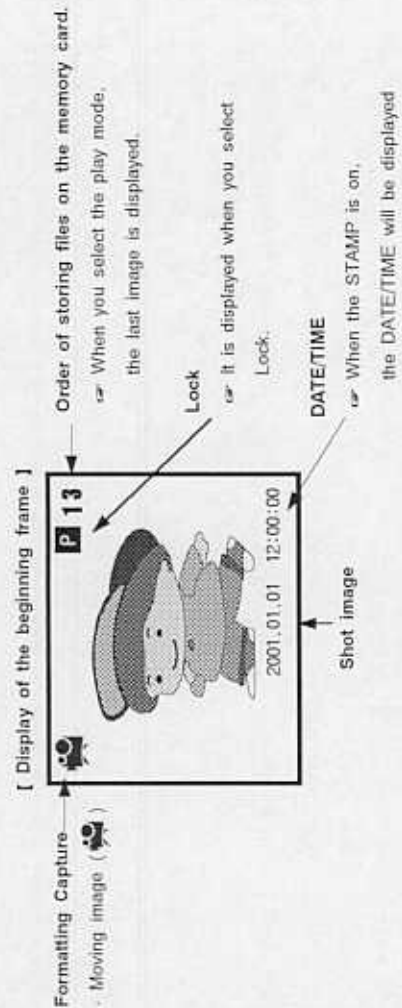


[Display of the beginning frame]
Press the MENU button on shot mode.

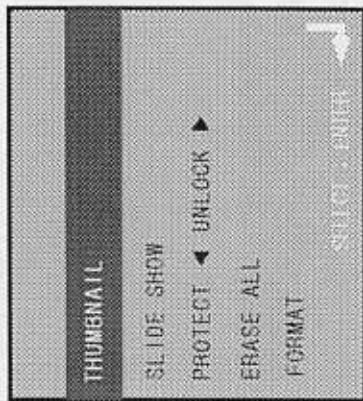


IDENTIFICATION OF FEATURES

- Play mode (▶) symbol



[Display of the beginning frame]
Press the Menu button on play mode.

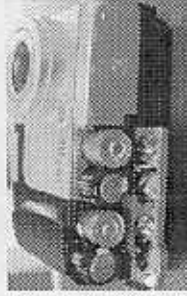
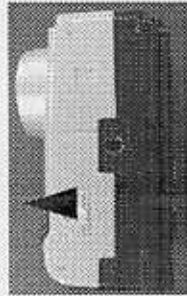


Connecting to Power

There are two ways in which to provide the camera with power. One is using batteries (AA Alkaline), alternatively use an AC Adapter (DC 6V / 1.5A).

■ Using the batteries

- 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.



■ Battery status indicator

You can check the battery life on the camera status LCD



: The batteries are fully charged



: Preparing a new battery



: There are no batteries capacity,
Replace new batteries



Reference

This camera will automatically switch off when not in use for a period of time.
For more information regarding auto power off, please refer to the power off section on page 69



Note

- ▶ Important information about battery usage
 - Please remove the batteries if the camera will not be used for long periods.
 - Batteries can lose power over time and are prone to leak if kept inside the camera.
 - Do not use manganese batteries as they cannot deliver sufficient power
 - Low temperatures (below 0°C) can cause the camera to work for a shorter period of time due to reduced battery performance.
 - However the batteries will recover at normal temperatures.
 - Do not use old and new batteries or different types together.
 - Extended use of the camera may cause the camera body to warm up. This is perfectly normal
 - If you are planning to use this camera for long periods of time, it is advisable to use an AC adapter.

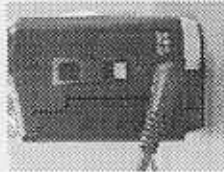
■ Using the AC power adapter

If you have access to a main supply, using an AC Adapter allows the camera to be used for long periods of time.

Plug the adapter into the connection point (DC 6V IN) on the camera.

Please ensure that you use an AC adapter with the correct specification for the camera.

Failure to do so may affect your warranty.



Warning

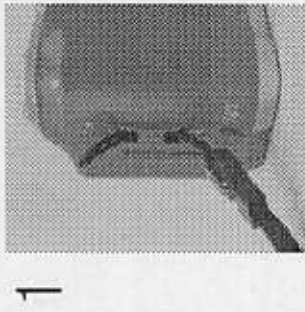
Always turn off the power before taking the AC adapter out of the main supply.

Keep the metallic part of camera or AC adapter away from any metallic material to prevent fatal damage.

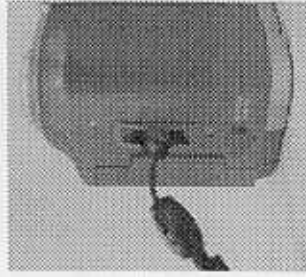
Attaching the strap

To prevent accidental damage to the camera, always use the strap.

■ Refer to the illustrations below



1



2

Attaching the lens cap

Use the retaining cord to prevent loss of the lens cap.

■ Refer to the illustrations below



1



2



3

※ After using, keep the lens cap in connection with a strap

Inserting CF CARD

- 1 Pull the card cover in the direction of the arrow to open.
- 2 Insert the card towards the arrow.
- 3 To close, push the card cover against the arrow until you hear a click.



Removing CF CARD

- 1 Turn the power off using the power button.(1)
- 2 Push the Card eject lever(2) down.
- 3 Remove CF CARD as shown in the picture.



Reference

Using an 8MB compact flash memory card, the specification shooting capacity will be as follows. (This is based on the conditioning standard of our company.)

Image resolution	Recorded picture quality	File format	number of shots
1 (1660 × 1200 pixels)	Super fine quality	TIF	1
		.JPG	6 ± 1
	Fine quality Normal quality	.JPG	14 ± 1 22 ± 2
3 (900 × 500 pixels)	Super fine quality	TIF	5
		.JPG	28 ± 2
	Fine quality Normal quality	.JPG	59 ± 3 87 ± 6

The number of the normal shots can be varied according to the type of the compact flash memory card.

Instructions on how to use CF CARD

- **Using a new CF CARD for the first time**
 - Before using the CF CARD, it must be initialized.
 - Initializing prepares the CF CARD for recording data.
 - For more details, please refer to the page 83



Note

If used over extended periods, a CF CARD may deteriorate and its performance may be impaired. If this occurs, it is best to replace with a new CF CARD.
Should this be the case, you will need to purchase a new CF CARD.
Always turn the power off when replacing the CF CARD.

■ Preserving the CF CARD data

- If the card is subjected to any of the following, the recorded data may become corrupted:
 - When the CF CARD is used incorrectly.
 - If the power is switched off while initializing, reading or removing the CF CARD.
- It is advisable to copy important data onto other media as back-up e.g. floppy disks, hard disks etc.
- Samsung cannot be held responsible for lost data.

Instructions on how to use CF CARD






Note

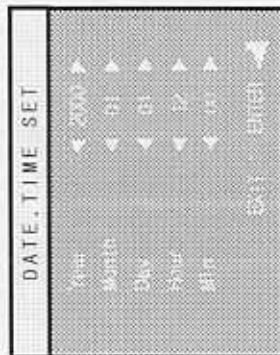
▶ Important information whilst using the CF CARD

- If you switch off this camera while it is reading, initializing or playing, the information on the memory card may be corrupted.
- The CF CARD is an electronic precision device.
- Do not bend, drop or subject the card to any heavy impact.
- Do not store the CF 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 of temperature.
- Do not allow the CF CARD to come into contact with dirt.
Should this happen, clean the dirt off with a soft cloth.
- Please keep the CF CARD in its case when not in use.
- During and after periods of extended use, you may notice that the CF CARD is warm.
This is perfectly normal.

READY

Selecting the date and time

- 1 Please select the date and time when you use the camera for the first time
- 1 Turn on the power by pressing the Power button. <4 direction buttons>

- 2 Set the mode dial to the shot mode. (macro /normal )
Press the MENU button.
- 3 When the LCD monitor is automatically turned on, the setup MENU screen is displayed.
- 4 Move to the function block [SYSTEM] by using the RIGHT button(→) among the 4 direction buttons.
- 5 Move to the detail function list [DATE/TIME] by using the DOWN button(↓) among the 4 direction buttons and press the ENTER button and then the next frame is displayed.
- 6 Select the right Date and Time by using the 4 direction buttons on the next 'selecting date and time' frame and press the ENTER button and then you go back to the setup MENU screen and the [DATE/TIME] is displayed as is updated.
- 7 The MENU mode is canceled if you press the MENU button and the setup is completed.



Reference


The selection range for date/time setup covers from 2000~2050. (It is automatically programmed to allow for a leap year/ month)
It is originally set as [2000/01/01 00:00]
If 1 minute passed where the camera did not have batteries in it, you will need to check date/time.
Refer page 70 for more details "setting up date and time".

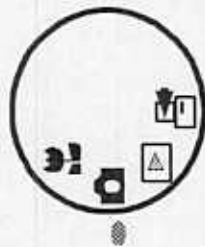
CAMERA WORKING MODE

Camera working mode

- You can select the appropriate working mode by using the mode dial located at the top of the camera.
This digital camera has 4 working modes, these are listed below.

▶ Macro shot mode ()

This mode is used for close range photography between 0.2 m ~ 0.8 m. The flash off () is set up to operate automatically but you can set the flash mode to your own preference.



[Mode dial indicator]



Note

When using the Macro shot, you may need to use a tripod to avoid camera shake.

CAMERA WORKING MODE

Camera working mode

▶ Normal shot mode ()

This mode is used for normal pictures from 0.8 m ~infinity. In this mode, the camera uses auto exposure, auto white balance, auto focus and the images are stored on the memory card.

▶ Play mode (/ *PLAY*)

In this mode, the stored images on the memory card can be viewed on the LCD monitor on the back of the camera or on an external monitor using a video output terminal.

You can choose image play, 9 thumbnail screen, slide show, image protection, image deletion or memory card formatting.

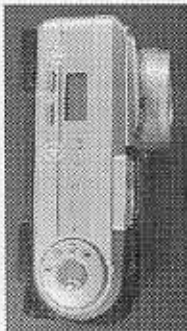
▶ PC mode (/ *PC*)

The computer recognize the camera as Removable Disk when they are connected by USB cable. And you can transfer images between the computer and the camera.

TAKING PHOTOS

Now let's take a picture

- 1 To switch on the camera, press the POWER button(1).
 - The beep is activated whenever the power is turned on.
 - The indicator (bold) on the LCD panel indicator and the condition indicator lamp(green) next to the viewfinder blink while the camera is getting ready for the operation, and they go out when the camera is ready for shots.



- 2 Select the desired mode (Macro or Normal) according to picturing range by using the mode dial(2) on the top of a camera.

- Macro() : between 0.2m ~ 0.8m
- Normal() : photography range 0.8m - infinite



Note

- You cannot get the clear image of the object if you don't select the suitable shot mode(normal shot or macro shot)according to the distance between the object and the camera.
- Avoid obstructing the Flash fading control sensor when you take a picture. A picture can be spoiled when a finger, hair or camera strap is in front of the Flash fading control sensor

3

Select the suitable image quality and recording size with the SCROLL button(3), the SELECT button(2) without LCD monitor.

- Refer to the page 38 ~ 47 about the shot mode using the LCD panel indicator.

TAKING PHOTOS



Reference

- If there is insufficient memory available. The [FULL] mark is blinked on the LCD panel.
 - If you press halfway the shutter button for the shot when LCD monitor is on, the following message is displayed.
 - If you want to use the LCD monitor, simply press the LCD button.
- CARD IS FULL!
INSERT
NEW CARD
- If the beep is on, the card capacity short warning sounds(beep-beep).
 - To optimise the amount of memory on the camera, replace the memory card or delete unnecessary images stored on the memory card.

4

Set up the picture function by using the LCD panel and the menu screen on the LCD monitor.

Refer to the page 48 ~71 about the selecting the shooting function using the MENU screen on the LCD monitor.

5

Decide the picture composition that you want to achieve by using the optical viewfinder or the LCD monitor.

In macro shot mode, you should compose your picture composition using the LCD monitor.



Note

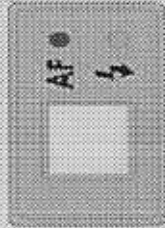
- Extensive use of the LCD monitor to view the potential picture will drain the batteries in a short period of time.
- To safeguard against this, please use the optical viewfinder.

- When taking pictures, squeeze the shutter button gently to avoid camera shake.
- If you press the shutter button down halfway, the autofocus will be activated and the status of the flash will show.
- If you press the shutter button down fully, the picture will be taken and the data regarding the picture will be stored.



Reference

- ▶ LED status is situated next to the viewfinder.
- Half press the shutter button, if the camera is in focus, the green LED will light up.
- The red LED indicates the flash mode.
- The red LED light flashes it means that the flash is charging.
- When an image has been stored onto the memory card, the green lamp flashes slowly. When the image data was stored, the green LED light will go out.
- After the green LED light has gone out, you can resume taking pictures.



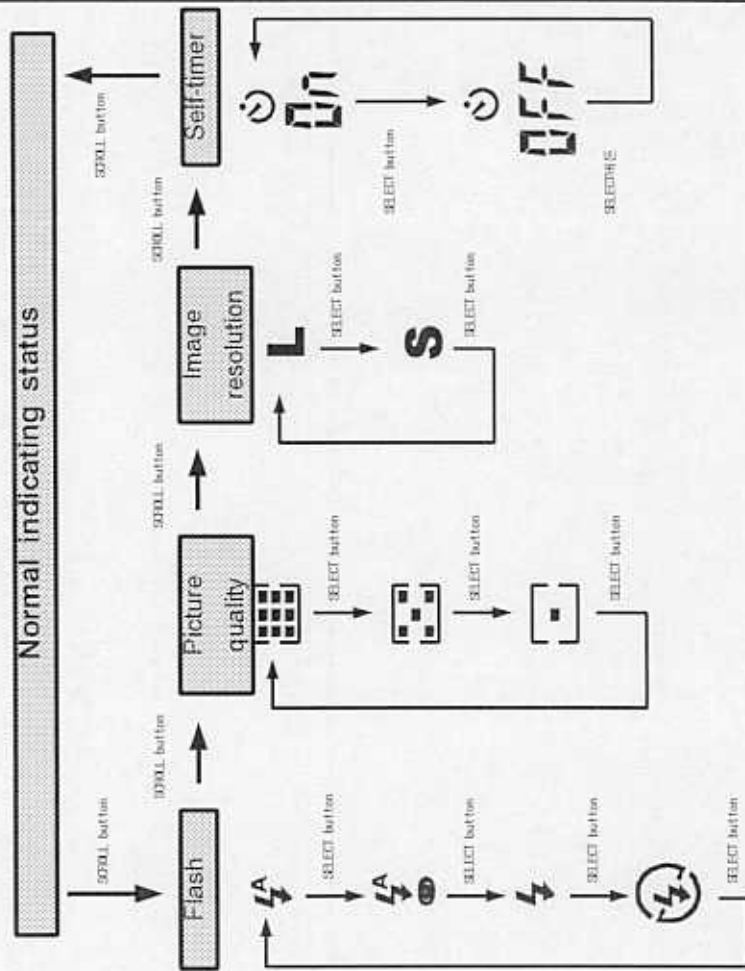
Note

- ▶ Under certain conditions the auto focus system may not perform as expected.
- When photographing an object that has little contrast, if the subject is highly reflective or shiny, if the subject is moving at high speed.
- When there is an object that has only horizontal lines or a thin object within the autofocus range.
- If taking near and far objects at the same time within autofocus mark range.
- When there is strong reflected light, or when the background is very bright.
- ▶ When it is dark on macro shot mode, shooting is dissuaded because no clear picture can be taken, and the Autofocus control will not work.
- ▶ If it gets dark in normal shot mode, zoom range is limited up to 1.6X. If the illuminance is less than 5.6Lv, the focus range is fixed to 1.4m, so the object only between 1.0-2.2m will be captured clearly.
- ▶ Warning of hand shaking
- Push the shutter button about a half in flash off mode and if a red lamp flickers fast, it is a warning of hand shaking. In this case, use a tripod or change the mode into flash shot mode.
- ▶ Backlight compensated shot
- Since the image can be shown dark if you take it facing the sun, please use the exposure compensation (refer to page 47) or press the ENTER() button after the LCD monitor is on and then the indicator is on. When you shot under this condition, the exposure is corrected because the center waited metering of the object is shot with the side light.

SETTING UP SHOOTING FUNCTION

Setting up the shooting function by using the LCD panel

- Using the LCD panel indicator set mode, you can set the following:
(Flash / Picture quality / Recording size / Self-timer function setting)
 - The SCROLL button allows you to select certain features which will flash when available for selection.
 - Using the SELECT button allows you to set that particular function as you wish. (The selected detail function indicator blinks.)
- ※ SELECT button doesn't work in the normal indicating status.



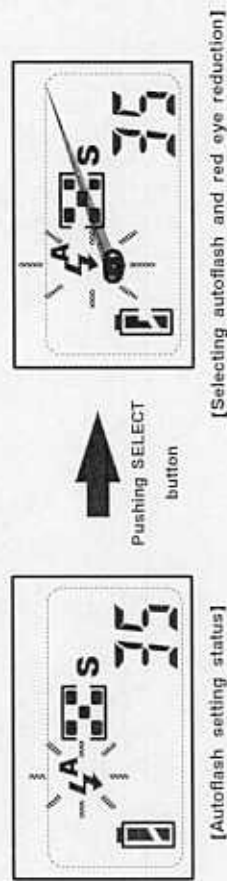
SETTING UP SHOOTING FUNCTION

■ Indication of set mode (ex. setting of flash mode)

- If a normal indicating status changes into set mode, the present function symbol of a selected function block flickers (the present set autoflash symbol flickers as shown).

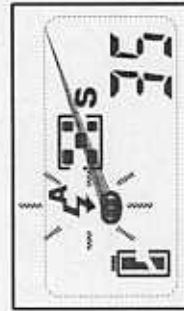


- Whenever you push the SELECT button, a detailed function symbol of the selected function block flickers.



SETTING UP SHOOTING FUNCTION

- 3 If you change the function block by using the SCROLL button, the previous function block will not flicker and the present set detail function block flickers.



[Selecting autofocus and red eye reduction]



[Fine quality setting status]

- 4 If you want to cancel the setup mode, press the SCROLL button until it changes into the normal indicating status.

Also it can be canceled in the situations below.



Reference

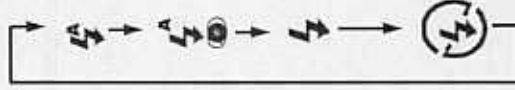
- ▶ Cancel of LCD panel indicator SET mode.
SET mode is canceled automatically when following these instructions.
When you press the zoom button(Wide or Tele).
When you press the shutter button or menu button.
When you operate the mode dial.
If the power goes off.
- ▶ The information on the external screen will be exactly the same as on the LCD monitor (but, the self-timer can only be set on LCD panel).
- ▶ You cannot select the shooting function using the SCROLL button and the Select button while you set up the shooting function on the LCD monitor.

SETTING UP SHOOTING FUNCTION

Shooting Function details using LCD panel indicator

Select the Flash mode

- Four different flash modes can be selected using the SELECT button. The mode will be shown in the camera status LCD.
- Use the correct flash to suit the environment.
- Flash mode indicator



Auto Flash : If the object that is being photographed is too dark, the camera flash will work automatically.

Auto Flash and Red eye reduction : The flash will work automatically if there is not enough light. The problem of red eye will also be reduced.

Fill-in Flash : If the background behind the object is very bright, fill in flash will safeguard against that object appearing too dark in the photo. The result should be an acceptable lighting balance.

Flash off : The flash is disabled.

Reference

- 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.



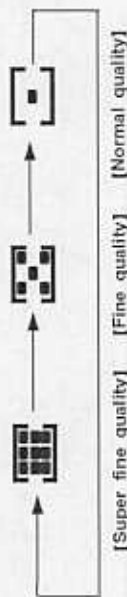
Note

- Please photograph within the flash shot range(W: 0.2-3m, T:0.2-2m). The image is saturated when you take it with a strong reflector or at close range.

SETTING UP SHOOTING FUNCTION

Select the quality mode

- Using the SELECT button in the image quality mode, allows three types of image quality to be selected. (The selected image quality will flash.)



- The capacity of memory is determined by the quality of image that is selected. You can obtain three types of image quality.
- Select the appropriate image quality from the previous 3 modes.



Reference

- The image file is normally stored in *.jpg but selecting the highest image quality enables *.tif files to be used. Refer to page 55 for details of selecting the image file format.
- You can get the best quality shot with *.tif file which is for the professionals. However, The number of the shot is decreased and the time it is saved in the memory card is lengthened.

SETTING UP SHOOTING FUNCTION

Select the image resolution

- You can choose the file size (large or small) by using the select button to set (L) or (S).
- If the image resolution is large, the capacity for remaining pictures will decrease.

L : 1600 x 1200 pixels

S : 800 x 600 pixels



Reference

- The picture quality and image resolution determines the number of images that can be shot. The image resolution stored in the memory card can not be changed once an image is captured, the size of the stored file cannot be altered.

Select the self-timer mode

- This function is used when the photographer would also like to be in the picture.
- Whenever you press the SELECT button on the self-timer mode set status, the (ON/OFF) symbol flashes on the LCD panel indicator.
- If you select (ON), the indicator () is displayed under the normal indicating status.
- It is taken after 10 seconds when you press the shutter button and after that, the self-timer is canceled.



Reference

- The self-timer LED indicator (red) will flash while the self-timer is shooting
 - 7 seconds after pressing the shutter button the LED will flash slowly in 1 second intervals.
 - In the last 3 seconds the LED light will flash in 1/2 second intervals.
- If the sound function is in operation, the camera will beep in 1 second intervals to warn you when the picture will be taken.

SETTING UP SHOOTING FUNCTION

Other indicating items of LCD panel indicator

Macro picture indicator

- If you select macro shot mode, a symbol will appear on the LCD panel indicator.
- If you select the normal shot mode, the symbol will disappear.

Battery status indicator

- The battery status symbol of the LCD panel indicator is shown below.



· The batteries are fully charged



· Preparing a new battery



· There are no batteries capacity. Replace new batteries

Exposure compensation status mark

- If you select exposure compensation in setup MENU mode on the LCD monitor, a symbol () will appear on the LCD panel indicator.

- Refer to the page 67 about exposure compensation status.
- If you select exposure compensation 0, the symbol () will disappear

SETTING UP SHOOTING FUNCTION

Indicator for the number of the remaining shot, condition of the card and other information

- According to the condition of the camera and memory card, it is shown on LCD panel indicator as below

■ Camera condition indicator

(BOOT) Indicator on LCD panel blinks if you press the power button.

- (BOOT) Indicator is canceled when the camera is ready for the operation.

■ When the memory card is set up properly.

Number of available shots remaining is determined by the picture selected and image resolution.

- The maximum available pictures will be 9999(subject to memory size and picture quality).

■ When the memory card is not set up properly

(CARD) symbol flashes on the location of available shot indicator.

- If there is no card, a beep will sound

■ When a memory card is set and there is short capacity

symbol (Full) will flash on the location of available shot indicator.

- If the sound function is on, the card memory capacity short warning sound will

■ When you are saving the *.tif file form image in the memory card

The (Tiff) indicator blinks on the [indicator for the number of the remaining shot]

- When the saving to the memory card is completed, the (Tiff) indicator is canceled.

SETTING UP SHOOTING FUNCTION

Indicator for the camera error

- When the error occurs while the operation of the camera, the indicator (Err) on the photographing information indicator blinks.
- Refer to the page 92 about the detail information about the occurrence of the error.



Reference

- When the memory capacity is low, it will not be possible to take a picture.
- A warning will sound regarding low memory or no card, and will sound in the following events.
 - When you have pressed the shutter button.
 - When you have used mode dial.

Digital Zoom



Reference

- Because this camera can support 2x digital zoom, if you use it with 3x optical zoom, it is possible to take picture of 6x zoom almost.
- Digital zoom is only possible when the LCD monitor is turned on.
- if you push zoom button T (TELE) in the state that 3x optical zoom is set up, digital zoom setting is possible.
- Digital zoom is divided into 2 grades like (DX 1.5, DX 2.0) and this grade is displayed on the left top of the LCD monitor according to zoom magnification.

SETTING UP SHOOTING FUNCTION

Digital Zoom

- Working DIGITAL TELE
 - If you push zoom button T, software tele zooming is processed
 - If you finish pushing zoom button T, software tele zooming is ended
 - If digital zoom is achieved to 2x zoom, digital zooming will be finished without operation of zoom button T.
 - Working DIGITAL WIDE
 - If you push zoom button W, software wide zooming is processed.
 - If you finish pushing zoom button W, software wide zooming is ended.
 - If you continually push the W button on the state of digital zoom cancel, 3x optical zoom is also canceled.
- If you take pictures on the digital zoom mode, please wait until the saving is completed because it takes some time to save the taken image in the memory card.
 - It is impossible to use the digital zoom shot in continuous shot, interval shot and moving image shot, and it is canceled.
 - When it's low illuminance, Digital zoom is automatically canceled and optical zoom rate is automatically changed with 1.6X.

SETTING UP SHOOTING FUNCTION

Setting up the shooting function by using the LCD monitor

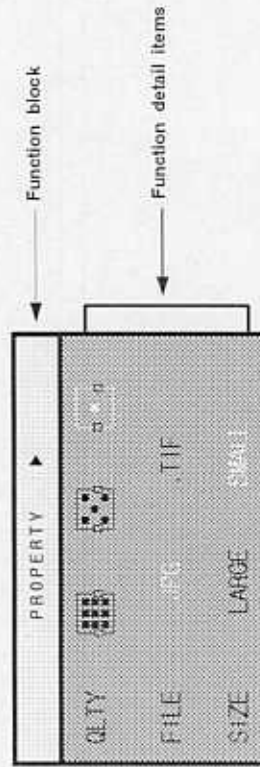
- If you press the MENU button on the state of power on, the menu status will be displayed on the LCD monitor.



Reference

- In the following cases, the setup MENU mode is not available.
 - When another button is pressed.
 - While image data is being processed, (when the green LED beside viewfinder flashes)
 - When there is no battery.

- The setup MENU mode indicator of the (Macro / Normal) mode status.
- 1 If you press the menu button, the menu screen will be displayed.



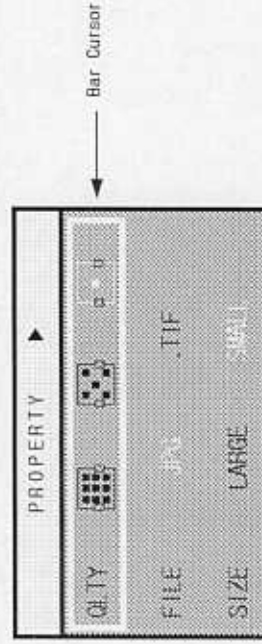
SETTING UP SHOOTING FUNCTION

- The function block name is displayed on the top of the LCD monitor.
 - ☞ The indicator (▶) means there is another function block.
- The function detail items are displayed in the middle of the LCD monitor.
 - The bar cursor area can determine the status of the camera.
 - ☞ In the above picture, the present function is set in a standard picture quality / JPEG file format/ SMALL size.

- 2 The menu set mode is divided into 4 function blocks.
 - Select the function block by using the left/right directional button.



- 3 After selecting a function block, move the bar cursor into the function detail item that you want by using the up or down directional button.
- 4 When you press the direction buttons, the bar cursor will move accordingly.
 - ☞ The present status changes into the bar cursor marked function.



SETTING UP SHOOTING FUNCTION

- 5 Change into the set status that you want repeating steps 2,3 and 4.
- 6 If you want to finish a set mode, press the MENU button again.
 The menu screen will disappear and the camera image will be displayed on the LCD monitor.
 However, the moving images are displayed on the LCD monitor at normal shot mode only when you press the LCD button.



Reference

The operation of the direction buttons.



- The UP (↑) direction button - moves the bar cursor up
- The DOWN (↓) direction button - moves the bar cursor down.
- The LEFT (←) direction button - moves the bar cursor left.
- The RIGHT (→) direction button - moves the bar cursor right.

SETTING UP SHOOTING FUNCTION

The following options are available on the LCD monitor by pressing the menu button

- Setup MENU mode composition of (Macro/Normal) shot mode

Function block	Function detail items			
PROPERTY	QLTY			
	FILE	.JPG	.TIF	
	SIZE	LARGE	SMALL	
	TYPE		INT.	
CAPTURE	FLASH			
	STAMP	◀ OFF, DATE \ TIME, DATE ▶		
ADVANCE	W.B	AMB		
	E.V	◀ -2.00 ~ +2.00 ▶		
	D.ZOOM	ON	OFF	
SYSTEM	BEEP	ON	OFF	
	PWR OFF	◀ 0 ~ 10 ▶ MIN		
	LCD BRT	◀ ▶		
	DATE / TIME	2000. 1. 1.	00H 00M	
VIDEO	NTSC	PAL		

SETTING UP SHOOTING FUNCTION

1. PROPERTY

- QLT_Y (Picture Quality) : Select a compression rate
- FILE (File Format) : Select a format
- SIZE (Image resolution) : Select a resolution

2. CAPTURE

- TYPE (Capture Type)
 - Single shot.
 - Continuous shot : Allows you to continuously shoot individual pictures of a moving object.
 - Interval shot : This mode takes pictures at set timed intervals.
 - Moving image shot : It is saved as the moving images.
- FLASH
 - There are 4 flash modes: auto/ auto and red-eye reduction / fill-in flash / flash off.
- Select the most appropriate flash mode for the picture.
- STAMP
 - You can put DATE/TIME on still image
 - You can select DATE / DATE&TIME / OFF on LCD monitor.

SETTING UP SHOOTING FUNCTION

3. ADVANCE

This is for more special photographers who want to use advanced application modes.

- W.B (White Balance)
 - Different lighting conditions will affect the way the color appears on the image.
- This control helps to achieve a more natural color.
- E.V (Exposure Compensation)
 - You can select the exposure compensation.
- D.ZOOM (Digital Zoom)
 - You can set up or cancel the digital zoom function

4. SYSTEM

Sets the camera to your requirements.

- BEEP : You can select whether to have the beep on or off.
- PWR OFF (Auto power off) : The camera will automatically turn itself off if it is not used for a set period of time
- LCD BRT (LCD bright) : Here you can control the brightness of the LCD monitor.
- DATE/TIME : This function sets the date and time on the camera.
- VIDEO (Video output) : you can choose from either (NTSC or PAL) video output.

Reference

Preserving settings

All shooting functions will be kept when the camera is switched off and on again.

Pre-set automatic setting are as follows.

Function block	Function detail items	
PROPERTY	FILE	JPEG File Format
	TYPE	Single ()shot mode
CAPTURE	FLASH	Macro()
		Normal()
ADVANCE	W.B	AWBmode
	E.V	0.00Evstatus

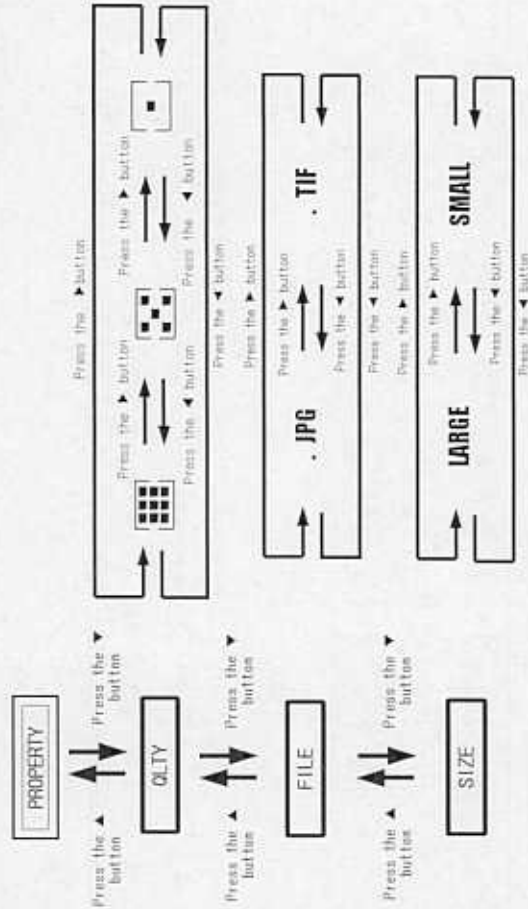
Note

When press the shutter button in the setup MENU mode of the LCD monitor, does not take picture.
Then press the MENU button to confirm your choice.

Detail item of function block

PROPERTY

Change the set status on the PROPERTY menu screen by using the 4 direction buttons.

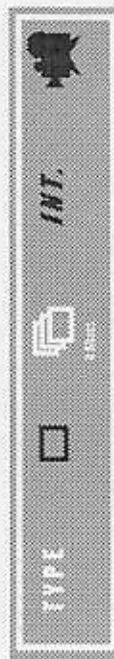


By selecting Q.LTY, you can change the compression rate of the picture.
Picture quality is good in this order. () < () < ()

SETTING UP SHOOTING FUNCTION

▶ Continuous shot

- You can take a number of pictures of moving objects.
- When the continuous shot is completed, it is automatically set up as single shot mode.



▶ If the ENTER button is pressed after selecting continuous shot, the LCD monitor will display the BURST SET menu, where the amount of shots requirement can be selected by using the direction buttons.



SETTING UP SHOOTING FUNCTION

1. The maximum number of continuous shooting pictures is determined by the selected image quality and image resolution.

	LARGE			SMALL
3 ± 1	6 ± 1	9 ± 2	12 ± 1	24 ± 2
				36 ± 3

2. By pressing ENTER button in the BURST SET menu, you will be able to return to the CAPTURE menu screen. The shooting number will then be displayed underneath the continuous shooting icon.
3. If you press the MENU button, the setup MENU screen is canceled and the camera is ready for the continuous shot.



Reference

- The flash will not work when continuous shooting is selected.
- In case of the *tif of the highest picture quality mode, the continuous shot mode does not work and you can use only single shot mode.
- If you want to stop the continuous shot while you are using it, press the POWER button.

SETTING UP SHOOTING FUNCTION

▶ Interval shot

- Setting interval shot allows you to take pictures of moving objects over a period of time, such as flowers or a sunset.
- The power will automatically switch off after interval shot is complete



The interval time(30 seconds) and the number of the interval shot are displayed.

- If the ENTER button is pressed after selecting interval shot, the LCD monitor will display the INTERVAL SET menu, where the interval time and the amount of shots can be selected by using the direction buttons.



SETTING UP SHOOTING FUNCTION

- At INTERVAL SET menu, you will be able to scroll through the time and shot options by using the 4 direction buttons. By pressing the ENTER button again, the CAPTURE menu screen will return with the updated information. If you press the MENU button, the setup MENU screen is canceled and the camera is ready for the interval shot.
- The minimum interval shooting time is 30 seconds and the possible interval shot number is from 2 to 99.
- The self timer lamp will flash rapidly in the last 5 seconds of interval shooting.
- When the camera is getting ready for the interval shot, the LCD monitor goes off and the (INT) blinks on the LCD panel indicator.



Reference

- The *.tif file of the highest picture quality does not support the interval shot.
- If you want to stop the interval shot while you are using it, turn the mode dial or press the POWER button

SETTING UP SHOOTING FUNCTION

▶ Moving image shot

- You can shoot a moving image up to a maximum of 30 seconds.
- When a shot is completed, it is automatically set up as single shot made.



Recording time of Moving image is _____ marked.

- If you press ENTER button after selecting Moving image shot, the MOVIE SET screen will appear. You will be able to change the REC SIZE and REC SIZE by using the direction buttons.



SETTING UP SHOOTING FUNCTION

- If you press the ENTER button after selecting the moving image, recording size & time with the 4 direction buttons on the MOVIE SET menu, it goes back to the setup MENU screen and the selected the moving image recording time is displayed as updated. If you press the MENU button, the setup MENU screen is canceled and the camera is ready for the moving image shot.
- If the setting time of moving image shot has not expired, the shooting will continue until it has finished, though you don't push the shutter button.
- If there is not enough space on the memory card, the moving image shot will be canceled.
- Image resolution and shooting time and file format of moving image shot as shown below.

Image resolution	Shooting time	File Format
192 x 144 Pixels	10 ~ 30 sec (5sec. Interval)	*.AVI
400 x 296 Pixels		







Reference

- The moving image shot is used only for wide.
- If you setup the moving image shot in dark places, "LOW ILLUMINANCE" mark will appear on the LCD monitor. At this time, because you cannot excellent moving image shot, please take the photos in the light.
- If you want to stop the moving image shot while you are using it, press the POWER button.
- The quality of the shot is set as (1/16) when you shot a moving image.
- That is, you can take pictures regardless of the selection of the picture quality on the PROPERTY function block.

SETTING UP SHOOTING FUNCTION

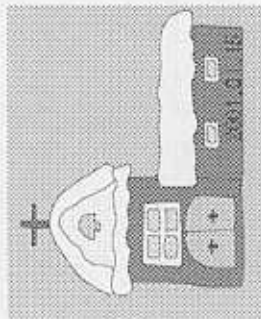
■ FLASH

- There are 4 flash modes.
- Select and use the proper flash mode according to the shooting conditions.
-  Auto flash : If an object or background is dark, a camera flash works automatically.
-  Auto flash and Red eye reduction : If an object or background is dark, the camera's flash works automatically and will reduce red eye by automatically using the red-eye reduction function.
-  Fill in flash : The flash will work when necessary, however if the background is too bright, the flash fading will come into operation and will also be controlled automatically. The brighter the background or subject is, the weaker the flash fading.
-  Flash off : The flash is disabled.

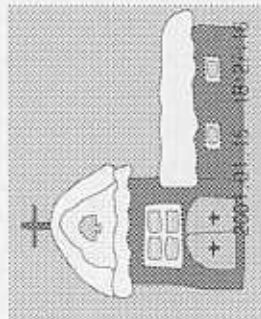
SETTING UP SHOOTING FUNCTION

■ STAMP

- Stamping DATE/TIME on still image
- STAMP only function in Single shot and Interval shot mode.
- DATE/TIME don't record on still image in Continuous shot and Moving image shot mode.
- There are 3 kinds of STAMP
 - OFF : DATE/TIME don't be recorded on still image(Default)
 - DATE : Only DATE is recorded on still image
 - DATE / TIME : DATE / TIME is recorded on still image
- DATE indicates as following order [year.month.day]
- TIME indicates as following order[hour : minute : second] and the hour digit counts up to 24.
- DATE/TIME will be displayed on the lower right side of image



< Selecting DATE >



< Selecting DATE/TIME >



Reference

The DATE that is set in DATE.TIME SET(refer to page 31) will be recorded on the still image.