FCC STATEMENT (For customers in USA)

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, 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.

Notice
If static electricity or electromagnetism causes data transfer to discontinue midway (fail), restart the application or disconnect and connect the communication cable (USB, etc.) again.

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.
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.
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.

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.	🚫
Do not fire the flash close to anyone's eyes. This might cause damage to the person's eyesight.	🚫
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.	🚫
A camera is a precision instrument. Do not drop it, strike it or use excessive force when handling the camera. This might cause damage to the camera.	🚫
Do not use the camera in humid, steamy, smoky, or dusty places. This might cause fire or electric shock.	🚫
Do not remove the battery immediately after long period of continuous use. The battery becomes hot during use. Touching a hot battery might cause burns.	🚫
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.	🚫
Do not leave the camera in places where the temperature may rise significantly, such as inside a car. 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.	🚫

Warning:
TO PREVENT THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE

FOR AMERICAN USERS
The following advisory is included in accordance with the laws of the State of California (USA):

WARNING:
This product contains chemicals, including lead, known to the States of California to cause cancer, birth defects or other reproductive harm. ***Wash hands after handling***.

■ 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 designated 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 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.
■ Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FOR CANADIAN USERS

■ This Class B digital apparatus complies with Canadian ICES-003

FOR EU USERS

Note:
■This symbol mark and recycle system apply to EU countries and do not apply to countries in other areas of the world.

Your SANYO product is designed and manufactured with high quality materials and components which can be recycled and reused.
This symbol means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from your household waste.
Please dispose of the equipment at your local community waste collection/recycling centre.
In the European Union there are separate collection systems for used electrical and electronic products.
Please help up to conserve the environment we live in!

Symbols used in this manual

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

NOTE

You many find the answers to questions or problems concerning camera operation in the section "TROUBLESHOOTING GUIDE".

FCC Information

FC
Tested To Comply
With FCC Standards

FOR HOME OR OFFICE USE

Declaration of Conformity

Model number: VPC-S500
Trade Name: SANYO
Responsible party: SANYO FISHER COMPANY
Address: 21605 Plummer Street, Chatsworth, California 91311
Telephone No.: (818) 998-7322
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.

Canadian ICES-003 information

This class B digital apparatus complies with Canadian ICES-003.

Notes on Battery Usage

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

- Different battery types and surrounding temperatures may affect the battery performance.
- 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.
- 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.
- 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.
- The camera may feel warm when being used continuously or for an extended period of time. This is normal and not a malfunction.
- 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.
- Risk of explosion if battery is replaced by an incorrect type.
- Dispose of used batteries according to the instructions.

CONTENTS

INTRODUCTION

Thank you for purchasing the new digital still camera!
Equipped with a 5.0 Megapixels CCD sensor, your camera delivers high quality, 2560 x 1920 resolution images. Other features provided by the camera include the following:

- **5.0 Megapixels**
  A high-resolution CCD sensor provides 5.0 megapixels for high quality of images.
- **Auto flash**
  An auto flash sensor automatically detects the shooting (lighting) conditions and determines whether the flash should be used.
- **2.4" TFT color image LCD monitor**
- **Optical zoom: 1x~3x**
- **Digital zoom: 1.2x~4x**
- **Approx. 16MB internal (built-in) memory**
  Images can be captured without using an SD/SDHC memory card.
- **Support for SD/SDHC memory card for memory expansion**
  You may wish to expand the memory capacity by using an additional SD/SDHC memory card.

- **USB connection**
  Still images or movie clips that you have recorded can be downloaded to your computer using the USB cable.
- **DPOF functionality**
  DPOF can be used to print your images on a DPOF compatible printer by simply inserting the SD/SDHC memory card.
- **Provided editing software: Photo Explorer/ Photo Express/ Cool 360**
  You can enhance and retouch your images on your computer by using the provided editing software.
- **PictBridge support**
  You can connect the camera directly to a printer that supports PictBridge and perform image selection and printing using the camera monitor screen and controls.

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 Quick Guide
- Software CD-ROM (Instruction Manual Included)
- Camera Strap
- USB Cable
- Batteries

NOTE
- Accessories and components may vary by retailer.

GETTING TO KNOW YOUR CAMERA

Front View
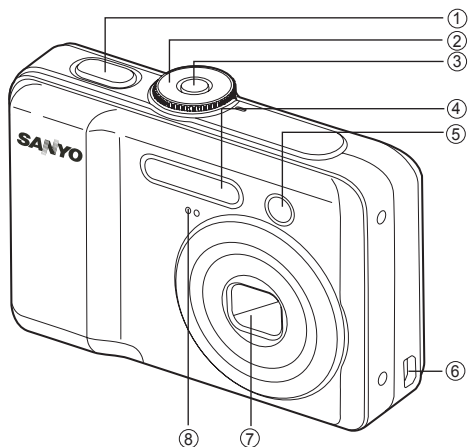
1. Shutter release button
2. Mode dial
3. Power switch
4. Flash

5. Self-timer LED
6. PC / Video terminal
7. Lens
8. Microphone

Rear View
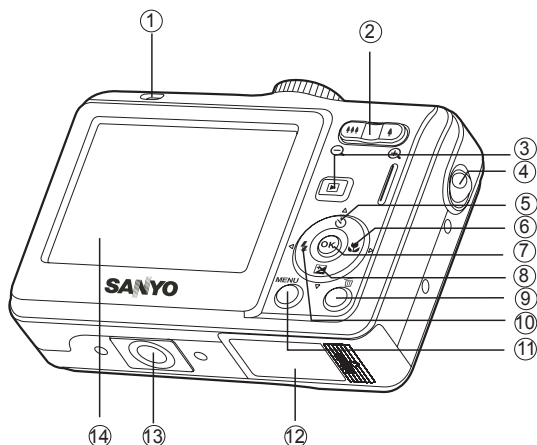
1. LED indicator
2. ♠ / ⊕ Zoom in (telephoto) button
   ♠♠♠/ ⊖ Zoom out (wide-angle) button
3. ▶ Playback button
4. Strap holder
5. ▲ Arrow button (Up)
   ⟳ Self-timer button
6. ▶ Arrow button (Right)
   ♥ Focus
7. OK button
8. ▼ Arrow button (Down)
   ⊞ Exposure compensation button
9. 🗑 Delete button
10. ◀ Arrow button (Left)
    ♭ Flash button
11. **MENU** button
12. Battery / SD / SDHC card cover
13. Tripod socket
14. LCD monitor

LCD Monitor Information

■ **Camera Mode**

1. Mode indication
   - [**P**] Program Mode
   - [🧍] Portrait Mode
   - [⬛] Panorama Mode
   - [🏃] Sport Mode
   - [★] Night Mode
   - [🎥] Movie Mode
   - [**A**] Auto Mode
2. Flash mode
   - [**⚡A**] Auto
   - [**⚡👁**] Red-eye
   - [**⚡**] Flash on
   - [🚫⚡] Flash off
3. Capture mode
   - [📷X1] Single
   - [📚] Burst
   - [🔲] AEB
   - [⏱2] 2 sec. Self-timer
   - [⏱10] 10 sec. Self-timer
   - [⏱10+2] 10+2 sec. Self-timer
4. Focus mode
   - [AUTO] Standard
   - [🌷] Macro
   - [▲] Infinity
5. Possible number of shots
6. Memory status
   - 🖼 : Built-in memory (without card)
   - 🔲SD : SD/SDHC memory card
7. Battery
   - [🔋] Full battery power
   - [🔋] Medium battery power
   - [🔋] Low battery power
   - [🔲] No battery power
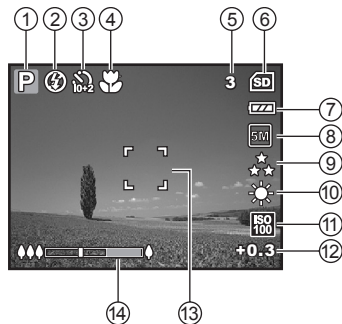
8. Recorded pixels
   - [5M] 2560 x 1920
   - [3M] 2048 x 1536
   - [1.2M] 1280 x 960
   - [0.3M] 640 x 480
9. Image quality
   - [★★] Fine
   - [★] Normal
   - [★] Economy
10. White balance
    - [AUTO] Auto
    - [☀] Daylight
    - [☁] Cloudy
    - [💡] Tungsten
    - [🗠] Fluorescent
11. ISO sensitivity
    - [ISO AUTO] Auto
    - [ISO 64] 64
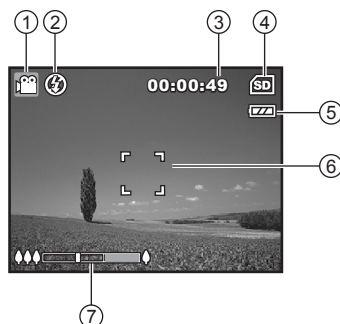   - [ISO 100] 100
    - [ISO 200] 200
    - [ISO 400] 400
12. EV compensation
13. Focus area
14. Zoom bar

■ Movie Mode

1. Movie mode
2. Flash mode
3. Recordable movie time available
4. Memory status
5. Battery power indicator
6. Focus area
7. Zoom bar

■ Image Playback

1. Playback mode
2. Number of image
3. Memory status
4. Battery power indicator
5. Index number of total number
6. DPOF indicator
7. Protect indicator
8. Date
9. Time
10. Aperture
11. Shutter speed
12. EV compensation
13. ISO sensitivity
14. White balance
15. Image quality
16. Recorded pixels
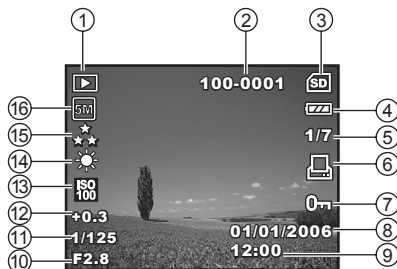
■ Movie Playback

1. Playback mode
2. Movie mode
3. Number of movie
4. Memory status
5. Battery power indicator
6. Index number of total number
7. Elapsed time
8. Date
9. Time
10. Play/Pause indicator
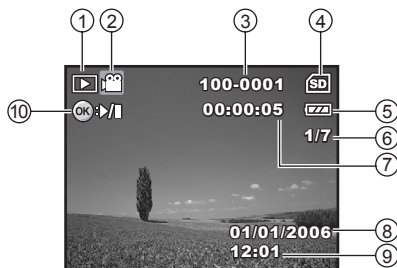
PREPARING THE CAMERA

Installing the Batteries

You can use 2 AA size batteries (Ni-MH rechargeable or alkaline) 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.
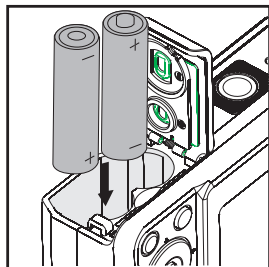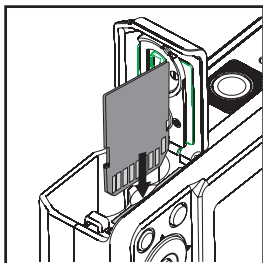
NOTE
- Be careful not to drop the batteries when opening or closing the battery cover.
- Due to the characteristics of AA alkaline battery, camera performance may deteriorate. AA alkaline battery is not recommended except in emergencies and checking the camera's functionality.

## Inserting and Removing an SD/SDHC 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/SDHC 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/SDHC memory card cover.
3. Insert an SD/SDHC memory card in the correct orientation as shown in the illustration.
4. Close the battery/SD/SDHC memory card cover.
   ■ To remove the SD/SDHC memory card, make sure the camera is turned off. Press lightly on the edge of the memory card and it will eject.

NOTE

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

LOCK | LOCK
Write-protect tab | Write-protection state
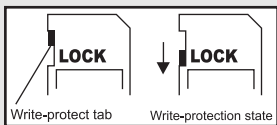
Attaching the Camera Strap

Attach the strap as shown in the illustration.
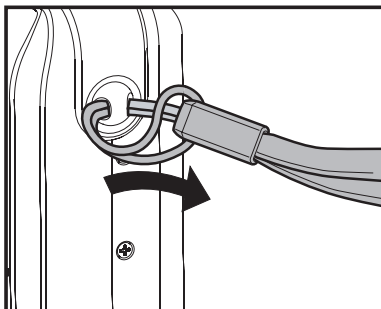
LED Indicators and Self-timer Indicators

Indicators	State	Description/Activity
LED indicator	Solid green	The digital camera is on.
LED indicator	Blinking red and green	USB transfer in progress
LED indicator	Blinking red and green	Charging the flash.
Self-timer indicator	Blinking blue	The self-timer function is activated.

GETTING STARTED

Turning the Power On/Off

■ Press the power switch until the digital camera turns on.
■ To turn the power off, press the power switch again.
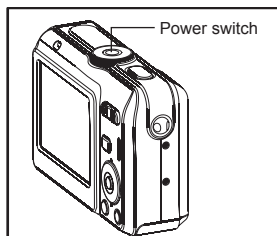
Power switch

Choosing the Screen Language

Follow the steps below to choose the desired language.

1. Rotate the mode dial to 🔧 and turn your camera on by pressing the power switch.
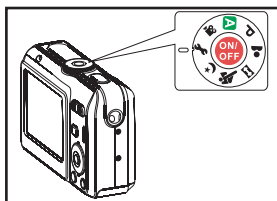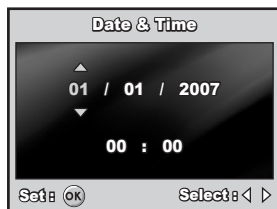
2. [Set-up1] is displayed.
3. Use the four-way controller (▼) to select [Language], then press the OK button.
4. Use the four-way controller (▲▼) to select the language you want.
5. Press the OK button to confirm.

Set-up1	Set-up2	Set-up3
Format		
Beeper		Louder
Date & Time		m/d/y
Language		English
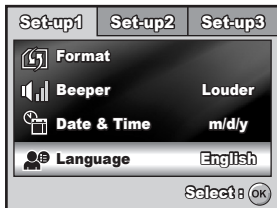
Select : OK

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 🔧 and turn your camera on by pressing the power switch.
2. [Set-up1] is displayed.
3. Use the four-way controller (▼) to select [Date & Time] and the four-way controller (◄►) to switch the date types, then press the OK button.

Set-up1	Set-up2	Set-up3
📷 Format		
🔊 Beeper		Louder
🗓 Date & Time		◄ m/d/y ►
👤 Language		English
		Select : ◄ ►

4. Press the four-way controller (◄►) to select Day, Month, Year and Time fields.
   ■ To increase a value, press the four-way controller (▲).
   ■ To decrease a value, press the four-way controller (▼).
   ■ The time is displayed in 24-hour format.
5. Press the OK button after all fields are set.

Date & Time

▲
01 / 01 / 2007
▼

00 : 00

Set : OK   Select : ◄ ►

NOTE

• The date illustration shown is for the purpose of explanation and may differ from the actual setting of your camera.

Formatting an SD/SDHC Memory Card or Internal Memory

The term "Formatting" means preparing an "SD/SDHC memory card" to record images; this process is also called "initialization". This utility formats an SD/SDHC memory card or the internal memory and erases all stored images and data.

1. Rotate the mode dial to 🔧 and turn your camera on by pressing the power switch.
   - [Set-up1] is displayed.
2. Use the four-way controller (▼) to select [Format], then press the OK button.

3. Use the four-way controller (▲▼) to select [Yes], then press the OK button to confirm.
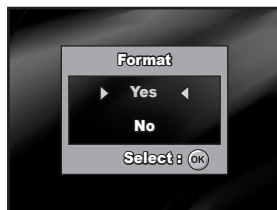
NOTE	• When you format an SD/SDHC memory card, be aware that all data on the SD/SDHC memory card will be erased. Protected images are also erased. • To format the internal memory, do not insert an SD/SDHC memory card into the camera. Otherwise, you will format the SD/SDHC memory card. • An SD/SDHC memory card having any problem cannot be properly formatted.

Using the LCD Monitor

Your camera is equipped with a 2.4" full color TFT LCD monitor to help you compose images, replay recorded images/movie 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, 👤, ↔, 🏃, or ★).
2. Press the power switch to turn on the power.
3. Compose your scene on the LCD monitor.
4. Press the shutter release button.

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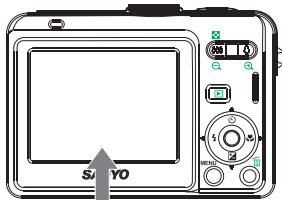
- The LCD monitor darkens in strong sunlight or bright light. This is not a malfunction.
- To prevent your images from being blurred while pressing the shutter release button, always hold it carefully. This is especially important when you are shooting under low lighting conditions, since your camera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

PHOTOGRAPHY MODE

Shooting Images

1. Rotate the mode dial to A , P , 👤 , 🔁 , 🎇 , or 🌙 and turn your camera on by pressing the power switch.
2. Compose the image on the LCD monitor screen so that the main subject is within the focus frame.
3. Press the shutter release button down halfway to focus the image.
   - When you press the shutter release button down halfway, the camera's Auto Focus feature automatically focuses the image. The focus frame turns green if the subject is in focus. Proper exposure is determined and locked at the same time.
4. Press the shutter release button the rest of the way down to capture the image.
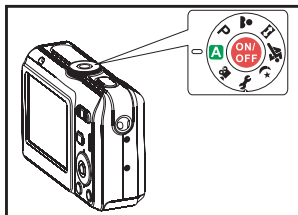
NOTE

- The actual captured image appears to be larger than the one displayed by the LCD monitor screen after the image has been captured.
- Pressing the OK button switches the LCD monitor display mode. Each time you press the OK button, the display changes in the following order: Normal Display → Information Display → No Icons → LCD Off.

Mode Dial

You can select from seven shooting modes and setup mode according to shooting conditions to achieve the desired effect.
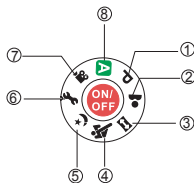
		Mode	Description
1.	**P**	Program	Select this mode to permit the ISO, EV, and White Balance to be set manually.
2.		Portrait	Select this mode to make people stand out with the background out-of-focus.
3.		Panorama	Select this mode to take a series of shots then stitch them together with software to make a single photo.
4.		Sports	Select this mode to shoot fast moving objects.
5.		Night	Select this mode to take photographs of people against a dusk or night-time background.
6.		Setup	Select this mode to adjust the camera settings.
7.		Video	Select this mode to record video clips.
8.		Auto	Select this mode to adjust point-and-shoot action.

Setting the Panorama Mode

This mode is designed to make it easier to take a series of shots then stitch them together with software to make a single photo. You can capture a photographic subject that won't fit into a single frame, such as a landscape, and stitch it together later with a program such as Cool 360 or Photoshop application.
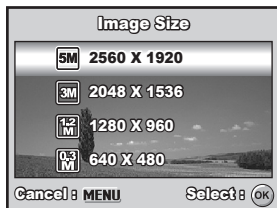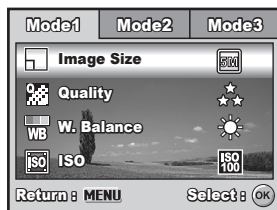
1. Rotate the mode dial to 📷.
2. Shoot the first image.
   - The next image appears beside the previous image.
3. Orient the camera so that the second frame overlaps a small portion of the photographic subject of the first image and press the shutter button to capture the next image.
4. Follow the same steps to capture subsequent images in the sequence.
5. Finish the sequence by pressing the **MENU** button or rotate to another mode after the last image has been recorded.

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 the internal memory, or on an SD/SDHC 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], [👤], [↔],
   [✨], or [★)] and turn your camera on by
   pressing the power switch.
2. Press the **MENU** button.
   - [Mode1] is displayed.
   - In the [A] mode, [Auto] is displayed.
3. Use the four-way controller (▼) to select
   [Image Size], then press the OK button.
4. Use the four-way controller (▲▼) to select
   the desired setting, then press the OK
   button to confirm.
5. Follow the step 3 and 4 above to set the
   [Quality].

Mode1	Mode2	Mode3
☐ Image Size		5M
▦ Quality		★★★
WB W. Balance		☀
ISO ISO		ISO 100

Return : **MENU** Select : OK

Image Size

5M	2560 X 1920
3M	2048 X 1536
1.2 M	1280 X 960
0.3 M	640 X 480

Cancel : **MENU** Select : OK

NOTE
- 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 the 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.

The zoom bar indicates the current level of magnification. When the digital zoom is within 3x magnification, the zoom bar is within the optical zoom range. When the digital zoom function is set to **On**, 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) and the zoom bar is within the digital zoom area. You can enlarge the subject to a maximum magnification equivalent to 12

Optical zoom range   Zoom bar   Digital zoom range

times. A useful feature as it is, however, the more the image is enlarged, the more pixelated the image will appear.

To capture a zoomed image, perform the following steps:

1. Rotate the mode dial to [A], [P], [👤], [➡], [🎆], or [★)] and turn your camera on by pressing the power switch.
2. Adjust the magnification ratio by using the ♦♦♦/ ♠ button.
   - 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 release button.
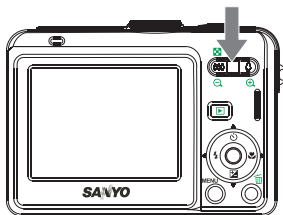
NOTE

- To enable digital zoom feature, set the [Mode2- Digital Zoom] to [On] in the [P], [👤], [➡], [🎆], or [★)] mode.

Using the Flash

The flash is designed to function automatically when lighting conditions warrant the use of flash. You can take an image using a desired flash mode to suit your circumstances.

1. Rotate the mode dial to Ⓐ𝐀, 𝐏, ☺, ⇆, ❀, or ★❭.
2. Press the power switch to turn on the power.
3. Press the four-way controller (◄/⚡). The flash mode changes each time the button is pressed. You can also change the setting using the four-way controller (▲▼).

4. Press the OK button to confirm the setting.
5. Compose your scene and press the shutter release button.

The camera has four flash modes: Auto, Auto + Red-eye, Flash on and Flash off.
The table below will help you to choose the appropriate flash mode:

Flash mode	Description
⚡A Auto	The flash fires automatically according to the photographic conditions.
⚡⊙ 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.
⚡ Flash on	The flash will always fire regardless of the surrounding brightness.
⚱ Flash off	The flash will not discharge, regardless of the brightness. Use this mode when taking pictures using indoor lighting, for stages and indoor competitions, and when the subject is too far away for the flash to be effective.

Setting Focus

Images can be captured with the focus determined automatically using auto focus. You may over-ride the auto focus and specify [🌷] macro or [▲] infinity.

1. Rotate the mode dial to A, P, 🔺, 🔁, 🎆, or ★).
2. Press the power switch to turn on the power.
3. Press the four-way controller (▶/🌷). The focus mode changes each time the button is pressed. You can also change the setting using four-way controller (▲▼).
4. Press the OK button to confirm the setting.
5. Compose your scene and press the shutter release button.

The camera has three focus modes: Standard, Macro and Infinity.
The table below will help you choose the appropriate focus mode:

Focus mode	Description
⒜ᴜᴛᴏ Standard	Select Standard-focus setting for most occasions when you want the camera to automatically determine the focus setting.When using Standard-focus setting, any object at a focus range of 40 cm (15.7") or greater can be in focus.
🌷 Macro	Select Macro-focus setting to capture close-up images. When the lens is zoomed to its widest position you may focus objects as close as 6 cm (2.4"). When the lens is zoomed to its telephoto position (3x zoom) you may focus objects as close as 35 cm (13.8").
▲ Infinity	Select Infinity-focus setting when you want to capture images of subject at a distance of infinity. The flash mode will be set to **Flash Off** automatically.

CAPTURE MODE

Burst

This mode is used for continuous shooting. 3 pictures are taken continuously once the shutter release button is pressed. Secure the camera to a tripod or place it on a stable surface.

1. Rotate the mode dial to ⓐ, P, 👤, ⟷, ✤, or ★.
2. Press the power switch to turn on the power.
3. Press the four-way controller (▲/⟲) and use (▲) to select [Burst]. You can also change the setting using four-way controller (◄►).
4. Press the OK button to confirm the setting. The indicator is displayed on the monitor screen.
5. Press the shutter release button halfway to lock the focus.
6. Press the shutter release button to capture a sequence of images.

Capture Mode
Burst
OK : OK

NOTE
- In Burst mode, the flash mode will be set to **Flash Off** automatically.

Auto Bracket

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

1. Rotate the mode dial to 🅰, **P** , 👤, ⬌, 🎿, or ✈.
2. Press the power switch to turn on the power.
3. Press the four-way controller (▲/⟳) and use (▲) to select [AEB]. You can also change the setting using the four-way controller (◄►).
4. Press the OK button to confirm the setting.
   The 🅰 indicator is displayed on the LCD monitor screen.
5. Press the shutter release button to capture the three images.

NOTE

• In AEB mode, the flash mode will be set to **Flash Off** automatically.

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**, **👤**, **↔**, **💥**, or **★)**.
3. Press the power switch to turn on the power.
4. Press the four-way controller (▲/⟳) and use (▲) to select your desired self-timer mode. You can also change the setting using four-way controller (◄►).
5. Press the OK button to confirm the setting.
6. Compose your scene and press the shutter release button.
   - The self-timer function is activated.
   - The photograph is then taken after the preset time.
   - To cancel the self-timer at any time, press the four-way controller (▲/⟳) or press the shutter release button halfway. The table below will help you choose the appropriate self-timer mode:

| Self-timer mode	Description
⟳₂ 2 sec. Self-timer	The image is captured about 2 seconds after the shutter is pressed. This mode is useful for preventing camera shake.
⟳₁₀ 10 sec. Self-timer	The image is captured about 10 seconds after the shutter is pressed. This mode is suitable for the shots in which the photographer has to be included.
⟳₁₀₊₂ 10+2 sec. Self-timer	The first image is captured about 10 seconds after the shutter release button is pressed, and then the second image is captured 2 seconds later. This mode is convenient when capturing group images in succession. Flash does not fire in this mode.

NOTE
- 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 (difference between bright and dark areas) between the subject and the background is extremely high. The EV compensation value can be set in the range from -2.0EV to +2.0EV.
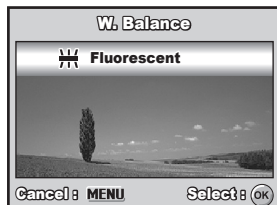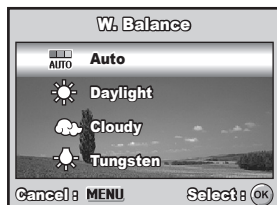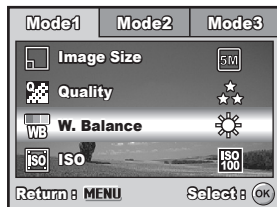
1. Rotate the mode dial to **P**, 👤, 🖼, 🎇, or ⭐).
2. Press the power switch to turn on the power.
3. Press the four-way controller (▼/🔅) and use ◀▶ to set the range of EV compensation value from -2.0EV to +2.0EV.
4. Press the OK button to confirm the setting.

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 📷 , 👤 , 🔄 , 🏃 , or 🌙 .
2. Press the power switch to turn on the power.
3. Press the **MENU** button. [Mode1] is displayed.
4. Use the four-way controller (▼) to select [W. Balance], then press the OK button.
5. Use the four-way controller (▲▼) to select the desired white balance setting, then press the OK button to confirm.
6. To cancel the setting, press the **MENU** button and exit the menu.
7. Press the shutter release button to capture the image.

PLAYBACK MODE - THE BASICS

Viewing Images

You can display the still images one by one.

1. Rotate the mode dial to [A], [P], [👤], [↔],
   [🎇], [★)] or [🎥] and turn your camera on by
   pressing the power switch.
2. Press the [▶] button.
   - The last recorded image appears on
     the LCD monitor screen.
   - Basic information is shown by
     indicators on the LCD monitor screen.
     To see full information display, press
     the OK button.
3. Use the four-way controller (◄►) to select the desired images.
   - To view the previous image, press the four-way controller (◄).
   - To view the next image, press the four-way controller (►).

NOTE

- For protected images/movie clips, [0￢] mark will be displayed. Refer to the section
  in this manual titled **"Protecting Images/Movie Clips"** for further details.
- For images selected for printing with DPOF setting, [🖨] mark will be displayed.
  (Refer to the section in this manual titled **"Setting the DPOF"** for further details.)
- If there is no image stored in the internal memory or on the SD/SDHC memory
  card, [No image] message will appear on the LCD monitor screen.
- You cannot enter the Playback mode from the Setup mode.

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 ▶ button.
   - The last recorded image appears on the LCD monitor screen.
   - To view the previous image, press the four-way controller (◀).
   - To view the next image, press the four-way controller (▶).
2. Adjust the zoom ratio by using the ♣♣♣/ ♣ 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 screen.
3. To view different portions of the images, press the four-way controller (▲▼◀▶) to adjust the display area.


NOTE

- The magnification factors range from 1.5X to 4X (within 6 stages: 1.5X, 2.0X, 2.5X, 3.0X, 3.5X and 4.0X).

Thumbnail Display

This function allows you to view 9 thumbnail images on the LCD monitor screen simultaneously so you may search for a particular image.
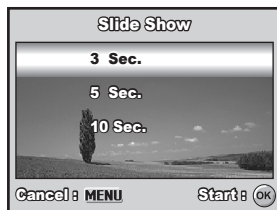
1. Press the ▶ button.
   - The last recorded image appears on the LCD monitor screen.
2. Press the ♠♠♠ button once.
   - Nine thumbnail images are displayed simultaneously.
   - For recorded movie clips, the 🎥 movie mode icon will be displayed.
   - For protected images/movie clips, 0┐ mark will be displayed. (Refer to the section in this manual titled **"Protecting Images/Movie Clips"** for further details.)
3. Use the four-way controller (▲▼◄►) to move the cursor to select the image to be displayed at regular size.
4. Press the OK or ♠ /⊕ button to display the selected image on full screen.

Slideshow Display

The slideshow 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 ▶ button.
   - The last recorded image appears on the LCD monitor screen.
2. Press the **MENU** button to access the Playback menu. Then use the four-way controller (▼) to select [Slide Show] and press the OK button.

3. Use the four-way controller (▲▼) to set the playback interval, then press the OK button.
   - The slideshow starts.
   - The movie clips display the first frame image, and the movie is not played back.
   - To stop slideshow, press the OK button.

Playback1	Playback2
△ Slide Show	
0ㄱ Protect	
DPOF DPOF	
Return : **MENU**	Select : OK

| Slide Show	
3 Sec.	
5 Sec.	
10 Sec.	
Cancel : **MENU**	Start : OK

> **NOTE**
> • You can adjust the slideshow 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: 2048 x 1536 pixel, 1280 x 960 pixel and 640 x 480 pixel.

1. Press the ▶ button.
   - The last recorded image appears on the LCD monitor screen.
2. In the ▶ mode, use the four-way controller (◀▶) to select the desired images.
   - To view the previous image, press the four-way controller (◀).
   - To view the next image, press the four-way controller (▶).

Playback1	Playback2
Resize	
Quality Change	
Copy To Card	
Return : **MENU**	Select : OK

3. Press the **MENU** button to access the Playback menu. Press the four-way controller (▶) to select [Playback2] and press (▼) to select [Resize] and press the OK button.
4. Use the four-way controller (▲▼) to select the desired setting, then press the OK button to confirm.

Resize
3M 2048 X 1536
1.2 M 1280 X 960
0.3 M 640 X 480
Cancel : **MENU** Select : OK
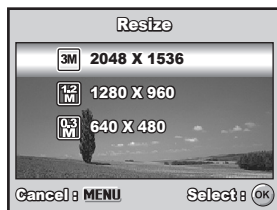
NOTE

- You can only choose a smaller size image; you cannot increase the resolution of an image.
- Movie cannot be resized.

EN-39

MOVIE MODE

Recording Movie Clips

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

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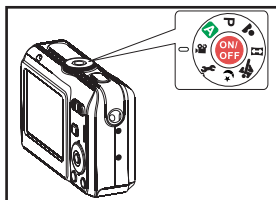
NOTE

- The optical zoom function (3X) can be activated before you start recording the movie clips
- The digital zoom function can be activated before and during the recording.
- Pressing the OK button switches the LCD monitor screen display mode. Each time you press the OK button, the display changes in the following order: Normal Display → No Icons → LCD Off.

Playing Back Movie Clips

You can play back the recorded movie clips on the LCD monitor screen. However, the sound recorded with movie clips can only be played back on a computer.

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

NOTE

- The index number, date and time indicators displayed on the LCD monitor screen will disappear after a few seconds.
- The zoom function cannot be activated when playing back movie clips.
- To playback the movie clips on the computer, we recommend you to use Windows Media Player 9.0 or later (WMP 9.0 or later). You can download WMP version from the website at www.microsoft.com.

PLAYBACK MODE - ADVANCED FEATURES

Deleting Images/Movie Clips

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

1. Rotate the mode dial to ⒶA, P, 👤, ⬄, 🎇, ☽ or 🎥 and turn your camera on by pressing the power switch.
2. Press the ▶ button.
   - The last recorded image/movie clip appears on the LCD monitor screen.
3. Use the four-way controller (◀▶) to select the image/movie clip you want to delete.
4. Press the 🗑 button to delete.
5. Use the four-way controller (▲▼) to select [This Image] or [All Images] by your preference, then press the OK button.
6. When the delete message appears, use the four-way controller (▲▼) to select [Yes], then press the OK button to confirm the deletion.
   - If you wish to cancel the deletion, select [No].

> ⓘ **NOTE**
> - Protected images cannot be deleted with the delete function.

Protecting Images/Movie Clips

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

1. Press the ▶ button.
   - The last recorded image appears on the LCD monitor screen.
2. In the ▶ mode, use the four-way controller (◄►) to select the desired images.
   - To view the previous image, press the four-way controller (◄).
   - To view the next image, press the four-way controller (►).
3. Press the **MENU** button, then use the four-way controller(▼) to select [Protect] and press the OK button.
4. Use the four-way controller (▲▼) to choose the desired setting, then press the OK button.
   - [Protect One]: Protect the displayed image/movie.
   - [Protect All]: Protect all images/movies.
5. Use the four-way controller (▲▼) to select [Lock], then press the OK button to confirm.
   - Press the **MENU** button to return to the ▶ mode. The 0⊓ indicator appears on the selected image.
   - If you wish to cancel the protect function of a protected image, select [Unlock].

Playback1	Playback2
Slide Show	
0⊓ Protect	
DPOF DPOF	

Return : MENU   Select : OK

Protect

Protect One

Protect All

Cancel : MENU   Select : OK

Protect One

Lock

Unlock

Cancel : MENU   Select : OK

Setting the DPOF

DPOF (Digital Print Order Format) allows you to embed printing information on your SD/SDHC 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 SD/SDHC memory card to a DPOF enabled printer that accepts SD/SDHC memory cards. The DPOF/card-compatible printer will read the embedded information on the SD/SDHC memory card and print your images as specified.

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

1. Press the ▶ button, then use the four-way controller (◀▶) to select the desired image you want to print.

2. Press the **MENU** button. Use the four-way controller (▲▼) to select [DPOF], then press the OK button.

3. Use the four-way controller (▲▼) to select by your preference, then press the OK button.
   [One Image]: To configure print settings for a single image.
   [All Images]: To configure print settings for all images.
   [Reset All]: Resets all DPOF settings.

4. Use the four-way controller (▲▼) to select by your preference, then press the OK button.

   [Quantity]: Allows you to select image quantity (0~10). Use the four-way controller (◀▶) to set the image quantity.

   [Date]: The date of recording can be printed directly on the images. Select [With] or [Without] with the four-way controller (◀▶).

5. Press the **MENU** button to return to the image playback mode.

   ■ The print icon 🖶 is marked on the displayed image.

   ■ To cancel the DPOF settings for a single image, go back to step 3 to select [One Image] and select 0 in [Quantity] in the next step. For resetting all the DPOF settings, go back to step 3 to select [Reset All].
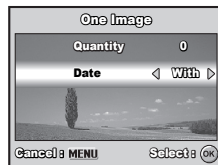
NOTE

• Before you perform the DPOF settings on your camera, always remember to copy your images from the internal memory to an SD/SDHC memory card first.
• The 🖶 print icon will appear on the LCD monitor screen indicating images selected for printing.
• You cannot print movies.
• Depending on the printer or printing equipment at the photo processing lab., the date may not be imprinted on the pictures even if the DPOF settings are made.

TRANSFERRING RECORDED IMAGES AND VIDEOS TO YOUR COMPUTER

System Requirements (Windows)
- Pentium III 600 MHz or higher
- Windows 2000/XP/Vista
- 64MB RAM
- 128MB hard disk space
- CD-ROM drive
- Available USB port

System Requirements (Macintosh)
- PowerPC G3/G4
- OS 9.0 or later
- 64MB RAM
- 128MB hard disk space
- CD-ROM drive
- Available USB port

Connect the digital camera to your computer

1. Rotate the mode dial to 🔧 and turn your camera on by pressing the power switch.
2. Press the four-way controller (▶) to select the [Set-up2] menu, then use the four-way controller (▼) to select [USB Mode].
3. Press the OK button.
4. Use the four-way controller (▼) to select [PC], then press the OK button.
5. Turn off your camera.
6. Connect your camera and the computer via the supplied USB cable.
7. Turn your camera on by pressing the power switch.
8. There will be a new "Removable Disk" icon detected in "My Computer", which contains your recorded images or movie clips. (For Mac users, double-click [untitled] or [unlabeled] disk drive icon on our desktop.)

PC/Video terminal
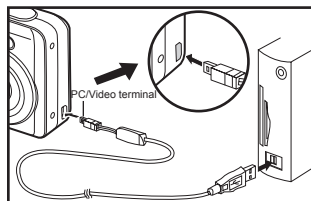
Download images or movie clips

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.

NOTE
- 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 "**Photo Explorer 8.0**". Follow the on-screen instructions to complete the installation.


NOTE

- 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 Mac.
- Photo Explorer is not supported on Windows Vista.

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 "**Photo Express 5.0**". Follow the on-screen instructions to complete the installation.

NOTE
- 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 Mac.
- Photo Express is not supported on Windows Vista.

Installing Cool 360

Ulead® COOL 360™ quickly and easily allows photo editing consumers to transform a series of photos into 360° or wide-angle panoramic scenes for an immersive viewing experience. COOL 360's intuitive interface and easy-to-use wizard deliver great-looking panoramas fast while advanced warping, blending and alignment tools ensure excellent results. Share finished panoramas via email, create Web pages or insert them into documents and presentations.

1. Insert the enclosed CD-ROM into your CD-ROM drive.
2. When the welcome screen appears, click "**Cool 360**". Follow the on-screen instructions to complete the installation.

NOTE

- For more information about the operation of Cool 360 application software, refer to its respective help documentation.
- For Windows 2000/XP users, please make sure to install and use the Cool 360 in "Administrator" mode.
- Cool 360 is not supported on Mac.
- Cool 360 is not supported on Windows Vista.

MENU OPTIONS

Camera Menu

This menu is for the basic settings to be used when capturing still images.
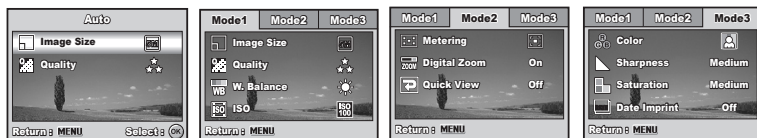
1. Rotate the mode dial to , **P** , , , , or and turn your camera on.
2. Press the **MENU** button, then use the four-way controller (◀▶) to select the [Mode1] / [Mode2] / [Mode3] menu.
   - In Mode, press the **MENU** button to access the [Auto] menu directly.
3. Use the four-way controller (▲▼) to select the option item, then press the OK button.
4. Press the four-way controller (▲▼) to select the desired setting, then press the OK button.

- In the Mode

Item	Functional Description
Image Size 	Sets the size of the image that will be captured. Refer to the section in this manual titled **"Setting Image Resolution and Quality"** for further details. 5M 2560x1920 3M 2048x1536 1.2M 1280x960 0.3M 640x480
Quality 	Sets the quality (compression rate) at which the image is captured. Refer to the section in this manual titled **"Setting Image Resolution and Quality"** for further details. ★★ Fine ★★ Normal ★ Economy

■ In the P , 👤 , ▭ , 🏃 , or ✹ Mode.
■ **Mode1 settings**

Item	Functional Description
Image Size 🔲	Refer to the section in this manual titled **"Setting Image Resolution and Quality"** for further details.
Quality ▨	Refer to the section in this manual titled **"Setting Image Resolution and Quality"** for further details.
W.Balance WB	Sets the white balance when shooting under a variety of lighting conditions and permits photographs to be taken that approach the conditions that are seen by the human eye. Auto Auto ☀ Daylight ☁ Cloudy 💡 Tungsten ☳ Fluorescent
ISO 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 pixelated (grainier) the image will appear. Auto / 64 / 100 / 200 / 400

■ **Mode2 settings**

Item	Functional Description
Metering ⊡	You can select the metering mode that sets which part of the subject to measure to determine the exposure. ⊡ Center-weighted: Averages the light metered from the entire frame, but gives greater weight to the subject matter in the center. □ Spot: The exposure is determined by the small area in the center of the screen only.
Digital Zoom ZOOM	This sets whether or not to use digital zoom at the time of shooting. Refer to the section in this manual titled "**Using the Zoom Function**" for further details.
Quick View ⏎	Set to display a photographed image on LCD monitor screen immediately after you have taken the shot.

■ **Mode3 settings**

Item	Functional Description
Color	Sets the color of the image that will be captured. Full Color Black & White Sepia
Sharpness	Sets the level of image sharpness. High Medium Low
Saturation	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". High Medium Low
Date Imprint	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.

Movie Menu

This menu is for the basic settings to be used when recording movie clips.
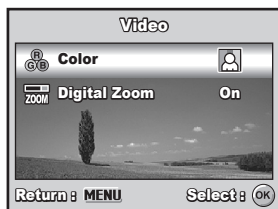
1. Rotate the mode dial to 🎥 and turn your camera on.
2. Press the **MENU** button.
3. Press the four-way controller (▲▼) to select the option item. Then press the OK button
4. Press the four-way controller (▲▼) to select the desired setting, then press the OK button.
5. To exit the movie menu, press the **MENU** button.

Item	Functional Description
Color ⓇⒼⒷ	Refer to the Camera Menu's option item (the P , 👤, ▣, 🏃, or ★) Mode) for further details.
Digital Zoom ZOOM	Refer to the Camera Menu's option item (the P , 👤, ▣, 🏃, or ★) Mode) for further details.

Playback Menu

In the ▶ menu, set the settings used for playback.

Playback1	Playback2
⟨⟨ Slide Show	
0ᴛ Protect	
DPOF DPOF	
Return : MENU	Select : OK

Playback1	Playback2
⬜ Resize	
▦ Quality Change	
📷 Copy To Card	
Return : MENU	Select : OK

1. Press the ▶ button.
   ■ The last recorded image appears on the LCD monitor screen.
2. Press the **MENU** button, then use the four-way controller (▲▼) to select the [Playback1] / [Playback2] menu.
3. Use the four-way controller (▲▼) to select the option item, then press the OK button.
4. Press the four-way controller (▲▼) to select the desired setting, then press the OK button.
5. To exit the playback menu, press the **MENU** button.

■ **Playback1**

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. 3 Sec. / 5 Sec. / 10 Sec.
Protect 0ᴛ	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 DPOF	Allows you to select the desired pictures to be printed and set the number of prints and whether or not to imprint the data in DPOF format. You can print images easily just by inserting the SD/SDHC 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**

Item	Functional Description
Resize	Changes the size of a recorded image. Resizing replaces the original image with the changed image. Only resizing to a smaller size is available. Refer to the section in this manual titled **"Resizing an Image"** for further details 3M 2048x1536 1.2M 1280x960 0.3M 640x480
Quality Change	Changes the quality (compression rate) of a recorded image. Compresses images and overwrites an old size images with a newly compressed image. Only quality changing to a lower quality level is available. ★ Normal ★ Economy
Copy to Card	Allows you to copy your files from the digital camera's internal memory to an SD/SDHC memory card. You can only do this if you have an SD/SDHC memory card installed and some files in internal memory.

Setup Menu

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

Set-up1	Set-up2	Set-up3
Format		
Beeper		Louder
Date & Time		m/d/y
Language		English
		Select : OK

Set-up1	Set-up2	Set-up3
USB Mode		PC
LCD Brightness		
Auto Shut Down		3 Min.
		Select : OK

Set-up1	Set-up2	Set-up3
Reset Number		
Set To Default		
Version		
		Select : OK
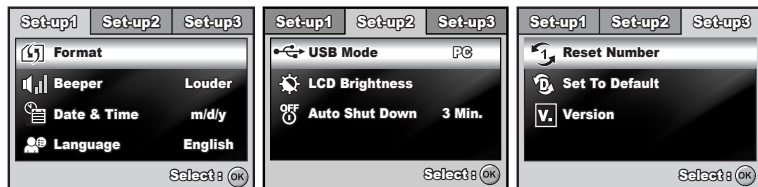
1. Rotate the mode dial to 🔧 mode and turn your camera on.
2. Press the four-way controller (◄►) to select the [Set-up1] / [Set-up2] / [Set-up3] menu.
3. Use the four-way controller (▲▼) to select the desired option item, then press the OK button.
4. To exit the setup menu, rotate the mode dial to another mode.

■ **Set-up1 settings**

Item	Functional Description
Format	Erases all images and reformats the SD/SDHC memory card loaded in your camera. Protected images are also erased. SD/SDHC memory card cannot be formatted if it is write-protected. Refer to the section in this manual titled **"Formatting an SD/SDHC Memory Card or Internal Memory"** for further details.
Beeper	This sets whether or not to mute the start-up 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. d/m/y m/d/y y/m/d
Language	Sets the language that is displayed on the LCD monitor screen. Refer to the section in this manual titled **"Choosing the Screen Language"** for further details.

■ **Set-up2 settings**

Item	Functional Description
USB Mode	Selects to choose one of the following modes for further settings. PC / PictBridge
LCD Brightness	This sets the brightness of the LCD monitor screen. 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/SDHC memory card.
Set to Default	Returns all basic settings to the digital camera's default settings. The time setting will not be reset.
Version	This displays the current firmware version of the camera.

SPECIFICATIONS

Item	Description
Image Sensor	CCD
Effective pixels	5.0 Mega pixels
Image size	Still image: 2560 x 1920, 2048 x 1536, 1280 x 960, 640 x 480 Movie clip: 320 x 240
Image quality	Still image: Fine / Normal / Economy Movie image: QVGA
Recording media	Approx. 16MB internal memory SD/SDHC memory card (Optional, up to 4GB)
File format	JPEG (Exif 2.2), DCF, Motion JPEG (AVI)
Lens	F-no.: Wide: 2.8 / Tele: 4.8 Focal length: 5.5mm~16.5mm (equivalent to 34~102mm)
Focus range	Normal :40cm (15.7") ~ infinity Macro : Wide: 6cm (2.4") ~ infinity Tele: 35cm (13.8") ~ infinity
Flash effective range	Wide: Approx. 0.6 m - Approx.3.0 m Tele: Approx. 0.6 m - Approx. 2.1 m
LCD monitor	2.4" color TFT-LCD Approx. 112K pixels display
Self-timer	10 sec self-timer, 2 sec self-timer, 10+2 sec self-timer
Exposure compensation	-2.0EV~ +2.0EV (in 1/3 EV increments)
White balance	Auto, Daylight, Cloudy, Tungsten, Fluorescent
ISO	Auto, 64, 100, 200, 400
Interface	PC/Video terminal
Power	2 x AA (Ni-MH rechargeable or alkaline) batteries
Dimension	Approx. 85 x 60 x 28 mm
Weight	Approx. 128g (without batteries & SD/SDHC card)

∗ Recording capacity shows approximate number of shots recorded during CIPA-compliant testing. Actual performance may vary according to operating conditions.

∗ Design and specifications are subject to change without notice.

TROUBLESHOOTING GUIDE

Symptom	Possible causes	Solutions / Corrective Actions
Power does not turn on.	* The battery has run out. * The battery is not oriented correctly. * The battery cover is not closed properly.	* Load new or fully charged battery. * Load the battery in the correct direction. * Close the battery cover correctly.
Camera suddenly powers down.	* The function of [Auto Shut Down] in the 🔧 mode has been activated. * The battery has run out.	* Turn the power back on and set the option of [Auto Shut Down] to [Off]. * Load new or fully charged battery.
Image is not captured when the shutter release button is pressed.	* The camera is in the ▶ or 🔧 mode. * Memory is full.	* Rotate the mode dial to A, P, 👤, 🖼, �â'¡, 🌙 or 🎥. * Transfer the desired files to your computer and then delete unnecessary files, or use a different memory card.
Flash does not fire.	* Flash off is selected in flash mode. * 10+2 sec. Self-timer is selected in self-timer mode. * The [Capture Mode] is set to [Burst] or [AEB]. * The camera is in the 🎥 (video) mode.	* Select a different flash mode. * Select [Single] in the [Capture Mode]. * Switch the mode dial to another mode.
Continuous shooting is not possible.	* The capacity of the built-in memory or SD/SDHC memory card is full.	* Insert SD/SDHC memory card with available space or delete unwanted images.
Cannot transfer files over a USB connection.	* USB cable is not connected securely. * USB driver is not installed. * Camera is turned off.	* Check all connections. * Install the USB driver on your computer. * Turn on the camera.

POSSIBLE NUMBER OF RECORDABLE IMAGES

The frame counter indicates the approximate number of images that can be stored on the internal memory and the SD/SDHC memory card. The number of recordable images may vary depending on the recorded subject, the capacity of the memory card, if there are files other than images or when the recording is made while switching the picture quality or resolution.

Resolution	Quality		Internal Memory	SD/SDHC Memory Card						
				64 MB	128 MB	256 MB	512 MB	1GB	2 GB	4 GB (SDHC)
2560 x 1920 [5M]	⋰	Fine	5	27	56	114	230	461	923	1826
	⋱	Normal	7	35	71	143	289	579	1160	2295
	★	Economy	9	44	89	180	361	742	1451	2869
2048 x 1536 [3M]	⋰	Fine	10	45	92	186	375	751	1504	2976
	⋱	Normal	12	57	116	233	469	939	1881	3720
	★	Economy	15	68	139	280	562	1127	2257	4464
1280 x 960 [1.2M]	⋰	Fine	23	103	209	420	844	1691	3386	6697
	⋱	Normal	26	119	241	485	974	1952	3907	7727
	★	Economy	27	124	251	505	1013	2030	4064	8036
640 x 480 [0.3M]	⋰	Fine	33	147	299	601	1206	2417	4838	9567
	⋱	Normal	46	207	419	842	1689	3384	6773	13394
	★	Economy	58	259	523	1052	2112	4230	8467	16743

■ The above data shows the standard testing results. The actual capacity varies according to the shooting conditions and settings.

■ **Approximate Duration of Recording Time**
The table below indicates the approximate duration of recording time depending on the capacity of the internal memory and the SD/SDHC memory card.

Image size	Internal Memory	SD/SDHC Memory Card						
		64MB	128MB	256MB	512MB	1GB	2GB	4GB (SDHC)
320 x 240	00:00:32	00:02:23	00:04:49	00:09:41	00:19:25	00:38:54	01:17:52	02:33:59

■ The values for the recording time may vary depending on the shooting conditions and settings.
■ The frame rate is 30 fps (frames per second).

CONNECTING TO A PICTBRIDGE-COMPATIBLE PRINTER

Even if you do not have a computer, you can connect the camera directly to a printer that supports PictBridge to perform image selection and printing using the camera screen and controls. DPOF support also lets you specify which images you want to print and how many copies of each should be printed.

Connecting the camera to the printer

1. Rotate the mode dial to ✎ and turn your camera on by pressing the power switch.
2. Press the four-way controller (▶) to select the [Set-up2] menu, then use the four-way controller (▼) to select [USB Mode]. Press the OK button.
3. Use the four-way controller (▲▼) to select [PictBridge], then press the OK button.
4. Connect your camera and the printer via a supplied USB cable.
   ■ The message "One moment" will appear on the LCD monitor screen.

Printing images

When the camera is properly connected to a PictBridge-compatible printer, the [Printing Mode Select] screen is displayed on the LCD monitor screen. Use the four-way controller (▲▼) to select the print mode.

■ **In [Print] Mode:** Lets you print the specified image with PictBridge.

Step	Figure	Procedure
1	Printing Mode Select / Print / Print All / Print With DPOF / OK : OK	Use the four-way controller (▲▼) to select the [Print] mode, then press the OK button.
2	100-0008 / Select : ◀ ▶ Print : OK / Cancel : MENU Set : ▼	Use the four-way controller (◀▶) to select the image you want to print, then press the four-way controller (▼) to set more detailed settings.
3	Print Info / Quantity ◀ 10 ▶ / Date With / File Name With / Cancel : MENU Select : OK	Use the four-way controller (▲▼) to select by your preference, then press the OK button. [Quantity]: Specifies the number of prints. You can select the number up to 10. [Date]: If you select [With], images are printed with the date. [File Name]: If you select [With], images are printed with the file name.
4	100-0008 / Select : ◀ ▶ Print : OK / Cancel : MENU Set : ▼	After Print Setting is set, the print icon 🖶 is marked on the displayed image. You can still use the four-way controller (◀▶) to change the image by your preference, then press the OK button to print.
5	Print Paper / Size ◀ Standard ▶ / Borderless Standard / Total 3 / Cancel : MENU OK : OK	Use the four-way controller (▲▼) to access the paper selection setting, then press the OK button to confirm. [Size]: You may select the desired item depending on the type of printer being used. [Borderless]: You may select the desired item depending on the type of printer being used.

Step	Figure	Procedure
6		This starts printing and displays the message "Transferring" on the LCD monitor screen.The message will disappear after the printing is finished. Then the screen returns to [Printing Mode Select]. ■ To cancel printing: Pressing the OK button during print data transfer displays the screen for selecting whether to [Continue] or [Cancel] printing.

■ **In [Print All] Mode:** Lets you print all images with PictBridge.

Step	Figure	Procedure
1		If you wish to print all the images stored in the camera, you may choose [Print All] in [Printing Mode Select].
2		To set Print Settings, follow steps 2 to 6 in [Print] Mode.

■ **In [Print With DPOF] Mode:** This function only lets you print the specified image based on the previous DPOF settings.

Step	Figure	Procedure
1		If you wish to print images with DPOF setting, you may choose [Print With DPOF] in [Printing Mode Select].
2		To set Print Settings, follow steps 2 to 6 in [Print] Mode.

NOTE

• When connecting a printer which is not compatible with DPOF, [Print With DPOF] cannot be selected.