# 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 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.**
Continued use in this condition 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 condition 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 their 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:** Handling the USB cable on this product may expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm. ***Wash hands after handling***.

## Notes on Battery Usage

- Do not use batteries other than those specified for use with your ViviCam 5150s. Use of unsuitable batteries may result in the batteries splitting, or leaking and may cause a fire, injury, or soiling of the battery compartment.
- When placing the batteries into the ViviCam 5150s, check the polarity markings on the batteries (- and +) to ensure that the batteries are inserted correctly. Incorrect battery polarity will result in ViviCam inoperability and may result in the batteries splitting or leaking and causing a fire, injury, or soiling of the battery compartment.
- Remove the batteries if the ViviCam 5150s will not be used for an extended period of time. The batteries may leak and cause a fire, injury or soiling of the battery compartment. If the batteries leak, clean and wipe the battery compartment carefully and install new batteries. Wash your hands carefully if you touch the battery fluid.

**When using batteries, carefully read and strictly observe the Safety Instructions and the notes described below:**

- Ni-MH rechargeable batteries are highly recommended. To maximize performance and lifetime, we recommend that you fully charge the batteries and discharge them for at least one complete cycle before use.
- Avoid using batteries in extremely cold environments as low temperatures can shorten the battery life and reduce ViviCam 5150s's performance. Low temperature will adversely affect alkaline battery performance.
- Using new rechargeable batteries or rechargeable batteries that have not been used for an extended period of time will affect the number of images that can be captured.
- If you will not be using the batteries for an extended period of time, remove them from the ViviCam 5150s to prevent leakage or corrosion.
- Never use batteries of different types (together) or mix old and new batteries. Never use manganese batteries.
- More information about batteries is provided in this manual in subsequent sections.

# CONTENTS

# INTRODUCTION

Thank you for purchasing the new ViviCam 5150s!
Equipped with a 5.0 Megapixels CCD sensor, your camera delivers good 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 good quality of images.

■ **Auto flash**

An auto flash sensor automatically detects the shooting (lighting) conditions and determines whether the flash should be used.

■ **2.0" LTPS color image LCD monitor**

■ **Digital zoom: 1x~4x**

■ **16MB internal (built-in) memory (14MB available for image storage)**

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.

■ **USB connection (USB 2.0 compliant)**

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).

■ **PictBridge support**

You can connect the ViviCam 5350s directly to a printer that supports PictBridge and perform image selection and printing using the ViviCam 5350s monitor screen and controls.

■ **Scene mode**

You may select a previously set recording mode for the following situations:

Auto, Sport, Night, Portrait, Landscape and Backlight.

■ **Provided editing software: Photo Explorer / Photo Express**

You can enhance and retouch your images on your computer by using the provided editing software.

## 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:**

- ViviCam 5150s Digital Camera
- Camera Strap
- Camera Pouch
- User's Manual
- USB Cable
- Software CD-ROM

**Common (Optional) Accessories:**

- SD memory card
- 2 x AA Alkaline batteries

**NOTE**

- The product and accessories that come with your ViviCam 5150s 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 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.

# GETTING TO KNOW YOUR VIVICAM 5150s

## Front View
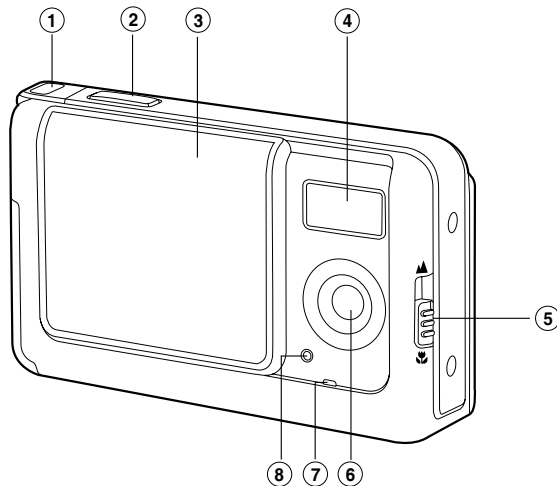


1. Strap holder
2. Shutter button
3. Lens cover
4. Flash
5. Focus switch

    🌷    Macro mode

    ▲    Normal mode

6. Lens
7. Microphone
8. Self-timer indicator

## Rear View

1. Status LED

2. LCD monitor

3. ◀ Arrow button (Left)
   ⏱ Self-timer button

4. ▼ Arrow button (Down)
   MODE button

5. ▲ Arrow button (Up)
   MENU button

6. ▶ Arrow button (Right)
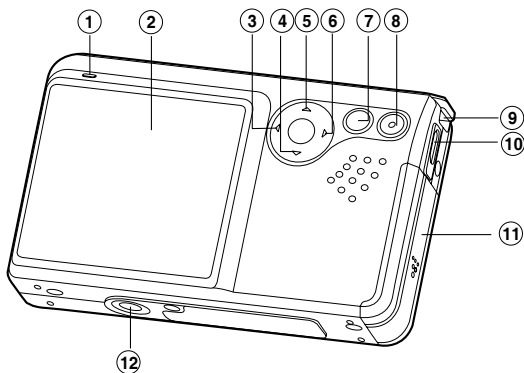   ⚡ Flash button

7. **OK** OK button
   ⚲ Digital Zoom button

8. ▶ Playback button
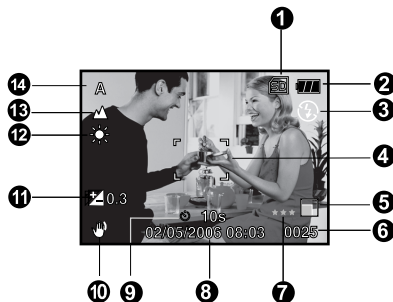
9. Strap holder

10. PC (USB) terminal

11. Battery / SD card cover

12. Tripod socket

# LCD Monitor Information

■ **Camera Mode**



1. Internal memory/SD memory card indicator
   [ 🗀 ] Status of internal memory
   [ 🗀 ] Status of SD memory card
2. Remaining battery status
   [ 🔋 ] Full battery power
   [ 🔋 ] Medium battery power
   [ 🔋 ] Low battery power
   [ 🔋 ] No battery power
3. Flash mode
   [Blank] Auto
   [ ⊚⚡ ] Red-eye Reduction
   [ ⚡ ] Forced Flash
   [ ⚡ ] Flash Off
4. Focus area
5. Image size
   [ ▢ ] 2560 x 1920
   [ ▢ ] 2048 x 1536
   [ ▢ ] 1280 x 960
   [ ▢ ] 640 x 480

6. Possible number of shots
7. Quality
   [ ★★★ ] Fine
   [ ★★ ] Standard
   [ ★ ] Economy
8. Date and time
9. Self-timer icon
   [ ⟳ 10s]10 sec.
   [ ⟳ 2s ] 2 sec.
   [ ⟳ 10+2s ] 10+2 sec.
10. Unsteady hold warning icon
11. [ 🞢 ] Exposure compensation

12. White balance
    [Blank] Auto
    [ ☀ ] Daylight
    [ ☁ ] Cloudy
    [ 💡 ] Tungsten
    [ ※ ] Fluorescent
13. Focus mode
    [ ♣ ] Macro
    [ ▲ ] Infinity
14. Scene mode
    [A]   Auto
    [🏃]   Sport
    [🌙]   Night
    [👤]   Portrait
    [▲]   Landscape
    [👤]   Backlight

### ■ Video Mode

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

### ■ 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. Total of recorded time
4. SD memory card indicator (if present)
5. Battery power indicator
6. Playback indicator
7. Playback information

# PREPARING THE VIVICAM 5150s

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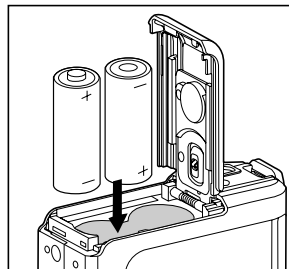
■ Be careful not to drop the batteries when opening or closing the battery cover.

**NOTE**

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

The digital camera comes with 16MB of internal memory (14MB available for image storage), 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.
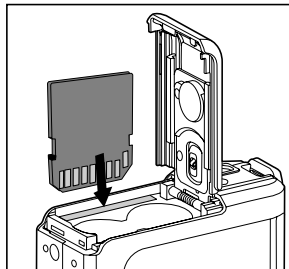
| NOTE | - Be sure to format an SD memory card with this digital camera before using it. Refer to section in the manual titled **"Formatting an SD Memory Card or Internal Memory"** for further details. |
|------|------|
|      | - To prevent valuable data from being accidentally erased from an SD card, 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. |

LOCK    LOCK

Write-protect tab    Write-protection state
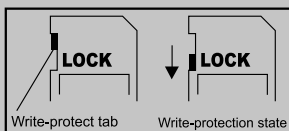
## Attaching the Camera Strap

Attach the strap as shown in the illustration.
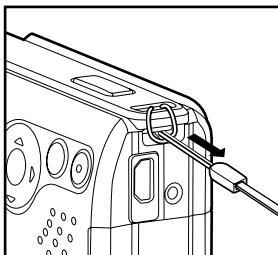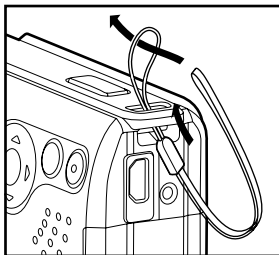


## LED Indicators

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

# GETTING STARTED

## Turning the Power On/Off

Load the batteries and insert an SD memory card before starting.

- To turn the camera on, slide the lens cover open until it clicks, uncovering the lens.
- To turn the camera off, slide the lens cover closed until it clicks, covering the lens.
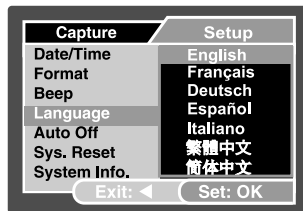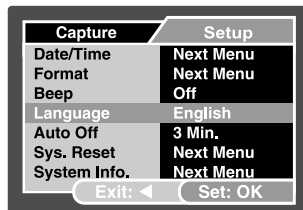




---
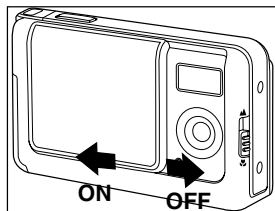
**NOTE**

- The power is turned off automatically when the camera has not been operated for a fixed period time. To resume the operation condition, turn the power on again. Refer to section in this manual titled "Auto Off" in the Setup Menu for further details.

## Choosing the Screen Language

Follow the steps below to choose the desired language.

1. Slide the lens cover open until it clicks to turn on the camera.
   - The camera mode (default preview) is displayed.
2. Press ▲ / **MENU** and access in setup menu with the ▶ button.
   - You may also toggle the ▼ / **MODE** button and switch to [ 🎥 ] mode or press the [ ▶ ] button, then follow the step above to access in setup menu.
3. Select [Language] with the ▲ / ▼ buttons, then press the **OK** button.
   - The Language setting screen will be displayed.
4. Select the displayed language with the ▲ / ▼ buttons, then press the **OK** button.
   - The setting will be stored.
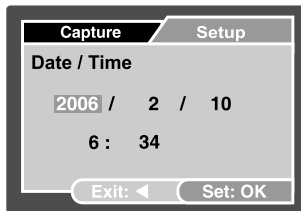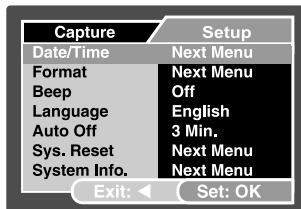5. To exit from the menu, press the ◀ button twice.

| Capture | Setup |
|---|---|
| Date/Time | Next Menu |
| Format | Next Menu |
| Beep | Off |
| **Language** | **English** |
| Auto Off | 3 Min. |
| Sys. Reset | Next Menu |
| System Info. | Next Menu |
| Exit: ◀ | Set: OK |

| Capture | Setup |
|---|---|
| Date/Time | **English** |
| Format | **Français** |
| Beep | **Deutsch** |
| **Language** | **Español** |
| Auto Off | **Italiano** |
| Sys. Reset | **繁體中文** |
| System Info. | **简体中文** |
| Exit: ◀ | Set: OK |

**Ex.: In Camera Mode**

## Setting the Date and Time

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

1. Slide the lens cover open until it clicks to turn on the camera.
   - The camera mode (default preview) is displayed.
2. Press ▲ **/ MENU** and access in setup menu with the ▶ button.
   - You may also toggle the ▼ / **MODE** button and switch to [ 📹 ] mode or press the [ ▶ ] button, then follow the step above to access in setup menu.
3. Select [Date/Time] with the ▲ / ▼ buttons, then press the **OK** button.
   - The Date/Time setting screen will be displayed.
4. Select the item's field with the ◀ / ▶ buttons and adjust the value for the date and time with the ▲ / ▼ buttons.
   - The date and time is set in the order year-month-day-hour-minute.
   - The time is displayed in 24-hours format.
5. After confirming all settings are correct, press the **OK** button.
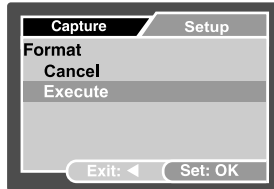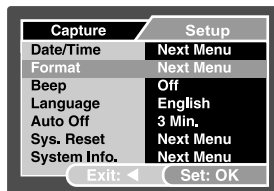6. To exit from the menu, press the ◀ button twice.

| Capture | Setup |
| --- | --- |
| **Date/Time** | **Next Menu** |
| Format | Next Menu |
| Beep | Off |
| Language | English |
| Auto Off | 3 Min. |
| Sys. Reset | Next Menu |
| System Info. | Next Menu |
| Exit: ◀ | Set: OK |

| Capture | Setup |
| --- | --- |
| **Date / Time** | |
| 2006 / 2 / 10 | |
| 6 : 34 | |
| Exit: ◀ | Set: OK |

**Ex.: In Camera Mode**

## 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. Slide the lens cover open until it clicks to turn on the camera.
   ■ The camera mode (default preview) is displayed.
2. Press ▲ / **MENU** and access in setup menu with the ▶ button.
   ■ You may also toggle the ▼ / **MODE** button and switch to [ 📹 ] mode or press the [ ▶ ] button, then follow the step above to access in setup menu.
3. Select [Format] with the ▲ / ▼ buttons, then press the **OK** button.
4. Select [Execute] with the ▲ / ▼ buttons, then press the **OK** button.
   ■ To cancel formatting, select [Cancel] and press the **OK** button.
5. To exit from the menu, press the ◀ button twice.

| Capture | Setup |
|---|---|
| Date/Time | Next Menu |
| Format | Next Menu |
| Beep | Off |
| Language | English |
| Auto Off | 3 Min. |
| Sys. Reset | Next Menu |
| System Info. | Next Menu |
| Exit: ◀ | Set: OK |

| Capture | Setup |
|---|---|
| Format | |
| Cancel | |
| Execute | |
| Exit: ◀ | Set: OK |

**Ex.: In Camera Mode**

> ■ When you format an SD memory card, be aware that all data including protected images 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.
>
> **NOTE**
>
> ■ 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.

# PHOTOGRAPHY MODE

## Shooting Images - The Basics

1. Slide the lens cover open until it clicks to turn on the camera.
   - The camera mode (default preview) is displayed.
2. Compose the image on the monitor screen so that the main subject is within the focus frame.
3. Press the shutter button to capture the image.



**NOTE**

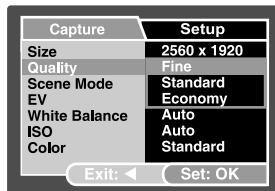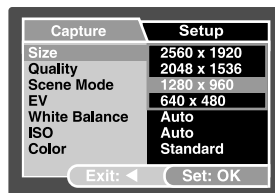- The actual captured image appears to be larger than the one on LCD.

## 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. Slide the lens cover open until it clicks to turn on the camera.
   ■ The camera mode (default preview) is displayed.
2. Press the ▲ / **MENU** button.
   ■ The [Capture] menu is displayed.
3. Select [Size] with the ▲ / ▼ buttons, then press the **OK** button.
4. Select the desired setting with the ▲ / ▼ buttons, then press the **OK** button.
5. Select [Quality] with the ▲ / ▼ buttons, then press the **OK** button.
6. Select the desired setting with the ▲ / ▼ buttons, then press the **OK** button.
7. To exit from the menu, press the ◄ button.

| Capture | Setup |
| --- | --- |
| **Size** | **2560 x 1920** |
| **Quality** | **2048 x 1536** |
| **Scene Mode** | **1280 x 960** |
| **EV** | **640 x 480** |
| **White Balance** | Auto |
| **ISO** | Auto |
| **Color** | Standard |
| Exit: ◄ | Set: OK |

| Capture | Setup |
| --- | --- |
| **Size** | 2560 x 1920 |
| **Quality** | **Fine** |
| **Scene Mode** | **Standard** |
| **EV** | **Economy** |
| **White Balance** | Auto |
| **ISO** | Auto |
| **Color** | Standard |
| Exit: ◄ | Set: 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.

## ■ Possible Number of Recordable Images

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

| Resolution | Quality (Compression Ratio) | SD Memory Card | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 14MB Internal Memory | 32MB | 64MB | 128MB | 256MB | 512MB | 1GB |
| 2560 x 1920 | ❉ Fine (1/4) | 6 | 13 | 34 | 71 | 144 | 288 | 577 |
| | ❅ Standard (1/8) | 10 | 25 | 55 | 117 | 241 | 493 | 932 |
| | ★ Economy (1/16) | 20 | 38 | 108 | 229 | 462 | 919 | 1833 |
| 2048 x1536 | ❉ Fine (1/4) | 9 | 20 | 49 | 106 | 216 | 419 | 812 |
| | ❅ Standard (1/8) | 15 | 40 | 80 | 171 | 349 | 680 | 1362 |
| | ★ Economy (1/16) | 28 | 59 | 153 | 320 | 642 | 1277 | 2517 |
| 1280 x 960 | ❉ Fine (1/4) | 19 | 51 | 104 | 212 | 441 | 861 | 1695 |
| | ❅ Standard (1/8) | 31 | 101 | 165 | 350 | 701 | 1379 | 2755 |
| | ★ Economy (1/16) | 52 | 142 | 288 | 592 | 1187 | 2393 | 4824 |
| 640 x 480 | ❉ Fine (1/4) | 53 | 120 | 268 | 592 | 1189 | 2448 | 5040 |
| | ❅ Standard (1/8) | 74 | 202 | 417 | 855 | 1714 | 3456 | 6968 |
| | ★ Economy (1/16) | 107 | 300 | 624 | 1284 | 2571 | 5184 | 10380 |

\* 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 SD memory card.

| Image size | SD Memory Card | | | | | | |
|---|---|---|---|---|---|---|---|
| | 14MB Internal Memory | 32MB | 64MB | 128MB | 256MB | 512MB | 1GB |
| 320 x 240 | 28" | 1'00" | 1'57" | 3'59" | 8'06" | 16'17" | 32'34" |

\* The values for the recording time may vary depending on the shooting conditions and settings.

## Using the Zoom Function

This camera is equipped with 4x digital zoom. You can enlarge the subjects by pressing continuously the **OK** / Q button. A useful feature as it is, however, the more the image is magnified, the grainer the image may become.

To capture a zoomed image, perform the following steps:

1. Slide the lens cover open until it clicks to turn on the camera.
   - The camera mode (default preview) is displayed.
2. To activate the digital zoom, press the **OK** / Q button.
   - The status of digital magnification is displayed on the LCD monitor.
3. Compose your scene and press the shutter button to capture the image.
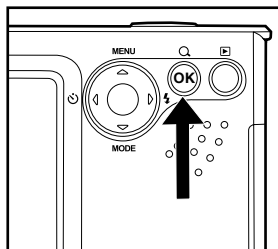
**NOTE**

- 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 by sliding the focus switch to set the focus modes: [🌷] macro or [▲] normal mode.

1. Slide the lens cover open until it clicks to turn on the camera.
   ■ The camera mode (default preview) is displayed.
2. Slide the focus switch to your desired focus mode.
3. Compose your scene and press the shutter button.
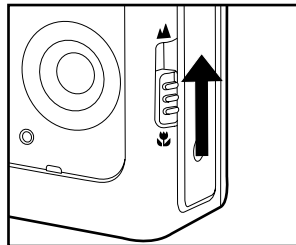
The table below will help you choose the appropriate focus mode:

| Focus mode | Description |
|---|---|
| ▲ Normal | This mode is suitable for scenery and portrait shooting. |
| 🌷 Macro | Select macro to capture close-up images. When the lens is zoomed to its widest position you may focus on objects as close as 60 cm (24 inches). |

## 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. Slide the lens cover open until it clicks to turn on the camera.
   ■ The camera mode (default preview) is displayed.
2. Toggle ▶ / ⚡ until your desired flash mode appears on the LCD monitor.
3. Compose your scene and press the shutter button.
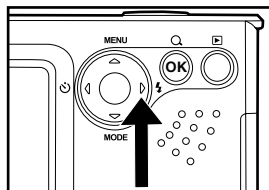
The table below will help you to choose the appropriate flash mode:

| Flash mode | | Description |
|---|---|---|
| | Auto | The flash fires automatically to suit the photographic conditions. |
| ⊙⚡ | Red-eye Reduction | Use this mode to reduce the red-eye effect when you want to take natural-looking photographs of people and animals in low-light conditions. When taking photographs of people, the red-eye effect can be reduced by increasing the room lighting if possible and having your subject not look directly into the camera. The camera's pre-flash and slight delay in this mode will also help to improve your images. |
| ⚡ | 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. |
| ⊘ | Flash Off | Use this mode if flash use is prohibited or if 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. Slide the lens cover open until it clicks to turn on the camera.
   ■ The camera mode (default preview) is displayed.
3. Toggle ◀ / ☉ until your desired self-timer mode appears on the LCD monitor.

```
    ┌──→ OFF ──→ 10s ──→ 2s ──→ 10+2s ─┐
    └──  [ No Indication]  ────────────┘
```
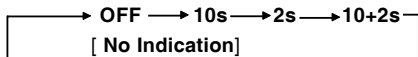
4. Compose your scene and press the shutter button.
   ■ The self-timer function is activated.
   ■ The image is then recorded after the preset time.
   ■ To cancel the self-timer at any time, press the ◀ / ☉ button to disrupt the sequence.
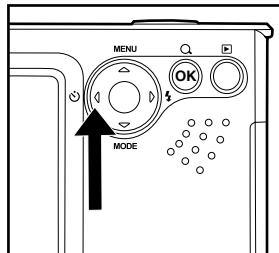
**NOTE**

■ 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 (different between light and dark) between the subject and the background is extremely large. The EV compensation value can be set from –2.0EV to +2.0EV.

1. Slide the lens cover open until it clicks to turn on the camera.
2. Toggle the ▼ / **MODE** button and switch to camera or [ 🎥 ] mode.
3. Press the ▲ / **MENU** button.
   ■ The [Capture] or [Video Output] menu is displayed.
4. Select [EV] with the ▲ / ▼ buttons, then press the **OK** button.
5. Use ▲ or ▼ to set the EV compensation value from -2.0EV to +2.0EV, then press the **OK** button.
6. To exit from the menu, press the ◄ button.

| Capture | Setup |
|---|---|
| Size | 2560 x 1920 |
| Quality | Fine |
| Scene Mode | Auto |
| EV | 0.3 |
| White Balance | Auto |
| ISO | Auto |
| Color | Standard |
| Exit: ◄ | Set: OK |

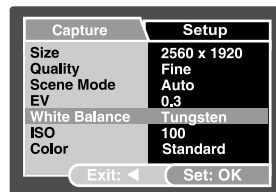| Capture | Setup |
|---|---|
| EV | |
| | 0.3 |
| Exit: ◄ | Set: OK |
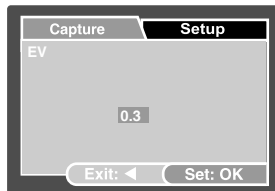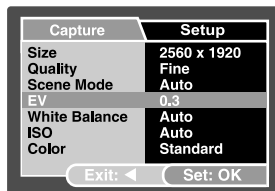
**Ex.: In Camera Mode**

## Setting White Balance

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

1. Slide the lens cover open until it clicks to turn on the camera.
2. Toggle the ▼ / **MODE** button and switch to camera or [ 📷 ] mode.
3. Press the ▲ / **MENU** button.
   - The [Capture] or [Video Output] menu is displayed.
4. Select [White Balance] with the ▲ / ▼ buttons, then press the **OK** button.
5. Select the desired setting with the ▲ / ▼ buttons, then press the **OK** button.
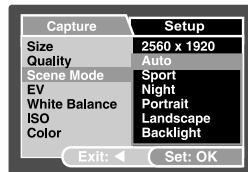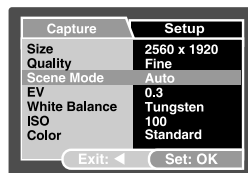6. To exit from the menu, press the ◄ button.

| Capture | Setup |
|---------|-------|
| Size | 2560 x 1920 |
| Quality | Fine |
| Scene Mode | Auto |
| EV | 0.3 |
| White Balance | Tungsten |
| ISO | 100 |
| Color | Standard |
| Exit: ◄ | Set: OK |

| Capture | Setup |
|---------|-------|
| Size | 2560 x 1920 |
| Quality | Fine |
| Scene Mode | Auto |
| EV | Daylight |
| White Balance | Cloudy |
| ISO | Tungsten |
| Color | Fluorescent |
| Exit: ◄ | Set: OK |
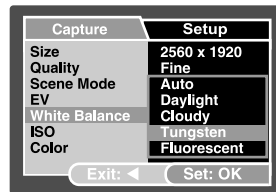
**Ex.: In Camera Mode**

## Scene Mode Selection

You can select the scene mode according to the shooting scene. There are 6 available modes in this scene mode.

[ **A** ]  Auto:  Select this mode to adjust point-and-shoot action.

[ 🏃 ] Sport:  Select this mode when you want to photograph fast-moving subjects.

[ 🌙 ] Night:  Select this mode when you want to capture people with an evening or night scene background.

[ 📷 ] Portrait:  Select this mode when you want to capture an image that makes the person stand out against an out of focus (blurred) background.

[ 🏔 ] Landscape: Select this mode to capture an image with infinity focus, hard sharpness and high saturation.

[ 📷 ] Backlight: Select this mode when you want to capture images when the light comes from behind the object.

1. Slide the lens cover open until it clicks to turn on the camera.
   ■ The camera mode (default preview) is displayed.
2. Press the ▲ **/ MENU** button.
   ■ The [Capture] menu is displayed.
3. Select [Scene Mode] with the ▲ / ▼ buttons, then press the **OK** button.
4. Select the desired scene mode with the ▲ / ▼ buttons, then press the **OK** button.
5. To exit from the menu, press the ◀ button.

| Capture | Setup |
| --- | --- |
| Size | 2560 x 1920 |
| Quality | Fine |
| **Scene Mode** | **Auto** |
| EV | 0.3 |
| White Balance | Tungsten |
| ISO | 100 |
| Color | Standard |
| Exit: ◀ | Set: OK |

| Capture | Setup |
| --- | --- |
| Size | 2560 x 1920 |
| Quality | **Auto** |
| **Scene Mode** | Sport |
| EV | Night |
| White Balance | Portrait |
| ISO | Landscape |
| Color | Backlight |
| Exit: ◀ | Set: OK |

# PLAYBACK MODE - THE BASICS

## Viewing Images

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

1. Slide the lens cover open until it clicks to turn on the camera.
2. Press the [ ▶ ] 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.
4. To exit from playback mode, press the [ ▶ ] or ▼ (MODE) button.

```
┌─────────────────────────┐
│ ▶                  SD ▰▰ │
│                         │
│ 100-0001                │
│ Size        2048 x 1536 │
│ EV              0.3      │
│ 2000-02-10    09-26      │
│                    0001 │
└─────────────────────────┘
```

---

**NOTE**

■ The playback information displayed on the LCD monitor will disappear after a of time.
■ If there is no image stored in the internal memory or on the memory card, a [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. Slide the lens cover open until it clicks to turn on the camera.
2. Press the [ ▶ ] 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.
3. Press the **OK** / ⌕ button to adjust the zoom ratio.
   - ■ The magnification factor is displayed on the LCD monitor.
4. To view different portion of the images, press the ▲ / ▼ / ◀ / ▶ button to adjust the display area.

> ■ The magnification factors range from 1x to 4x (in 7 stages: 1.0x, 1.5x, 2.0x, 2.5x, 3.0x, 3.5x and 4.0x).
>
> **NOTE**

## 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. Slide the lens cover open until it clicks to turn on the camera.
2. Press the [ ▶ ] button.
   ■ The last recorded image appears on the LCD monitor.
3. Press the **OK** / Q button several times.
   ■ Nine thumbnail images will be displayed simultaneously.
   ■ For recorded video clips, the [ 🎥 ] video mode icon will be displayed.
4. Use the ▲ / ▼ / ◀ / ▶ button to move the cursor to select the image to be displayed at regular size.
5. Press the **OK** button to display the selected image on the full screen.

## Slideshow Display

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

1. Press the [ ▶ ] button.
2. Press the ▲ **/ MENU** button.
   - The playback menu is displayed.
3. Select [Slide Show] with the ▲ / ▼ buttons, then press the **OK** button.
4. Select ▲ / ▼ to set the playback interval, then press the **OK** button.
   - The slideshow starts.
5. To stop the slide show during playback, press the **OK** button.

| Play | Setup |
|------|-------|
| Delete | Next Menu |
| Copy to Card | Next Menu |
| Slide Show | 3 sec. |
| Protect | Next Menu |
| Thumbnail | Next Menu |
| Exit: ◀ | Set: OK |

| Play | Setup |
|------|-------|
| Delete | Next Menu |
| Copy to Card | Next Menu |
| Slide Show | 3 sec. |
| Protect | 5 sec. |
| Thumbnail | 10 sec. |
| Exit: ◀ | Set: OK |
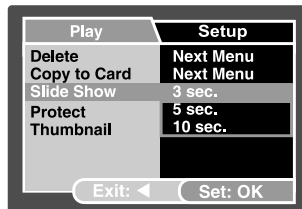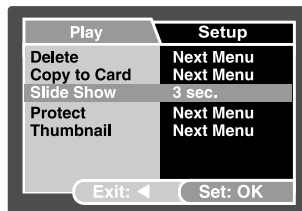
**NOTE**

- You can adjust the slide show display interval to 3 Sec., 5 Sec., 10 Sec.
- The Auto Off function does not operate during slide show.
- All still images in the folder are automatically played back.

# VIDEO MODE

## Recording Video Clips

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

1. Slide the lens cover open until it clicks to turn on the camera.
2. Press ▼ / **MODE** and switch to [ 🎥 ] mode.
3. Press the shutter button to start recording.
4. To stop recording, press the shutter button again.

**NOTE**

■ When recording a video clip, the flash cannot be used.

## 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 [ ▶ ] button.
2. Use ◀ or ▶ to go through the images until the video clip you want to play is displayed.
   - To view the previous image, press the ◀ button.
   - To view the next image, press the ▶ button.
3. Press the **OK** button to start playing the video clips.
   - To pause or resume video playback, press the **OK** button again.

```
┌──────────────────────────────────┐
│ ▣ 栗            00:00:26 SD ▰▰▰ │
│ OK : ▶/ⅠⅠ                         │
│        100-0002                   │
│        Size          320X240      │
│        EV.              0.3       │
│        2006.02.10    10:34        │
│                            0002   │
└──────────────────────────────────┘
```

---
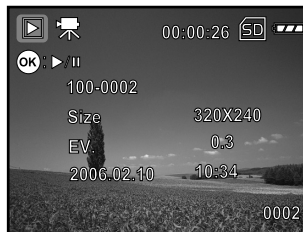
⚠ **NOTE**

- 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.
- To play the video clips on your computer we recommend using Windows Media Player 9.0 or later. You can download the latest version from www.microsoft.com.

# PLAYBACK MODE – ADVANCED FEATURES

## Deleting Images/Video Clips

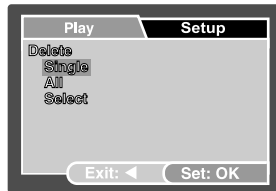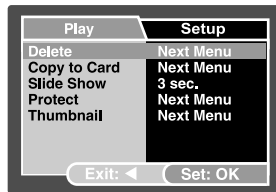Use this function to delete one or all images/video clips stored in the internal memory or memory card. Please note that the deleted images or video clips cannot be recovered. Exercise caution before deleting a file.

**Deleting at Playback Mode**

1. Press the [ ▶ ] button.
   - ■ The last image will be displayed on the screen.
2. Select the image you want to erase with the ◀ / ▶ buttons.
3. Press the ▲ / **MENU** button.
   - ■ The playback menu is displayed.
4. Select [Delete] with the ▲ / ▼ buttons, then press the **OK** button.
   - ■ The deletion menu is displayed.
5. Select [Single] or [All] with the ▲ / ▼ buttons, then press the **OK** button.
   - ■ Single: Erases the selected image or the last image.
   - ■ All: Erases all of the images on the SD memory card except for the protected images.
   - ■ Select: Erases a number of selected images.
6. Select [Execute] with the ▲ / ▼ buttons, then press the **OK** button.
   - ■ To not erase, select [Cancel], then press the **OK** button.

| Play | Setup |
|---|---|
| Delete | Next Menu |
| Copy to Card | Next Menu |
| Slide Show | 3 sec. |
| Protect | Next Menu |
| Thumbnail | Next Menu |

Exit: ◀    Set: OK

| Play | Setup |
|---|---|
| Delete | |
| Single | |
| All | |
| Select | |

Exit: ◀    Set: OK

**Deleting selected images**

1. Press the [ ▶ ] button.
2. Press the ▲ **/ MENU** button.
   - ■ The playback menu is displayed.
3. Select [Delete] with the ▲ / ▼ buttons, then press the **OK** button.
   - ■ The deletion menu is displayed.
4. Select [Select] with the ▲ / ▼ buttons, then press the **OK** button.
   - ■ The images are displayed in the thumbnail display. The [ 🗑 ] icon will also be displayed.
5. Select the image you want to delete with the ▲ / ▼ / ◀ / ▶ buttons, then press the **OK** button.
   - ■ The image you've just selected has been deleted.

```
┌──────────────────────────────┐
│  Play          Setup         │
├──────────────────────────────┤
│ Delete                       │
│   Delete This Picture?       │
│     Cancel                   │
│     Execute                  │
│                              │
│                              │
│  ( Exit: ◀   ( Set: OK       │
└──────────────────────────────┘
```
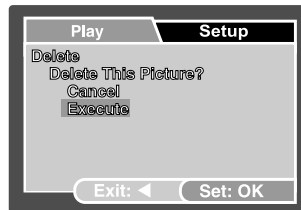
## Protecting Images/Video Clips

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

**Protecting Images**

1. Press the [ ▶ ] button.
   - The last recorded image appears on the LCD monitor.
2. Select the image that you want to protect with the ◀ / ▶ buttons.
3. Press the ▲ / **MENU** button.
   - The playback menu is displayed.
4. Select [Protect] with the ▲ / ▼ buttons, then press the **OK** button.
5. Select [Single] or [All] with the ▲ / ▼ buttons, then press the **OK** button.
6. Select [Set] with the ▲ / ▼ buttons, then press the **OK** button.
   - Press continuously the ◀ button to return to the playback mode.
     The protect icon [ 🔒 ] is displayed with the selected image.
   - When [All] has been selected, [ 🔒 ] is displayed with all the images.

| Play | Setup |
|------|-------|
| Delete | Next Menu |
| Copy to Card | Next Menu |
| Slide Show | 3 sec. |
| Protect | Next Menu |
| Thumbnail | Next Menu |

Exit: ◀   Set: OK

| Play | Setup |
|------|-------|
| Protect | |
| Single | |
| All | |
| Select | |

Exit: ◀   Set: OK

| Play | Setup |
|------|-------|
| Protect | |
| Single | |
| Set | |
| Cancel | |
| Exit | |

Exit: ◀   Set: OK
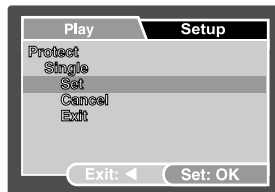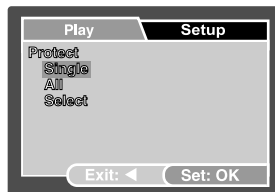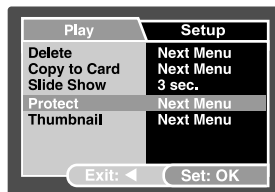
**To cancel the protection**

To cancel protection for only one image, display the image that you want to remove the image protection.

1. Select [Protect] with the ▲ / ▼ buttons from the playback menu, then press the **OK** button.
2. Select [Single] or [All] with the ▲ / ▼ buttons, then press the **OK** button.
3. Select [Cancel] with the ▲ / ▼ buttons, then press the **OK** button.
   - Press continuously the ◀ button to return to the playback mode. The removal of image protection has been executed.

**To protect multiple images simultaneously**

1. Select [Protect] with the ▲ / ▼ buttons from the playback menu, then press the **OK** button.
2. Select [Select] with the ▲ / ▼ buttons, then press the **OK** button.
   - The images are displayed in the thumbnail display. The protect icon [ 🔒 ] is also displayed.
3. Select the image you want to protect with the ▲ / ▼ / ◀ / ▶ buttons, then press the **OK** button.
4. If you want to cancel the protection of selected image respectively, follow the steps mentioned in "**To cancel the protection**" above to set.

> ■ Formatting an SD memory card overrides protection, and erases all images regardless of their protected status.
>
> **NOTE**

## Connecting to a PictBridge Compliant Printer

If a printer that supports PictBridge is available, images can be printed by connecting the digital still camera directly to the PictBridge-compatible printer without using a computer.

**Connecting the camera to the printer**

1. Connect the USB port on the camera and the USB jack on the printer with the supplied USB cable, then turn on your camera and the printer.
   - The screen for selecting the USB mode is displayed.
2. Select [PRINTER] and press the **OK** button.
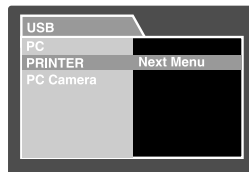
**Printing images**

When the camera is properly connected to a PictBridge compliant printer, the PictBridge menu is displayed on the monitor.

1. Select the item you want to configure with the ▲/▼ buttons, and press the **OK** button.
   - [Images]: Select whether you want to print specific image or all images. You may also select printing number for specific image.
   - [Date Print]: According to the printer type, select whether you want to print the image with date imprint or not.
   - [Paper Size]: Select the desired paper size according to the printer type.
   - [Layout]: Select the desired printing layout according to the printer
2. If you select [Images] in the previous step, the figure shown on the right hand side will appear. Select [Select] or [All] with the ▲/▼ buttons, and press the **OK** button.
   - [Select]: Select to print multi images simultaneously.
   - [All]: Select to print all images.
   - [Exit]: Exit from Images option.
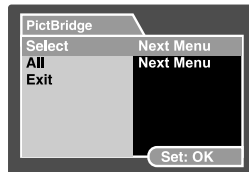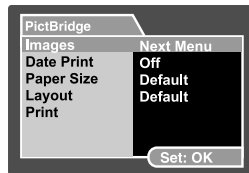
3. If you select [Select] in the previous step, the figure shown on the right hand side will appear.
   - Select the multi images that you want to print simultaneously with the ◀/▶ buttons.
   - Select the [Print Num.] (up to 99) with the ▲/▼ buttons.
   - After selecting the desired image and printing number, press the **OK** button to confirm.

4. Select [Exit] with the ▲/▼ buttons, and press the **OK** button.

5. Select [Print] with the ▲/▼ buttons, and press the **OK** button to start printing.

6. The printing starts and the figure shown on the right hand side appears.
   - The [Complete] will be displayed temporarily, reminding you that the printing procedure is finished.
   - If a print error is detected, the [Print Error] will be displayed.
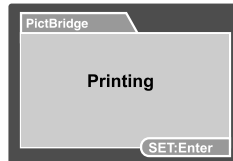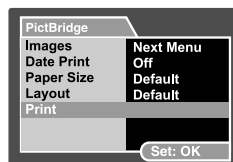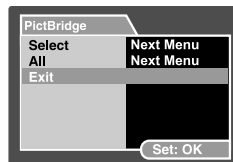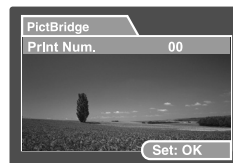
**NOTE**

■ The image printing may be failed if the power to the camera is cut off.

# TRANSFERRING FILES FROM YOUR VIVICAM 5150s 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.

## Step 2: Connect the ViviCam 5150s to your computer

1. Slide the lens cover open until it clicks to turn on the camera.
2. Connect one end of the USB cable to an available USB port on your computer.
   - The USB screen appears on the screen.
3. Use ▲ / ▼ to select [PC], then press the **OK** button.
4. From the Windows desktop, double click on "My Computer".
5. Look for a new "Removable disk" icon. This "Removable disk" is actually the memory card in your camera. Typically, the camera will be assigned drive letter "e" or higher.
6. Double click on the removable disk and locate the DCIM folder.
7. Double click on the DCIM folder to open it to find more folders.
   - Your recorded images and video clips will be inside these folders.
   - Copy & Paste or Drag-N-Drop image and video files to a folder on your computer.
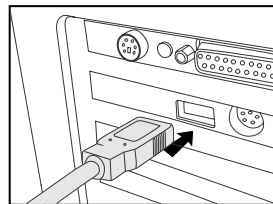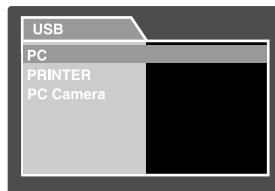
(**For Mac users**, double-click the "untitled" or "unlabeled" disk drive icon on our desktop. iPhoto may automatically launch.)

## 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.

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**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 "**Install Ulead® Photo Explorer**". Follow the on-screen instructions to complete the installation.



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**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 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.



**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 the Mac.

# INSTALLING ADOBE ACROBAT READER

The CD-ROM includes a PDF (portable document format) copy of the user's manual. To view a PDF you must have Adobe Acrobat Reader installed in your computer. Adobe Acrobat Reader is included on the ViviCam 5150s CD ROM. Using Adobe Acrobat Reader, you can read the user's manual and print sections of interest.

1. Insert the CD-ROM that came with the ViviCam 5150s into the CD-ROM drive. The welcome screen appears.
2. Click "**Install Acrobat Reader**".
   Follow the on-screen instructions to complete the installation.

# USER MANUAL

A copy of the user manual is provided on the CD-ROM in PDF format. It is a backup copy of the printed manual.If you misplace the printed guide, you may print another copy from the CD-ROM. The only requirement for viewing the User Manual on the CD-ROM is that you have Acrobat Reader (Adobe Reader) installed on your computer. Updates to this manual, and versions in other languages may be found on the Vivitar website (www.vivitar.com).

1. Insert the CD-ROM that came with the ViviCam 5150s into the CD-ROM drive. The welcome screen appears.
2. Click "**Install User's Manual**". Follow the on-screen instructions to complete the installation.
   Alternatively, browse the CD-ROM to find the PDF file.

# 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

> **NOTE**
> - 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.

Vivitar
ViviCam 5150s

Install USB/PC-Cam Driver
Install Ulead® Photo Explorer
Install Ulead® Photo Express
Install User's Manual
Install Acrobat Reader

Exit

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

1. Slide the lens cover open until it clicks to turn on the camera.
2. Connect one end of the USB cable to an available USB port on your computer.
   - The USB screen appears on the screen.
3. Use ▲ / ▼ to select [PC Camera], then press the **OK** button.
4. Position the digital camera steadily on top of your computer monitor or use a tripod.

| USB |
|---|
| PC |
| PRINTER |
| **PC Camera** |
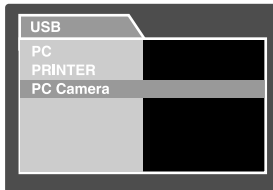
> ■ When using this digital camera as a PC camera, it is necessary to install the battery into the digital camera.
>
> **NOTE**

## 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 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.
>
> **NOTE**

# MENU OPTIONS

## Camera Menu

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

1. Slide the lens cover open until it clicks to turn on the camera.
   - The camera mode (default preview) is displayed.
2. Press the ▲ / **MENU** button.
   - The [Capture] menu is displayed.
3. Select the desired option item with the ▲ / ▼ buttons, then press the **OK** button to enter its respective menu.
4. Select the desired setting with the ▲ / ▼ buttons, then press the **OK** button.
5. To exit from the menu, press the ◀ button.

| Capture | Setup |
|---|---|
| Size | 2560 x 1920 |
| Quality | Fine |
| Scene Mode | Auto |
| EV | 0.3 |
| White Balance | Tungsten |
| ISO | 100 |
| Color | Standard |
| Exit: ◀ | Set: OK |

| Capture | Setup |
|---|---|
| Saturation | High |
| Sharpness | Normal |
| Date Print | On |
| | |
| | |
| Exit: ◀ | Set: OK |

*Size*

This sets the size of the image that will be captured.

- \* [ ▢ ] 2560 x 1920
- \* [ ▢ ] 2048 x 1536
- \* [ ▢ ] 1280 x 960
- \* [ ▢ ] 640 x 480

*Quality*

This sets the quality (compression rate) at which the image is captured.

- \* [★★★] Fine
- \* [★★ ] Standard
- \* [★ ] Economy
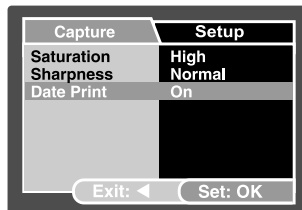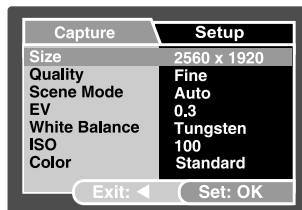
Refer to section in this manual titled "Scene Mode Selection" for further details.

Refer to section in this manual titled "Adjusting the Exposure (EV Compensation)" for further details.

This sets the white balance capturing under a variety of lighting conditions and permits images to be captured that approach the conditions that are seen by the human eye.

* [ **Blank** ] Auto
* [ ☀ ] Daylight
* [ ☁ ] Cloudy
* [ 🜄 ] Tungsten
* [ ☀ ] Fluorescent

This sets the sensitivity for capturing images. 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.

* 50 / 100 / 200 / Auto

### Color

This sets the color of the image that will be photographed.
\* Standard / Vivid / Sepia / Monochrome

### Saturation

To capture an image, your camera offers you three different degrees of color to match with your preference. Your images will create different impression by selecting different degrees of color. This is called "Saturation".
\* High / Normal / Low

### Sharpness

This sets the sharpness of the image that will be photographed.
\* Hard / Normal / Soft

### Date Print

The date of recording can be printed directly on the still images. This function must be activated before the image is captured.
\* On / Off

## Video Menu

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

1. Slide the lens cover open until it clicks to turn on the camera.
2. Toggle the ▼ / **MODE** button and switch to [ 🎥 ] mode.
3. Press the ▲ / **MENU** button.
   ■ The [Video Output] menu is displayed.
4. Select the desired option item with the ▲ / ▼ buttons, then press the **OK** button to enter its respective menu.
5. Select the desired setting with the ▲ / ▼ buttons, then press the **OK** button.
6. To exit from the menu, press the ◄ button.

| Video Output | Setup |
|---|---|
| EV | 0.3 |
| White Balance | Tungsten |
| | |
| Exit: ◄ | Set: OK |
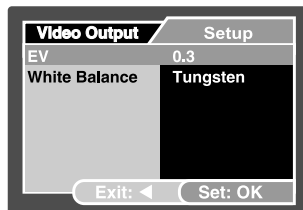
*EV*

Refer to section in this manual titled "EV" in Camera Menu for further details.

*White Balance*

Refer to section in this manual titled "White Balance" in Camera Menu for further details.

## Playback Menu

In the [ ▶ ] mode, choose which settings are to be used for playback.

1. Press the [ ▶ ] button.
2. Press the ▲ **/ MENU** button.
   - ■ The playback menu is displayed.
3. Select the desired option item with the ▲ / ▼ buttons, then press the **OK** button to enter its respective menu.
4. Select the desired setting with the ▲ / ▼ buttons, then press the **OK** button.
5. To exit from the menu, press the ◀ button.

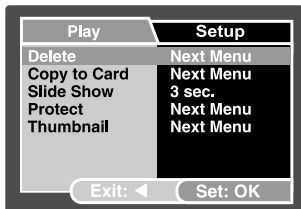| Play | Setup |
|------|-------|
| Delete | Next Menu |
| Copy to Card | Next Menu |
| Slide Show | 3 sec. |
| Protect | Next Menu |
| Thumbnail | Next Menu |
| Exit: ◀ | Set: OK |

### Delete

Refer to section in this manual titled "Deleting Images/Video Clips" for further details.

### 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.
* Cancel / Execute

### Slide Show

Refer to section in this manual titled "Slideshow Display" for further details.

### Protect

Refer to section in this manual titled "Protecting Images/Video Clips" for further details.

### Thumbnail

Refer to section in this manual titled "Thumbnail Display" for further details.

## Setup Menu

Set your camera's operating environment.

1. Press ▼ / **MODE** and switch to camera or [ 🎥 ] mode, or press the [ ▶ ] button.
2. Press the ▲ / **MENU** button and access in setup menu with the ▶ button.
   ■ The [Setup] menu is displayed.
3. Select the desired option item with the ▲ / ▼ buttons, and press the **OK** button to enter its respective menu.
4. Select the desired setting with the ▲ / ▼ buttons, and press the **OK** button.
5. To exit from the menu, press the ◄ button.

*Date/Time*

This sets the date and the time.
Refer to section in this manual titled "Setting the Date and Time" for further details
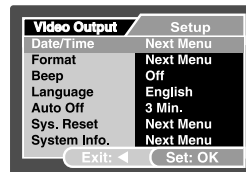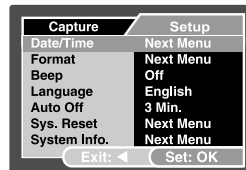
*Format*

Erases all images and reformats the SD card loaded in your camera. Protected mages are also erased. SD card cannot be formatted if it is write-protected. Refer to section in this manual titled "Formatting an SD Memory Card or Internal Memory" for further details.

*Beep*

This sets whether or not to mute the camera sound each time you press the camera button.
\* On / Off

| Capture | Setup |
| --- | --- |
| Date/Time | Next Menu |
| Format | Next Menu |
| Beep | Off |
| Language | English |
| Auto Off | 3 Min. |
| Sys. Reset | Next Menu |
| System Info. | Next Menu |
| Exit: ◄ | Set: OK |

| Video Output | Setup |
| --- | --- |
| Date/Time | Next Menu |
| Format | Next Menu |
| Beep | Off |
| Language | English |
| Auto Off | 3 Min. |
| Sys. Reset | Next Menu |
| System Info. | Next Menu |
| Exit: ◄ | Set: OK |

| Play | Setup |
| --- | --- |
| Date/Time | Next Menu |
| Format | Next Menu |
| Beep | Off |
| Language | English |
| Auto Off | 3 Min. |
| Sys. Reset | Next Menu |
| System Info. | Next Menu |
| Exit: ◄ | Set: OK |

**Language**

Refer to section in this manual titled "Choosing the Screen Language" for further details.

**Auto Off**

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.
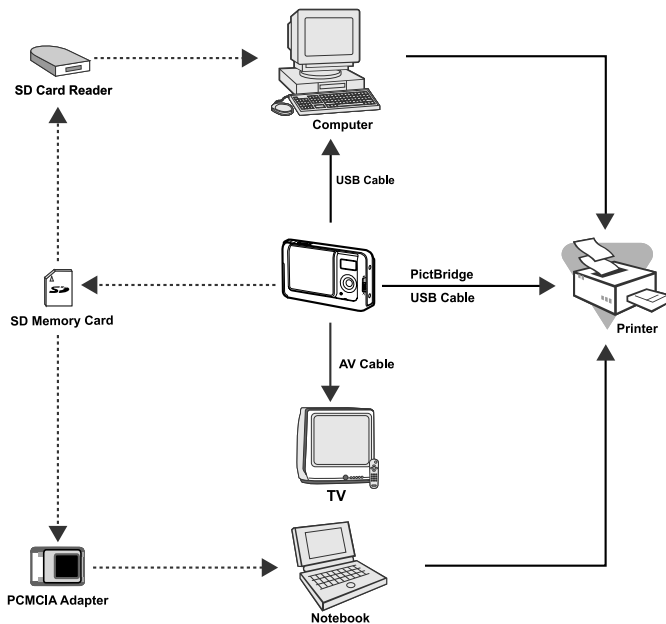* 3 Min./ 5 Min./ 10 Min./ Off

**Sys. Reset**

This returns all basic settings to the camera's default settings. The time setting will not be reset.
* Cancel / Execute

**System Info.**

This displays the current firmware version of the camera.

# CONNECTING THE VIVICAM 5150s TO OTHER DEVICES

SD Card Reader

Computer

USB Cable

SD Memory Card

PictBridge

USB Cable

Printer

AV Cable

TV

PCMCIA Adapter

Notebook

# VIVICAM 5150s 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 |
| | Video clip: 320 x 240 |
| Image quality | Still image: Fine, Normal, Economy |
| | Movie image: Economy |
| Recording media | 16MB internal memory (14MB available for image storage) |
| | SD memory card (Optional, up to 1GB) |
| File format | Image format: JPEG; video format: Motion JPEG |
| Lens | F-no.: 3.3 |
| | Focal length: 6.95mm (equivalent to 42mm in 35mm camera) |
| Focus range | Macro: 60 ~ 100 cm (24-40 inches) |
| | Normal: 100 cm ~ infinity |
| LCD monitor | 2.0" LTPS color LCD |
| | High-resolution 153K pixel display |
| Self-timer | 10 sec delay, 2 sec delay, 10+2 sec delay |
| Exposure compensation | -2.0EV~ +2.0EV (in 0.3EV steps) |
| White balance | Auto, Daylight, Cloudy, Tungsten, Fluorescent |
| ISO | Auto, 50, 100, 200 |
| Interface | USB connector |
| Power | 2 x AA Alkaline batteries (Optional) |
| Dimensions | Approx.90 x 55 x 24 mm (3.54 x 2.17 x 0.94 in.) |
| Weight | Approx. 85g (3.00 oz) (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. | * The batteries have run out.<br>* The batteries are not oriented correctly.<br>* The battery cover is not closed properly. | * Load new or fully charged batteries.<br>* Load the batteries in the correct direction.<br>* Close the battery cover correctly. |
| The camera suddenly powers down. | * The function of Auto off in setup menu has been activated.<br>* The batteries have run out. | * Set the option of Auto Shut Down to Off.<br>* Turn the power back on or charge the batteries. |
| The image is not captured when the shutter button is pressed. | * The camera is in ▶ (Playback) mode.<br>* Memory is full. | * Toggle the ▼ / **MODE** button to the camera mode.<br>* Transfer the desired files to your computer and then delete unnecessary files, or use a different memory card. |
| The flash does not fire. | * NO FLASH is selected in flash mode.<br>* The camera is in 🎥 (Video) mode. | * Select a different flash mode.<br>* Press the ▼ / **MODE** and switch to the camera mode. |
| Cannot transfer files over a USB connection. | * The USB cable is not connected securely.<br>* The USB driver is not installed.<br>* The camera is turned off. | * Check all connections.<br>* Install the USB driver on your computer.<br>* Turn on the camera. |