

Federal Communications Commission (FCC) Statement

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

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

Warning: A shielded-type power cord is required in order to meet FCC emission limits and also to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord be used.

Use only shielded cables to connect I/O devices to this equipment.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

I. Introduction

◆Features	1
◆System Requirements	1

◆II.Preparation

◆Check the Accessories	2
◆Names of Functions and Parts	3
◆Install the Wristlet	4
◆Install the Battery	4
●Notes for Using Batteries	5
●Notes for Using AC Adapter	6

III.Operation

◆Power Switch	6
●Energy Saving Device	6
◆Select Modes	7
Control Panel	8
1.Flashlight(AUTO/ON/OFF)	8
2.Resolution(HI/LO)	8
3.Pictures counter-Taken/Remaining	8
4.Erase(ALL/LAST)	9
5.Self-Timer	10

6. Battery Level	11
7. Error Message Code	11
IV. Shooting	12
◆ Notes for Shooting	12
V. Connect the PC	13
VI. Care and Storage	14
VII. General Notes	15

Before using
mosa digital camera. Read this manual carefully to

store 32 high quality pictures
or 64 normal quality pictures

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23A

50/60 HZ, DC 3V 1.2A.

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VS 95.

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MB free space.

II. PREPARATION

*.Check the Accessories

Users Manual
Warranty Card

1. MAIN SET

2. RS 232 CABLE

3. WRISTLET

4. LITHIUM BATTERY

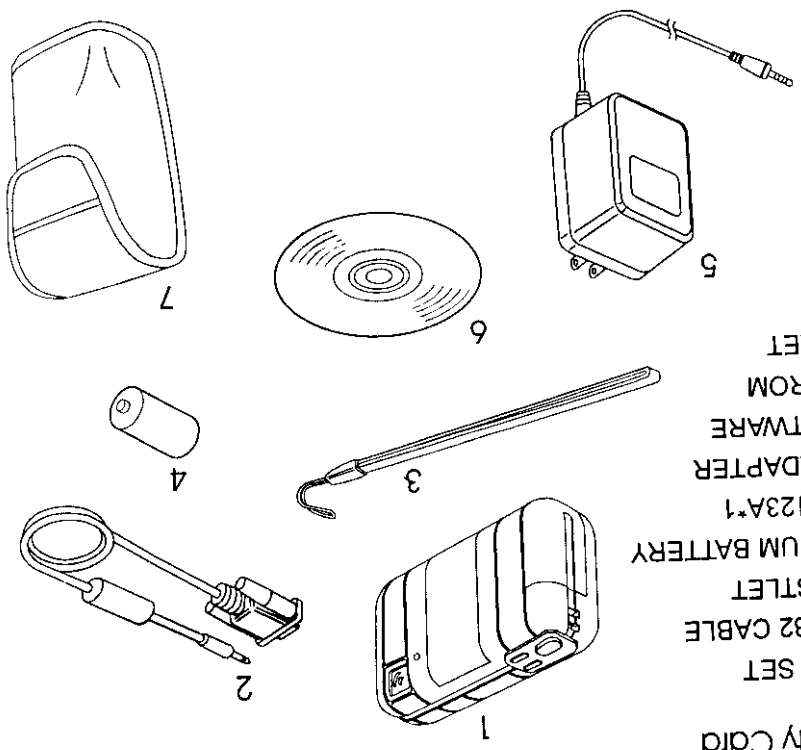
5. CR123A*1

6. AC ADAPTER

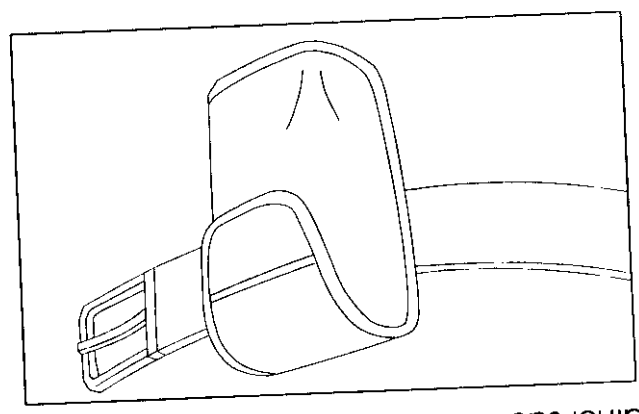
7. SOFTWARE

CD-ROM

8. SOCKET



*The leather sachet serves as a girdle pocket



Thank you for choosing Formosa digital camera. Before using your digital camera, Please read this manual carefully to ensure correct use.

I. INTRODUCTION

*Features

1. 2MB flash memory: can store 32 high quality pictures or 64 normal quality pictures

2. 24-bit true color.
3. Resolution: 640x480(VGA).

4. Flash-light: Three selections of AUTO/ON/OFF.

5. Self-timer: 10 seconds timer delay.

6. Focus Range: 60cm~infinity

7. Electronic Shutter: 1/30~1/10000 sec

8. Erase the Image: Two selections of ALL/LAST.

9. Power Supply: Battery CR123A

- AC Adaptor 50/60 HZ, DC 3V 1.2A.

10. RS232 serial port transfer.

11. Automatic energy saving function: The power will be shut down if there is no operation for 2 minutes.

*System Requirements

1. WINDOWS 3.1 or WINDOWS 95.

2. PC 486 or higher.

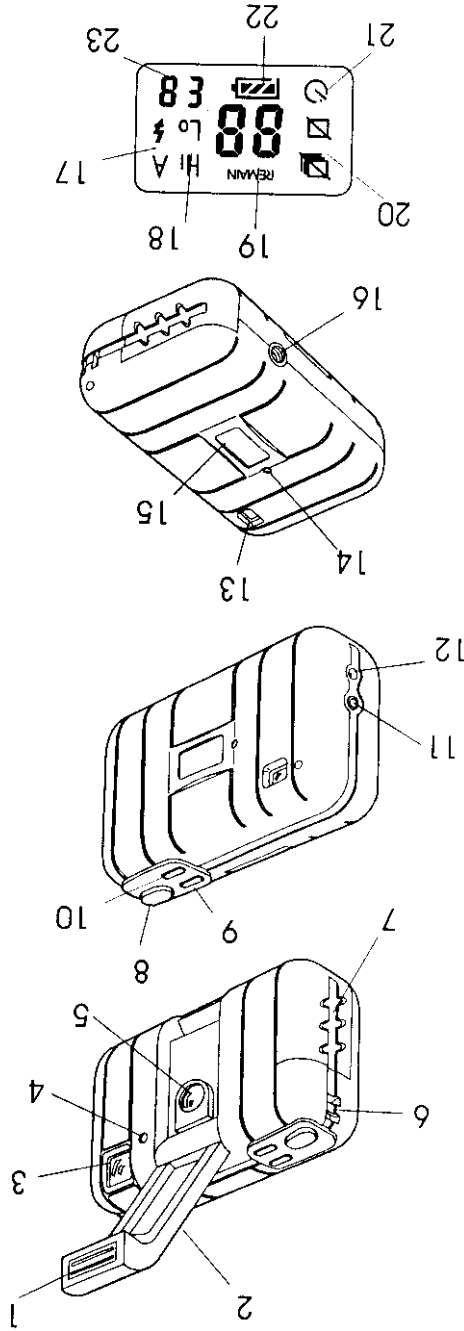
3. Minimum 8MB RAM.

4. VGA monitor(SVGA is recommended).

5. Hard disc with at least 10MB free space.

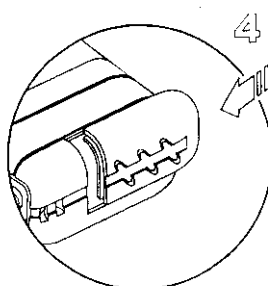
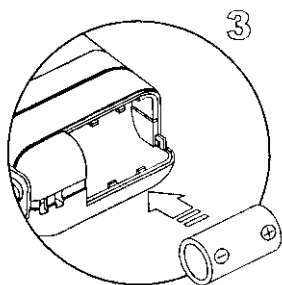
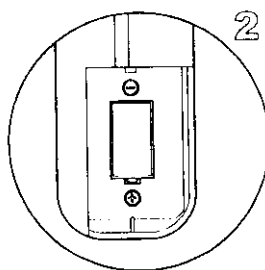
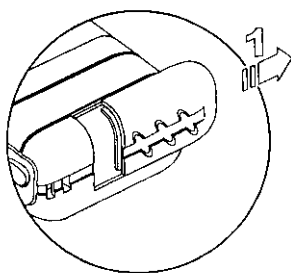
***Names of functions and parts**

1. FLASHLIGHT
2. FLASHCOVER (MAIN SWITCH)
3. FINDER
4. SELF-TIMER INDICATOR
5. LENS
6. WRISTLET HOLE
7. BATTERY COVER
8. SHUTTER BUTTON
9. MODE BUTTON
10. SELECT BUTTON
11. RS232 JACK
12. DC 3V JACK
13. FINDER
14. BUSY INDICATOR
15. LCD PANEL
16. TRIPOD SOCKET
17. FLASH MODE
18. RESOLUTION MODE
19. PICTURES COUNTER
20. ERASE MODE
21. SELF-TIMER MODE
22. BATTERY LEVEL
23. ERROR MESSAGE CODE

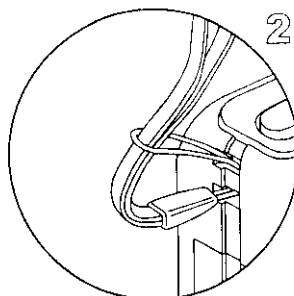
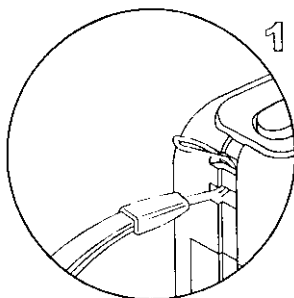


***Install the battery**

1. Be sure to close the flash cover to turn the power off and push the battery cover open.
2. You can see the polarity markings "+" and "-" in the battery compartment when you open the battery cover.
3. Insert the battery according to the polarity indications.
4. Close the cover of the battery compartment.



***Install the Wristlet**



***Notes for using batteries**

1. Check whether the positive(+) and negative(-) polarities of the battery is in correct position.
2. The battery compartment will get hot when the camera is used for a long period of time. This is normal.
3. If you will not use the camera for a long period of time, take out the battery to avoid leakage.
4. Do not charge or disassemble the batteries. Avoid short circuiting with the two polarities of a battery.
5. Keep the batteries away from heat sources and do not burn the batteries to avoid explosion.

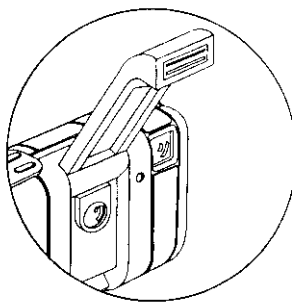
***Notes for using AC adaptor**

1. To avoid the risk of fire and electric shock, do not plug the adaptor into a receptacle with voltage higher than the voltage specified here. Use only the specified voltage for the adaptor.
2. Hold the body of the adaptor when you take off the adaptor from the electric receptacle. Do not twitch the cord.
3. The adaptor will get hot after operating for a while. This is normal and won't cause any accident.
4. Turn the power off and unplug the adaptor from the wall socket when the camera is not in use.
5. To avoid the risk of electric shock or damaging the product, do not connect, plug, or operate the adaptor when your hands are wet.

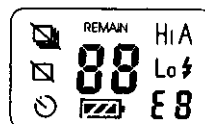
III. OPERATION

*Power Switch

1. Check whether the battery is installed or the AC adaptor is plugged, and then open the flash cover to turn on the camera.



2. The camera will perform self-test after the power is on, and the control panel will show all the function indications within 3 seconds.



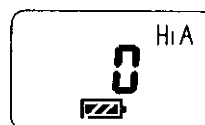
3. The control panel will show the initial setting modes when the self-test is completed:

A.....Automatic flashing

Hi.....High resolution

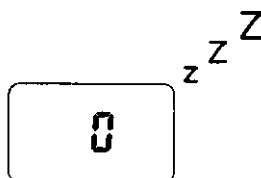
Pictures counterDisplay the Number of pictures taken

Battery levelDecided by the detection function



Energy saving device - POWER DOWN

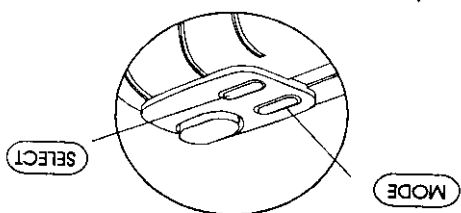
1. The camera beeps twice when it's not operated for 2 minutes, and then enters the POWER DOWN MODE(the LCD will only display pictures counter to save energy).



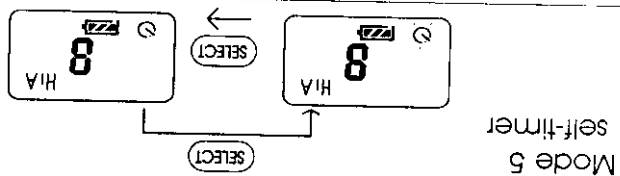
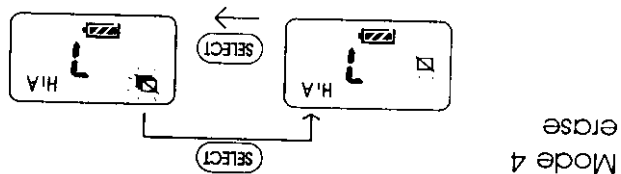
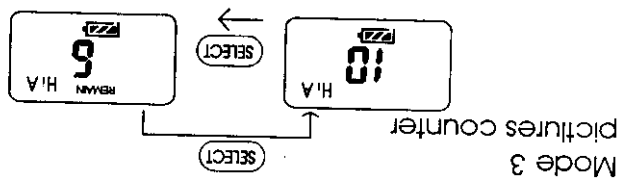
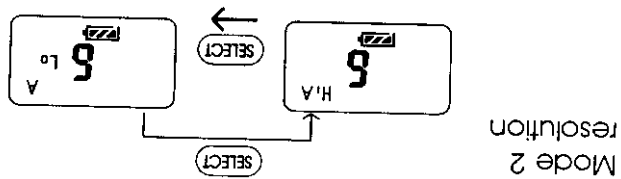
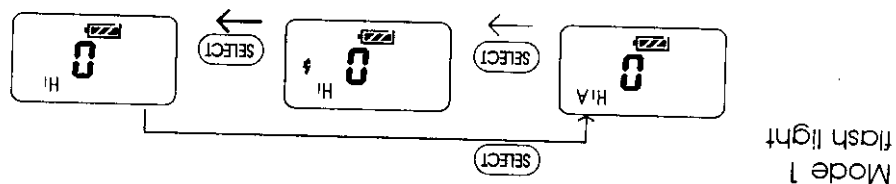
※If you are not taking any more pictures, please turn off the power to save the battery.

2. To resume function of the camera(In POWER DOWN MODE), just press any button (but the camera won't perform the function of this button at this time).

***Select Modes**
There are five modes on the control panel to choose from. You can switch between the modes with MODE button and SELECT buttons.



*Press MODE button to switch modes.
*Press SELECT button to choose the function of a mode.



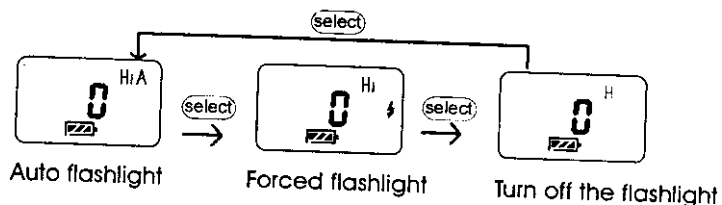
*Control Panel

1. Flashlight

Press the MODE button to enter this mode. Then press the SELECT button to choose the following functions:

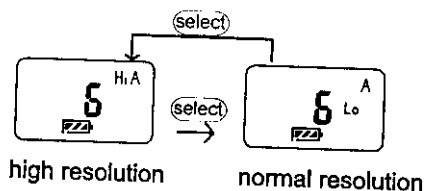
- a. LCD displays A : Enable auto flashlight.
- b. LCD displays  : Enable forced flashlight.
- c. Neither A nor  is displayed : Turn off the flashlight.

*. Effective range of the flashlight is between 0.8M and 3M.



2. Resolution

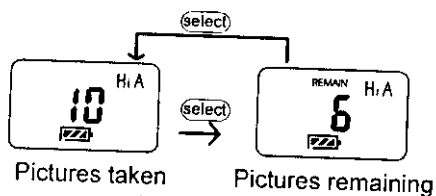
Press the MODE button to enter this mode. Switch between Hi (high resolution) and Lo (normal resolution) with the SELECT button.



3. Pictures counter-taken/ remaining

Press the MODE button to enter this mode. You may change the displays of pictures counter between "Pictures taken" and "Pictures remaining" with the SELECT button.

- a. Pictures taken(This is the initial setting):The LCD display shows the number of pictures taken when the camera in on.
- b. Pictures remaining: You may choose to show the remaining space of memory in the LCD display.

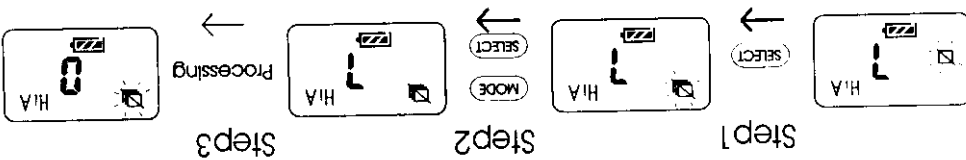


4. Erase picture

When you press the MODE button to enter to the erase mode, the icon erase-last  or erase-all  will flash. You can use the SELECT button to choose  or  function.

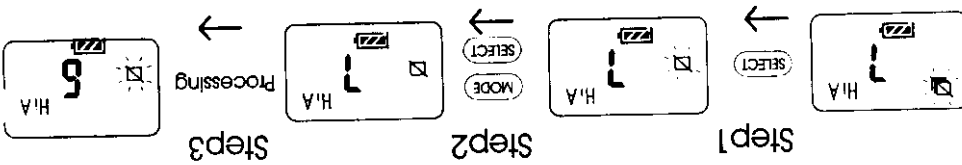
A. Erase all pictures

Step1. Select  with the SELECT button so that  flashes.
Step2. Press and hold both the MODE and SELECT buttons simultaneously until the icon stop flashing (about 2 seconds), then release the two buttons.
Step3. It needs approximately 20 seconds to process. And  then will flash again.



B. Erase last picture:

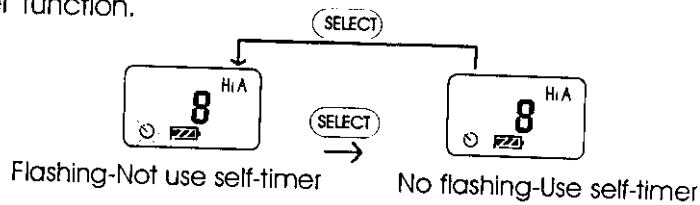
Step1. Select  with the SELECT button so that  flashes.
Step2. Press and hold both the MODE and the SELECT buttons simultaneously until the icon stop flashing (about 2 seconds), then release the two buttons.
Step3. It needs approximately 10 seconds to process. and then  will flash again.



Caution: Don't turn the power off while erasing picture. If you turn the power off while erasing picture, the picture counter will display 'E', [E] means that the action of erase is not complete. To solve the problem, please do "Erase All Pictures" again.

5. Self-timer

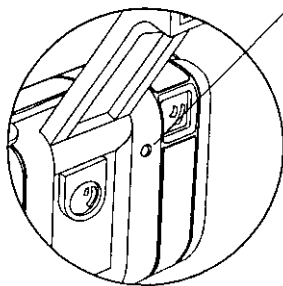
1. Press the MODE button to the self-timer mode until the self-timer symbol  flashes.
2. Press the SELECT button to confirm using self-timer mode (the self-timer symbol  will stop flashing) and the camera is ready for self-timer function.



3. The camera beeps when you press the shutter button. The self-timer LED functions as follow:

*. The LED slowly flashes for 5 seconds then quickly flashes 3 more seconds, and then keeps the same speed for 2 seconds (about 10 seconds totally). When self-timer finishes the camera beeps the self-timer LED will extinguish, and then the self-timer symbol will disappear. Repeat the above steps if you want to take another picture with the self-timer function.

press button → 5sec slowly → 3sec quickly → 2sec same speed → shoot



6. Battery level

1.  the battery level is high.

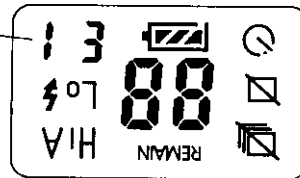
2.  the battery is nearly exhausted.

3.  the battery needs to be replaced soon.

4.  the battery needs to be replaced immediately.

7. Error message code

If the LCD display shows error message code at its lower right corner within 2 seconds after the camera is turned on, there must be a fault inside the camera. In this case, please send the camera to an authorized service center for repair.



Error message code

E 1: Faulty DRAM

E 2: Faulty FLASH MEMORY

E 3: Both faulty DRAM and FLASH MEMORY

E 4: Faulty CCD DRIVING

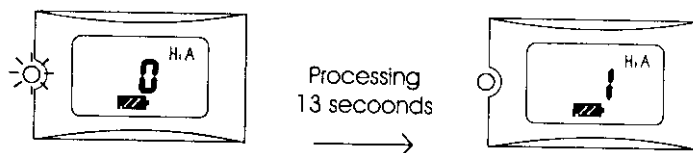
E 5: E4+E1

E 6: E4+E2

E 7: E4+E3

IV. SHOOTING

1. When press the shutter button to shoot, the camera beeps and BUSY LED flashes while processing the image(within 13 seconds) to save it. The camera will beep again and BUSY LED will go off when the processing is finished. (If it doesn't beep, the compression is probably failed or the storage space is full. Shoot again if the compression failed.)



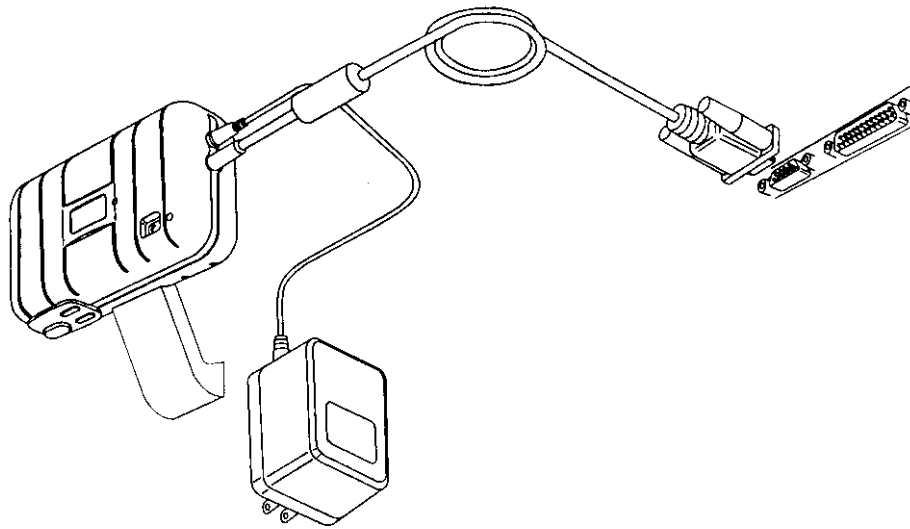
2. When the BUSY LED is flashing, you can not take another picture until the BUSY LED goes off.
3. When the camera is processing the image, never take out the battery or unplug the adaptor at this moment, or the picture just taken will not be saved and the pictures already saved could possibly be damaged.
4. The system is ready for taking next picture when the BUSY LED goes off.

* Notes for Shooting

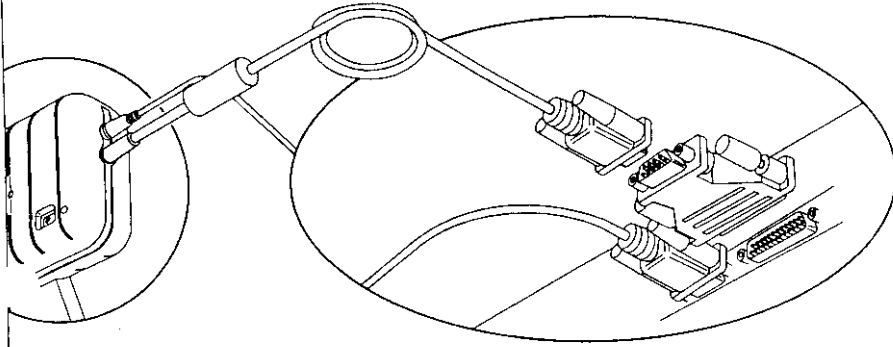
1. Watch through the viewfinder and aim the object you want to shoot. Be sure to watch directly. Do not watch askance.
2. Don't look directly at the sun through the viewfinder.
3. When you press the shutter button, the vibration of the camera can cause a foggy picture. Thus, avoid vibrating the camera when you press the shutter button

V.CONNECT THE PC

1. Image transfer needs quite a lot of power. It is a good idea to connect the AC adaptor when you transfer images.
 2. Connect the accessory RS232 to the PC.
- * Do not unplug the power cord, turn off the power, or change the setting of the function selector when the camera is transferring the image data, otherwise, the camera could be damaged.



3. If your computer has no two 9-pin(male) connector please use 9-pin(male) to 25-(female) converter to connect the computer.



VI. CARE AND STORAGE

- ❖ Workable temperature range: 0° to 40° C (32° ~ 104° F)
- ❖ Workable humidity range: 45% ~ 85%
- ❖ Do not use or store the camera in a place that is:
 - ~Subject to direct sunlight.
 - ~with high humidity or heavy dust.
 - ~near air conditioner, heater, or other heat source.
 - ~a closed enclosure, especially in the car under strong sunlight.
 - ~vibrating seriously.
- ❖ If the camera gets wet, wipe it with a dry towel as soon as possible. The salt in seawater can be especially damaging.
- ❖ Do not use organic solvents, such as alcohol or paint thinner when cleaning the camera.
- ❖ If the lens or the finder becomes dirty, clean it with a lens brush or soft cloth. Never touch the lens or the finder surface with your fingers.

VII. GENERAL NOTE

❖ To avoid electric shock, do not open the case of the camera or attempt to repair the camera by yourself.

❖ Moisture can cause the risk of fire or electric shock. Keep the camera in a dry and cool place.

❖ Do not use the camera outdoors in rainy or snowy days, on the beach, or in the bathroom.

❖ In case foreign objects or moisture fall into the camera, turn the power off and take off the power source (battery or the AC adaptor) immediately. Remove the objects or send the camera to the service center for repair. Otherwise, the objects or moisture could cause the risk of fire or electric shock.

❖ If smoke or strange smell comes out from the camera while it works, please turn the power off and take out the battery or unplugging the AC adaptor immediately, or it is possible to cause the risk of fire or electric shock.

❖ The physical damage of the camera or improper operation could cause deletion of image data in the memory of the camera. Transfer the image data to the storage device in the PC any time when the PC is reachable to keep the image data safely.