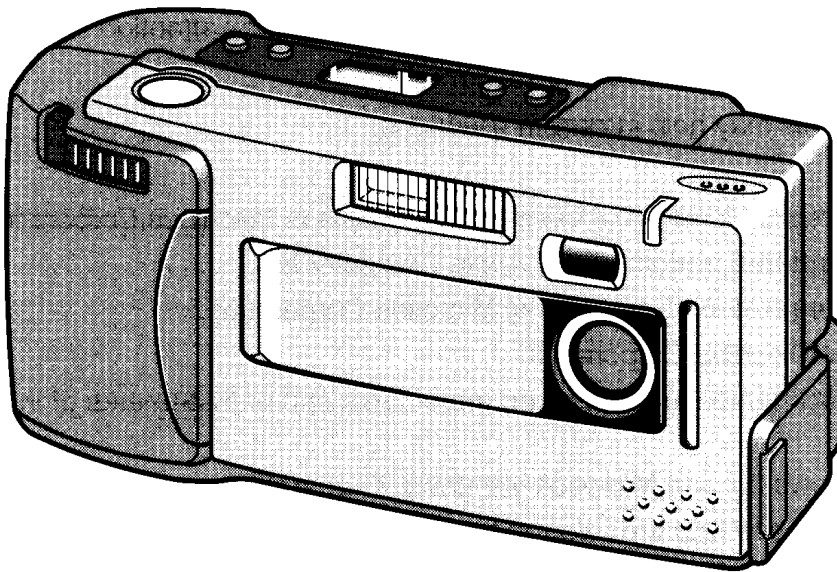




INSTRUCTION MANUAL

VPC-G210E

Digital Still Camera



 **SmartMedia™**
(SSFDC)

Please read these instructions carefully before using the camera. Be sure to keep this manual for later reference.

BEFORE READING THE MANUAL

Caution

If the digital camera is used close to a radio or TV receiver, it may cause interference. Make sure to follow the instructions in your instructions manual for proper connection and use.

Be sure to use only the supplied cables when connecting your digital camera. Also, make sure that the cores installed on the supplied cables are not removed and that their mounting location is not changed.

- This manual or part of this manual may not be reproduced without prior written permission.
- The contents of this manual may be changed without any prior notice.
- We decline all responsibility for any damage or other resulting from the use of this camera.
- We decline all responsibility for any damage due to an improper use of the camera, due to improper application of the instructions given in this manual, or due to repairs or changes done by other than a technician authorised by the manufacturer.
- We will not be held responsible for any damage caused by the use of add-ons other than the original accessories, or equivalent as specified.
- We decline all responsibility concerning the loss of data, down time, loss of revenue due to a repair done by other than a technician authorised by the manufacturer.
- The pictures taken with this camera differ in quality from pictures taken with a standard film camera.

Symbols used in this manual

NOTE Points giving some extended instructions or special points to pay attention to.

HINT Points that may prove useful when using the camera.

HELP In case of problem, this may help in certain situations.

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Microsoft and Windows are registered trademarks of Microsoft Corporation.

SmartMedia is a trademark of Toshiba Corporation.

All other company and product names are registered trademarks and/or trademarks of their respective owners.

A note about Microsoft Windows 3.x and Microsoft Windows 95 operating systems:

In this manual, these operating systems are referred to as Windows 3.1 or Windows 95, and sometimes abbreviated as "Windows".

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USING YOUR DIGITAL CAMERA SAFELY AND CORRECTLY

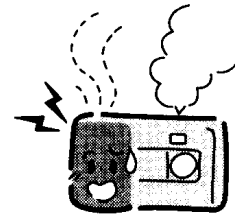
Safety Precautions

WARNING

■ Do not use the camera if it makes a strange noise, emits a strange odor or if smoke comes out from it

- If the camera is used under these conditions, that may cause a fire or electric shock. Immediately remove the batteries, wait to make sure no more smoke comes from the unit, then take it to the dealer for service.

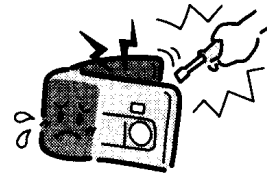
The user should not try to open or repair the unit.



■ Do not modify or open the cabinet

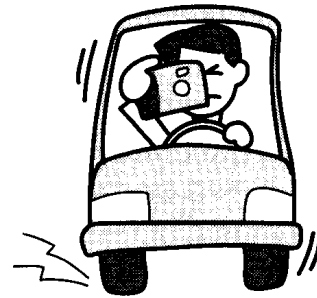
- High tension circuits inside, high risk of fire or electric shock if touched.

Any internal check, setting or repair should be referred to the dealer.



■ Do not use while driving

- While driving a car, motorcycle, etc., do not take pictures, playback pictures or look at the LCD monitor screen. That may cause an accident.
- It is dangerous to have the camera inside a car. Be careful with the camera inside the car, as it may fall behind the brake pedal and prevent braking.
- If using the camera while walking, be very careful with your environment and the traffic, in order to avoid accidents.



■ When taking pictures be aware of your environment

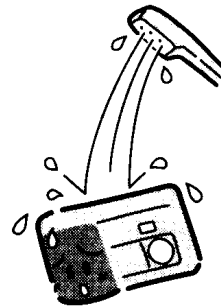
- Do not take pictures without fully understanding the environment situation, or that may cause an accident or injuries.
- Do not use the camera inside a plane or other places where its use may be restricted, as that may cause an accident.



WARNING

■ **Do not get the camera wet**

- This camera is not water-resistant, make sure it does not get wet, or that may cause a fire or electric shock.
- Do not use in a bathroom.
- If it got wet, turn the camera off, remove the batteries immediately, then take the camera to the dealer.
If used like that, it may cause a fire, electric shock or an accident.



■ **Do not use during a storm**

- Do not use when there is thunder as that indicates the risk of lightning.
In particular, if used in an open field you may be struck by lightning.
Quickly seek refuge in a place that will protect you from lightning.



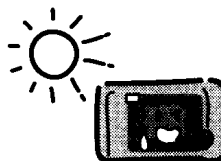
■ **Do not place on an unstable surface**

- It may fall down, causing injuries or damages.
- If the camera has fallen down, and the cabinet has been damaged, turn the camera off, remove the batteries and take it to the dealer.
If used like that, it may cause a fire or electric shock.



■ **Do not look into the sun**

- Do not take a picture of the sun or any other strong source of light. That may cause injuries to the eyes.



USING YOUR DIGITAL CAMERA SAFELY

AND CORRECTLY (CONTINUED)

WARNING

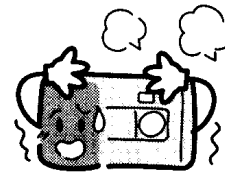
■ Do not take a picture using the flash close a person's face

- To prevent possible eye injury, do not take pictures of people's face (babies in particular) at close range using the flash. If the flash is discharged too close to a person's opened eyes, there is a risk that it may damage that person's eyesight. Never take a picture of people's face, especially babies, from a distance of less than 1 m.



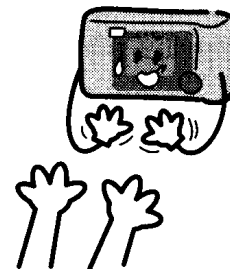
■ Do not use where there is a risk of explosion

- Do not use the camera in a location where there is explosive gas, or any other flammable material in the air. That may set it on fire or cause an explosion.



■ Keep the camera away from children's reach

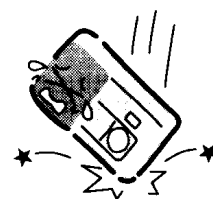
- The following may happen if children play with the camera.
 - They may wrap the strap around their neck and suffocate.
 - They may swallow the batteries or other small parts.In such a case, consult a doctor immediately.
- They may damage their eyesight if the flash goes off too close to their eyes.
- They may get hurt by the camera.



CAUTION

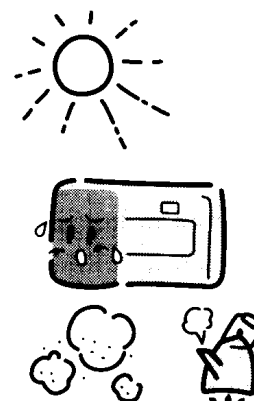
■ Precautions when carrying the camera

- Do not walk around holding the camera by the hand-strap, it may hit other objects and get damaged. When walking around, hold the camera in your hand or place it in a pocket.
- Be careful not to drop the camera or subject it to strong shock.
- Make sure direct sunlight does not hit the lens, as that may damage the internal parts. When not taking pictures, be sure to always keep the lens cover closed.



■ Precautions during use and for storage

- This camera is a precision instrument. When using or storing it, make sure to avoid the following types of conditions, in order to avoid damage.
 - Places in direct sunlight.
 - Places where humidity and temperature are high.
 - Places that may get wet.
 - Close to an air conditioner or heater.
 - Inside a car.
 - Places where there is dust and dirt.
 - Places where there is a fire burning.
 - Places where volatile products are stored.
 - Places subject to vibrations.

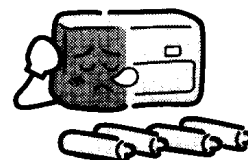


Environment of use

- | | |
|----------------------|---------------------------------------|
| • Temperature | • Humidity |
| 0 – 40°C (operation) | 30 – 90 % (operation, non condensing) |
| –20 – 60°C (storage) | 10 – 90 % (storage, non condensing) |

■ Precautions if the camera is not going to be used for a long period

- For safety, remove the batteries. The batteries may generate heat or leak, and that may start a fire, cause injuries or burns and damage the camera and any other object placed close by. (If the batteries are removed for a long period, the time and date settings will be lost.)
- The damages caused if the batteries leak are not covered by the manufacturer's warranty.



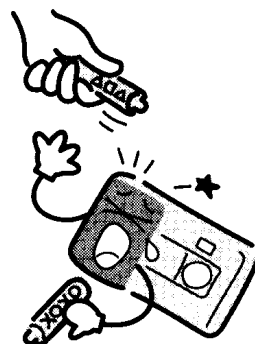
USING YOUR DIGITAL CAMERA SAFELY

AND CORRECTLY (CONTINUED)

CAUTION

■ Precautions concerning the batteries

- Use only AA Alkaline batteries, or the other specified types of batteries. Manganese batteries cannot be used, as they have a short battery life and may overheat causing damage to the camera.
 - Do not use old batteries together with new ones. Do not use different types, such as Alkaline batteries or NiCd rechargeable batteries, etc., or batteries of different brands at the same time.
 - Make sure not to invert the polarity ((+) and (-)) when installing the batteries. Install the batteries respecting the indicated polarity.
 - If different types or brands of batteries are used at the same time, they may generate heat or leak, and that may start a fire, cause injuries or burns and damage the camera and any other object placed close by.
- Right after use, the batteries may be warm, if removing the batteries, turn off the camera and wait for the batteries to cool down.
 - If the batteries leak and liquid gets on your hands or clothing, rinse with clean water. If the liquid gets into your eyes, you may lose your eyesight. Immediately rinse your eyes with clean water, then seek medical attention.
 - Do not drop or hit the batteries.
 - If the camera is not going to be used for a long period, remove the batteries and store them in a cool place. (If the batteries are removed for a long period, the time and date settings will be lost.)
 - When disposing of batteries, make sure to follow all applicable regulations.
 - If used by temperatures below 10°C, the batteries service life will be shorter than normal.
 - If using rechargeable batteries, make sure you use only the charger specified for the concerned batteries, and that they can be recharged safely.
 - Read carefully all the documentation accompanying the rechargeable batteries and their charger.



■ Precautions concerning the use of the AC adaptor

- If you plan to use an AC adaptor with your digital camera (VPC-G210E), only use the specified AC adaptor (model VAR-G2E) sold separately. Make sure to never use an AC adaptor other than the one indicated here, conceived for specific use with your digital camera.
- If an AC adaptor other than the specific one listed here is used it may damage the camera, and cause a fire or electric shocks.
- For complete information on how to use the AC adaptor, please refer to the instructions accompanying the AC adaptor (model VAR-G2E).

■ Precautions concerning the storage of the SmartMedia

- Please keep out of reach of children. Due to its small size, young children may put it in their mouth and they may choke or serious injuries may occur.

POINTS TO FOLLOW FOR CORRECT USE OF THE CAMERA

■ Before taking important pictures

- When taking important pictures, check to make sure that they can be correctly recorded.
- We cannot accept any responsibility, for pictures that cannot be recorded, or if all or any of the recorded pictures are erased or otherwise destroyed or damaged due to a problem with the camera, any of the accessories or software.

■ Concerning copyrights

- The pictures you take with your digital camera are for your own private use, any other use may violate the rights of copyrights owners.

■ Precautions when cleaning the cabinet

Cleaning

- ① Remove the batteries.
- ② Remove the dirt with a humid soft cloth.

To remove stains...

- ③ Wipe with a soft cloth moistened with a mild detergent solution and wrung dry, then wipe with a dry soft cloth.

Caution

- Do not use benzene, thinner or other chemical product on the cabinet, as that may cause deformation and/or discoloration and paint peeling.

When using chemically treated cloth, make sure to read carefully the instructions and warnings.

- Do not spray insecticide, etc., or any volatile products on the cabinet. Do not leave rubber or vinyl objects against the camera for a long period.

That may cause deformation and/or discoloration and paint peeling.

■ Precautions when cleaning the lens

- If the lens gets dirty, use a commercially available air blower or a cleaning cloth for photographic equipment to clean it.

■ Precaution when not using the camera

When not used

- Close the lens cover.

When not used for a long period of time

- Remove the batteries. To keep all features functioning properly, from time to time, insert the batteries and check the camera operation.
- When batteries are left in the camera, a small amount of their power is used by certain functions of the camera. If using NiCd rechargeable batteries, they may become completely discharged and lose their ability to be recharged again.

USING YOUR DIGITAL CAMERA SAFELY

AND CORRECTLY (CONTINUED)

■ Precautions concerning condensation (dew)

- If the digital camera is used with condensation inside, that may damage it.

What is condensation...

- Condensation (or dew) is the moisture that forms on the outside of a glass when filled with cold water. Condensation can also form in the inside of the camera.

Be careful of condensation in the following conditions

- When moving the camera suddenly from a cold place to a warm room.
- When the heater has been turned on to quickly heat the room.
- When the camera is placed in the path of cool air from an air conditioner.
- When the camera is placed where the humidity is high.

If condensation has formed

- Place the camera in a plastic bag, seal it and wait until the camera has reached the ambient temperature.

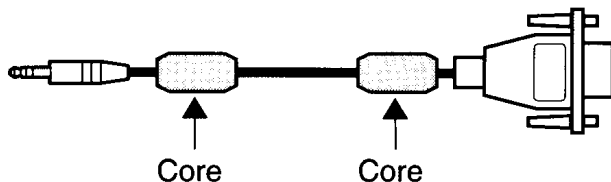
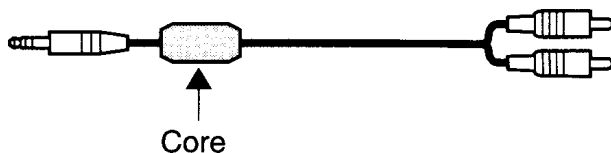
■ Precautions concerning undesired interference

- The digital camera may create undesired interference if used close to a TV or radio.

To avoid these interferences, follow the steps below.

When using the supplied AV cable and the computer serial port interface cable

- Make sure the cores are not removed.



■ Data storage

- It is recommended that any important data should be copied onto separate media (such as a floppy disk, hard disk or MO disk).
- The data stored on the SmartMedia may become lost (corrupted) in cases such as the following. Sanyo will not be responsible for any damage or loss of profits arising from the loss of data.
 - If the SmartMedia is used incorrectly
 - If the SmartMedia is not inserted correctly into the digital camera
 - If the SmartMedia is subjected to electrical or mechanical shocks or other forces
 - If the SmartMedia is removed from the digital camera or if the digital camera's power supply is turned off during reading or writing operations
 - If the SmartMedia has reached the end of its useful life

■ Precautions on handling the SmartMedia

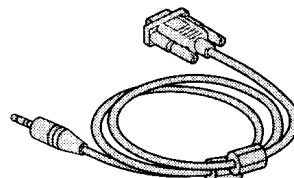
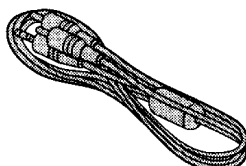
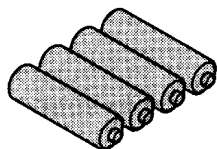
- The SmartMedia is a precision device. Do not bend it, drop it or subject it to strong forces or shocks.
- Avoid using or storing the SmartMedia in places where strong static electrical charges or electrical noise can be easily generated. Use at a relative humidity of 90% or lower. (No condensation should form.)
- Do not touch the contact surface with your fingers or allow it to become contaminated with foreign materials. Gently wipe away any contamination with a soft, dry cloth.
- Attach only the supplied accessory labels and stickers to the index area and the write-protect area. If materials other than those supplied as accessories are attached, problems may result when inserting or removing the SmartMedia.
- Store the SmartMedia inside its protective case to protect it from static electricity.
- Do not carry the SmartMedia inside trouser pockets, as it may become damaged if forces are applied such as when sitting down.

PREPARATIONS PRIOR TO USING YOUR DIGITAL CAMERA

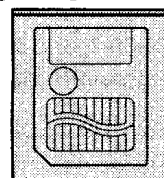
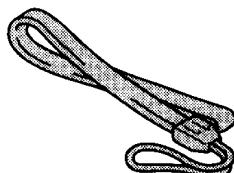
Preparation

❶ Open the box and check that all accessories are included.

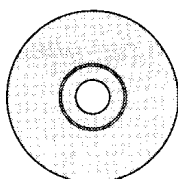
- Before using or connecting any of the components, see "USING YOUR DIGITAL CAMERA SAFELY AND CORRECTLY" on page 3.
- 4 AA alkaline batteries [page 14]
- AV cable [page 45]
- Computer serial port interface cable [page 61]



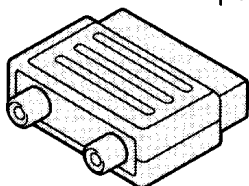
- Adaptor for Macintosh computer [page 61]
- Hand-strap [page 12]
- SmartMedia set: 1 [page 15]



- Software



- SCART adaptor (Use this adaptor to connect an AV cable to a TV or VCR equipped with an EURO-AV type audio/video input terminal.) [page 34, 45]
- Instruction manuals



❷ Install the hand-strap, then insert the batteries.

See "USING THE HAND-STRAP" on page 12.

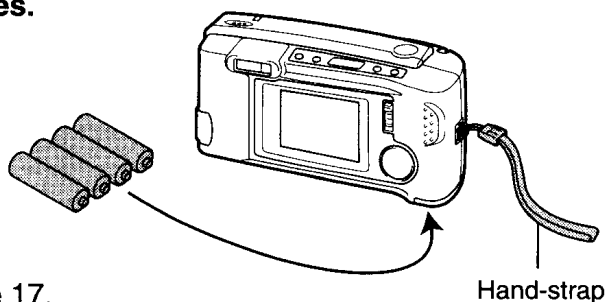
See "INSTALLING THE BATTERIES" on page 13.

❸ Insert the SmartMedia.

See "USING THE SMARTMEDIA" on page 15.

❹ Set the date and time.

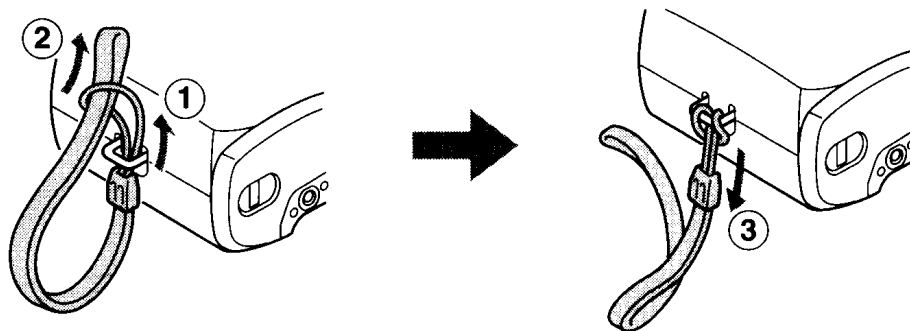
See "SETTING THE DATE AND TIME" on page 17.



USING THE HAND-STRAP

Use the supplied hand-strap for convenience the camera.

Attaching the Hand-Strap



INSTALLING THE BATTERIES

This camera operates on four (4) AA size batteries. Make sure to use four batteries of one of the types indicated below.

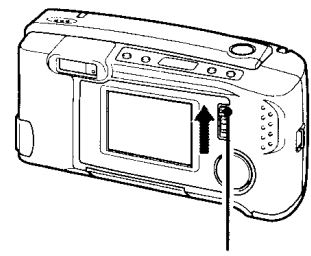
- Alkaline batteries
- NiCd rechargeable batteries

Caution

- Manganese batteries cannot be used, as they have a short battery life and may overheat causing damage to the camera.
- Before handling the batteries, see “Precautions concerning the batteries” on page 7.

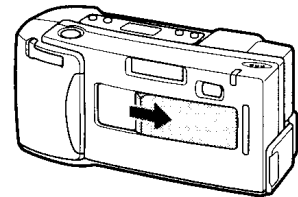
NOTE: For greater reliability, it is recommended to use NiCd batteries when available.

- ➊ Set the **CAMERA/PLAY** switch to the “**CAMERA**” position.



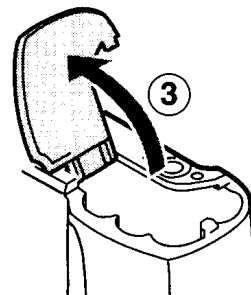
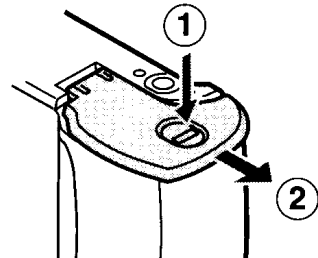
**CAMERA/
PLAY** switch

- ➋ Close the lens cover.



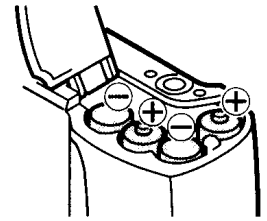
- ➌ Open the batteries compartment cover.

- Slide the compartment cover button, while pushing it down.



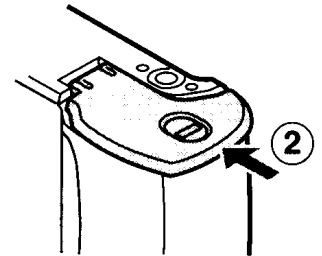
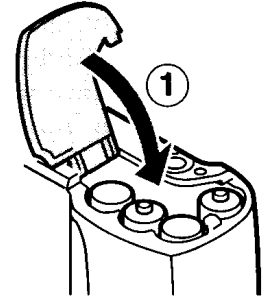
④ Insert the batteries in the batteries compartment.

- Make sure the batteries polarity ((+) (-)) is as indicated.



⑤ Close the batteries compartment cover.

- Close the cover, then slide the compartment cover in the direction of the arrow ②.



NOTE:

- Battery power is still being used even when the camera is turned off. It is recommended to remove the batteries from the camera when not using it. However, when the batteries are removed, the date and time settings may be lost. When batteries are installed again, it is recommended to verify that the date and time settings are correct before using the camera. If they are not correct, refer to “SETTING THE DATE AND TIME” on page 17, and enter the correct date and time settings.

USING THE SMARTMEDIA

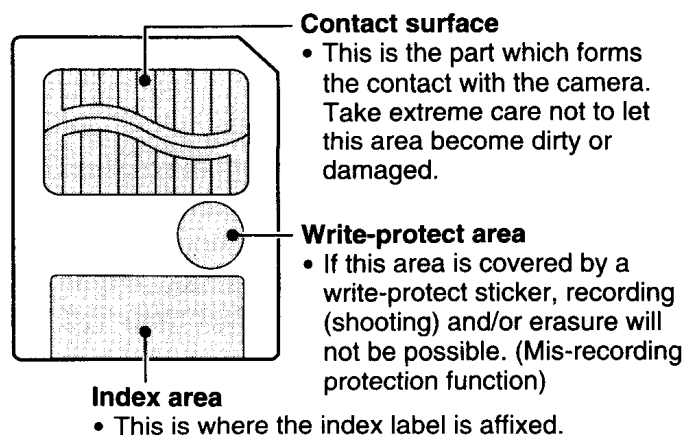
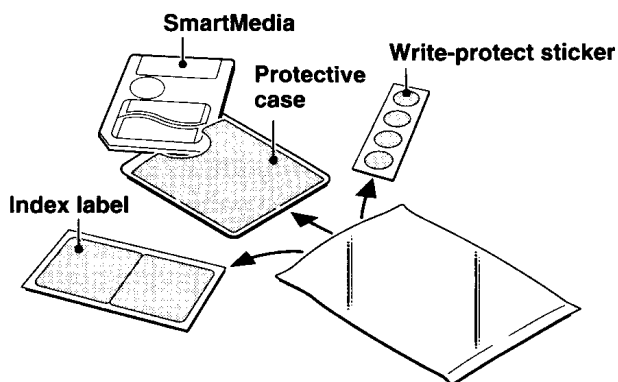
The supplied SmartMedia is a data storage media used in your digital camera, to store the pictures taken. Make sure to install the SmartMedia in the digital camera before taking pictures. The data recorded on the SmartMedia can be erased, and new data can then be recorded again.

CAUTION

- The supplied SmartMedia is initialised (formatted) before its release for sale, so it can be used immediately after it is inserted into the digital camera. However, the formatting may have been corrupted by static electricity and it may be necessary to reformat it. See "FORMATTING THE SMARTMEDIA" on page 59. The SmartMedia should only be replaced by a Sanyo SmartMedia.
- The SmartMedia is a consumable item. After it has been used for a long period of time, recording and playback of image data may no longer be possible. In such a case, you will need to purchase a replacement.
- If the SmartMedia is removed from the digital camera or if the digital camera's power supply is turned off during reading or writing operations, the data stored on the SmartMedia may be lost. Sanyo will not be responsible for any damage or loss of profits arising from the loss of data.
- Please read carefully the "Precautions on handling the SmartMedia" on page 10.

Name of each part

The following should be included in the plastic bag.



- Make sure to always store the SmartMedia inside its protective case to protect it from static electricity.

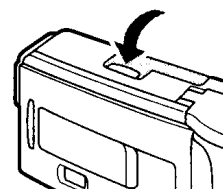
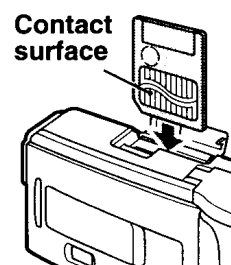
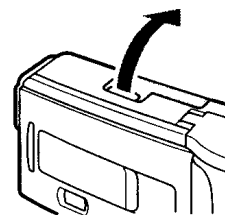
Avoiding accidental erasure of important data recorded on the SmartMedia (Mis-recording protection function)

Attach a write-protect sticker to the write-protect area.

- Recording (shooting) and/or erasure will no longer be possible.
- Attach the sticker so that it is fully within the write-protect area, and so that it is fully flat and will not peel off, otherwise problems may occur.
- If the sticker becomes dirty, or if it is not fully within the write-protect area, the mis-recording protection function may not work properly. Gently wipe away any contamination with a soft, dry cloth.
- If you would like to record additional data or erase existing data, remove the write-protect sticker.
- Do not re-use any write-protect stickers once they have been removed from the SmartMedia, as their adhesion force will diminish and problems may occur if they are re-used.

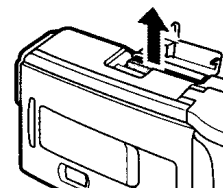
Installing the SmartMedia

- ❶ Set the CAMERA/PLAY switch to the “CAMERA” position, then close the lens cover.
- ❷ Make sure the camera is turned off, then open the SmartMedia cover on the bottom of the camera.
 - Pull the cover with a finger, then open it as indicated by the arrow.
- ❸ Insert the SmartMedia.
 - Make sure the contact surface is oriented as indicated by the illustration.
 - Insert fully.
- ❹ Close the SmartMedia cover.
 - Close the cover by pushing it as indicated by the arrow.



Removing the SmartMedia

- ❶ Set the CAMERA/PLAY switch to the “CAMERA” position, then close the lens cover.
- ❷ Make sure the camera is turned off, then open the SmartMedia cover on the bottom of the camera.
- ❸ Then remove the SmartMedia by pulling it straight out.



NOTE:

- For more information on how many pictures can be saved on the SmartMedia, please refer to page 33.
- If the SmartMedia is used in combination with a commercially-available PC card adaptor, it can then be used as a PC card conforming to the PC Card Standard-ATA. Be sure to use only a 3.3 V PC card adaptor.

If  is displayed

- If trying to playback pictures when the SmartMedia is not installed in the camera, the message “NO CARD” will be displayed on the LCD monitor screen. Before using the camera, make sure the SmartMedia is correctly installed.

If  is displayed

- When a write-protect sticker is attached to the write-protect area, the Mis-recording protection function is active (see page 15), and recording (shooting) and/or erasure are not possible. If trying to record images while the Mis-recording protection function is on, the message “PROTECTED” will be displayed on the LCD monitor screen. In order to use the SmartMedia to record new pictures, remove the write-protect sticker.

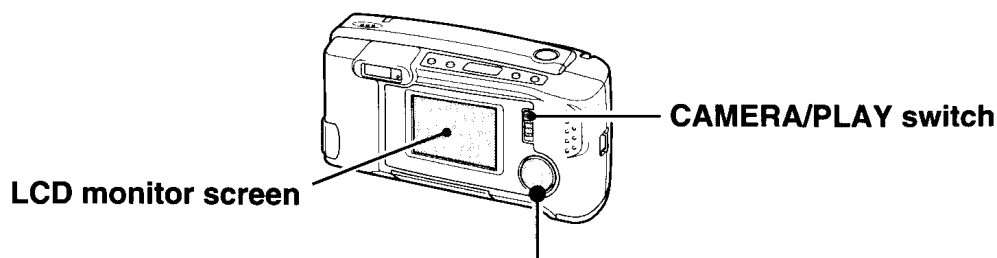
SETTING THE DATE AND TIME

Setting to the current the date and time

Your digital camera has an internal clock function.

Follow the steps below, in order to set or correct the date and time.

If the date and time are not set, they will not be recorded when a picture is taken, and when the picture is played back, [— —] will be displayed when the date and time display function is set to ON (see “DATE AND TIME DISPLAY” on page 49).

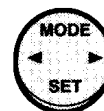


Using the MODE button

This button has 4 functions.

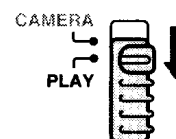
To operate, press on the appropriate inscription “MODE”, “SET”, ◀ or ▶, moving your finger from the centre to the outside of the button.

MODE button



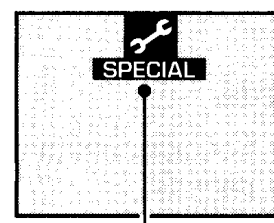
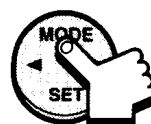
Example: To set the clock to March 8, 1998 at 7:30 PM

- 1 Set the CAMERA/PLAY switch to the “PLAY” position.



- 2 Press MODE of the MODE button.

- The special mode icon [SPECIAL] is displayed on the LCD monitor screen.
- If there are previous recordings, the mode switches as indicated below, each time the button is pressed.



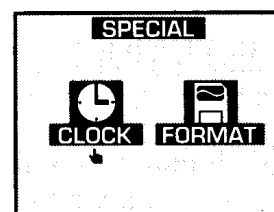
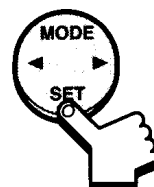
SPECIAL mode icon

→No indication →[MULTI] →[PROTECT] →[ERASE] →[SPECIAL]→

No indication:	Normal playback mode
[MULTI]:	9 pictures multi-playback mode (see page 47)
[PROTECT]:	Protect mode (see page 53)
[ERASE]:	Erase mode (see page 55)
[SPECIAL]:	Special settings mode (Date/Time display selection and setting, and SmartMedia formatting)

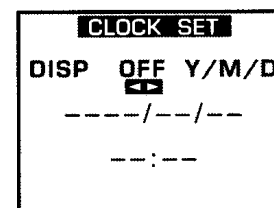
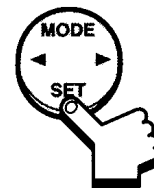
③ Press SET of the MODE button.

- [CLOCK] and [FORMAT] are displayed.




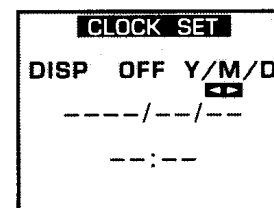
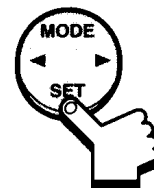
④ Press SET of the MODE button.

- The [CLOCK SET] screen is displayed.
- This screen lets you also turn on/off the date and time display function (see "DATE AND TIME DISPLAY" on page 50).




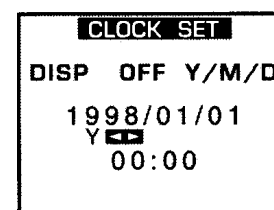
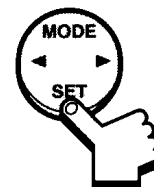
⑤ Press SET of the MODE button.

- The indicator  will move to the [Y/M/D] position.
- This screen lets you also select the time and date display format mode (see "DATE AND TIME DISPLAY" on page 50).



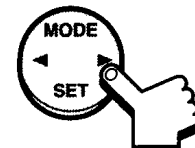
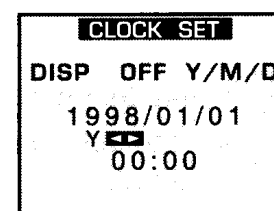
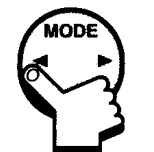
⑥ Press SET of the MODE button.

- The indicator  will move to the Year position.
- The default date and time setting is January 1, 1998, 00:00.



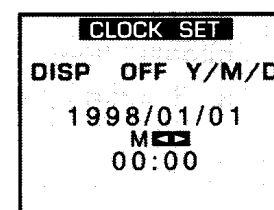
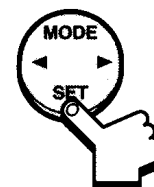
⑦ Press ◀ or ▶ of the MODE button to set the desired year.

- The year can be set from 1970 to 2037.
- Press the ◀ button to decrease or the ▶ button to increase the year displayed.



⑧ Press SET of the MODE button.

- The indicator  will move to the Month position.

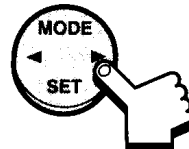


SETTING THE DATE AND TIME (CONTINUED)

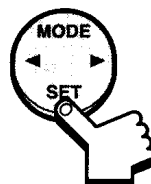
- ⑨ Press ◀ or ▶ of the MODE button to set the desired month.



CLOCK SET
DISP OFF Y/M/D
1998/03/01
M ◀
00:00



- ⑩ Press SET of the MODE button.
- The indicator ▶◀ will move to the Day position.

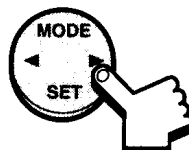


CLOCK SET
DISP OFF Y/M/D
1998/03/01
D ▶◀
00:00

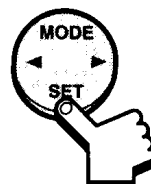
- ⑪ Press ◀ or ▶ of the MODE button to set the desired day.



CLOCK SET
DISP OFF Y/M/D
1998/03/08
D ▶◀
00:00

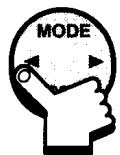


- ⑫ Press SET of the MODE button.
- The indicator ▶◀ will move to the Hours position.

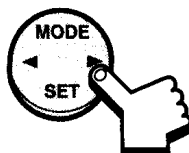



CLOCK SET
DISP OFF Y/M/D
1998/03/08
00:00
▶◀

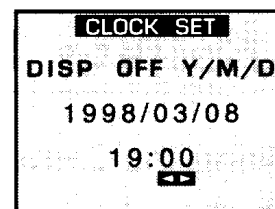
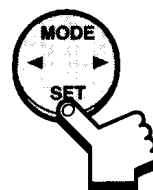
- ⑬ Press ◀ or ▶ of the MODE button to set the desired hour.
- The time is entered in 24-hour format.



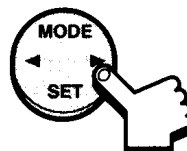
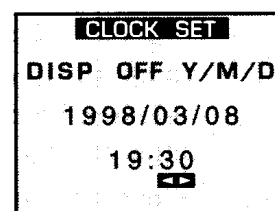
CLOCK SET
DISP OFF Y/M/D
1998/03/08
19:00
▶◀



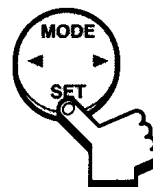
- 14 Press SET of the MODE button.
- The indicator  will move to the Minutes position.



- 15 Press ◀ or ▶ of the MODE button to set the desired minutes.



- 16 Press SET of the MODE button.
- The setting screen is erased and the clock will start.
 - For accurate clock setting, press SET of the MODE button together with a time broadcast signal or toher accurate time signal.



■ When finished, set the CAMERA/PLAY switch to the “CAMERA” position.

HINT:

- The date and time of the pictures can be displayed during playback. For more information, please refer to “DATE AND TIME DISPLAY” on page 49.
- A backup function will maintain the date and time settings while the batteries are replaced. However, on certain occasions, when the batteries are removed, the date and time settings may be lost and it is recommended to verify that they are still correct after the new batteries have been installed.
- To cancel the setting operations before they are completed, press MODE of the MODE button. In such a case, the date and time settings or corrections will not be entered.

USING YOUR DIGITAL CAMERA

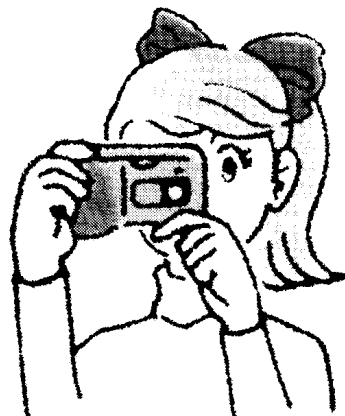
Using the Camera

① Take pictures

- The pictures can be played back right on the spot.

If for any reason you do not wish to keep some or all of the pictures, they can be erased.

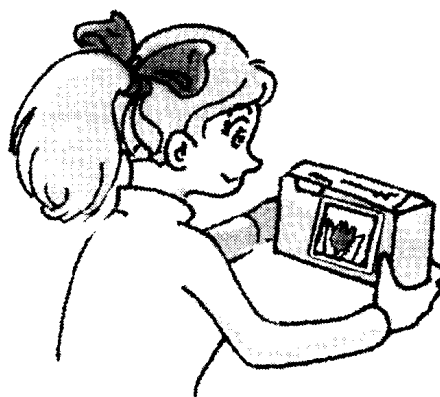
Take as many pictures as desired, without worrying about missed pictures. (For detailed information, see "TAKING PICTURES" starting on page 35.)



② Playback your pictures

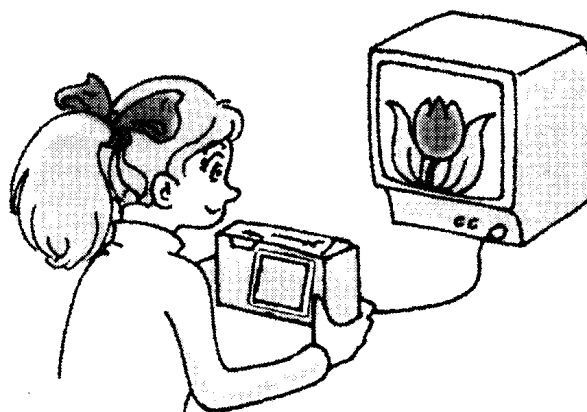
- The pictures do not need to be developed.

The pictures can be immediately displayed on the camera liquid crystal display (LCD) monitor screen. (For detailed information, see "PLAYING BACK ONE PICTURE" on page 46, and "AUTOMATIC PLAYBACK, 9 PICTURES MULTI-PLAYBACK" on page 47.)



The pictures can also be played back on any TV set.

(For detailed information, see "PLAYING BACK PICTURES ON A TV SET" on page 45.)



Using the supplied utility software, the possibilities are even greater.

Other Uses

- Using the computer connecting cable, the camera can be connected to a commercially available personal computer and the following becomes possible.

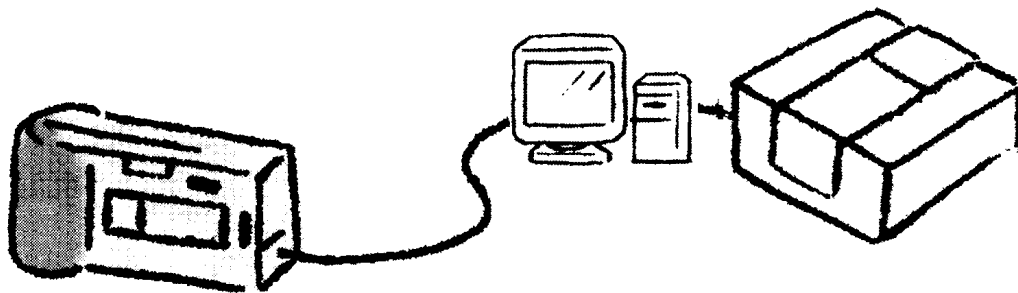
- ❶ The pictures can be downloaded to the computer hard disk.



- ❷ The pictures can be processed or edited.

- ❸ The pictures can be printed.

- The pictures can be printed on any printer connected to the computer.



ENJOYING YOUR DIGITAL CAMERA

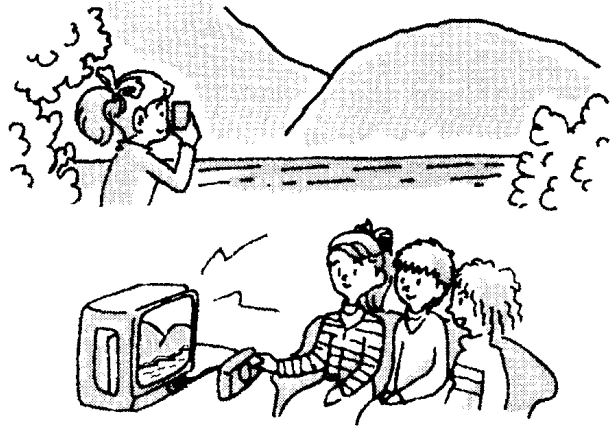
This digital camera is more convenient to use than a standard film camera, it can also be enjoyed in many different ways.

On a trip...

Playing back your pictures on a TV set.

View the pictures with friends or family, sound can also be added.

(See "PLAYING BACK PICTURES ON A TV SET" on page 45.)



At home...

Make postcards or invitations.

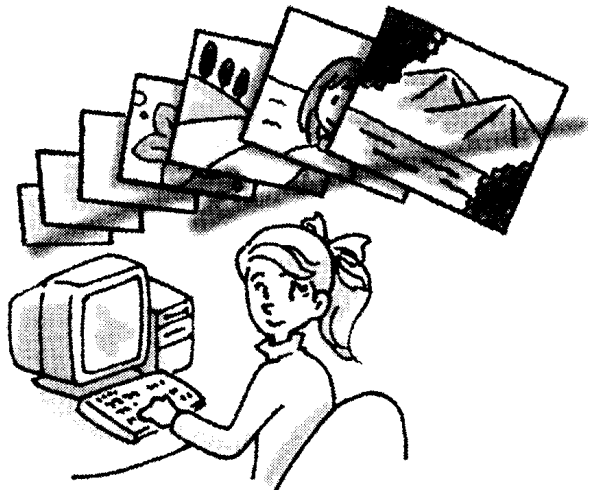
Using your personal computer, you can make personal and attractive postcards, invitations, etc.



At work...

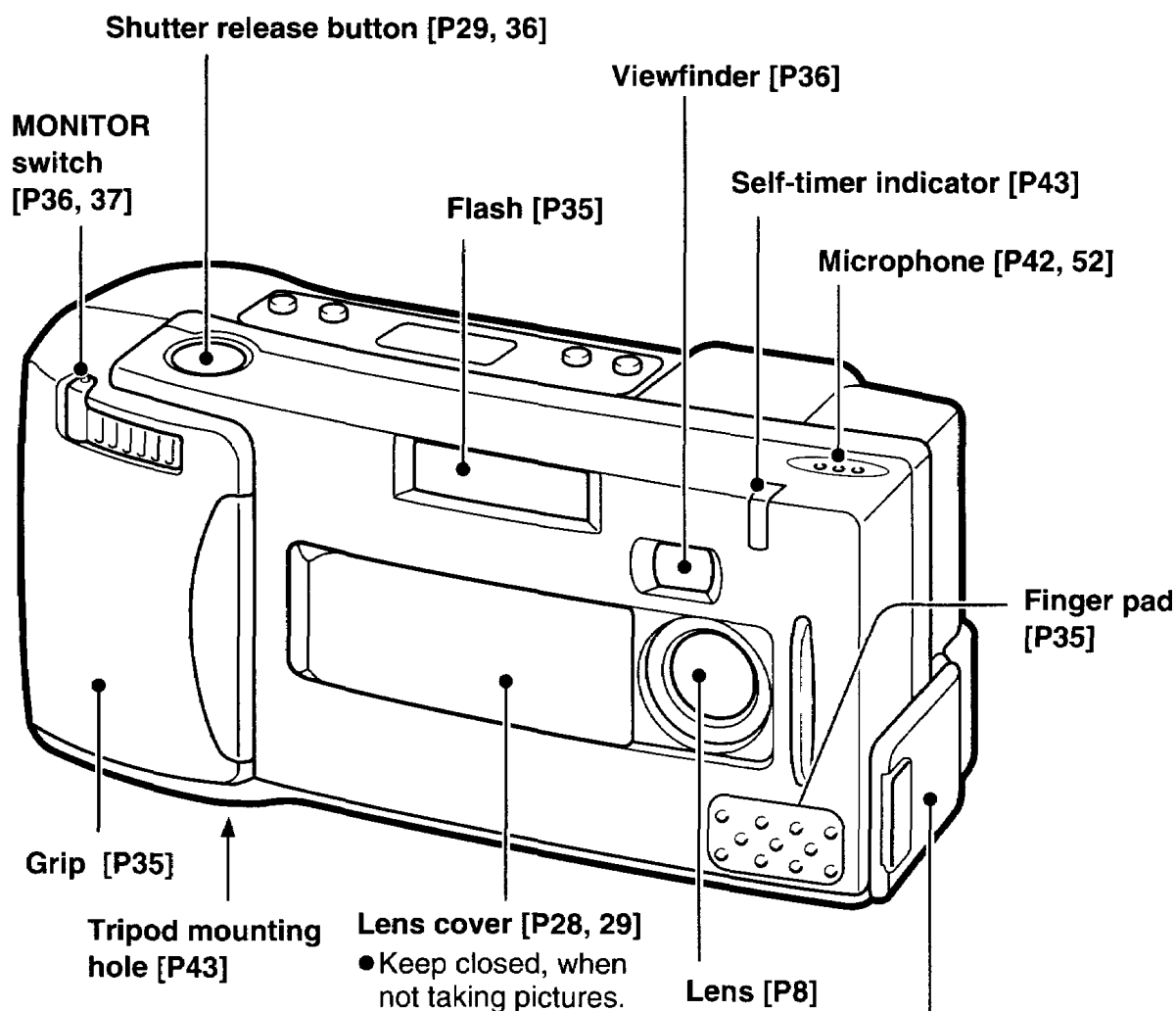
Send your pictures over a network, or publish them on the Internet.

Your pictures are saved as digital data and they can be sent using a computer connected to a network, or included in a Web page for Internet publications.



PARTS NAMES (FRONT)

[P] refers to the page(s) where the concerned part is explained.

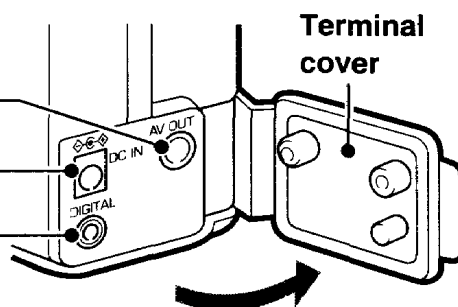


Connectors

AV OUT (Sound and picture output) terminal [P34, 45]

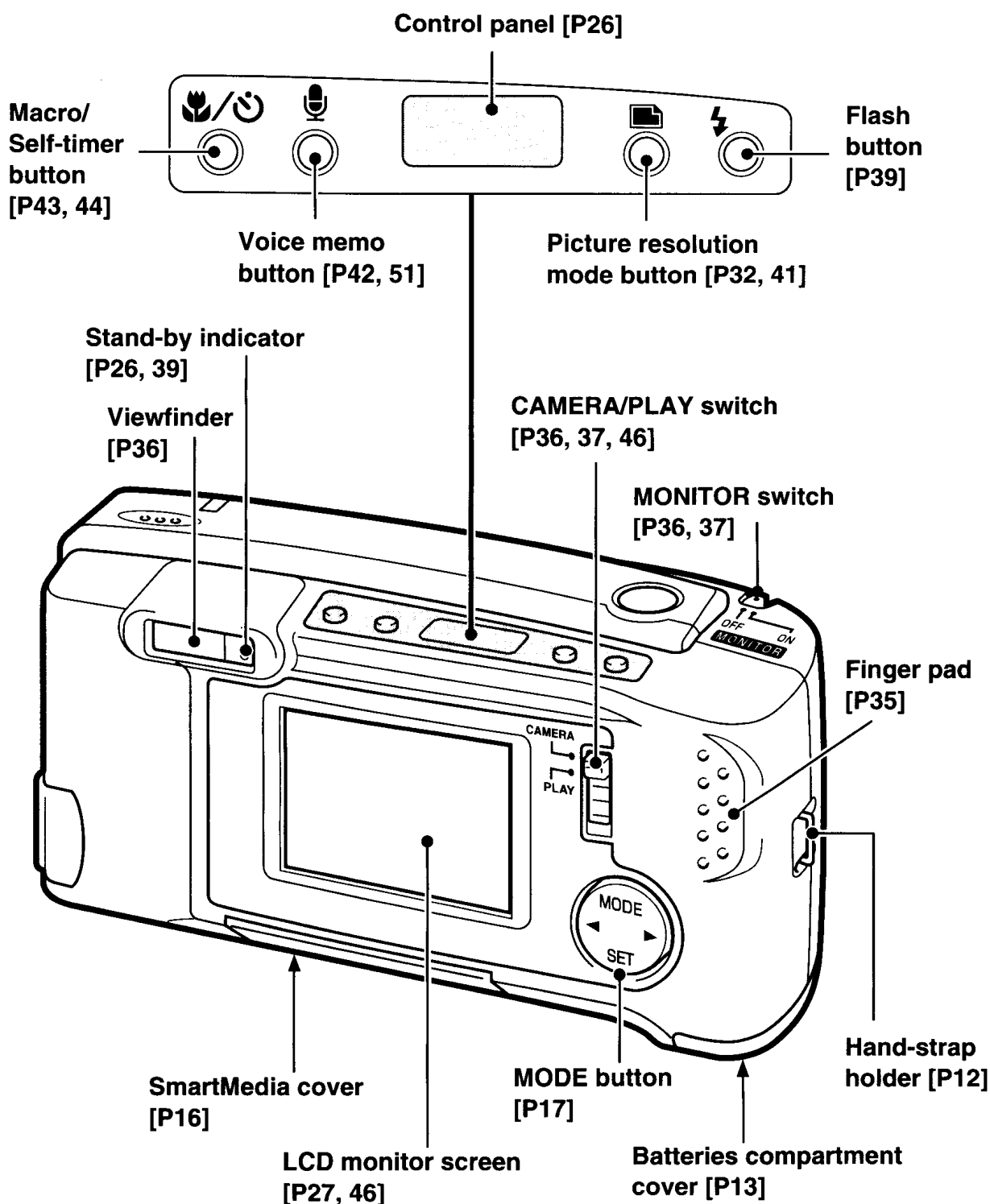
DC IN (External DC power input) terminal [P66]

DIGITAL (Communication) terminal [P61]



PARTS NAMES (REAR)

[P] refers to the page(s) where the concerned part is explained.



NOTE:

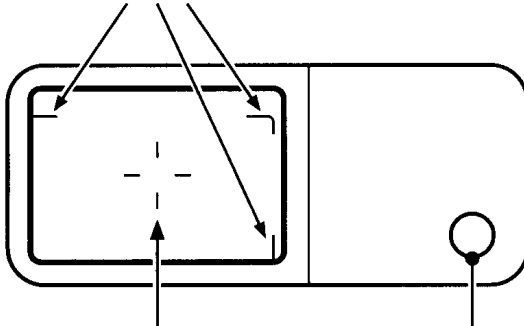
- During use, the area around the LCD monitor screen may become warm. This is due to a rise in temperature of the internal parts and is normal.
- When displaying pictures on the LCD monitor screen, you may see some missing pixels (such as black or white dots) or mixed color pixels, this is normal and does not indicate a problem of the camera.

PARTS NAMES (VIEWFINDER, CONTROL PANEL)

[P] refers to the page(s) where the concerned part is explained.

Indications Inside the Viewfinder

Close-up alignment correction marks [P44]



Autofocus mark [P36]

Stand-by indicator (Red/Green) [P36, 39]

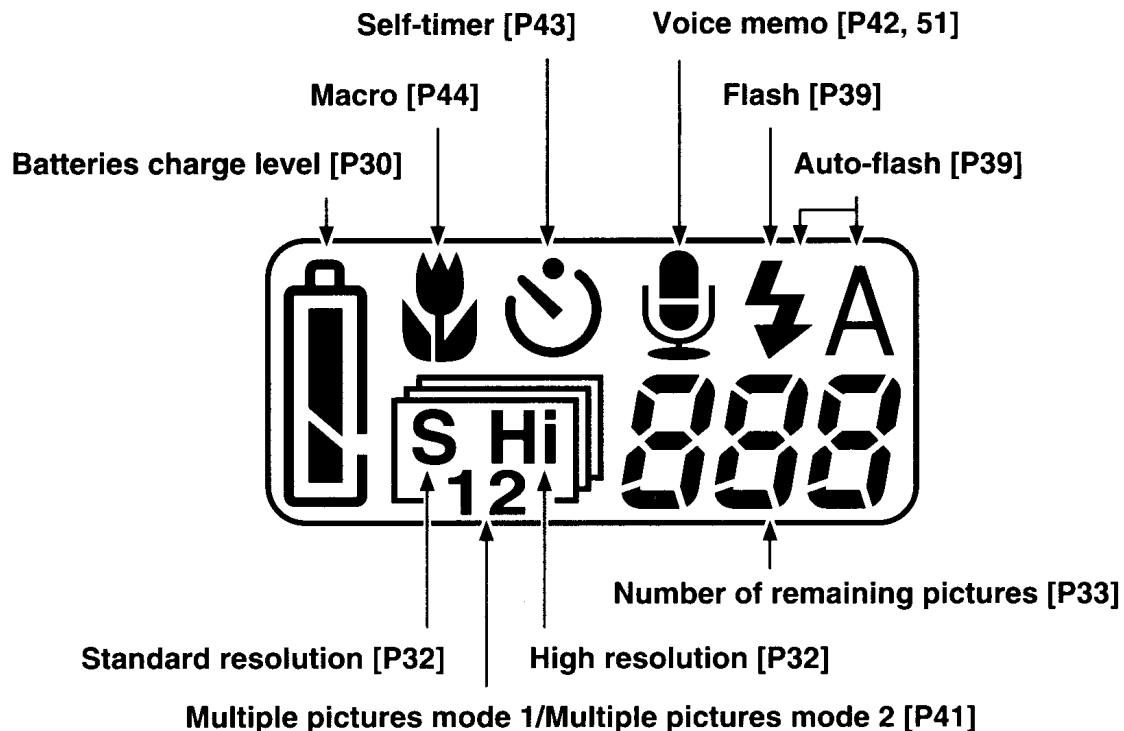
Red flashing: Getting ready to take a picture, the flash is being charged, storing a picture (a picture cannot be taken).

Red steady: Memory full or the Mis-recording protection function is active (a picture cannot be taken)

Green steady: Ready (a picture can be taken)

Control Panel Indicators

All the indicators will not be displayed simultaneously as in the illustration.

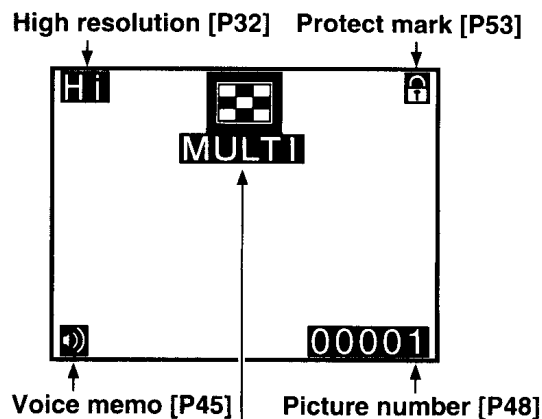


PARTS NAMES (LCD MONITOR SCREEN)

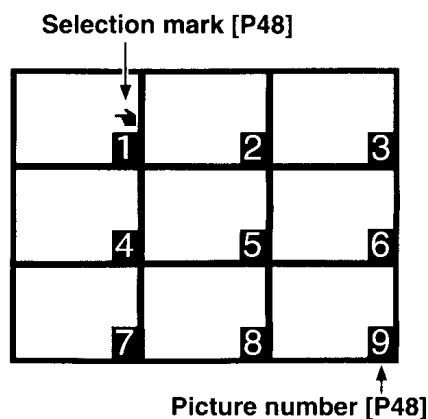
[P] refers to the page(s) where the concerned part is explained.

LCD Monitor Screen Icons

[1 picture display]



[9 pictures multi-playback display]



Main Icons	Meaning
	Multi-playback mode To select the 9 pictures multi-playback mode. [P47]
	Protect mode To select or cancel the picture erasure protection mode. [P53]
	Erase mode To select the picture erase mode. [P55, 57]
	Special settings mode To set the Date/Time, to select the Date/Time display and for SmartMedia formatting. [P17, 49, 59]

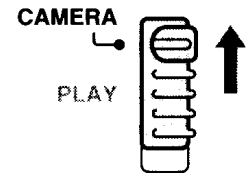
TURNING THE POWER ON/OFF

Turning the Power On

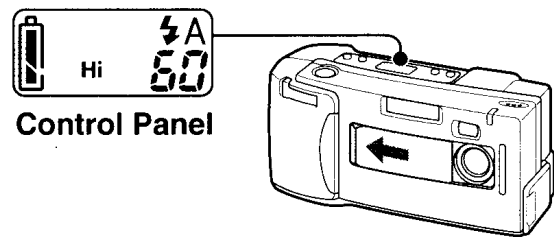
Follow the steps indicated below when taking pictures or playing back the pictures already taken on the LCD monitor screen.

■ To take pictures

- 1 Set the CAMERA/PLAY switch to the "CAMERA" position.



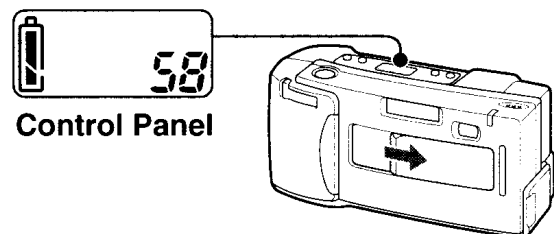
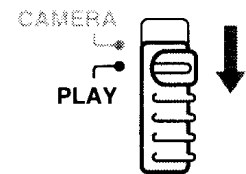
- 2 Open the lens cover.
 - The power is turned on.
 - A display appears on the control panel.



■ To playback pictures on the LCD monitor screen

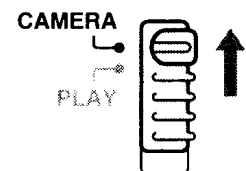
Set the CAMERA/PLAY switch to the "PLAY" position.

- The power is turned on.
- A display appears on the control panel.
- An image appears on the LCD monitor screen.
- Pictures can be played back whether the lens cover is opened or closed. However, to protect the lens, we recommend to keep cover closed.

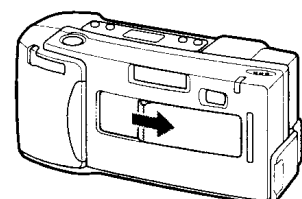


Turning the Power Off

- 1 Set the CAMERA/PLAY switch to the "CAMERA" position.



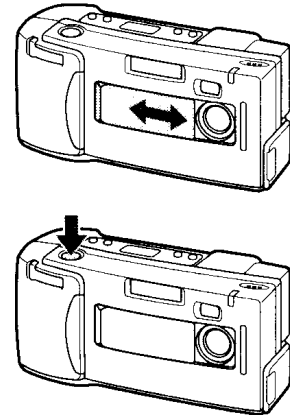
- 2 Close the lens cover.
 - The display from the control panel is erased, and the power is turned off.



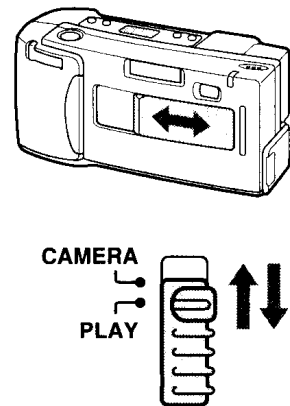
POWER SAVE FUNCTION

In order to save the batteries power, the power save function will automatically turn off the power after 1 minute in camera mode or 5 minutes in picture playback mode, if the camera is left on and is not used.

To continue taking pictures, restore the power by closing and opening the lens cover, or pressing the shutter release button once.



To continue playing back pictures, restore the power by opening and closing the lens cover, or setting the CAMERA/PLAY switch to the "CAMERA" then back to the "PLAY" position.



NOTE:

- When using the AC adaptor (sold separately), the power save function will become active after about 30 minutes of inactivity. When using batteries power and connected to a computer, the power save function will become active after about 5 minutes of inactivity.





BATTERIES CHARGE LEVEL AND SMARTMEDIA STATUS INDICATORS

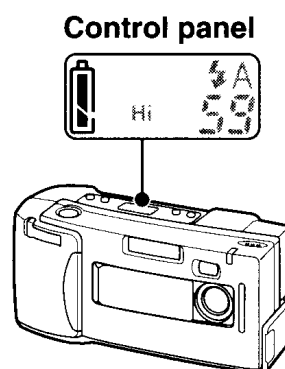
When the power to the camera is turned on, the batteries charge level (standard) and SmartMedia status indicators are displayed on the control panel display. Make sure to check these indicators before taking a picture.

(If using NiCd rechargeable batteries, the remaining charge level indicator may not be accurate.)

Every time the power is turned on, the remaining charge level indicator is displayed.

Batteries charge level indicators

Indicator	Meaning
	When the remaining charge is from full to about 1/4 full.
	When the remaining charge is less than 1/4 full.
	The batteries are almost out of charge. Replace the batteries. It will soon be impossible to take pictures. The remaining charge is not sufficient to download the pictures to a computer using the computer connecting cable.
 (flashing)	The batteries are dead and it is not possible to take pictures. Replace the batteries.



Concerning the batteries power

- Usually, alkaline batteries will give more power than NiCd rechargeable batteries. However, the power available may vary depending on the batteries brand.
- Depending on the conditions of use of the camera (such as the number of times the flash is used, the number of times the LCD monitor screen is turned on/off) or the environmental conditions (temperature below 10°C) the number of pictures that can be taken on a set of batteries will vary greatly.

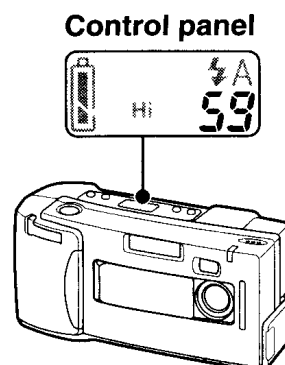
NOTE:

- When taking your camera on a trip or to a wedding, for example, or if it is used in cold weather, it is recommended to keep spare batteries on hand.
- Even if the batteries power runs out completely, the pictures that have been taken are still kept in memory.

BATTERIES CHARGE LEVEL AND SMARTMEDIA STATUS INDICATORS (CONTINUED)

SmartMedia status indicators

SmartMedia status indicators	Meaning
59	Number of pictures that can be taken. This number indicates the remaining number of pictures that can be taken according to the resolution setting displayed to the left. (See page 33.)
- - -	The SmartMedia cannot be read. Format the SmartMedia. (See page 59)
- -	The SmartMedia is not loaded. (See page 16)
P - -	A write-protect sticker is attached to the write-protect area of the SmartMedia. Recording, erasing and SmartMedia formatting will not be possible. (Mis-recording protection function) (See page 15)
00	The SmartMedia is full. Recording (shooting) is no more possible. (See page 33)

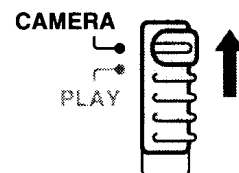


PICTURE QUALITY (RESOLUTION)

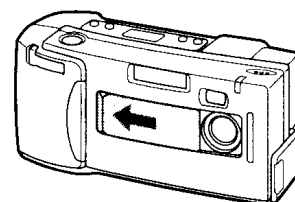
You can select to take high resolution (high quality) pictures at a definition of 640 x 480 pixels, standard resolution (standard quality) pictures at a definition of 320 x 240 pixels. The number of pictures that can be taken depends on the resolution setting, more pictures can be taken at the standard resolution setting, but more beautiful pictures can be taken at the high resolution setting. Please set the resolution according to the desired result.

Setting the Resolution

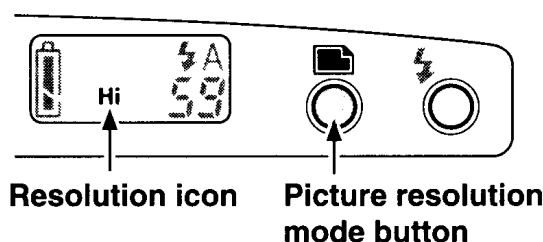
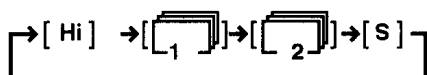
- 1 Set the CAMERA/PLAY switch to the "CAMERA" position.



- 2 Open the lens cover.
 - The power is turned on.



- 3 Press the Picture resolution mode button to select the desired resolution (picture quality).
 - Each time the button is pressed, the resolution and the multiple pictures modes setting switches as indicated below.



Hi	: High resolution mode	for nicer pictures
1	: Multiple pictures mode 1	}For multiple pictures picture taking, see page 41.
2	: Multiple pictures mode 2	
S	: Standard resolution mode	to take more pictures than at the high resolution mode

NOTE:

- This camera can take 60 pictures at the high resolution mode, and 120 pictures at the standard resolution mode (on a 4 MB SmartMedia). However, if the voice memo function (see page 42) is used, each voice memo will count as 1 high resolution picture or less and the total count of pictures that can be taken will be less than indicated above. For the number of pictures that can be taken, depending on the voice memo function, see page 33.
- The set picture resolution mode will stay selected until changed, even after the power is turned off, or the batteries are replaced.

NUMBER OF PICTURES THAT CAN BE TAKEN

This digital camera, saves the pictures as digital data on the SmartMedia.

You can select one of the Standard resolution mode or the High resolution mode. The High resolution mode will save more data for each picture taken, and less pictures can be taken.

Also, if the voice memo function (see page 42) is activated, less pictures can be taken.

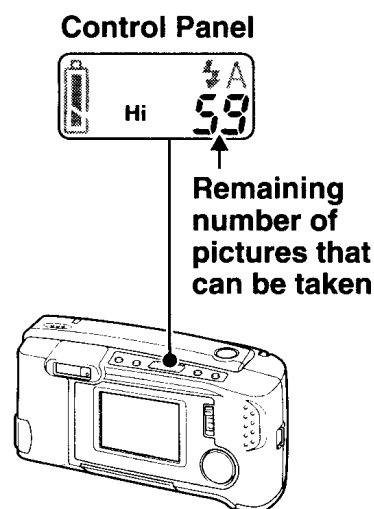
Number of Pictures that Can Be Taken Depending on the Camera Settings (with the supplied 4 MB SmartMedia)

High resolution mode	: 60
Standard resolution mode	: 120
High resolution mode (with voice memo)	: 41
Standard resolution mode (with voice memo)	: 62

- Each series of multiple pictures in modes 1 or 2, are equivalent to 1 picture in High resolution mode.
- Each voice memo is equivalent to 1 high resolution picture or less.
- Depending on the types of pictures taken, you may be able to take a few more pictures than the numbers indicated above.

Checking the Remaining Number of Pictures that Can Be Taken

- Depending on the types of pictures taken, you may be able to take a few more pictures than the numbers indicated above.
- The displayed remaining number of pictures that can be taken changes according to the selected resolution mode. For example, if when the Standard resolution mode [S] is selected the displayed remaining number of pictures that can be taken is "118", it will change to "59" when the resolution mode is switched to High resolution mode [Hi].
- When the displayed remaining number of pictures that can be taken is "00", you cannot take any more pictures. To take more pictures either install a new SmartMedia (see page 16), or first download the pictures to your computer hard disk (see page 34), then erase the pictures (see page 55), from the SmartMedia.
- When the displayed remaining number of pictures that can be taken is "00", it may be possible to take a few more pictures by selecting a lower resolution setting.



NOTE:

- It is recommended to download your pictures to your computer hard disk, or other media, for safeguarding as soon as possible after taking them.
- If when taking pictures the displayed remaining number of pictures that can be taken becomes "00", or if when the lens cover is opened the displayed remaining number of pictures that can be taken is "00", then the stand-by indicator will light in red.

CONCERNING DATA STORAGE

Saving the Pictures Taken with your Digital Camera

- **Saving the pictures to a computer**

Requires: Computer connecting cable, commercially available personal computer

Advantages: The pictures are saved as data on the computer hard disk, they can then be processed or edited, sent on a network, etc.

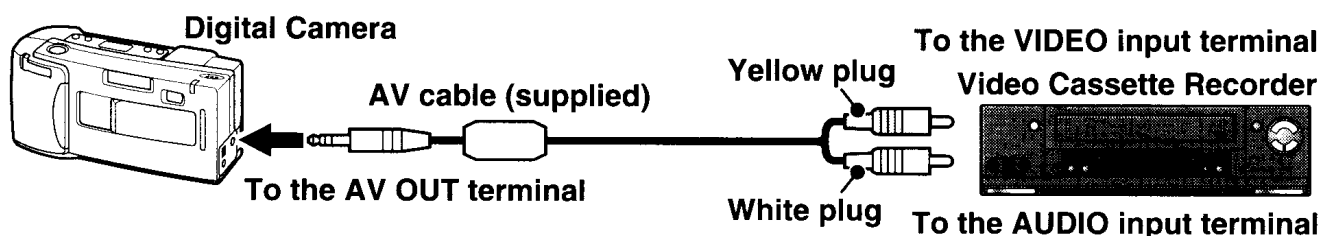
- **Recording the Pictures onto Video Tape**

Requires: Video Cassette Recorder

Advantages: You can save your pictures even if you do not have a computer. You can then play them back on your TV set.

Points to remember: Once saved to video tape, the pictures cannot be edited digitally. The pictures will be saved to video tape as a PAL format signal.

Connection:



The sound output from the camera is monaural. If connecting it to a stereo VCR be sure to use the audio left channel connector (white).

If the VCR is equipped with an EURO-AV type audio/video input terminal use the supplied SCART adaptor.

Method:

VCR

- ① Load a video tape with erasure prevention tab.
- ② Press the input mode button to select the external input mode.
- ③ Set the tape seed.
- ④ Set to recording pause mode (press the recording button, then the pause button).

Digital Camera

- ⑤ Start the Automatic playback mode (see page 47).

VCR

- ⑥ When the desired picture is displayed, start recording (press the recording button or the pause button).

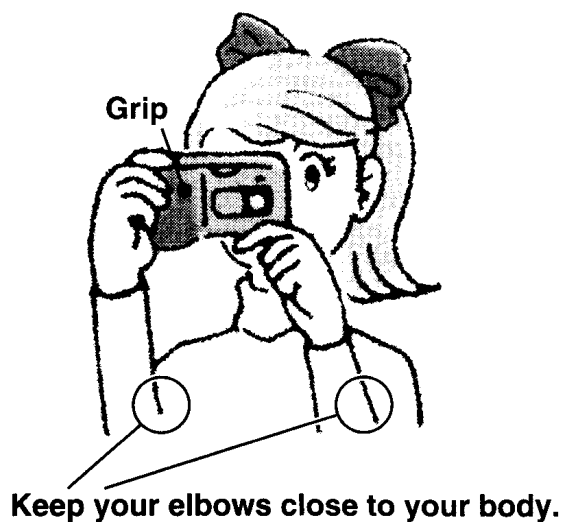
■ When finished recording, stop the VCR, then press **MODE** or **SET** of the **MODE** button.

TAKING PICTURES

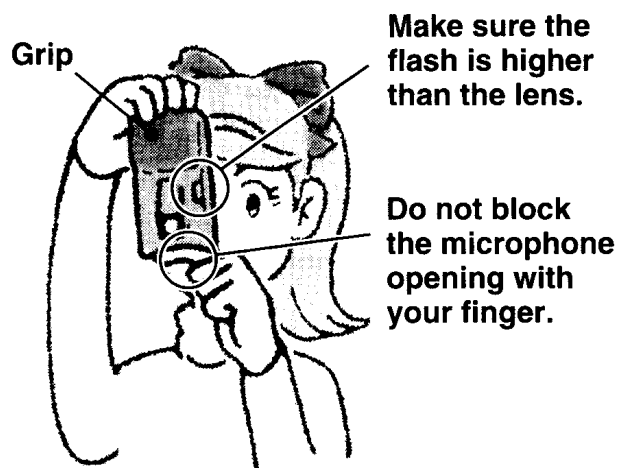
Holding the Camera

Hold the camera by the finger pad with your left hand and by the grip pad and finger pad with your right hand. Keep your elbows close to your body to stabilize the camera.

Horizontal hold

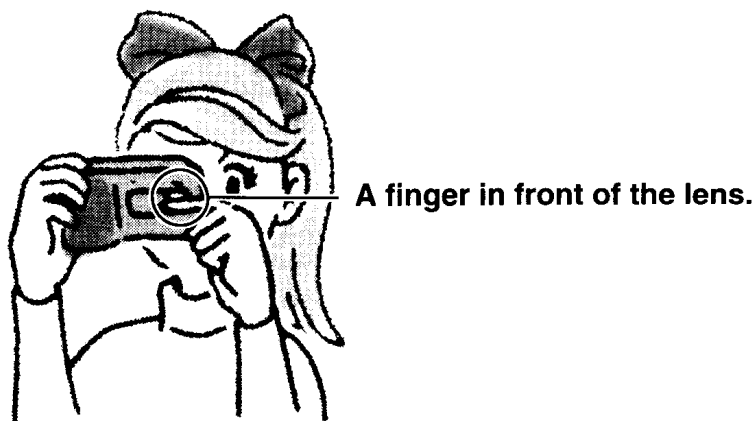


Vertical hold



Make sure that the flash or the lens are not blocked by a finger or the hand-strap.

Incorrect hold

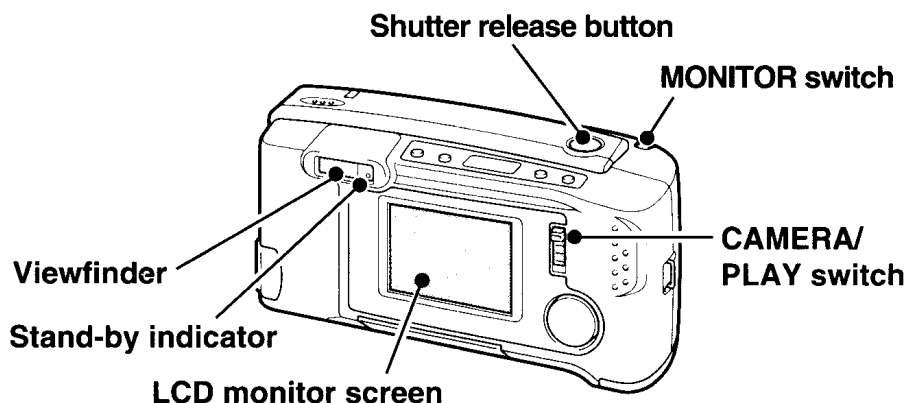


NOTE:

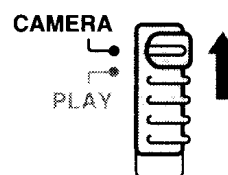
- When a picture is taken with the camera held vertically, the image played back on the LCD monitor screen or on a TV set will be shown on the side.

Taking Pictures Using the Viewfinder

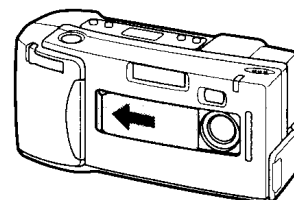
Compose the desired picture by looking into the viewfinder.



- 1 Set the CAMERA/PLAY switch to the "CAMERA" position.



- 2 Open the lens cover.
 - The power is turned on.
 - When the stand-by indicator turns to green, you can take a picture.



- 3 Set the MONITOR switch to the "OFF" position.
 - No image is displayed on the LCD monitor screen.



- 4 Point the camera lens to the subject.
- 5 Look straight into the viewfinder and make sure the autofocus mark is on the subject.



- 6 Press the Shutter release button halfway (focus-lock).
 - The autofocus function will lock the focus on the subject.



- 7 Slowly press the Shutter release button fully.
 - The picture will be taken.
 - The stand-by indicator will flash in red while the picture is being written to the memory, another picture can only be taken when the stand-by indicator lights green again.

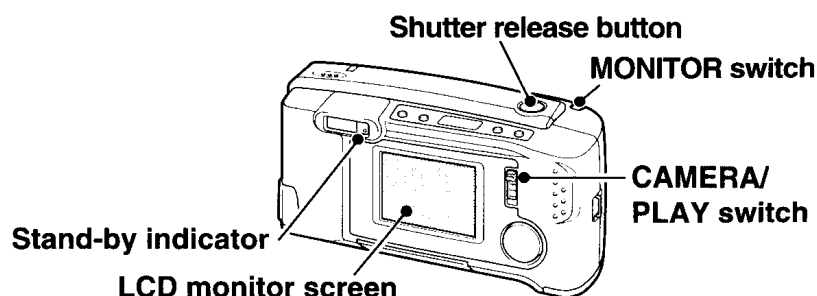


■ When finished taking pictures, do not forget to close the lens cover.

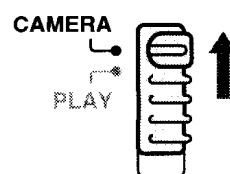
TAKING PICTURES (CONTINUED)

Taking Pictures Using the LCD Monitor Screen

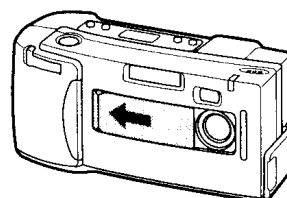
This feature is convenient for checking the picture composition when taking pictures at close range (Macro), etc.



- ❶ Set the CAMERA/PLAY switch to the “CAMERA” position.**



- ❷ Open the lens cover.**
- The power is turned on.
 - When the stand-by indicator turns to green, you can take a picture.



- ❸ Set the MONITOR switch to the “ON” position.**
- An image is displayed on the LCD monitor screen.



- ❹ Compose the desired picture by looking at the LCD monitor screen.**

- ❺ Press the Shutter release button halfway (focus-lock).**

- The autofocus function will lock the focus on the subject.
- If the focus is not locked as desired, release the Shutter release button, then press it again halfway.



- ❻ Slowly press the Shutter release button fully.**

- The picture will be taken.
- The stand-by indicator will flash in red while the picture is being written to the memory, another picture can only be taken when the stand-by indicator lights green again.



■ **When finished taking pictures, do not forget to set the MONITOR switch to the “OFF” position, and to close the lens cover.**

NOTE:

- Taking pictures using the LCD monitor screen uses a lot more battery power than taking pictures using the viewfinder (see page 36).

AUTOFOCUS

Notes About the Autofocus Function

Your camera autofocus will work in almost all occasions, however, there are certain conditions that may cause the autofocus function not to work properly.

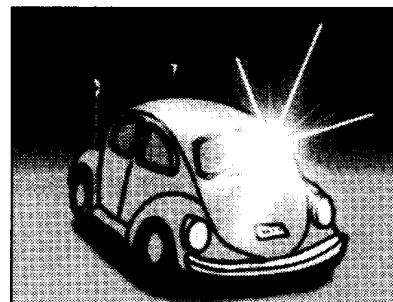
■ Conditions that may cause incorrect focus

The following examples are some of the situations where the autofocus function may not work properly.

Subjects with low contrast or very bright subjects at the centre of the picture

To take the picture:

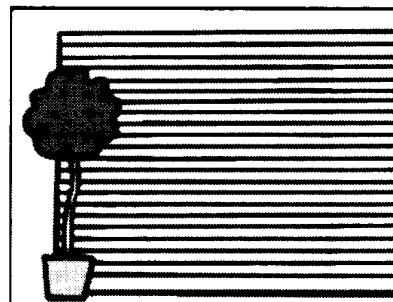
Use the focus-lock function to lock the focus on a subject with contrast at the same distance as the subject you wish to take the picture of, then without releasing the shutter release button, take the picture of the desired subject.



Subjects without vertical lines

To take the picture:

Use the focus-lock function to lock the focus on the subject while holding the camera vertically, then without releasing the shutter release button, turn the camera to the horizontal position and take the picture.



The following examples are some of the situations where the autofocus function may not focus at the desired distance.

Subjects at different distances

To take the picture:

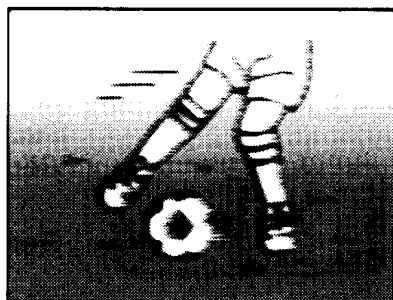
Use the focus-lock function to lock the focus on a subject at the same distance as the subject you wish to take the picture of, then without releasing the shutter release button, take the picture of the desired subject. (Check the focus on the LCD monitor screen.)



Fast moving subjects

To take the picture:

Use the focus-lock function to lock the focus on a subject at the same distance as the subject you wish to take the picture of, then without releasing the shutter release button, take the picture of the desired subject.



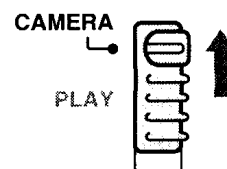
FLASH

The flash has three modes of operation (Automatic flash mode, Forced flash mode and Flash off mode), use a different mode according to the conditions of the picture taken.

The flash range is 0.6 to 2.4 m (standard photography range), 0.2 to 0.6 m (macro photography range).

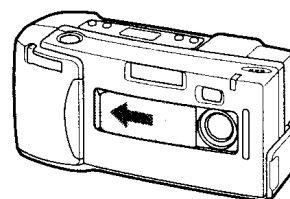
Setting the Flash Operation Mode

- 1 Set the CAMERA/PLAY switch to the "CAMERA" position.



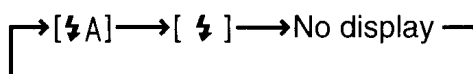
- 2 Open the lens cover.

- The power is turned on.

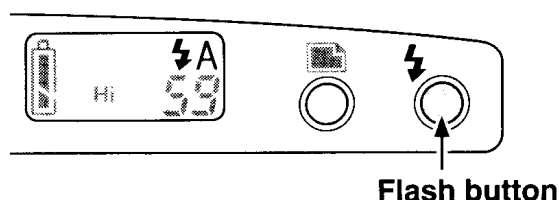


- 3 Press the Flash button to select the desired mode.

- Each time the Flash button is pressed, the selected mode switches as indicated below.



[⚡A]:	Automatic flash mode
[⚡]:	Forced flash mode
No display:	Flash off mode

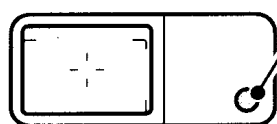


NOTE:

- The set flash mode will stay selected until changed, even after the power is turned off. However, when the batteries are replaced it will be automatically reset to [⚡A] (Automatic flash mode).
- In multiple pictures mode (see page 41), the flash will automatically be set to Flash off mode.

HELP:

- While the flash is being charged, the stand-by indicator in the viewfinder will flash in red. During that time, a picture cannot be taken. Please wait until the stand-by indicator lights in green to take the next picture.



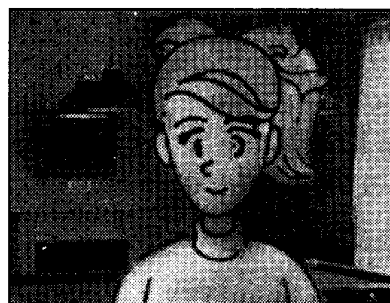
Stand-by indicator

- Red flashing:** Getting ready to take a picture, the flash is being charged, storing a picture (a picture cannot be taken).
- Red steady:** Memory full or the Mis-recording protection function is active (a picture cannot be taken)
- Green steady:** Ready (a picture can be taken)

Automatic Flash Mode

- Use this setting under normal conditions. The camera will detect the subject brightness and light the flash only as required.

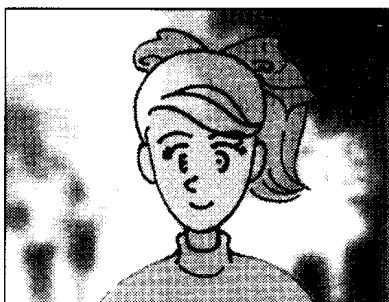
In a back-light situation, if the centre of the picture only is very dark, the automatic flash will operate in order to try to compensate.



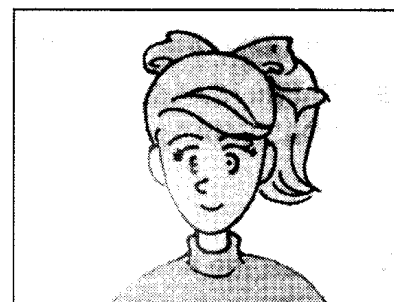
Forced Flash Mode

- The flash will operate with every picture taken without depending on the subject brightness.

Use this setting when taking the picture in a bright place but the subject is in the shade, under backlight conditions, under fluorescent lighting conditions, etc.



Subject in the shadow



Backlight conditions

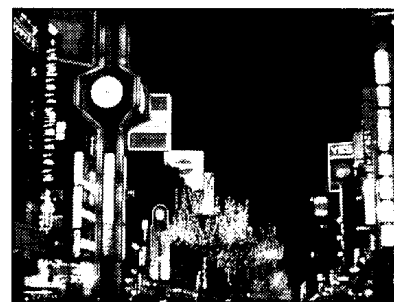
Flash Off Mode

- The flash will not light even under dark conditions.

Use this setting when taking a picture in a location where you may not use the flash, or when taking a night scene.



Location where the flash may not be used



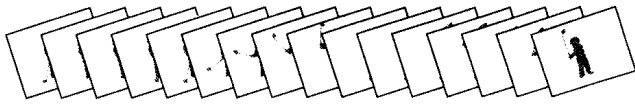
Night scene

HELP:

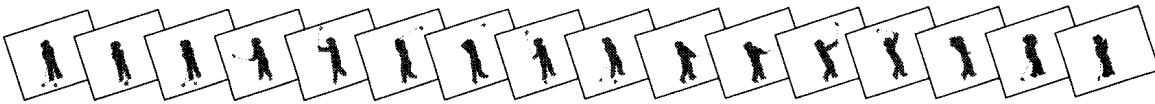
- When taking a picture in the dark without the flash, the camera will use the slowest shutter speed of 1/4 sec. In order to avoid blurred pictures, use a tripod or other to stabilise the camera. If the subject moves, the picture will not be clear.

MULTIPLE PICTURES PHOTOGRAPHY (MULTI SHOT)

The multiple pictures function will take 16 sequential pictures at 1/16 of the normal size and save them as one normal size picture. The multiple pictures function has two modes that can be selected according to the picture condition.

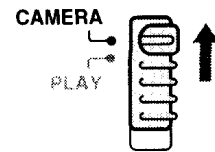


Multiple pictures mode 1: 16 pictures will be taken at a 0.1 second interval (total of 1.6 second)



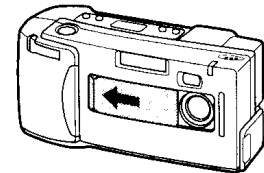
Multiple pictures mode 2: 16 pictures will be taken at a 0.2 second interval (total of 3.2 seconds)



- ① Set the **CAMERA/PLAY** switch to the "CAMERA" position.



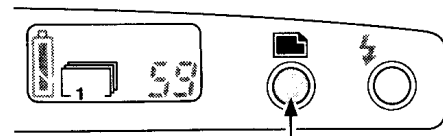
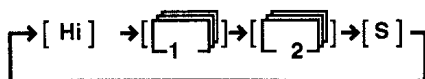
- ② Open the lens cover.

- The power is turned on.




- ③ Press the **Picture resolution mode button** to select the desired multiple pictures mode ( or  is displayed).


- Each time the button is pressed, the resolution and the multiple pictures modes setting switches as indicated below.



Picture resolution mode button

Hi : High resolution mode ... picture quality (see page 32)

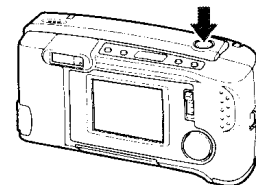
 : Multiple pictures mode 1

 : Multiple pictures mode 2

S : Standard resolution mode ... picture quality (see page 32)

- ④ Press on the **Shutter release button**.

- The camera will take the 16 pictures according to the selected mode.



Multiple pictures mode example

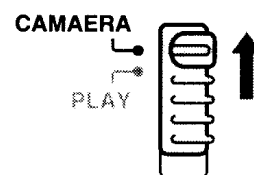
NOTE:

- In multiple pictures mode, the flash will automatically set to Flash off mode.
- If the voice memo function (see page 42) is used, voice recording will be done for 4 seconds after the last picture has been taken.

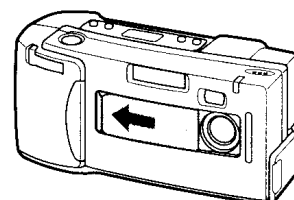
VOICE MEMO

The voice memo function permits you to record the sound for 4 seconds after the picture has been taken, and to save that sound with the picture.

- 1 Set the **CAMERA/PLAY** switch to the **"CAMERA"** position.

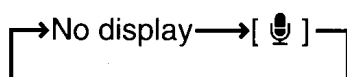


- 2 Open the lens cover.
 - The power is turned on.

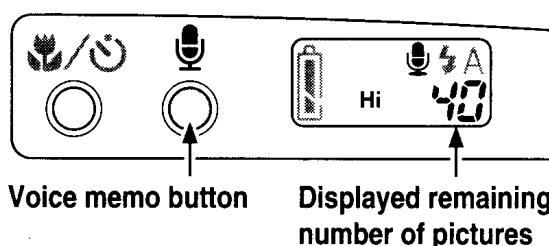



- 3 Press the Voice memo button to display the voice memo indicator [].

- Each time the button is pressed, the voice memo mode switches as indicated below.



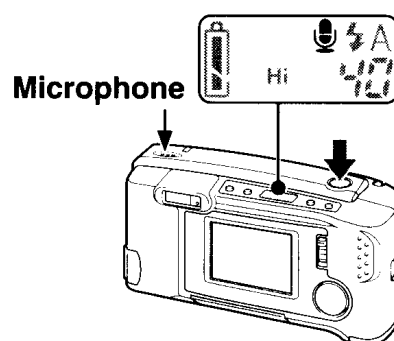
- The displayed remaining number of pictures will change to indicate how many pictures can be taken at the selected resolution and using the voice memo function.



No display: Voice memo function off
[]: Voice memo function on

- 4 Press on the Shutter release button, then talk into the microphone.

- The voice memo indicator will flash for about 4 seconds, while the sound is being recorded.
- After the sound has been recorded, the voice memo function is automatically cancelled.



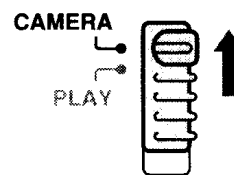
NOTE:

- Even after having taken pictures without the voice memo function, you can add sound to the ones you want, see "SOUND AFTER-RECORDING" on page 51.
- The memory usage of the voice memo for each picture is equivalent to 1 high resolution picture or less.
- After a picture has been taken with the voice memo function on, the sound part only cannot be erased, when the picture is erased, the corresponding sound is also erased.
- In multiple pictures mode, the voice memo function will start recording the 4 seconds of sound after all the pictures have been taken (1.6 second for multiple pictures mode 1 and 3.2 seconds for multiple pictures mode 2).
- To listen the recorded voice memo, press SET of the MODE button. (See "Playing Back the Sound" on page 45.)

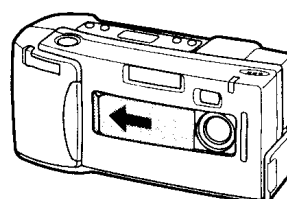
SELF-TIMER

The self-timer function will take the picture automatically 10 seconds after the Shutter release button is pressed.

- 1 Set the CAMERA/PLAY switch to the "CAMERA" position.

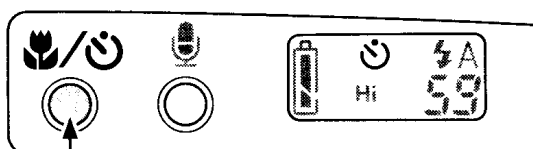


- 2 Open the lens cover.
 - The power is turned on.

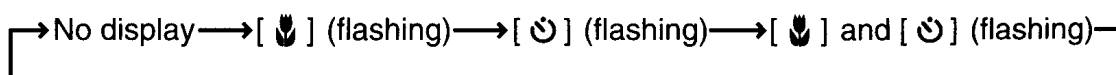


- 3 Press the Macro/Self-timer button until the [⌚] indicator is displayed flashing.

- Each time the button is pressed, the macro/self-timer mode switches as indicated below.



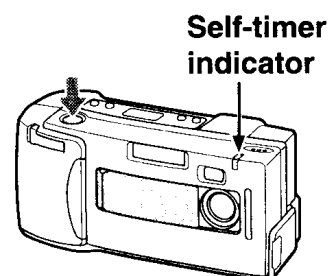
Macro/Self-timer button



No display:	Macro/Self-timer function off (normal mode for taking pictures)
[⌚] (flashing):	Macro photography (see page 44)
[⌚] (flashing):	Self-timer
[⌚] and [⌚] (flashing):	Macro photography with self-timer (see page 44)

- 4 Press on the Shutter release button.

- The Self-timer indicator will light for about 7 seconds, flash for 3 seconds then the picture is taken.
- After the picture has been taken, the self-timer is automatically cancelled.
- If you press on the Shutter release button before the picture has been taken while using the self-timer function, that will interrupt it.
To cancel the self-timer function, press the Macro/Self-timer button until the Self-timer [⌚] indicator is not displayed anymore.



NOTE:

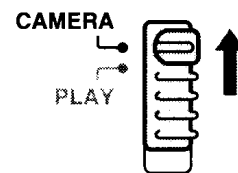
- When using the self-timer function, use a tripod or place the camera on a level, stable surface.

MACRO PHOTOGRAPHY

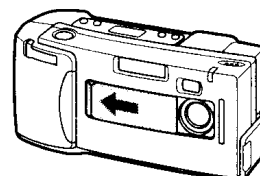
When taking pictures at close range (20 – 50 cm) use the macro function.

The macro function can be used together with the self-timer function.

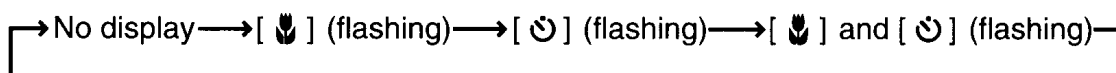
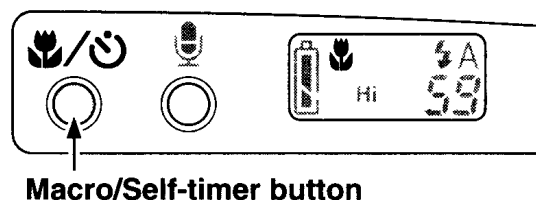
- 1 Set the CAMERA/PLAY switch to the "CAMERA" position.



- 2 Open the lens cover.
 - The power is turned on.

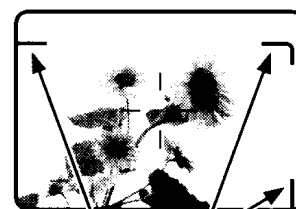


- 3 Press the Macro/Self-timer button until the [🌸] indicator is displayed flashing.
 - Each time the button is pressed, the macro/self-timer mode switches as indicated below.



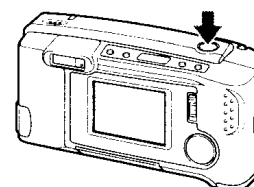
- For macro photography using the self-timer function, select the [🌸] and [⌚] indicators.

- 4 Compose the picture.
 - To compensate for viewfinder-lens relative disalignment, compose the picture in the area delimited by the close-up alignment correction marks when taking a picture of a subject at about 20 cm from the lens.
 - For macro photography, it is recommended to compose the image while viewing it on the LCD monitor screen (see page 37).



Close-up alignment correction marks

- 5 Press on the Shutter release button.
 - The picture will be taken in the macro mode.
 - After the picture has been taken, the macro mode is automatically cancelled.



NOTE:

- To avoid blurred pictures, it is recommended to use a tripod, or rest the camera on some stable surface.

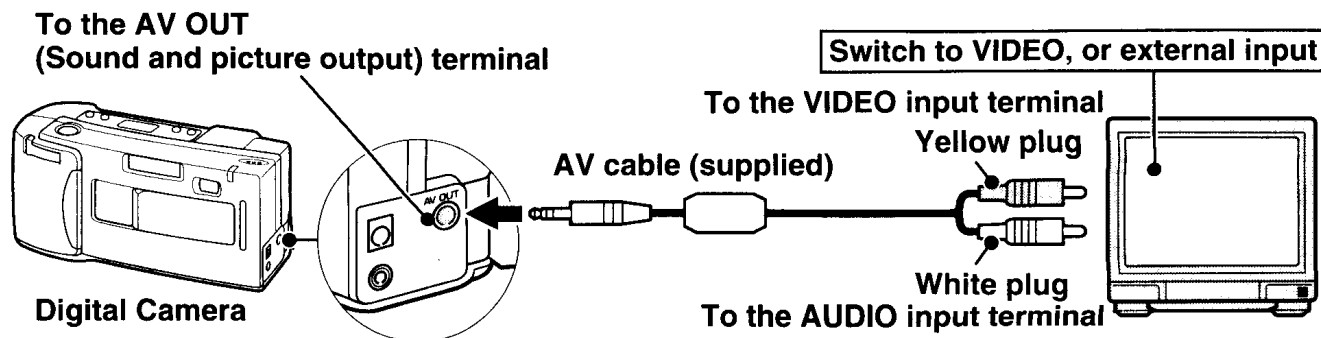
PLAYING BACK PICTURES ON A TV SET

The pictures you have saved in the camera, can also be played back on your TV set.

Connections

Connect the supplied AV cable from the AV OUT (Sound and picture output) terminal on the camera, to the AUDIO and VIDEO input terminals on your TV.

Then, press the input mode button on the TV, to select the external input or "VIDEO" mode.



The sound output from the camera is monaural.

If the TV is equipped with an EURO-AV type audio/video input terminal use the supplied SCART adaptor.

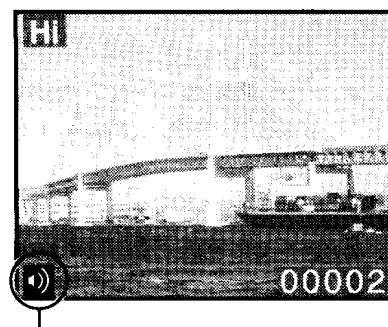
Playing Back the Images

The playback method is the same as indicated under "PLAYING BACK ONE PICTURE" on page 46 or "AUTOMATIC PLAYBACK, 9 PICTURES MULTI-PLAYBACK" on page 47.

Playing Back the Sound

- The pictures that have an attached voice memo, will display the voice memo icon. To listen the voice memo, press SET of the MODE button.

When the pictures are played back using the "Automatic Playback" method on page 47, the sound is played back automatically.



Voice memo icon
(will go off after 2 seconds)

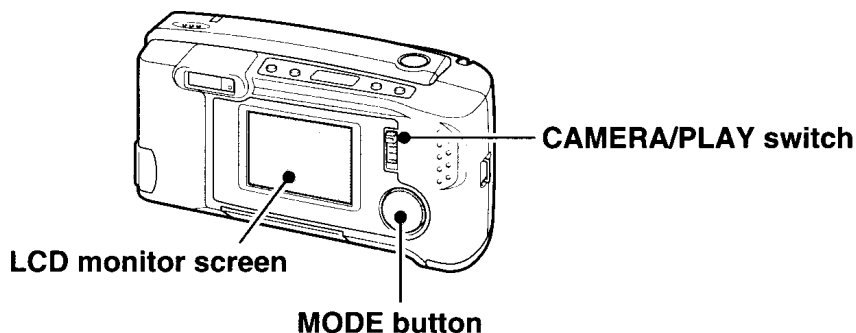
HINT:

In order to save the batteries power

- Set the MONITOR switch to the "OFF" position, so the display will not also appear on the LCD monitor screen.

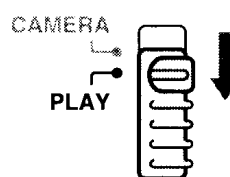
PLAYING BACK ONE PICTURE

You can playback individually the pictures taken and saved in the camera, on the LCD monitor screen.



① Set the CAMERA/PLAY switch to the “PLAY” position.

- An image appears.
- Pictures can be played back whether the lens cover is opened or closed. However, to protect the lens, we recommend to keep cover closed.



② Press ◀ of the MODE button.

- Each time the button is pressed, the previous image is displayed.
- To playback the next image, press ▶ of the MODE button.



■ **When finished, set the CAMERA/PLAY switch to the “CAMERA” position, then close the lens cover.**

HINT:

- The voice memo accompanying the picture can be listened when playing back the pictures on the LCD monitor screen, or when playing back the pictures on a TV set (see page 45).
- The date and time of the pictures can be displayed during playback (see page 49).

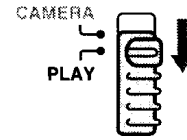
AUTOMATIC PLAYBACK, 9 PICTURES MULTI-PLAYBACK

Automatic Playback

You can playback the pictures taken and saved in the camera sequentially in a “slide-show” fashion.

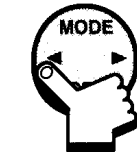
- 1 Set the **CAMERA/PLAY** switch to the “**PLAY**” position.

- An image appears.

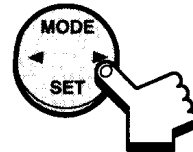


- 2 Press **◀** or **▶** of the **MODE** button for about 2 seconds.

- Automatic sequential playback (each picture will be displayed for about 4 seconds) of the images will start.

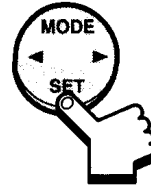
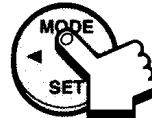


[◀]: Automatic sequential reverse playback



[▶]: Automatic sequential forward playback

- 3 To stop automatic playback, press **MODE** or **SET** of the **MODE** button.



- When finished, set the **CAMERA/PLAY** switch to the “**CAMERA**” position, then close the lens cover.

9 Pictures Multi-playback

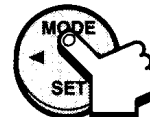
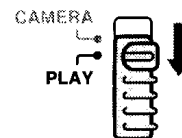
You can displayed 9 pictures simultaneously, then select one to playback full screen.

- 1 Set the **CAMERA/PLAY** switch to the “**PLAY**” position.

- An image appears.

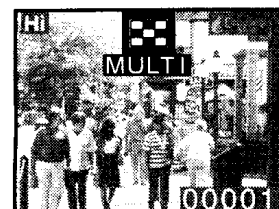
- 2 Press **MODE** of the **MODE** button once.

- The multi-playback mode icon is displayed on the LCD monitor screen.
- Each time the button is pressed, the mode switches as indicated below.



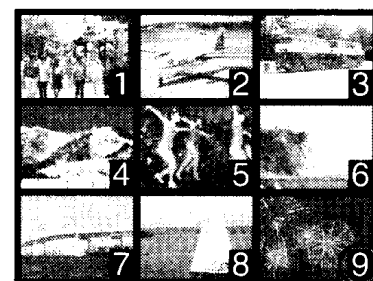
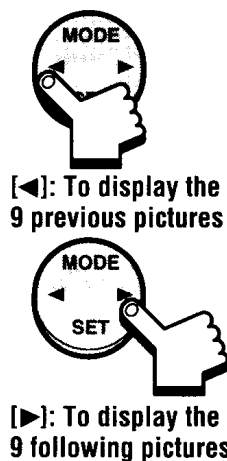
→No indication→[MULTI]→[PROTECT]→[ERASE]→[SPECIAL]→

No indication:	Normal playback mode
[MULTI]:	9 Pictures Multi-playback mode
[PROTECT]:	Protect mode (see page 53)
[ERASE]:	Erase mode (see page 55)
[SPECIAL]:	Special settings mode (Date/Time display selection and setting, and SmartMedia formatting) (see page 17, 49, 59)



③ Press ◀ or ▶ of the MODE button.

- 9 pictures multi-playback starts. If the button is pressed again, the 9 previous or 9 following pictures are displayed.
- The last 3 digits only of the picture number are displayed.

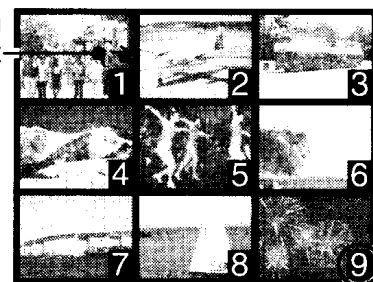
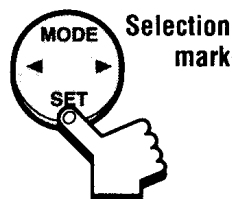


9 Pictures Multi-playback mode

Picture number (will go off after 2 seconds)

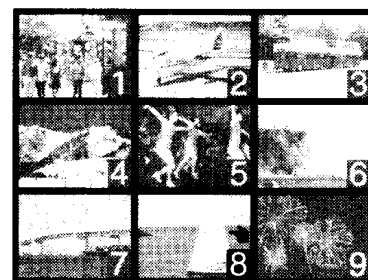
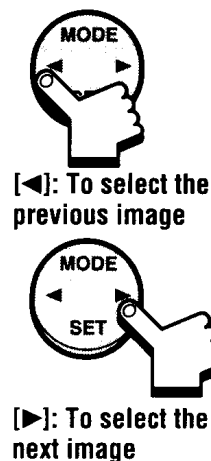
④ If you wish to playback one of the 9 pictures displayed, press SET of the MODE button.

- The selection mark [➔] is displayed.



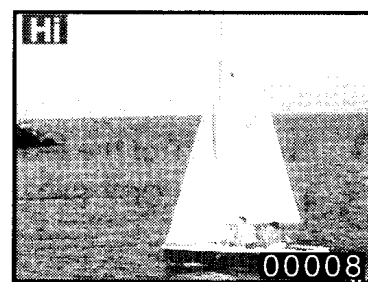
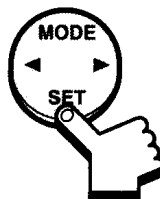
Picture number (will not go off)

⑤ Press ◀ or ▶ of the MODE button, to select the desired picture.



⑥ Press SET of the MODE button.

- The selected picture will be displayed full-screen.
- A five digits number is displayed.



Picture number

■ When finished, set the CAMERA/PLAY switch to the “CAMERA” position, then close the lens cover.

If some pictures numbers are missing.

- The picture number refers to the picture data file location in the memory. Therefore, if some pictures have been erased their corresponding numbers are also erased but the following pictures numbers will remain the same, and it may appear like some pictures numbers are missing. For example, if picture number 00005 is erased, then at step ③ above pictures 1 to 4 and 6 to 9 are displayed.

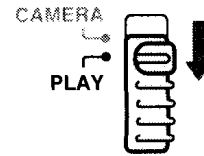
DATE AND TIME DISPLAY

When playing back the pictures, you can select to have the date and time the picture was taken displayed along with the image.

If the date and time have not been set (see page 17), [— —] will be displayed.

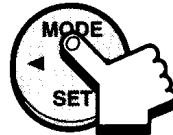
① Set the CAMERA/PLAY switch to the "PLAY" position.

- An image appears on the LCD monitor screen.



② Press MODE of the MODE button four times.

- The special mode icon [SPECIAL] is displayed on the LCD monitor screen.
- Each time the button is pressed, the mode switches as indicated below.



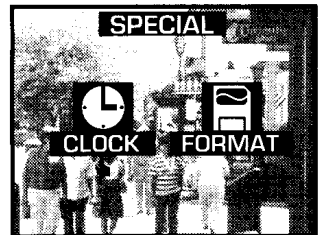
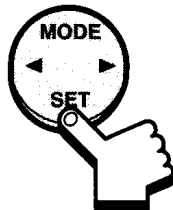
SPECIAL mode icon

→No indication →[MULTI]→[PROTECT]→[ERASE]→[SPECIAL]→

No indication:	Normal playback mode
[MULTI]:	9 pictures multi-playback mode (see page 47)
[PROTECT]:	Protect mode (see page 53)
[ERASE]:	Erase mode (see page 55)
[SPECIAL]:	Special settings mode (Date/Time display selection and setting, and SmartMedia formatting)

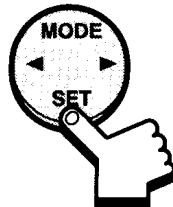
③ Press SET of the MODE button.

- [CLOCK] and [FORMAT] are displayed.



④ Press SET of the MODE button.

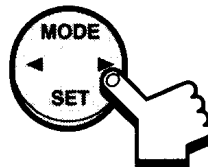
- The [CLOCK SET] screen is displayed.



- ⑤ Press ◀ or ▶ of the MODE button to select [DISP ON].

[DISP ON]: The date and time of the picture will be displayed on screen during playback. If they have not been set (see page 17), [— —] will be displayed instead.

[DISP OFF]: The date and time of the picture will not be displayed.



- To change the date display format please continue with step ⑥, or to finish please go to step ⑧.

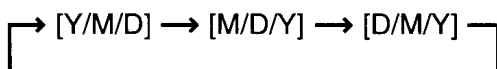
- ⑥ Press SET of the MODE button.

- The indicator ◀▶ will move to the [Y/M/D] position.



- ⑦ Press ◀ or ▶ of the MODE button to set the desired date format.

- Each time the ▶ button is pressed, the format mode switches as indicated below.



[Y/M/D]: Year/Month/Day format display
 [M/D/Y]: Month/Day/Year format display
 [D/M/Y]: Day/Month/Year format display

(Press the ◀ button to change in the reverse order.)

- ⑧ Press SET of the MODE button.

- The setting screen is erased and the picture playback with date and time display will appear.

Date display —
 Time display —



- When finished, set the CAMERA/PLAY switch to the “CAMERA” position, then close the lens cover.

NOTE:

To turn off the date and time display

- At step ⑤, select [DISP OFF], then press SET of the MODE button.

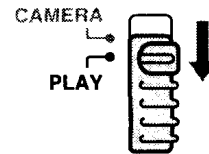
SOUND AFTER-RECORDING

A voice memo (sound recording) can be added to any picture taken with the camera.

If the SmartMedia Mis-recording protection function is active (a write-protect sticker is attached to the write-protect area), the sound after-recording will not be possible. (See page 15.)

① Set the CAMERA/PLAY switch to the "PLAY" position.

- An image appears.

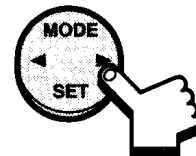


② Press ◀ or ▶ of the MODE button to display the desired image.

- If the Voice memo icon and the Protect mark are displayed with the selected picture, sound recording will not be possible. (see page 53.)
- If the Voice memo icon or Protect mark only is displayed with the selected picture, sound recording can be performed directly without having to erase the Protect mark.



To display the previous picture



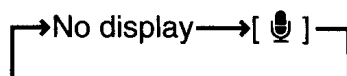
To display the next picture



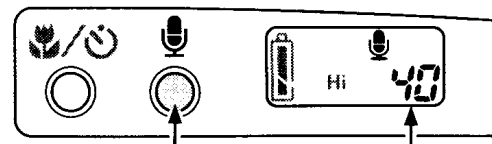
Voice memo icon Protect mark

③ Press the Voice memo button to display the voice memo indicator [🎤].

- Each time the button is pressed, the voice memo mode switches as indicated below.



No display: Voice memo function off
[🎤]: Voice memo function on



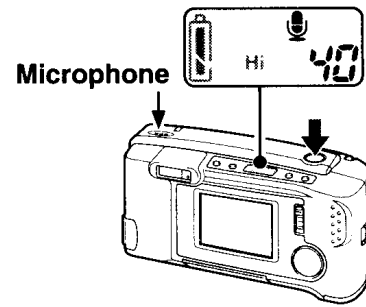
Voice memo button

Displayed remaining number of pictures

- The displayed remaining number of pictures will change to indicate how many pictures can be taken at the selected resolution and using the voice memo function.

④ Press the Shutter release button, then talk into the microphone.

- The voice memo indicator will flash for about 4 seconds, while the sound is being recorded.
- After the sound has been recorded, the voice memo function is automatically cancelled.



NOTE:

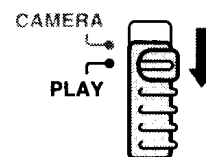
- The voice memo can also be recorded when the picture is taken, see “VOICE MEMO” on page 42.
- The memory usage of the voice memo for each picture is equivalent to 1 picture in High resolution mode or less.
- After a voice memo has been added to a picture, the sound part only cannot be erased, when the picture is erased, the corresponding sound is also erased.
- If the displayed remaining number of pictures that can be taken indicates “00”, then a voice memo cannot be added.
- If a voice memo is added, using the Sound After-Recording function, to an image that was taken using the voice memo function (already has a voice memo) then the subsequent recording will replace any previous one.

PICTURE PROTECTION


You can prevent accidental erasure of the important pictures you wish to keep. (However, if the SmartMedia is reformatted (see page 59), all data on the card will be lost permanently.)

① Set the CAMERA/PLAY switch to the “PLAY” position.

- An image appears.

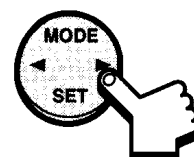


② Press ◀ or ▶ of the MODE button to display the image to protect.

- For images already protected, the protect mark (a padlock) [] is displayed in the top right corner.
- If there are a lot of images saved in the camera, use the “9 Pictures Multi-Playback” method (see page 47), for faster selection.



To display the previous picture



To display the next picture

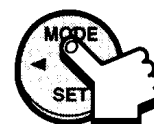


Protect mark

③ Press MODE of the MODE button twice.

- [PROTECT] will be displayed on the LCD monitor screen.
- Each time the button is pressed, the mode switches as indicated below.

→No indication→[MULTI]→[PROTECT]→[ERASE]→[SPECIAL]→



PROTECT display

No indication: Normal playback mode


[MULTI]: 9 Pictures multi-playback mode (see page 47)

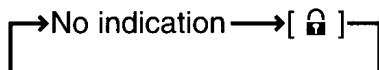
[PROTECT]: Protect mode


[ERASE]: Erase mode (see page 55)

[SPECIAL]: Special settings mode (Date/Time display selection and setting, and SmartMedia formatting) (see page 17, 49, 59)

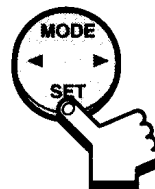
④ Press SET of the MODE button.

- The protection feature will be set for the displayed image, and the protect mark [] will be displayed.
- Each time the button is pressed, the mode switches as indicated below.



No indication: Protection feature off
[]: Protection feature on

- To protect more than one picture, repeat steps ② and ④.
- Press MODE of the MODE button, to return to normal picture playback.



Protect mark

■ When finished, set the CAMERA/PLAY switch to the “CAMERA” position, then close the lens cover.

HELP:

To turn off the protection feature

- Display the protected image you wish to turn the protection feature off. Follow steps ③ and ④ above. The protection feature will be turned off for the displayed image, and the protect mark will be erased.

ERASING PICTURES

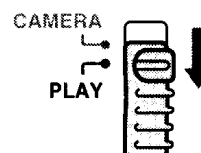
You can erase the missed pictures, or pictures that are no longer needed. You can erase the pictures one by one, or erase at once all the pictures saved in the camera.

If the SmartMedia Mis-recording protection function is active (a write-protect sticker is attached to the write-protect area), it will not be possible to erase the pictures. Remove the write-protect sticker, before attempting to erase pictures. (See page 15.)

Erasing One Picture

- ① Set the **CAMERA/PLAY** switch to the **"PLAY"** position.

- An image appears.

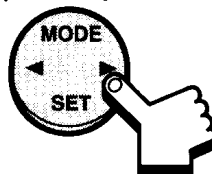


- ② Press ◀ or ▶ of the **MODE** button to display the image to erase.

- The protected pictures cannot be erased. If necessary, turn the protection feature off before erasing the image (see page 53).
- If there are a lot of images saved in the camera, use the "9 Pictures Multi-Playback" method (see page 47), for faster selection.



To display the previous picture



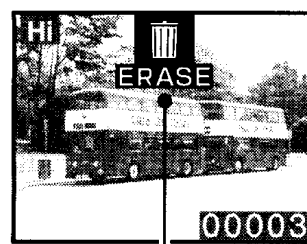
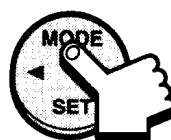
To display the next picture



Protect mark

- ③ Press **MODE** of the **MODE** button three times.

- [ERASE] will be displayed on the LCD monitor screen.
- Each time the button is pressed, the mode switches as indicated below.



ERASE display

→No indication→[MULTI]→[PROTECT]→[ERASE]→[SPECIAL]→

No indication: Normal playback mode

[MULTI]: 9 Pictures multi-playback mode (see page 47)

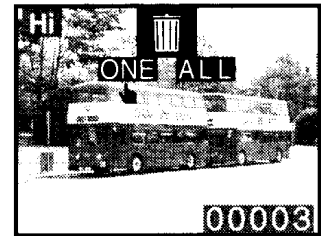
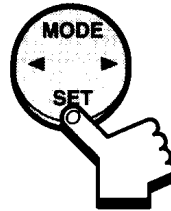
[PROTECT]: Protect mode (see page 53)

[ERASE]: Erase mode

[SPECIAL]: Special settings mode (Date/Time display selection and setting, and SmartMedia formatting) (see page 17, 49, 59)

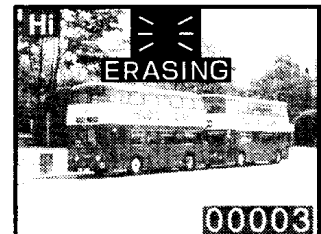
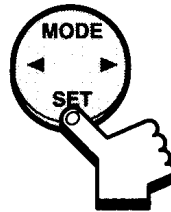
④ Press SET of the MODE button.

- The ONE (erase one picture) / ALL (erase all pictures) selection screen will be displayed.
- Make sure the selection mark [↵] points to ONE.



⑤ Press SET of the MODE button.

- [ERASING] is displayed, and the selected image is erased.
- If the image had a voice memo attached, it will also be erased.
- To erase more than one picture, repeat steps ②, ④, ⑤.
- Press MODE of the MODE button, to return to normal picture playback.



■ **When finished, set the CAMERA/PLAY switch to the “CAMERA” position, then close the lens cover.**

NOTE:

To cancel the erase operation

- In steps ③ or ④, press MODE of the MODE button to return to the previous steps. Press MODE of the MODE button until [ERASE] is not displayed any more.

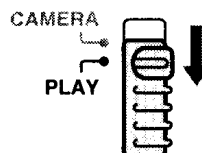
ERASING PICTURES (CONTINUED)

Erasing All the Pictures

All the pictures saved in the camera can be erased together. However, the protected pictures and their voice memo cannot be erased. Also, if the SmartMedia Mis-recording protection function is active (a write-protect sticker is attached to the write-protect area), it will not be possible to erase the pictures. Remove the write-protect sticker, before attempting to erase pictures. (See page 15.)

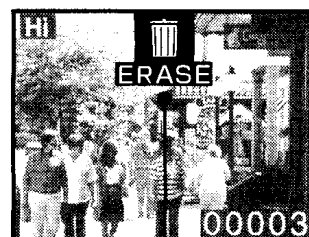
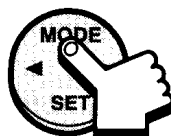
① Set the CAMERA/PLAY switch to the "PLAY" position.

- An image appears.



② Press MODE of the MODE button three times.

- [ERASE] will be displayed on the LCD monitor screen.
- Each time the button is pressed, the mode switches as indicated below.



ERASE display

→No indication→[MULTI]→[PROTECT]→[ERASE]→[SPECIAL]→

No indication: Normal playback mode

[MULTI]: 9 Pictures multi-playback mode (see page 47)

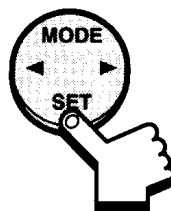
[PROTECT]: Protect mode (see page 53)

[ERASE]: Erase mode

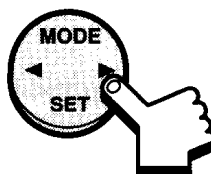
[SPECIAL]: Special settings mode (Date/Time display selection and setting, and SmartMedia formatting) (see page 17, 49, 59)

③ Press SET of the MODE button.

- The ONE (erase one picture) / ALL (erase all pictures) selection screen will be displayed.

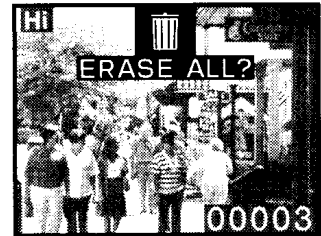
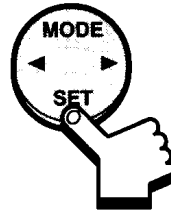


④ Press ◀ or ▶ of the MODE button, until the selection mark [↓] points to ALL.



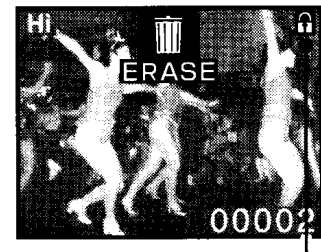
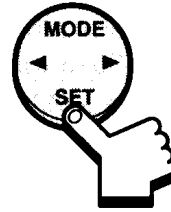
5 Press SET of the MODE button.

- The confirm screen [ERASE ALL ?] is displayed.
- To cancel the erase operation, press MODE, ◀ or ▶ of the MODE button, to return to step 4.



6 To erase, press SET of the MODE button.

- [ERASING] is displayed, and all the images without the protection feature on are erased.
- If the images had a voice memo attached, they will also be erased.
- After all the pictures have been erased, a grey screen will appear on the LCD monitor screen.
- If some pictures were protected, then one of the protected picture and [ERASE] will be displayed on screen.
- Press MODE of the MODE button, to return to normal picture playback.



Protect mark

■ **When finished, set the CAMERA/PLAY switch to the “CAMERA” position, then close the lens cover.**

NOTE:

To cancel the erase operation

- In steps 2, 3, 4 or 5, press MODE of the MODE button to return to the previous steps. Press MODE of the MODE button until [ERASE] is not displayed any more.

FORMATTING THE SMARTMEDIA

The supplied SmartMedia is initialised (formatted) before its release for sale, so it can be used immediately after it is inserted into the digital camera. However, the formatting may have been corrupted by static electricity and it may be impossible to use the SmartMedia. In such a case, follow the steps indicated here to reformat it.

Also, if using a SmartMedia card from another manufacturer, or if the card has been formatted by a computer, reformat the card using the camera to restore the optimum format capacity.

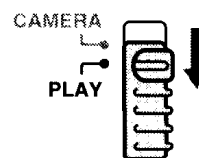
If a write-protect sticker is attached to the write-protect area, the Mis-recording protection function is active, formatting of the SmartMedia will not be possible. Remove the write-protect sticker, before attempting to format the SmartMedia. (See page 15.)

CAUTION

- Please note that even the protected images (see page 53) will be erased.

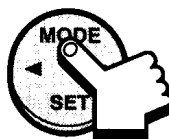
❶ Insert the SmartMedia into the camera. (see page 16.)

❷ Set the CAMERA/PLAY switch to the "PLAY" position.



❸ Press MODE of the MODE button to display the special mode icon [SPECIAL].

- If there are previous recordings, the mode switches as indicated below, each time the button is pressed.



→No indication →[MULTI] →[PROTECT] →[ERASE] →[SPECIAL]



SPECIAL mode icon

No indication: Normal playback mode

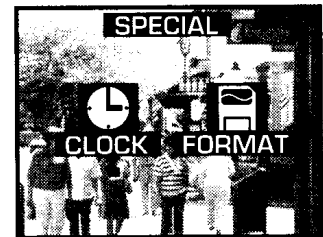
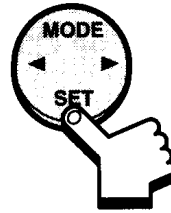
[MULTI]: 9 pictures multi-playback mode (see page 47)

[PROTECT]: Protect mode (see page 53)

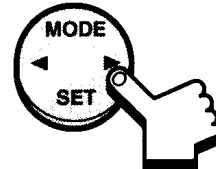
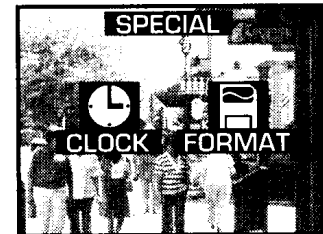
[ERASE]: Erase mode (see page 55)

[SPECIAL]: Special settings mode (Date/Time display selection and setting, and SmartMedia formatting)

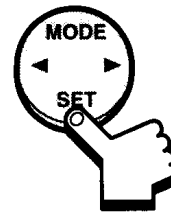
- ④ Press SET of the MODE button.
- [CLOCK] and [FORMAT] are displayed.



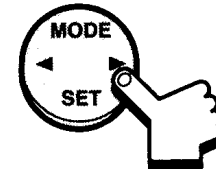
- ⑤ Press ◀ or ▶ of the MODE button, until the selection mark [▀] points to [FORMAT].



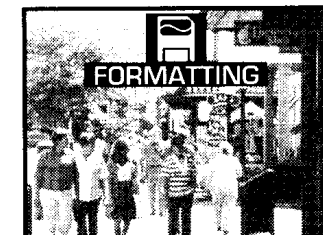
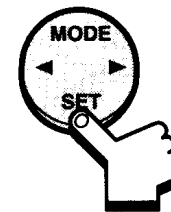
- ⑥ Press SET of the MODE button.
- The confirm screen [REFORMAT?] is displayed.



- ⑦ Press ◀ or ▶ of the MODE button, until the selection mark [▀] points to [YES].



- ⑧ To format, press SET of the MODE button.
- [FORMATTING] is displayed, and formatting of the SmartMedia will start.
 - After the SmartMedia has been formatted, a grey screen will appear on the LCD monitor screen.



HELP:

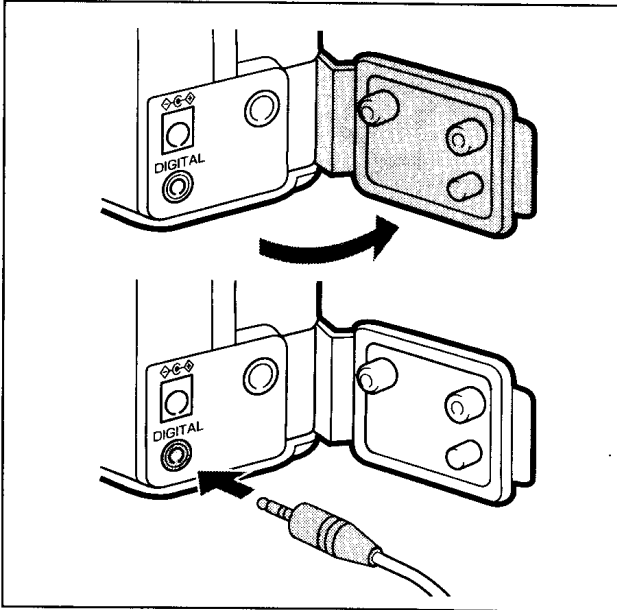
To cancel the formatting function before format is started.

- At step ⑦, select [NO], then press MODE of the MODE button repeatedly until the special mode display is canceled.

USING THE CAMERA WITH THE COMPUTER

Your camera takes pictures that are saved as image files and can be directly downloaded to an IBM compatible personal computer running Windows 3.x, Windows 95 software, or a MAC or Power Mac computer. The images can then be edited using the supplied software, and added to documents such as reports, multimedia presentations, World-Wide Web (Internet) home pages, etc.

Connecting the Camera to the Computer



- ❶ Make sure the camera is turned off.
- ❷ Open the terminal cover on the side of the camera.
- ❸ Plug the mini jack of the supplied interface cable into the DIGITAL port.
- ❹ Plug the other connector of the interface cable into the computer serial port (9-pin male connector), and tighten the screws.

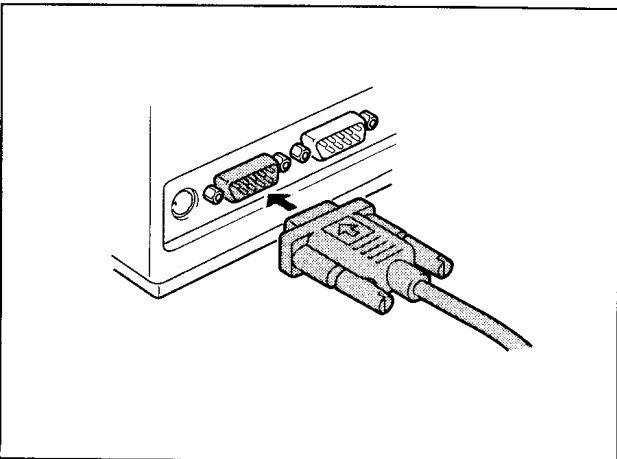
NOTE:

If your computer is only equipped with one 9-pin serial port, you may have to temporarily unplug the connected device to connect the camera to the computer. (If using a MAC computer, you will need an adaptor.)

- ❺ Open the lens cover on the camera and turn on the computer.
- ❻ For the software installation and instructions, please refer to the utility software manual.

NOTE:

When the camera is connected to a computer there is no display on the LCD monitor screen.



TROUBLESHOOTING

	Problem	Cause	Action	Reference page
Power	No power	The lens cover is closed (when taking pictures)	Open the lens cover	28 • 29
		The batteries have not been inserted correctly.	Reinsert the batteries, making sure the polarity (+), (–) is as indicated.	13
		The batteries are dead.	Insert new batteries.	
		Due to cold temperatures, the batteries temporarily lost their power.	Place the camera in your pocket to warm it up before using it.	
Taking pictures	A picture cannot be taken when pressing on the Shutter release button.	A write-protect sticker is attached to the write-protect area of the SmartMedia.	Remove the write-protect sticker.	15
		The power is not turned on.	If the power save function has turned the camera off, then close and reopen the lens cover, or press once on the Shutter release button then release it to turn the camera back on.	28 • 29
		The stand-by indicator is flashing red (the camera is getting ready to take a picture)	Wait until the stand-by indicator lights in green to take the picture.	26
		When the picture memory is full (the stand-by indicator will lights in red, the displayed remaining number of pictures that can be taken becomes "00" on the control panel)	Install a new SmartMedia	16
			Erase the pictures that are not necessary	34 • 55 • 61
			Save the pictures to separate media, then erase all the pictures from the SmartMedia	
		The SmartMedia is not formatted	Format the SmartMedia	59
		The SmartMedia is damaged	Use a new SmartMedia	15
	The flash does not light.	The flash off mode is selected.	Press the Flash button to select the forced flash or automatic flash mode.	39
		The camera has determined that the picture is bright enough and the flash is not necessary.	Take the picture, the camera will determine when the flash is necessary.	
		The batteries are dead.	Insert new batteries.	13

TROUBLESHOOTING (CONTINUED)

	Problem	Cause	Action	Reference page
LCD monitor screen	When taking a picture, no image is displayed on the LCD monitor screen.	The lens cover is closed, or the MONITOR switch is set to the "OFF" position.	Open the lens cover or set the MONITOR switch to the "ON" position.	37
	No playback picture appears.	The CAMERA/PLAY switch is set to the "CAMERA" position.	Set the CAMERA/PLAY switch to the "PLAY" position.	46
	If played back in cold weather, the picture may seem to present curved sides.	Condition due to the liquid crystals.	Normal condition.	
	The image presents some red, blue and green dots, or there are black spots visible.			
	The area around the LCD monitor screen may become warm.	This is due to a rise in temperature of the internal parts and is normal.		
	The images cannot be erased	The Mis-recording protection function is active (a write-protect sticker is attached to the write-protect area)	Remove the write-protect sticker	15
Picture quality	The focus does not work.	The subject is too close to the camera.	The distance for macro photography is 20 – 50 cm. The distance for standard photography is 50 cm or more.	44
		The camera moved when the shutter was released.	Hold the camera correctly, then press slowly on the Shutter release button.	36
		The desired subject was not centered in the autofocus mark.	Make sure the subject is at the centre of the picture, or use the focus-lock function.	37
		The lens is dirty.	Clean the lens.	8
	The picture is too dark.	The flash was blocked by a finger or other.	Hold the camera correctly, make sure a finger or hand-strap does not cover the flash.	35
		The subject was too far away.	Take the picture in the range of operation of the flash (2.4 m or less).	39
		The subject was backlit.	Use the forced flash mode.	

	Problem	Cause	Action	Reference page
Picture quality	The picture is too bright.	The forced flash mode is selected.	Select a different flash mode.	39
		The subject was too bright.	Change the angle of the camera.	
	The colors of the pictures taken indoors are not correct.	This is due to fluorescent lighting.	Take the picture using the forced flash mode.	39
	A part of the picture is missing.	The hand-strap or other was blocking the lens.	Hold the camera correctly, make sure a finger or hand-strap does not cover the lens.	35
	A part of the picture is missing.	The picture was taken at close range.	When taken a picture at close range, use the close-up alignment correction marks or compose the picture using the LCD monitor screen.	37 • 44
	No picture (ⓧ is displayed)	This may happen when trying to playback pictures stored on the SmartMedia using a different digital camera.	Playback pictures stored on the SmartMedia using this camera	15
			Format the SmartMedia	59
Playing back the pictures on a TV set	No image or sound.	The camera is not correctly connected to the TV screen.	Follow the instructions to make the connection correctly.	45
		The TV input is not set to “VIDEO”.	Set the input on the TV to “VIDEO”.	
	There is no sound.	The volume on the TV is set to the minimum.	Adjust the volume on the TV.	
		No sound has been recorded for the images.	Press the Voice memo button and talk into the microphone.	42
	A sound is heard when the CAMERA/PLAY switch is set to the “PLAY” position.	Does not indicate a problem.	Normal condition.	

SPECIFICATIONS

Type	CCD Digital still-frame camera (recording and playback)	
Recording system	Digital recording	
Picture file format	JPEG compliant (Exif compliant)	
Image storage device	SmartMedia (3.3 V)	
Recording capacity (with a 4 MB SmartMedia)	Without sound	120 pictures (standard resolution) 60 pictures (high resolution, multiple pictures mode 1/2)
	With sound	62 pictures (standard resolution) 41 pictures (high resolution, multiple pictures mode 1/2)
Erase method	1 picture erase, all pictures erase	
Image sensor	1/3 inch CCD progressive scan type image sensor, 350,000 pixels (Total pixel number)	
Recorded picture image definition	640 x 480 pixels (High resolution mode) 320 x 240 pixels (Standard resolution)	
White balance	Full auto TTL	
Lens	f=5mm, auto-focus F2.8 (equivalent to a 36mm on a 35mm camera)	
Aperture	F2.8, F5.6, F11 (automatic selection)	
Photometric system	Image sensor based TTL centre balanced average metering type	
Exposure control type	Aperture, shutter range programmed exposure	
Range	50 cm – ∞ (normal photography), 20 cm – 50 cm (macro photography)	
Shutter	1/4 – 1/10,000 sec.	
Exposure	Equivalent to ISO 100	
Viewfinder	Optical direct image viewfinder (Close-up alignment correction marks, autofocus mark)	
LCD monitor screen	2.0 inch, Low-temperature Polysilicon TFT color LCD	
Monitor pixels	Approx. 110,000 pixels	
Flash working range	0.6 m – 2.4 m (normal photography), 0.2 m – 0.6 m (macro photography)	
Flash modes	Auto-flash, Flash off, Forced flash	
Auto-focus	TTL system AF	
Self-timer	10 sec. delay	
Time/Date	Set using the computer connecting cable Recorded with picture data (automatic calendar to the year 2037)	
Operating environment	Temperature	0 – 40°C (operation), –20 – 60°C (storage)
	Humidity	30 – 90 % (operation, non condensing), 10 – 90 % (storage, non condensing)

Power supply	Battery	4 AA Alkaline batteries, AA NiCd rechargeable batteries (AA NiCd batteries can be used but the remaining charge level indicator may not be accurate) (Manganese batteries cannot be used)
	AC adaptor (sold separately)	VAR-G2E
Dimensions		138.5 (W) x 65.5 (H) x 43 (D) mm
Weight		Approx. 270 g (without batteries)

Connectors Specifications

AV OUT (Sound and picture output) terminal	ø3.5 mm mini jack	
	Audio output	308 mVrms (–8dBs), 2.2kΩ or less, monaural
	Video output	1.0 Vp-p, 75 Ω unbalanced, sync negative composite video, PAL color TV system
DIGITAL (Communication) terminal		ø2.5 mm mini jack RS-232C serial port (115.2kbps max)
DC IN (External DC power input) terminal		6.5/7.0 V (for AC Adaptor (VAR-G2E) (sold separately))

Supplied SmartMedia Specifications

Type		Image memory card for digital cameras
Memory capacity		4 MB
Operating environment	Temperature	0 – 40°C (operation), (storage)
	Humidity	30 – 90 % (operation, non condensing), 10 – 90 % (storage, non condensing)
Operating voltage		DC 3.3 V
Size		45 mm (D) x 37 mm (W) x 0.76 mm (H)
Weight		Approx. 1.8 g

- Products are subject to change in design and specifications without notice and without incurring any obligation.

GUARANTEE TO CUSTOMER

Sanyo U.K. Sales Ltd. (the Company) guarantees to the initial retail purchaser that if this equipment is or becomes defective and that, in the opinion of the Company, the defect is due to faulty material or workmanship the Company will, for a period of 12 calendar months from the date of sale to the original purchaser repair or replace, at its sole option, free of charge, any such defective component part of the equipment, always provided that:-

1. The equipment has at all times been used in accordance with the operating instructions issued by the Company, and has not been connected to an electrical mains supply for which it has not been adjusted.
2. Accidental damage, or damage caused by negligence or misuse by the user, including leakage from exhausted batteries, is specifically excluded.
3. Unauthorised repairs, or any modification to the equipment which has not been expressly approved by the Company, shall render this guarantee null and void.
4. Failure due to fair wear and tear of any item, such as batteries, record playing styli, and tape recording, playback and erase heads and head cleaning is specifically excluded.

This guarantee is not transferable and is only applicable within the United Kingdom (and the Republic of Ireland). Nothing in this express guarantee affects the statutory rights available to the purchaser of this equipment.

Dear Customer

Thank you for buying Sanyo. This equipment should give you many years of pleasure and faithful service but in the event that a fault occurs, the following notes for your guidance may be helpful:-

1. PLEASE RETAIN YOUR PURCHASE RECEIPT WHICH WILL BE REQUIRED FOR SERVICE DURING GUARANTEE.
2. If your Sanyo equipment proves faulty during the period of guarantee, take it or send it back to the dealer who originally supplied it together with this guarantee and the proof of purchase. We have made arrangements with our approved dealers under which they will carry out in guarantee service repairs on our behalf. In this way, we hope to reduce to a minimum the amount of time you will be without your equipment.
3. If for some reason it is impossible to return the equipment to the original supplier, please contact our Service Administration Department at the address below for further advice.
4. Should the equipment require servicing after the expiry of the guarantee period, take or send it to the original supplier or any other Sanyo dealer. He will be pleased to give you a quotation for the repair. If you are in any doubt about what to do, write to us at the address below or telephone:

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