



**5.0** MEGA PIXELS  
DIGITAL CAMERA

CE FCC

J239-4000-00

- E** User's manual
- G** Benutzerhandbuch
- F** Manuel de l'utilisateur
- S** Manual de usuario

## FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

### Note:

This equipment has been tested and found to comply with the limits for Class B digital devices, 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.

Use of shielded cable is required to comply with Class B limits in Subpart B of Part 15 of the FCC rules.

Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.

## READ THIS FIRST

### Trademark Information

- Microsoft® and Windows® are U.S. registered trademarks of Microsoft Corporation.
- Pentium® is a registered trademark of Intel Corporation.
- Macintosh is a trademark of Apple Computer, Inc.
- SD™ is a trademark.
- Photo Explorer and Photo Express are trademarks.
- Other names and products may be trademarks or registered trademarks of their respective owners.

### Product Information

- Product design and specifications are subject to change without notice. This includes primary product specifications, software, software drivers, and user's manual. This User Manual is a general reference guide for the product.
- The product and accessories that come with your digital camera may be different from those described in this manual. This is due to the fact that different retailers often specify slightly different product inclusions and accessories to suit their market requirements, customer demographics, and geographical preferences. Products very often vary between retailers especially with accessories such as batteries, chargers, AC adapters, memory cards, cables, carrying cases/pouches, and language support. Occasionally a retailer will specify a unique product color, appearance, and internal memory capacity. Contact your dealer for precise product definition and included accessories.
- The illustrations in this manual are for the purpose of explanation and may differ from the actual design of your digital camera.
- The manufacturer assumes no liability for any errors or discrepancies in this user manual.
- For user manual and driver updates, refer to our website or contact your dealer.

## SAFETY INSTRUCTIONS

Read and understand all *Warnings* and *Cautions* before using this product.

### Warnings

- If foreign objects or water have entered the camera, turn the power OFF and remove the batteries and the AC power adapter.  
Continued use in this state might cause fire or electric shock. Consult the store of purchase.
- If the camera has fallen or its case has been damaged, turn the power OFF and remove the batteries and the AC power adapter.  
Continued use in this state might cause fire or electric shock. Consult the store of purchase.
- Do not disassemble, change or repair the camera.  
This might cause fire or electric shock. For repair or internal inspection, ask the store of purchase.
- Use the supplied AC adapter only with the indicated power supply voltage.  
Use with any other power supply voltage might cause fire or electric shock.
- Do not use the camera in areas near water.  
This might cause fire or electric shock. Take special care during rain, snow, on the beach, or near the shore.
- Do not place the camera on inclined or unstable surfaces.  
This might cause the camera to fall or tilt over, causing injury.
- Keep the batteries out of the reach of children.  
Swallowing batteries might cause poisoning. If the battery is accidentally swallowed, immediately consult a physician.
- Do not use the camera while you are walking, driving or riding a motorcycle.  
This might cause you to fall over or result in traffic accident.

## Cautions

**Insert the batteries paying careful attention to the polarity (+ or -) of the terminals.**

Inserting the batteries with its polarities inverted might cause fire and injury, or damage to the surrounding areas due to the battery rupturing or leaking.



When you use the battery, carefully read and strictly observe the **Safety Instructions** and the notes described below:

**Do not fire the flash close to anyone's eyes.**  
This might cause damage to the person's eyesight.



- Different battery types and surrounding temperatures may affect the battery performance.

**Do not subject the LCD monitor to impact.**

This might damage the glass on the screen or cause the internal fluid to leak. If the internal fluid enters your eyes or comes into contact with your body or clothes, rinse with fresh water. If the internal fluid has entered your eyes, consult a physician to receive treatment.



- Avoid using batteries in extremely cold environments as low temperatures can shorten the battery life and reduce camera performance. This low temperature will also influence Alkaline battery performance, therefore Ni-MH rechargeable battery is highly recommended.

**A camera is a precision instrument. Do not drop it, strike it or use excessive force when handling the camera.**



- If you are using the new rechargeable batteries or rechargeable batteries that have not been used for an extended period of time (batteries that pass the expiry date are exceptions) might affect the number of pictures that can be taken. Therefore, to maximize their performance and lifetime, we recommend that you fully charge the batteries and discharge them for at least one complete cycle before use.

This might cause damage to the camera.

**Do not use the camera in humid, steamy, smoky, or dusty places.**



- The battery may feel warm when using the camera for an extended period of time or using the flash continuously. This is normal and not a malfunction.

**Do not remove the battery immediately after long period of continuous use.**



- The camera may feel warm when being used continuously or for an extended period of time. This is normal and not a malfunction.

**Do not wrap the camera or place it in cloth or blankets.**

This might cause heat to build up and deform the case, resulting in fire. Use the camera in a well-ventilated place.



- If you will not be using the batteries for an extended period of time, remove them from the camera to prevent leakage or corrosion.
- Never use batteries of different types (together) or mix old and new batteries.
- Always keep the terminals in a clean state.
- Never use manganese batteries.

**Do not leave the camera in places where the temperature may rise significantly, such as inside a car.**



- Risk of explosion if battery is replaced by an incorrect type.
- Dispose of used batteries according to the instructions.

This might adversely affect the case or the parts inside, resulting in fire.

**Before you move the camera, disconnect cords and cables.**



Failure to do this might damage cords and cables, resulting in fire and electric shock.

## Notes on Battery Usage

# CONTENTS

<b>INTRODUCTION</b> .....	8
Package Contents .....	9
<b>GETTING TO KNOW YOUR CAMERA</b> .....	10
Front View.....	10
Rear View.....	11
Mode Dial .....	12
LCD Monitor Information.....	13
<b>PREPARING THE CAMERA</b> .....	15
Installing the Batteries (Optional Accessory) .....	15
Using the AC Power Adapter .....	16
(Optional Accessory).....	16
Inserting and Removing an SD Memory Card .....	17
(Optional Accessory) .....	17
Attaching the Camera Strap.....	18
LED Indicators.....	18
<b>GETTING STARTED</b> .....	19
Turning the Power On/Off .....	19
Choosing the Screen Language.....	19
Setting the Date and Time .....	20
Formatting an SD Memory Card or Internal Memory.....	21
Using the LCD Monitor.....	22
<b>PHOTOGRAPHY MODE</b> .....	23
Shooting Images - The Basics.....	23
Setting Image Resolution and Quality .....	24
Using the Zoom Function.....	25
Setting Focus.....	26
Using the Flash.....	27
Using the Self-Timer.....	28
Adjusting the Exposure (EV Compensation) / Backlight Correction.....	29
Setting White Balance.....	30
<b>USING THE MODE DIAL</b> .....	31
[A] Auto Mode.....	31
[P] Program Mode .....	31
[Tv] Shutter Speed Priority Photography Mode .....	32
[Av] Aperture Priority Mode.....	32
[M] Manual Mode.....	33
[SCENE] Scene Mode.....	33
<b>ADVANCED SHOOTING</b> .....	34
Burst.....	34
Auto Exposure Bracketing (AEB) .....	35
Selecting the Metering Mode .....	36
<b>PLAYBACK MODE - THE BASICS</b> .....	37
Viewing Images .....	37
Magnifying Images .....	38
Thumbnail Display .....	39
Slideshow Display .....	40
Resizing an Image .....	41
<b>VIDEO MODE</b> .....	42
Recording Video Clips .....	42
Playing Back Video Clips .....	43
<b>PLAYBACK MODE - ADVANCED FEATURES</b> .....	44
Playing Back Still Images/Video Clips on TV .....	44
Deleting Images/Video Clips.....	45
Protecting Images/Video Clips .....	46
Setting the DPOF.....	47
<b>TRANSFERRING FILES FROM YOUR DIGITAL CAMERA TO COMPUTER</b> .....	49
Step 1: Install the USB driver .....	50
Step 2: Connect the digital camera to your computer.....	51
Step 3: Download images or video clips.....	52
<b>EDITING SOFTWARE INSTALLATION</b> .....	53
Installing Photo Explorer.....	53
Installing Photo Express.....	54
<b>USING THE DIGITAL CAMERA AS A PC CAMERA</b> .....	55
Step 1: Install the PC camera driver.....	55
Step 2: Connect the digital camera to your computer.....	56
Step 3: Run your application software (i.e. Windows NetMeeting).....	56
<b>MENU OPTIONS</b> .....	57
Camera Menu.....	57
Video Menu .....	61
Playback Menu.....	62
Setup Menu.....	64
<b>CONNECTING THE DIGITAL CAMERA TO OTHER DEVICES</b> .....	66
<b>SPECIFICATIONS</b> .....	67
<b>APPENDIX</b> .....	68

# INTRODUCTION

Thank you for purchasing the new digital camera! Equipped with a 6.0 Megapixels CCD sensor, your camera delivers good quality, 2848 x 2136 resolution images. Other features provided by the camera include the following:

- **6.0 Megapixels**  
A high-resolution CCD sensor provides 6.0 megapixels for good quality of images.
- **Auto flash**  
An auto flash sensor automatically detects the shooting (lightening) conditions and determines whether the flash should be used.
- **2.0" LTPS color Image LCD monitor**
- **Digital zoom : 1x-3x**
- **Digital zoom: 1x-4x**
- **16MB internal (built-in) memory**  
Images can be captured without using a memory card.
- **Support for SD memory card for memory expansion**  
You may wish to expand the memory capacity (up to 1GB capacity) by using an external memory card.

## Package Contents

Carefully unpack your kit box and ensure that you have the following items. In the event that any item is missing or if you find any mismatch or damage, promptly contact your dealer.

### Common Product Components:

- Digital Camera
- User's Manual
- USB Cable
- Software CD-ROM
- AV Cable
- Camera Strap
- Camera Pouch

### Common (Optional) Accessories:

- SD memory card
- AC power adapter
- Batteries

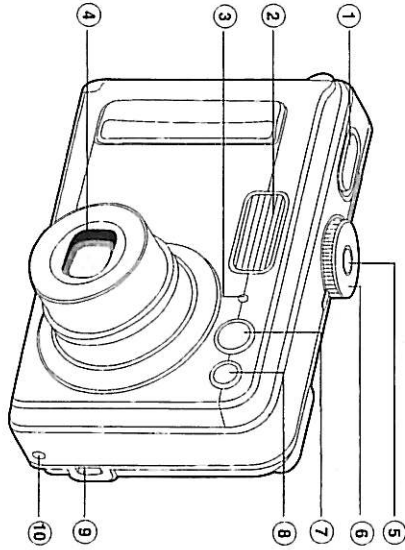
- **USB connection (USB 2.0 full speed)**  
Still images, video clips, or voice recording files that you have recorded can be downloaded to your computer using the USB cable (A USB driver is required for Win 98 and Win98SE).
- **DPOF functionality**  
DPOF can be used to print your images on a DPOF compatible printer by simply inserting the memory card.
- **Provided editing software: Photo Explorer / Photo Express**  
You can enhance and retouch your images on your computer by using the provided editing software.



- Accessories and components may vary by retailer.

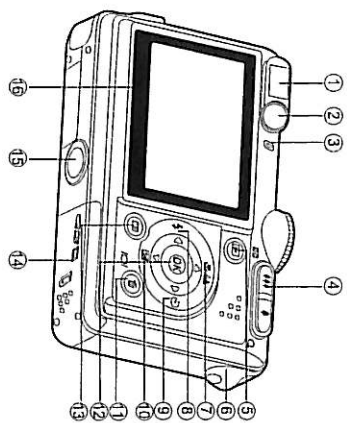
# GETTING TO KNOW YOUR CAMERA

## Front View



- 1. Shutter button
- 2. Flash
- 3. Microphone
- 4. Lens
- 5. Power button
- 6. Mode dial
- 7. Self-timer LED
- 8. Viewfinder window
- 9. PC (USB) / AV Out terminal
- 10. DC in 3V terminal

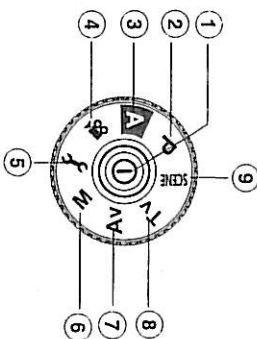
## Rear View



- 1. Viewfinder
- 2. Diopter adjustment dial
- 3. Viewfinder LED
- 4. Zoom in (telephoto) button
- 5. Zoom out (wide-angle) button
- 6. Thumbnail button
- 7. Playback button
- 8. Strap holder
- 9. Arrow button (Up)
- 10. Focus button
- 11. Arrow button (Left)
- 12. Flash button
- 13. Arrow button (Right)
- 14. Self-timer button
- 15. Arrow button (Down)
- 16. Exposure compensation button

## Mode Dial

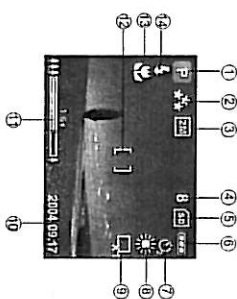
You can select from seven shooting modes and setup mode according to shooting conditions to achieve the desired effect.



Mode	Description
1. <b>P</b> Program	Press to turn on/off the power.
2. <b>A</b> Auto	Select this mode to permit the shutter speed and aperture to be set automatically.
3. <b>AV</b> Video	Select this mode to adjust point-and-shoot action.
4. <b>f</b> Setup	Select this mode to record video clips.
5. <b>M</b> Manual	Select this mode to adjust the camera settings.
6. <b>Av</b> Aperture priority	Select this mode to permit full manual control over exposure, aperture and other settings.
7. <b>Tv</b> Shutter speed priority	Select this mode to specify the aperture value while the camera sets the corresponding shutter speed.
8. <b>SCENE SCENE</b>	Select this mode to specify the shutter speed while the camera sets the corresponding aperture.
9. <b>SCENE SCENE</b>	Point-and-shoot simply when taking pictures under 4 special conditions.

## LCD Monitor Information

### ■ Camera Mode

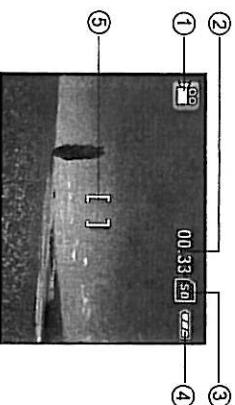


- Mode indication
  - [ P ] Program Mode
  - [ A ] Auto Mode
  - [ AV ] Video Mode
  - [ M ] Manual Mode
  - [ Av ] Aperture priority Mode
  - [ Tv ] Shutter speed priority
  - [ SCENE ] SCENE Mode
- Image quality
  - [ \* ] Fine
  - [ \* ] Normal
  - [ \* ] Economy
- Image size
  - [ 64 ] 2848 x 2136
  - [ 48 ] 2272 x 1704
  - [ 24 ] 1600 x 1200
  - [ 12 ] 640 x 480
- Possible number of shots
- Internal memory/SD memory card indicator
- Status of internal memory
  - [ ] Status of internal memory
  - [ SD ] Status of SD memory card
- Remaining battery status
  - [ 100 ] Full battery power
  - [ 75 ] Medium battery power
  - [ 50 ] Low battery power
  - [ ] No battery power
- Self-timer mode
  - [ OFF ] OFF
  - [ 2 ] 2 sec. delay
  - [ 10 ] 10 sec. delay
  - [ 10+2 ] 10+2 sec. delay
- White balance
  - [ Auto ] Auto
  - [ Daylight ] Daylight
  - [ Cloudy ] Cloudy
- Flash mode indicator
  - [ Tungsten ] Tungsten
  - [ Fluorescent ] Fluorescent
- Capture mode indicator
  - [ Single ] Single
  - [ Burst ] Burst
  - [ AEB ] AEB
- Date
- Zoom status
- Focus area
- Focus indicator (no indication for auto focus)
  - [ Macro ] Macro
  - [ Infinity ] Infinity
  - [ AF ] Auto focus
- Flash mode
  - [ Auto Flash (Default) ] Auto Flash (Default)
  - [ Red Eye ] Red Eye
  - [ Forced flash ] Forced flash
  - [ No Flash ] No Flash



#### ■ Video Mode

1. Video mode
2. Recordable movie time available
3. SD memory card indicator (if present)
4. Battery power indicator
5. Focus area

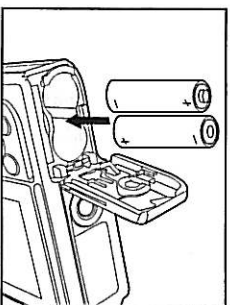


## PREPARING THE CAMERA

### Installing the Batteries (Optional Accessory)

You can use 2 AA size batteries to power the camera. Make sure that the power of the digital camera is off before inserting or removing the batteries.

1. Make sure the camera is turned off.
  2. Open the battery cover.
  3. Insert the batteries in the correct orientation as shown in the illustration.
  4. Close the battery cover.
- To remove the batteries, turn the camera off before removing batteries and hold the camera with the battery cover facing upward, then open the battery cover.



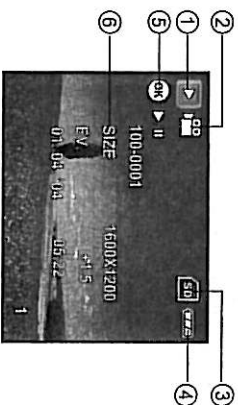
#### ■ Image Playback

1. Playback mode
2. SD memory card indicator (if present)
3. Battery power indicator
4. Playback Information



#### ■ Video Playback

1. Playback mode
2. Video mode
3. SD memory card indicator (if present)
4. Battery power indicator
5. Playback Information
6. Playback Information

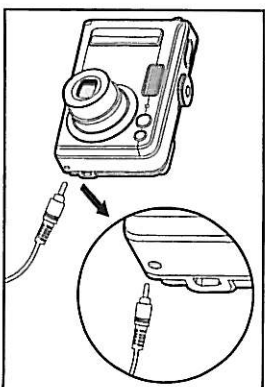


■ Be careful not to drop the batteries when opening or closing the battery cover.

## Using the AC Power Adapter (Optional Accessory)

Use of the AC power adapter is recommended if you intend to use the LCD monitor for a long time or connect the camera to a PC.

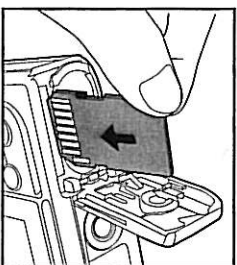
1. Make sure your camera is turned off.
2. Connect one end of the AC power adapter to the camera jack labeled "DC IN 3.0V".
3. Connect the other end to an electrical outlet.



## Inserting and Removing an SD Memory Card (Optional Accessory)

The digital camera comes with 16MB of internal memory, allowing you to store captured still images or video clips in the digital camera. Moreover, you can also expand the memory capacity by using an optional SD (Secure Digital) memory card so that you can store more files.

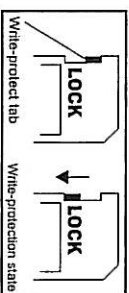
1. Make sure your camera is turned off before inserting or removing a memory card.
2. Open the SD memory card cover.
3. Insert an SD memory card in the correct orientation as shown in the illustration.
4. Close the battery/SD memory card cover.
  - To remove the SD memory card, make sure the camera is turned off. Press lightly on the edge of the memory card and it will eject.



- Make sure to use only the AC power adapter specified for the camera. Damage caused by the use of an incorrect adapter is not covered under the warranty.
- To prevent unexpected auto power off resulting from no battery power left during the process of transferring your images to the computer, use the AC power adapter as a power supply.
- The AC power adapter can only be used to power the camera. Batteries cannot be charged inside the camera.

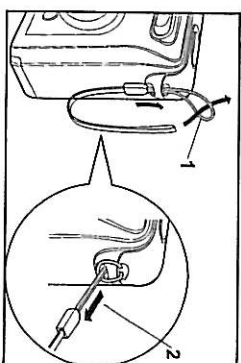


- Be sure to format an SD memory card with this digital camera before using it. Refer to section in the manual titled "Formatting an SD Memory Card or Internal Memory" for further details.
- To prevent valuable data from being accidentally erased from an SD card, you can slide the write protect tab (on the side of the SD memory card) to "LOCK".
- To save, edit, or erase data on an SD memory card, you must unlock the card.



## Attaching the Camera Strap

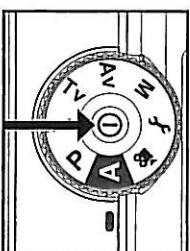
Attach the strap as shown in the illustration.



## GETTING STARTED

### Turning the Power On/Off

- Press the **Q** button until the digital camera turns on.
- To turn the power off, press the **Q** button again.

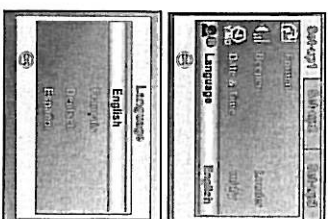


### Choosing the Screen Language

When the camera is turned on for the first time, a language-selection screen will be displayed in the monitor. Follow the steps below to choose the desired language.

1. Rotate the mode dial to **f** and turn your camera on by pressing the **Q** button.
  - The [Set-up1] menu is displayed.
2. Use **▲** to select [Language], then press the **Q** button.
3. Use **▲** or **▼** to select the language you want.
4. Press the **Q** button to confirm.

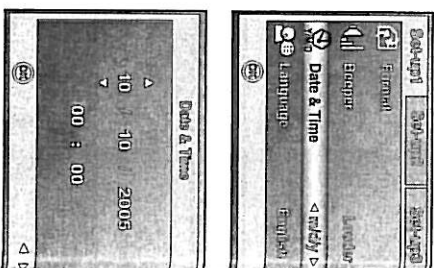
Indicator	State	Description/Activity
LED indicator	Solid red	The digital camera is powering up.
LED indicator	Solid green	The digital camera is ready to record images (or movies).
LED indicator	Blinking green	USB communication/transfer in progress
LED indicator	Blinking red	Charging the flash.
Self-timer indicator	Blinking green	The self-timer function is activated.



## Setting the Date and Time

Follow the steps below to set the date display style, current date and time.

1. Rotate the mode dial to **f** and turn your camera on by pressing the **Q** button.
  - The [Set-up1] menu is displayed.
2. Use **▼** to select [Date & Time], then press the **OK** button.
  - You may press **◀** or **▶** to switch the date types.
3. Press the **▶** / **▶** buttons to select Year, Month, Day and Time fields.
  - To increase a value, press the **▲** button.
  - To decrease a value, slide the zoom lever to the **▼** button.
  - The time is displayed in 24-hours format.
4. Press the **OK** button after all fields are set.



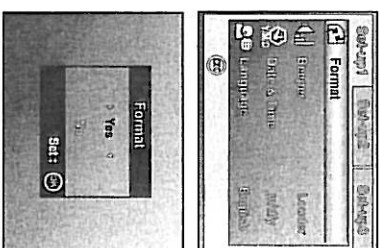
## Formatting an SD Memory Card or Internal Memory

The term "Formatting" means preparing an "SD Memory Card" to record images; this process is also called "initialization". This utility formats the Internal memory (or memory card) and erases all stored images and data.

1. Rotate the mode dial to **f** and turn your camera on by pressing the **Q** button.
  - The [Set-up1] menu is displayed.
2. Use **▼** to select [Format], then press the **OK** button.
3. Use **▲** or **▼** to select [Yes], then press the **OK** button to confirm.



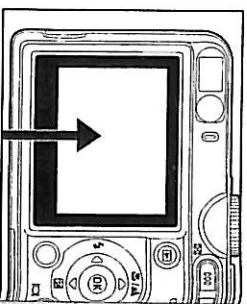
- When you format an SD memory card, be aware that all data of which will be permanently erased. Protected images are also erased.
- To format the internal memory, do not insert a memory card into the camera. Otherwise, you will format the memory card.
- Formatting is an irreversible action and data cannot be recovered at a later time.
- An SD memory card having any problem cannot be properly formatted.



## Using the LCD Monitor

Your camera is equipped with a 2.0" full color TFT LCD monitor to help you compose images, replay recorded images/video clips or adjust menu settings. The mode icons, text and numbers displayed on the monitor may vary according to the current settings.

1. Rotate the mode dial to **A**, **P**, **SCENE**, **TV**, **AV**, **M** or **SR**.
2. Press the **Q** button to turn on the power.
3. Compose your scene on the LCD monitor.
4. Press the shutter button.



- The LCD monitor darkens in strong sunlight or bright light. This is not a malfunction.
- To prevent your images from being blurred while pressing the shutter button, always hold it carefully. This is especially important when you are shooting under low lighting conditions, which your camera may decelerate the shutter speed to ensure your images are properly exposed.

## PHOTOGRAPHY MODE

### Shooting Images - The Basics

1. Rotate the mode dial to **A**, **P**, **SCENE**, **TV**, **AV** or **M** and turn your camera on by pressing the **Q** button.
2. Compose the image on the monitor screen so that the main subject is within the focus frame.
3. Press the shutter button down half way to focus the image.
  - When you press the shutter button down half way, the camera's Auto Focus feature automatically focuses the image and exposure.
4. Press the shutter button the rest of the way down to capture the image.



- The actual captured image appears to be larger than the one on LCD after image captured.
- Pressing the **W** / **ICL** button switches the LCD monitor display mode. Each time you press the **W** / **ICL** button, the display changes in the following order: Focus Frame On → Indicators Off → Composition Line On → LCD Off.

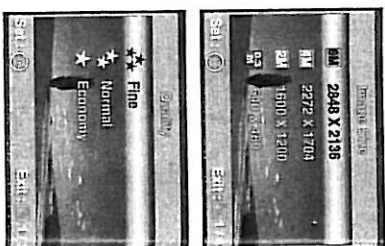
## Setting Image Resolution and Quality

As you get to know the digital camera, you can set the image resolution (number of vertical and horizontal pixels) and image quality (compression ratio) based on the types of images you want to shoot. These settings affect the number of images that can be stored in memory, or on a memory card.

Higher resolution and higher quality images provide finer detail but cause the images' file size to be larger.

To change image resolution or image quality, perform these steps below:

1. Rotate the mode dial to **A**, **P**, **SCENE**, **TV**, **AV** or **M** and turn your camera on by pressing the **Q** button.
2. Press the **[M]** button, then use **▲** or **▶** to select the [Mode1] / [Mode2] / [Mode3] menu.
  - In **A** (Auto) Mode, press **[M]** to access in menu directly.
3. Use **▼** to select [Image Size], then press the **[OK]** button.
4. Use **▲** or **▼** to select the desired setting, then press the **[OK]** button to confirm.
5. Follow the step 3 and 4 above to set the [Quality].



- The possible number of shots and recording time depend on the storage size, resolution and quality settings and the subject of the image to be captured.
- You can resize the Images later. (Please refer to section in this manual titled "Resizing an Image" for further detail.)

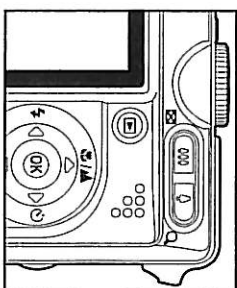
## Using the Zoom Function

This camera is equipped with 3x optical zoom. The lens moves during the optical zoom photography, allowing you to capture telephoto and wide-angle shots. By using the optical zoom function, images appear closer by pressing the **▲** button, or smaller away by pressing the **▼** button.

Moreover, you can further enlarge the subjects with 4x digital zoom by pressing continuously the **▲** button. It is activated after your camera reaches its maximum optical zoom factor (3x). A useful feature as it is, however, the more the image is magnified, the grainier the image may become.

To capture a zoomed image, perform the following steps:

1. Press the **Q** button to turn on the power.
2. Adjust the magnification ratio by using the **▲** / **▼** button.
  - To access the optical zoom function, press the **▲** button as far as it can go. Press it again to activate the digital zoom.
  - To exit the zoom photography, press continuously the **▼** button.
  - The status of digital magnification is displayed on the LCD monitor.
3. Compose your scene and press the shutter button.

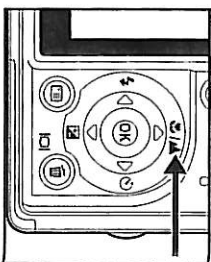


- The digital magnification ranges from 1.0x to 4.0x.
- As you record video clips, the zoom function cannot be activated.

## Setting Focus

Images can be captured with the focus determined automatically using auto focus. You may over-ride the auto focus and specify [M] macro or [∞] Infinity.

1. Rotate the mode dial to **A**, **P**, **SCENE**, **Tv**, **Av** or **M**.
2. Press **▲** / **M** / **∞**.
3. Use **▲** or **▼** to select the desired focus mode.
4. Compose your scene and press the shutter button.



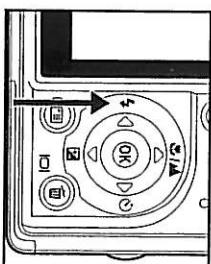
The table below will help you choose the appropriate focus mode:

Focus mode	Description
<b>M</b> Macro	Select macro to capture close-up images. When the lens is zoomed to its widest position you may focus objects as close as 5 cm. When the lens is zoomed to its telephoto position (3x zoom) you may focus objects as close as 30 cm.
<b>∞</b> Infinity	Select the infinity-focus setting when you want to capture images of subject at a distance of infinity.
<b>AF</b> Auto Focus	Select auto focus for most occasions when you want the camera to automatically determine the focus setting. Using auto focus any object at a range of focus is 50 cm or greater can be in focus.

## Using the Flash

The flash is designed to function automatically when lighting conditions warrant the use of flash. The camera has four flash modes: Auto Flash (default), Red Eye, Forced Flash and No Flash. You can take an image using a desired flash mode to suit your circumstances.

1. Rotate the mode dial to **A**, **P**, **SCENE**, **Tv**, **Av** or **M**.
2. Press the **Q** button to turn on the power.
3. Toggle **◀** / **▶** until your desired flash mode appears on the LCD monitor.
4. Compose your scene and press the shutter button.



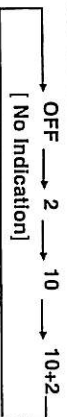
The table below will help you to choose the appropriate flash mode:

Flash mode	Description
<b>FA</b> AUTO FLASH	The flash fires automatically according to suit the photographic conditions.
<b>RE</b> RED EYE	Use this mode to reduce the red-eye phenomenon when you want to take natural-looking photographs of people and animals in low-light conditions. When taking photographs, the red-eye phenomenon can be reduced by asking the subject (person) to look at the digital camera or get as close to the digital camera as possible.
<b>F</b> FORCED FLASH	The flash will always fire regardless of the surrounding brightness. Select this mode for recording images with high contrast (backlighting) and deep shadows.
<b>NO</b> NO FLASH	Use this mode in the environment that the flash use is prohibited or under the situation that the distance to the subject is too far away for the flash to have any effect.

## Using the Self-Timer

The self-timer can be used in situations such as group shots. When using this option, you should either mount the camera on a tripod (recommended) or rest it on a flat, level surface.

1. Secure the camera to a tripod or place it on a stable surface.
2. Rotate the mode dial to **A**, **P**, **SCENE**, **Tv**, **Av** or **M**.
3. Press the **Q** button to turn on the power.
4. Toggle **▶** / **⊖** until your desired self-timer mode appears on the LCD monitor.



5. Compose your scene and press the shutter button.
  - The self-timer function is activated.
  - The photography is then taken after the preset time.
  - To cancel the self-timer at any time, press the shutter or **Q** button, switch the mode dial to another mode or press **▶** to disrupt the sequence.

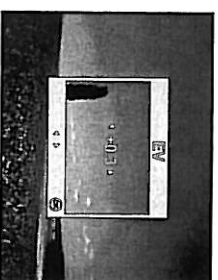
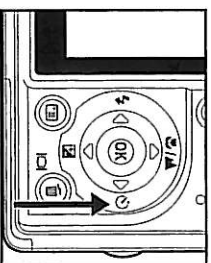


- After one shot is taken, the self-timer mode is turned off.
- If you wish to take another image using the self-timer, repeat these steps.

## Adjusting the Exposure (EV Compensation)

You can manually adjust the exposure determined by the digital camera. Use this mode when the proper exposure cannot be obtained, for example, when the contrast (different between light and dark) between the subject and the background is extremely large. The EV compensation value can be set in the range from -2.0EV to +2.0EV.

1. Rotate the mode dial to **P**, **SCENE**, **Tv**, **Av** or **M**.
2. Press the **Q** button to turn on the power.
3. Press **▼** / **□**.
4. Use **▶** or **▶** to set the range of EV compensation value from -2.0EV to +2.0EV.
5. To exit from the menu, press the **Q** button.

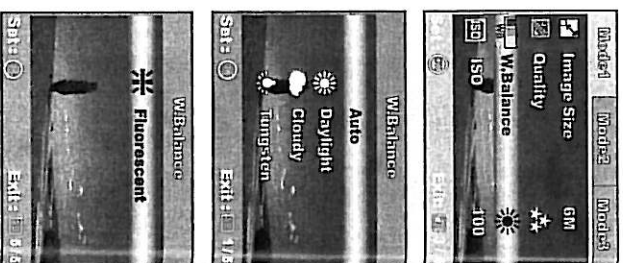




## Setting White Balance

This feature lets you make adjustments to compensate for different lighting types according to your shooting conditions.

1. Rotate the mode dial to **P**, **SCENE**, **TV**, **Av** or **M**.
2. Press the  $\odot$  button to turn on the power.
3. Press  $\square$ , then the [Mode1] menu is displayed.
4. Use  $\blacktriangledown$  to select [W. Balance], then press the  $\odot$  button.
5. Use  $\blacktriangle$  or  $\blacktriangledown$  to select the desired setting, then press the  $\odot$  button to confirm.
6. To exit from the menu, press the  $\square$  button.

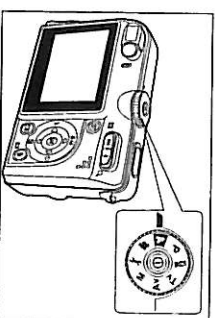


## USING THE MODE DIAL

### Simple Mode [ A ]

**A** (Auto) mode is the simplest way which allows you to take still pictures without having to set special functions or manual adjustments. The camera sets the optimal focusing and exposure.

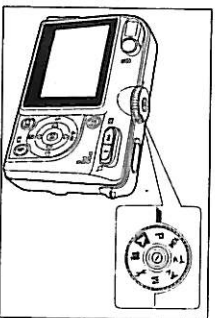
1. Rotate the mode dial to **A** and turn your camera on by pressing the  $\odot$  button.
2. Compose your subject within the focus frame.
3. Press the shutter button down halfway to focus the image.
  - When you press the shutter button down half way, the camera's Auto Focus feature automatically focuses the image. Proper exposure is determined and locked at the same time.
4. Press the shutter button the rest of the way down to capture the image.



### Program Mode [ P ]

In the **P** (Program) mode, the camera automatically sets the shutter speed and aperture for taking still images. You can adjust other functions, such as flash mode or continuous shooting mode.

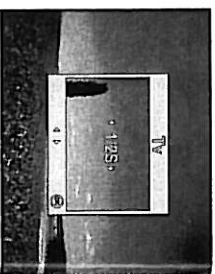
1. Rotate the mode dial to **P** and turn your camera on by pressing the  $\odot$  button.
2. Compose your subject within the focus frame.
3. Press the shutter button to capture the image.



## Shutter Speed Priority Mode [ Tv ]

If you set a fast shutter speed, you can capture images of moving subjects that look as if they are still. If you set a slow shutter speed, you can capture images that give the impression that the subject is in motion.

1. Rotate the mode dial to Tv and turn your camera on by pressing the **Q** button. A guide appears for a few seconds.
2. Press the **DISP** button.
3. Set the aperture value with **▲** or **▶**, and press the **DISP** button.
4. Compose your subject within the focus frame.
5. Press the shutter button to capture the image.

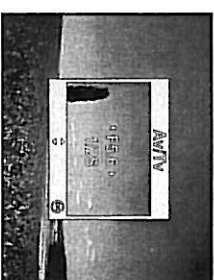


## Manual Mode [ M ]

In manual mode, the aperture value and the shutter speed can be varied individually. This can be useful for compensating tricky lighting conditions, for getting creative results or for capturing night-time scenes.

Rotate the mode dial to M and turn your camera on by pressing the **Q** button. A guide appears for a few seconds.

1. Press the **DISP** button.
2. Press the **DISP** button.
3. Use **▲** or **▼** to select aperture/shutter speed item.
4. Adjust the value with **▲** or **▶**, and press the **DISP** button.
5. Compose your subject within the focus frame.
6. Press the shutter button to capture the image.

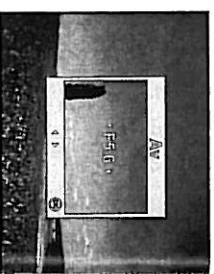


## Aperture Priority Mode [ Av ]

In this mode, images are captured with the priority given to aperture. The shutter speed is automatically set according to the aperture. The aperture will affect the depth-of-field of the picture.

If you set a large aperture (lower F value), you can capture portrait images with an out-of-focus background. Alternatively, if you set a small aperture (higher F value), both close objects and distant objects will be in focus, for example when capturing subjects in the foreground together with landscape images.

1. Rotate the mode dial to Av and turn your camera on by pressing the **Q** button. A guide appears for a few seconds.
2. Press the **DISP** button.
3. Set the aperture value with **▲** or **▶**, and press the **DISP** button.
4. Compose your subject within the focus frame.
5. Press the shutter button to capture the image.



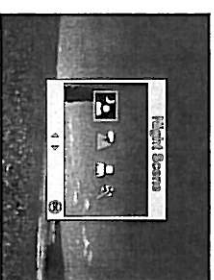
## Scene Mode [ SCENE ]

You can select the Picture mode according to the shooting scene. There are 4 available modes in Picture mode.

- [ Night ]** Night scene: This mode allows you to take photographs of people against a dusk or night-time background.
- [ Portrait ]** Portrait: Select this mode to take photographs of distant scenery or landscapes.
- [ Sport ]** Sport: This mode allows you to shoot fast moving objects.

Rotate the mode dial to SCENE and turn your camera on by pressing the **Q** button. A guide appears for a few seconds.

1. Press the **DISP** button.
2. Press the **DISP** button.
3. Use **▲** or **▶** to select the desired scene mode.
4. Press the **DISP** button to confirm the selection.
5. Compose your subject within the focus frame.
6. Press the shutter button to capture the image.



Press the shutter button halfway to confirm if the exposure is set correctly on the LCD monitor.

# ADVANCED SHOOTING

## Burst

This mode is used for continuous shooting. Pictures are taken continuously while the shutter release button is pressed.

1. Rotate the mode dial to **A**, **P**, **SCENE**, **TV**, **Av** or **M** and turn your camera on by pressing the **Q** button.
  - In **A** (Auto) Mode, press **[ ]** to access in menu directly.
2. Press **[ ]**, then use **▶** to select the [Mode2] menu.
3. Use **▼** to select [Capture Mode], then press the **[ ]** button.
4. Use **▲** or **▼** to select [Burst], then press the **[ ]** button.
5. To exit from the menu, press the **[ ]** button.
  - The **[ ]** indicator is displayed on the monitor screen.
6. Press the shutter button halfway to lock the focus.
7. Press the shutter button all the way to shoot.
  - Shooting will stop when the shutter button is released.



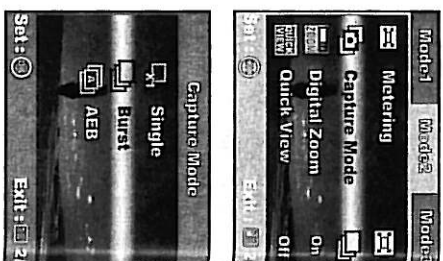
- In Burst mode, the flash mode will be set to **OFF** automatically.

EN-34

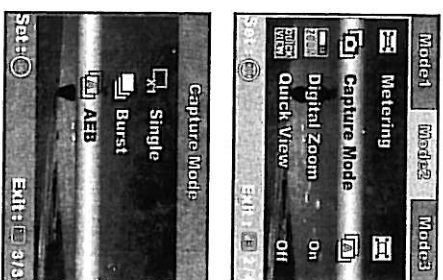
## Auto Exposure Bracketting (AEB)

In this mode, the camera automatically changes the exposure within a set range to take three shots after you press the shutter button once. AEB settings can be combined with exposure compensation settings to extend the adjustment range.

1. Rotate the mode dial to **A**, **P**, **SCENE**, **TV**, **Av** or **M** and turn your camera on by pressing the **Q** button.
  - In **A** (Auto) Mode, press **[ ]** to access in menu directly.
2. Press **[ ]**, then use **▶** to select the [Mode2] menu.
3. Use **▼** to select [Capture Mode], then press the **[ ]** button.
4. Use **▲** or **▼** to select [AEB], then press the **[ ]** button.
5. To exit from the menu, press the **[ ]** button.
  - The **[ ]** indicator is displayed on the monitor screen.
6. Press the shutter button to shoot.



- In AEB mode, the flash mode will be set to **OFF** automatically.



EN-35

## Selecting the Metering Mode

You can select the metering mode that sets which part of the subject to measure to determine the exposure.

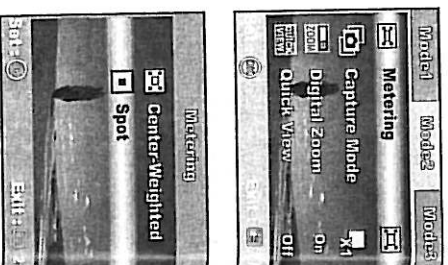
1. Rotate the mode dial to **P**, **SCENE**, **TV**, **Av** or **M** and turn your camera on by pressing the **Q** button.
2. Press **Q**, then use **▶** to select the [Mode2] menu.
3. Use **▼** to select [Metering], then press the **Q** button.
4. Use **▲** or **▼** to select the desired metering mode, then press the **Q** button.
  - **[Q] Center-Weighted**: Averages the light metered from the entire frame, but gives greater weight to the subject matter at the center.
  - **[Q] Spot**: Meters the area within the spot automatic exposure point frame at the center of the LCD monitor.
5. To exit from the menu, press the **Q** button.
6. Compose your subject within the focus frame.
7. Press the shutter button to capture the image.

## PLAYBACK MODE - THE BASICS

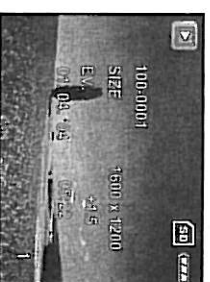
### Viewing Images

You can display the still images you have just captured at a time.

1. Press the **Q** button to turn on the camera.
2. Press the **Q** (Playback) button.
  - The last recorded image appears on the LCD monitor.
3. Use **▶** or **▶** to select the desired images.
  - To view the previous image, press the **▶** button.
  - To view the next image, press the **▶** button.














- The playback information displayed on the LCD monitor will disappear after seconds of time.
- If there is no image stored in the internal memory or on the memory card, [No Image] message will appear on the monitor.



## Magnifying Images









While reviewing your images, you may enlarge a selected portion of an image. This magnification allows you to view fine details. The zoom factor displayed on the screen shows the current magnification ratio.

1. Press the  (Playback) button.
  - The last recorded image appears on the LCD monitor.
  - To view the previous image, press the  button.
  - To view the next image, press the  button.
2. Adjust the zoom ratio by using the Zoom  /  button.
  - To enlarge the selected image, press the  button.
  - To return to the normal image, press the  button.
  - The magnification factor is displayed on the LCD monitor.
3. To view different portions of the images, press the  /  /  /  button to adjust the display area.



## Thumbnail Display

This function allows you to view 9 thumbnail images on the LCD monitor simultaneously so you may search for a particular image.









1. Press the  (Playback) button.
  - The last recorded image appears on the LCD monitor.
2. Press the  button once.
  - Nine thumbnail images are displayed simultaneously.
  - For recorded video clips, the  video mode icon will be displayed.
3. Use the  /  /  /  button to move the cursor to select the image to be displayed at regular size.
4. Press the  button to display the selected image on full screen.

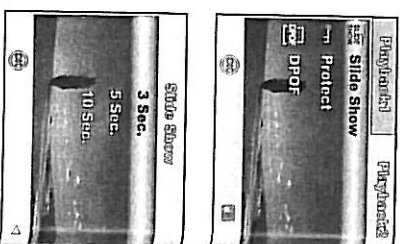


- The magnification factors range from 1x to 4x (within 7 stages: 1.0x, 1.5x, 2.0x, 2.5x, 3.0x, 3.5x and 4.0x).

## Slideshow Display

The slide show function enables you to play your images back automatically in sequential order. This is very useful and entertaining feature for reviewing recorded images and for presentations.















1. Press the  (Playback) button.
  - The last recorded image appears on the LCD monitor.
2. Press . The [Playback1] menu is displayed.
3. Use  to select [Slide Show] and press the  button.
4. Use  or  to set the playback interval, then press the  button.
  - The slide show starts.
  - The video clips are displayed the first frame image, and not played back.
- To stop slide show, press the  button.

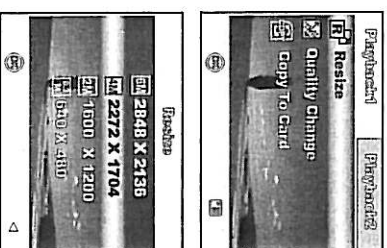


- You can adjust the slide show display interval within the range of 3 Sec., 5 Sec., 10 Sec.

## Resizing an Image

You can change the image size of a captured image to one of the following sizes: 2848 x 2136 pixel, 2272 x 1704 pixel, 1600 x 1200 pixel and 640 x 480 pixel.



1. Press the  (Playback) button.
  - The last recorded image appears on the LCD monitor.
2. In  (Playback) mode, use  or  to select the desired images.
  - To view the previous image, press the  button.
  - To view the next image, press the  button.
3. Press , then use  to select the [Playback2] menu.
4. Use  or  to select [Resize] and press the  button.
5. Use  or  to select the desired setting, then press the  button to confirm.

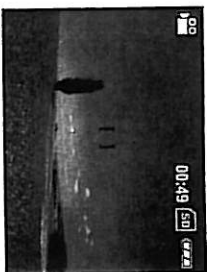
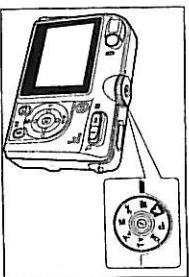






# VIDEO MODE

## Recording Video Clips

This mode allows you to record video clips with sound via built-in microphone.

1. Rotate the mode dial to  mode and turn your camera on by pressing the  button.
2. Press the shutter button to start recording.
3. To stop recording, press the shutter button again.










- The zoom function of optical zoom (3x) can be activated before you start to record video clips.
- Pressing the  /  button switches the LCD monitor display mode. Each time you press the  /  button, the display changes in the following order: Focus Frame On → Indicators Off → Composition Line On → LCD Off.



## Playing Back Video Clips

You can play back recorded video clips. A guide to operation appears on the LCD monitor during the video playback.

1. Press the  (Playback) button.
2. Use  or  to go through the images until the video clip you want to play back is displayed.
  - To view the previous image, press the  button.
  - To view the next image, press the  button.
3. Press the  button to start playing back the video clips.
  - To pause or resume video playback, press the  button again.



- The playback information displayed on the LCD monitor will disappear after seconds of time.
- The zoom function cannot be activated while playing the video clips back.
- To playback the video clips on the computer, we recommend you to use Windows Media Player 9.0 (WMP 9.0). You can download WMP version from the website at [www.microsoft.com](http://www.microsoft.com).

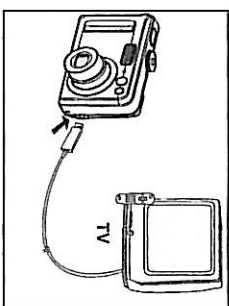


## PLAYBACK MODE - ADVANCED FEATURES

### Playing Back Still Images/Video Clips on TV

You can also playback your images on a TV screen. Before connecting to any device, make sure to select NTSC/PAL system to match the video output system of the video equipment you are going to connect to the digital camera, then turn all connected devices off.

1. Connect one end of the AV/V cable to the AV/V terminal of the digital camera.
2. Connect the other end to the AV/V input socket of the TV set.
3. Turn the TV and digital camera on.
4. Playback the images/video clips.
  - The method of operation is the same as playing back still images and video clips on the digital camera.



- The sound recorded with video clips can only be played back on TV or computers.

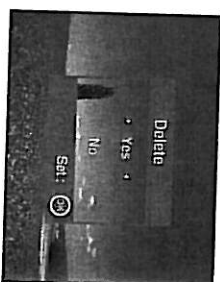
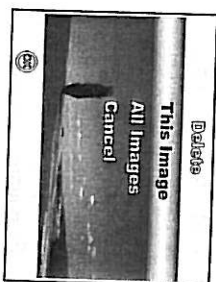
### Deleting Images/Video Clips

Use this function to delete one or all Images/Video clips stored in the internal memory or memory card. Please note that the deleted Images or Video clips cannot be recovered. Exercise caution before deleting a file.

1. Rotate the mode dial to **A**, **P**, **SCENE**, **TV**, **AV**, **M** or **RECORD** and turn your camera on by pressing the **ON** button.
2. Press the **DEL** button.
  - The last recorded Image appears on the LCD monitor.
3. Use **◀** or **▶** to select the Image you want to delete.
4. Press the **DEL** button.
5. Use **▲** or **▼** to select [This Image] or [All Images] by your preference, then press the **OK** button.
6. When the delete message appears, use **▲** or **▼** to select [Yes], then press the **OK** button to confirm the deletion.
  - If you wish to cancel the deletion, select [No].



- Protected Images cannot be deleted with the delete function.

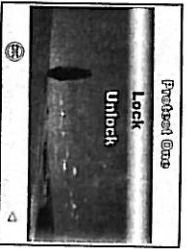




## Protecting Images/Video Clips

Set the data to read-only to prevent images from being erased by mistake.

1. Press the (Playback) button.
  - The last recorded image appears on the LCD monitor.
2. In (Playback) mode, use or to select the desired images.
  - To view the previous image, press the button.
  - To view the next image, press the button.
3. Press . The [Playback1] menu is displayed.
4. Use to select [Protect] and press the button.
5. Use or to choose the desired setting, then press the button.
  - [Protect One]: Protect one image/movie.
  - [Protect All]: Protect all images/movies (at once).
6. Use or to select [Lock], then press the button to confirm.
  - Press to return to the (Playback) mode.
  - The indicator appears on the selected image.
  - If you wish to cancel the protect function, select [Unlock].

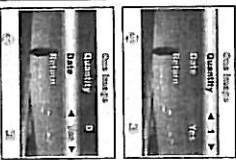
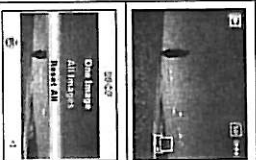


## Setting the DPOF

DPOF (Digital Print Order Format) allows you to embed printing information on your memory card. By using DPOF, you can select an image to be printed and then specify how many prints or which image you would like. Take your memory card to a DPOF enabled printer that accepts memory cards. The DPOF/card-compatible printer will read the embedded information on the memory card and print your images as specified.

To configure print settings for a single image / all images:

Step	Figure	Procedure
1		Press the  (Playback) button, then use  or  to select the desired image you want to mark . * The playback information displayed on the LCD monitor will disappear after seconds of time.
2		Press the  button. The [Playback1] menu is displayed. Use  or  to select [DPOF], then press the  button.
3		Use  or  to select by your preference, then press the  button. [One Image]: To configure print settings for a single image. [All Images]: To configure print settings for all images. [Reset All]: Returns all basic settings to the digital camera's default settings.

Step	Figure	Procedure
4		<p>Use <b>▲</b> or <b>▼</b> to select by your preference, then press the <b>OK</b> button.</p> <p>[Quantity]: Allows you to select image quantity (0~10). Use <b>◀</b> or <b>▶</b> to set the image quantity.</p> <p>[Date]: The date of recording can be printed directly on the images. Press the <b>OK</b> button to choose [Yes] or [No] with <b>◀</b> or <b>▶</b>.</p> <p>[Return]: To exit the mark function, use <b>▲</b> or <b>▼</b> to select [Return], then press the <b>OK</b> button.</p>
5		<p>Press <b>OK</b> to return to the image playback mode.</p> <p>* The <b>Print</b> icon is marked on the displayed image.</p> <p>To unmark the <b>Print</b> mark, go back to step 3 to select [Reset All] with <b>▲</b> or <b>▼</b>.</p>



- Before you perform the DPOF settings on your camera, always remember to copy your images from the internal memory to an SD memory card first.
- The **Print** icon will appear on the monitor indicating images selected for printing.
- You cannot print movies.

## TRANSFERRING FILES FROM YOUR DIGITAL CAMERA TO COMPUTER

After using USB cable to establish a USB connection between the camera and your computer, you can use your computer to share recorded images or video clips with your family or friends via e-mail or post them on the Web. In order to do this, you must install the USB driver onto your computer first. Note that before you begin to install the software, you need to check your system according to the table as shown below.

	System Requirements (Windows)	System Requirements (Macintosh)
CPU	Pentium III 600 MHz processor or higher	PowerPC G3/G4
Operating System	Windows 98/98SE/ME/2000/XP	OS 9.0 or higher
RAM	32MB (64MB RAM recommended)	32MB (64MB RAM recommended)
Hard Disk Space	128MB hard disk space	128MB hard disk space
Required Devices	A CD-ROM drive An available USB port	A CD-ROM drive An available USB port
Display	Color Monitor (800x600, 24-bit or higher recommended)	Color Monitor (800x600, 24-bit or higher recommended)

## Step 1: Install the USB driver

### ■ Installation on Windows 98 & 98SE

The USB driver on the supplied CD-ROM is exclusively for Windows 98 and 98SE. Windows 2000/ME/XP users need not install the USB driver.

1. Insert the enclosed CD-ROM into your CD-ROM drive.
2. When the welcome screen appears, click "Install USB/PC-Cam driver". Follow the on-screen instructions to complete the installation.
3. After the USB driver has been installed, restart your computer.

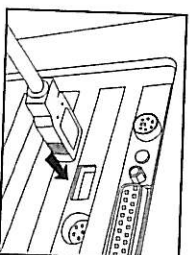


### ■ Installation on MAC OS 9.0

For Mac OS 9.0 or higher, the computer will automatically recognize the digital camera and load its own USB drivers.

## Step 2: Connect the digital camera to your computer

1. Rotate the mode dial to *f* and turn your camera on by pressing the  $\odot$  button.
2. Press  $\blacktriangleright$  to select the [Set-Up2] menu, then use  $\blacktriangledown$  to select [USB Mode].
3. Use  $\blacktriangledown$  to select [PC], then press the  $\odot$  button.
4. Connect one end of the USB cable to an available USB port on your computer.
5. There will be a new "Removable Disk" icon detected in "My Computer", in which contains your recorded images or video clips.  
(For Mac users, double-click [untitled] or [unlabeled] disk drive icon on our desktop.)



### Step 3: Download images or video clips

When the digital camera is turned on and connected to your computer, it is considered to be a disk drive, just like a floppy disk or CD. You can download (transfer) images by copying them from the "Removable disk" ("untitled" or "unlabeled" disk on a Macintosh) to your computer hard drive.

#### ■ Windows

Open the "removable disk" and double click on the DCIM / DSCIM folder to open it to find more folders. Your images are inside these folder(s). Select the desired still images or video clips and then choose "Copy" from the "Edit" menu. Open the destination location (folder) and choose "Paste" from the "Edit" menu. You may also drag and drop image files from the digital camera to a desired location.

#### ■ Macintosh

Open the "untitled" disk icon, and the destination location on your hard disk. Drag and drop from the digital camera to the desired destination.



- Memory card users may prefer to use a memory card reader (highly recommended).
- Video playback application is not included with the package. Make sure that video playback application has been installed in your computer.

## EDITING SOFTWARE INSTALLATION

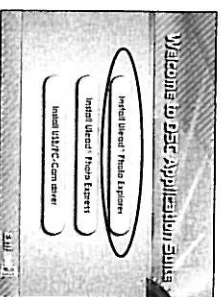
### Installing Photo Explorer

Ulead® Photo Explorer provides a simple and efficient way to transfer, browse, modify and distribute digital media. Acquire photos, video or sound clips from various digital device types and easily browse or add personal descriptions; make timely modifications; or distribute the media through the medium of your choice: E-mail, Print, Slideshow Presentations. It is an indispensable all-in-one tool for owners of digital cameras, WebCams, DV camcorders, scanners, or anyone who strives to effectively organize a large collection of digital media.

1. Insert the enclosed CD-ROM into your CD-ROM drive.
2. When the welcome screen appears, click "Install Ulead® Photo Explorer". Follow the on-screen instructions to complete the installation.



- For more information about the operation of Photo Explorer application software, refer to its respective help documentation.
- For Windows 2000/XP users, please make sure to install and use the Photo Explorer in "Administrator" mode.
- Photo Explorer is not supported on the Mac. iPhoto or iPhoto2 is recommended.



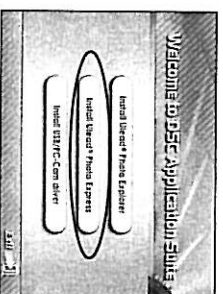
## Installing Photo Express

Ulead® Photo Express is complete photo project software for digital images. The step-by-step workflow, Visual program interface, and In-program help assist users in creating exciting photo projects. Acquire digital photos effortlessly from digital cameras or scanners. Organize them conveniently with the Visual Browse mode. Use hundreds of ready-to-use templates such as albums, cards, posters, slideshows, and more. Edit and enhance images with photo editing tools, photographic filters, and special effects. Embellish projects by adding creative design elements such as frames, callouts, and stamp objects. Share results with family and friends via e-mail and multiple print options.

1. Insert the enclosed CD-ROM into your CD-ROM drive.
2. When the welcome screen appears, click "Install Ulead® Photo Express". Follow the on-screen instructions to complete the installation.



- For information on how to use Photo Express to edit and retouch your recorded images, please refer to its online help.
- For Windows 2000/XP users, make sure to install and use the Photo Express while logged in as a user with an Administrator account.
- Photo Express is not supported on the Mac.



## USING THE DIGITAL CAMERA AS A PC CAMERA

Your digital camera can act as a PC camera, which allows you to videoconference with business associates, or have a real-time conversation with friends or family. To use the digital camera for videoconferencing, your computer system must include the items as below:

- Microphone
- Sound card
- Speakers or headphones
- Network or Internet connection

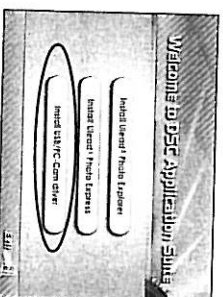


- Video conferencing (or video editing) software is not included with the digital camera.
- This mode is not supported for Mac.

### Step 1: Install the PC camera driver

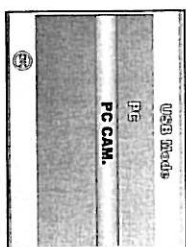
The PC-camera driver included in the CD-ROM is exclusively for Windows. The PC camera function is not supported for Mac platforms.

1. Insert the enclosed CD-ROM into your CD-ROM drive.
2. When the welcome screen appears, click "Install USB/PC-Cam driver". Follow the on-screen instructions to complete the installation.
3. After the driver installation is completed, restart your computer.



## Step 2: Connect the digital camera to your computer

1. Rotate the mode dial to **f** and turn your camera on by pressing the **Q** button.
2. Press **▶** to select the [Set-up2] menu, then use **▼** to select [USB Mode].
3. Use **▲** or **▼** to select [PC CAM.], then press the **OK** button.
4. Connect one end of the USB cable to an available USB port on your computer.
5. Position the digital camera steadily on top of your computer monitor or use a tripod.



- When using this digital camera as a PC camera, it is necessary to install the battery into the digital camera.

## Step 3: Run your application software (i.e. Windows NetMeeting)

To use Windows NetMeeting for videoconferencing:

1. Go to **Start** → **Programs** → **Accessories** → **Communications** → **NetMeeting** to launch the NetMeeting program.
2. Click the **Start Video** button to view live video.
3. Click the **Place Call** button.
4. Type the e-mail address or the network address of the computer that you are calling.
5. Click **Call**. The person that you are calling must also have Windows NetMeeting running and be willing to accept your call to start the videoconference.



- The video resolution for videoconferencing applications is generally 320 x 240.
- For more information about the operation of videoconference application software, refer to its respective help documentation.

## MENU OPTIONS

### Camera Menu





This menu is for the basic settings to be used when capturing still images.










1. Rotate the mode dial to **A**, **P**, **SCENE**, **Tv**, **Av** or **M** and turn your camera on.
2. Press **Q**, then use **▶** or **▶** to select the [Mode1] / [Mode2] / [Mode3] menu.
  - In **A** (Auto) Mode, press **Q** to access in menu directly.
3. Press **▲** or **▼** to select the desired setting, then press the **OK** button.
4. To exit from the menu, press the **Q** button.






- In **A** (Auto) Mode














Item	Functional Description
Image Size 	Sets the size of the image that will be captured. <ul style="list-style-type: none"> <li>• <b>EM</b> 2848 x 2136</li> <li>• <b>4M</b> 2272 x 1704</li> <li>• <b>2M</b> 1600 x 1200</li> <li>• <b>NT</b> 640x480</li> </ul>
Quality 	Sets the quality (compression rate) at which the image is captured. <ul style="list-style-type: none"> <li>• <b>**</b> Fine</li> <li>• <b>*</b> Normal</li> <li>• <b>*</b> Economy</li> </ul>

Item	Functional Description
Capture Mode 	Sets the recording method at the time of taking pictures. <ul style="list-style-type: none"> <li>•  Single</li> <li>•  Burst</li> <li>•  AEB</li> </ul>

■ In P, SCENE, TV, AV or M Mode

Mode1	Item	Functional Description
	Image Size 	Refer to "Camera Menu - In A (Auto) Mode" in LIST OF MENU OPTIONS.
	Quality 	Refer to "Camera Menu - In A (Auto) Mode" in LIST OF MENU OPTIONS.
	W. Balance 	Sets the white balance photographing under a variety of lighting conditions and permits photographs to be taken that approach the conditions that are seen by the human eye. <ul style="list-style-type: none"> <li>• Auto</li> <li>•  Daylight</li> <li>•  Cloudy</li> <li>•  Tungsten</li> <li>•  Fluorescent</li> </ul>










Mode1	Item	Functional Description
	ISO 	Sets the sensitivity for taking pictures. When the sensitivity is raised (and the ISO figure is increased), photography will become possible even in dark locations, but the more pixilated (grainer) the image will appear. *Auto / 50 / 100 / 200
Mode2	Item	Functional Description
	Metering 	Refer to section in this manual titled "Selecting the Metering Mode" for further details.
	Capture Mode 	Refer to "Camera Menu - In A (Auto) Mode" in LIST OF MENU OPTIONS.
	Digital Zoom 	This sets whether or not to use digital zoom at the time of shooting. • On / Off
	Quick View 	Set to display a photographed image on LCD monitor immediately after you have taken the shot. • On / Off



Mode3	Item	Functional Description
	Color 	<p>Sets the color of the image that will be captured.</p> <ul style="list-style-type: none"> <li> Full Color</li> <li> Black &amp; White</li> <li> Sepia</li> </ul>
	Sharpness 	<p>Sets the level of image sharpness.</p> <ul style="list-style-type: none"> <li> High</li> <li> Medium</li> <li> Low</li> </ul>
	Saturation 	<p>To capture an image, your camera offers you three different degrees of color to match with your preference. Your Images will demonstrate different impression by selecting different degrees of color. This is called "Saturation".</p> <ul style="list-style-type: none"> <li> High</li> <li> Medium</li> <li> Low</li> </ul>
	Date Imprint 	<p>The date of recording can be printed directly on the still images. This function must be activated before the image is captured. The date appears on the right bottom of the captured picture. When images are shot with date Imprint feature, the date cannot be removed later.</p> <ul style="list-style-type: none"> <li>On / Off</li> </ul>

## Video Menu

This menu is for the basic settings to be used when recording video clips.




1. Rotate the mode dial to  mode and turn your camera on.
2. Press , then use  or  to select the option item, then press the  button.
3. Use  or  to select the desired setting, and press the  button.
4. To exit from the playback menu, press the  button.









Item	Functional Description
Color 	REFER TO "Camera Menu-In In P, SCENE, TV, Av or M Mode (Modes3)" of MENU OPTIONS.
Digital Zoom 	REFER TO "Camera Menu-In In P, SCENE, TV, Av or M Mode (Modes2)" of MENU OPTIONS.






## Playback Menu

In the  (Playback) menu, set which settings are to be used for playback.













1. Press the  (Playback) button.
  - The last recorded image appears on the LCD monitor.
2. Press , then use  or  to select [Playback1] or [Playback2] menu.
3. Use  or  to select the desired setting and press the  button.
4. To exit from the playback menu, press the  button.

### ■ [Playback1] settings

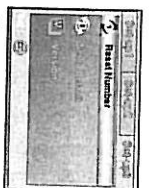
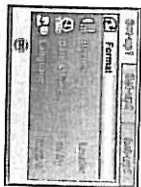
Item	Functional Description
 Slide Show	You can play back recorded images in order with a selected interval time. This function is useful for checking your images or for presentations, etc. Refer to the section in this manual titled "Slideshow Display" for further details.
 Protect	Set the data to read-only to prevent images from being erased by mistake. Refer to the section in this manual titled "Protecting Images/Movie clips" for further details.
 DPOF	Allows you to select the desired pictures to be printed and set the number of prints and date displayed in DPOF format. You can print images easily just by inserting the memory card to a DPOF-compatible printer or taking it to a print shop. Refer to the section in this manual titled "Setting the DPOF" for further details.

### ■ [Playback2] settings

Item	Functional Description
 Resize	Changes the size of a recorded image. Resizing replaces the original image with the changed image. Only resizing to the smaller size is available.
	<ul style="list-style-type: none"> <li>*  2848x2136</li> <li>*  2272x1704</li> <li>*  1600x1200</li> <li>*  640x480</li> </ul>
 Quality Change	Change the quality (compression rate) of a recorded image. Compresses images down to half of their size or more, overwrites an old size images with a newly compressed image. Only quality changing to the lower quality level is available.
	<ul style="list-style-type: none"> <li>*  Fine</li> <li>*  Normal</li> <li>*  Economy</li> </ul>
 Copy To Card	Allows you to copy your files from the digital camera's internal memory to a memory card. Of course, you can only do this if you have a memory card installed and some files in internal memory.
	* Yes / No

## Setup Menu

This feature allows you to set up the default settings by preference for using your camera.



1. Rotate the mode dial to *f* (Setup) mode and turn your camera on.
2. Press **[M]**, then use **[Left]** or **[Right]** to select the [Set-up1] / [Set-up2] / [Set-up3] menu.
3. Use **[Up]** or **[Down]** to select the desired option item, then press the **[OK]** button.
4. To exit from the setup menu, rotate the mode dial to other desired mode again.

### ■ [Set-up1] settings

Item	Functional Description
Format	Erases all images and reformats the SD card loaded in your camera. Protected images are also erased. SD card cannot be formatted if it is write-protected. Refer to the section in this manual titled "Formatting an SD Memory Card or Internal Memory" for further details. * Yes / No
Beeper	This sets whether or not to mute the startup sound, and the camera sound each time you press a camera button. * Louder / Soft / Off
Date & Time	This sets the date and the time. Refer to the section in this manual titled "Setting the Date and Time" for further details.
Language	Sets the language that is displayed on the LCD monitor. Refer to the section in this manual titled "Choosing the Screen Language" for further details. * English / Français / Deutsch / Español / Italiano / 繁體中文 / 简体中文

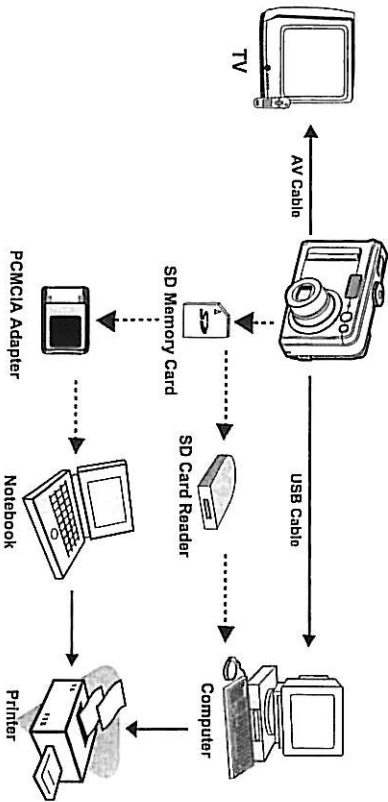
### ■ [Set-up2] settings

Item	Functional Description
USB Mode	Selects to choose one of the following modes for further settings. * PC / PC CAM.
TV	Sets video output of the camera for matching the video output system of the equipment that you are going to connect to the camera. * PAL / NTSC
LCD Brightness	This sets the brightness of the LCD monitor. The adjustment range is from -5 to +5.
Auto Shut Down	If no operation is performed for a specific period of time, the power to the camera is automatically turned off. This feature is useful to reduce battery wear. * 2 Min. / 3 Min. / 5 Min. / Off

### ■ [Set-up3] settings

Item	Functional Description
Reset Number	Sets whether or not to reset the file number when you take photographs. This creates a new folder. The captured images are recorded to the newly created folder from number 0001. If you want to reset the file number, be sure that no images are recorded in the internal memory or the SD memory card. * Yes / No
Set to Default	Returns all basic settings to the digital camera's default settings. The time setting will not be reset. * Yes / No
Version	This displays the current firmware version of the camera.

# CONNECTING THE DIGITAL CAMERA TO OTHER DEVICES



## SPECIFICATIONS

Item	Description
Image Sensor	CCD
Effective pixels	6.0 Mega pixels
Image size	Still image: 2848 x 2136, 2272 x 1704, 1600 x 1200, 640 x 480 Video clip: 320 x 240
Image quality	Still image: Fine, Normal, Economy Movie image: Economy
Recording media	16MB internal memory SD memory card (Optional, up to 1GB)
File format	Motion JPEG (AVI)
Lens	F-no.: Wide: 2.8 / Tele: 4.8 Focal length: 7.5mm-22.5mm (Equivalent 36-108mm)
Focus range	Normal: 50 cm-infinity Wide: 6 cm-infinity Tele: 30 cm-infinity
LCD monitor	2.0" LTPS color LCD High-resolution 130K pixels display
Self-timer	10 sec delay, 2 sec delay, 10+2 sec delay
Exposure compensation	-2.0EV ~ +2.0EV (in 0.3EV increments)
White balance	Auto, Daylight, Cloudy, Tungsten, Fluorescent
ISO	Auto, 50, 100, 200
Interface	DC-IN jack, USB connector, AV terminal
Power	2 x AA Alkaline batteries (Optional) AC-DC Adapter (3V/2.5A) (Optional)
Dimension	Approx. 91 x 61 x 27 mm
Weight	Approx. 150g (without batteries and the SD memory card)

\* Design and specifications are subject to change without notice.

# APPENDIX

## ■ Troubleshooting Guide

Symptom	Possible causes	Solutions / Corrective Actions
The power does not turn on.	<ul style="list-style-type: none"> <li>• The battery has run out.</li> <li>• The battery is not oriented correctly.</li> <li>• The battery cover is not closed properly.</li> <li>• The AC power adapter (optional) is disconnected.</li> </ul>	<ul style="list-style-type: none"> <li>• Load new or fully charged battery.</li> <li>• Load the battery in the correct direction.</li> <li>• Close the battery cover correctly.</li> <li>• Properly connect the AC power adapter.</li> </ul>
The camera suddenly powers down.	<ul style="list-style-type: none"> <li>• The function of Auto Shut Down in <b>f</b> (Setup) mode has been activated.</li> <li>• The battery has run out.</li> </ul>	<ul style="list-style-type: none"> <li>• Set the option of Auto Shut Down to Off.</li> <li>• Turn the power back on or charge the battery.</li> </ul>
The image is not captured when the shutter button is pressed.	<ul style="list-style-type: none"> <li>• The camera is in <b>[▶]</b> (Play) mode.</li> <li>• Memory is full.</li> </ul>	<ul style="list-style-type: none"> <li>• Rotate the mode dial to <b>A</b>, <b>P</b>, <b>SCENE</b>, <b>TV</b>, <b>AV</b> or <b>M</b>.</li> <li>• Transfer the desired files to your computer and then delete unnecessary files, or use a different memory card.</li> </ul>
The flash does not fire.	<ul style="list-style-type: none"> <li>• <b>NO FLASH</b> is selected in flash mode.</li> <li>• The camera is in <b>Burst/AEB/ [ ]</b> (Video) mode.</li> </ul>	<ul style="list-style-type: none"> <li>• Select a different flash mode.</li> <li>• Select [Single] in the capture mode.</li> </ul>
Continuous shooting is not possible.	<ul style="list-style-type: none"> <li>• The capacity of the built-in memory or SD memory card is full.</li> </ul>	<ul style="list-style-type: none"> <li>• Insert a new SD memory card.</li> </ul>
Cannot transfer files over a USB connection.	<ul style="list-style-type: none"> <li>• The USB cable is not connected securely.</li> <li>• The USB driver is not installed.</li> <li>• The camera is turned off.</li> </ul>	<ul style="list-style-type: none"> <li>• Check all connections.</li> <li>• Install the USB driver on your computer.</li> <li>• Turn on the camera.</li> </ul>