## Preface

The camera is equipped with eight modes (Scene selection, Programmed, Aperture priority, Shutter speed priority, Manual exposure, Playback, Movie, Setup) for your exploration. In combination with all the above mode function, not only will this camera serve as a digital camera, but it can also be used in recording short movies and audio recording.

This camera offers 5.36 mega pixels high-quality image along with precise 32 x zoom (8 x optical plus 4 x digital). The built-in 16MB internal memory can store your images and videos. Its auto focus lens supports a macro mode from 20cm to 50cm. Normally, it can takes pictures ranging from 50cm to infinite. Through the USB cable connection, pictures can be easily transferred from the camera to the PC. It also provides an AV output function to perform the operation through TV. Continuous shooting function is also available for users to take multiple frames of scenes in quick succession. Here are its main features:

- P.A.S.M. (Playback, Aperture, Scene, Manual exposure) mode
- MPEG4 audio and video recording
- 8 x optical lens
- Electronic view finder
- Orientation sensor for still image rotate
- Popup flash
- 15 scene modes
- Histogram on display
- Cropping and frame editing function with 6 frames to choose from
- 3x3 image thumbnail display
- Built-in speakers

To make the best out of this camera, we strongly suggest that you read through this manual prior to operating this camera.
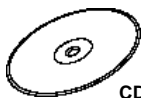
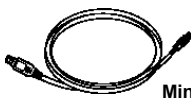# Table of Contents

**2**

# Prior to Operating the Camera

Setting up this digital camera is quick and simple. Follow these steps, and you'll be on your way to infinite boundaries.
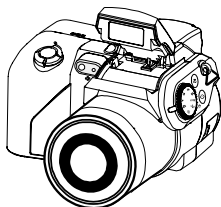
## Unpacking the Camera

1.  Clear all items from the box. (It is highly recommended that the box and wrappings are kept for future usage)
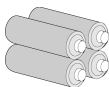2.  Double check for the following items:



**CD-ROM**

**Mini USB Cable**

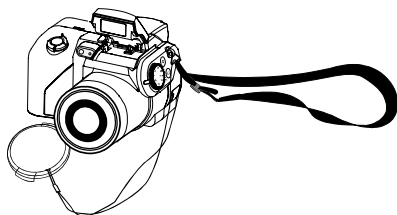**Video Cable**

**Camera**
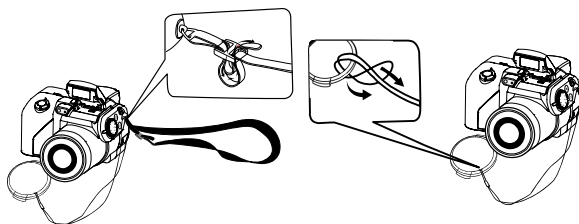
**Shoulder Strap**

**Lens cap**  **Batteries**  **Quick Guide**

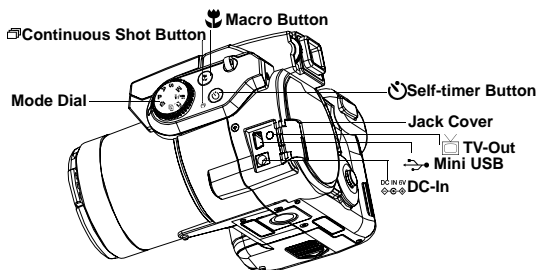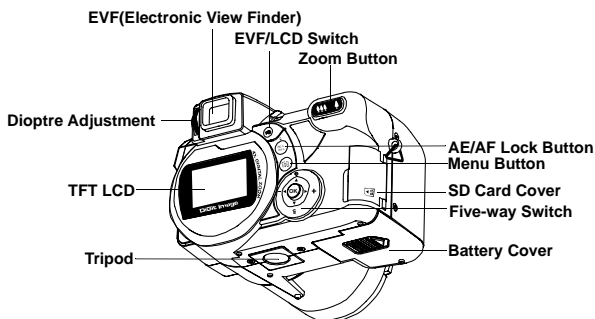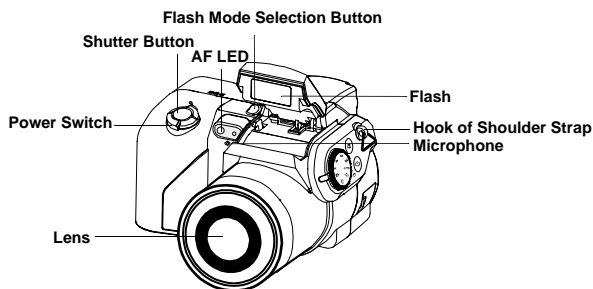## Attaching the lens and strap on the camera



The lens cap and strap are attached in one. To remove or cap the lens cap, press on both sides of the retractable knob.



Thread the strap through the strap hole of the camera and the lens cap. Adjust the strap to the desired length.

# Identifying Components

Flash Mode Selection Button
Shutter Button
AF LED
Flash
Power Switch
Hook of Shoulder Strap
Microphone
Lens

EVF(Electronic View Finder)
EVF/LCD Switch
Zoom Button
Dioptre Adjustment
AE/AF Lock Button
Menu Button
TFT LCD
SD Card Cover
Five-way Switch
Tripod
Battery Cover

Macro Button
Continuous Shot Button
Self-timer Button
Mode Dial
Jack Cover
TV-Out
Mini USB
DC-In

# Loading the Batteries and SD Memory Card

This camera uses 4 AA batteries or CR-V3 x 2. The batteries and SD card are located in separate compartments. The battery compartment is located at the bottom of the camera, while the SD card compartment is located at the back of the camera.

**1.** Slide the battery cover in the direction of the arrow, then lift to open.

**2.** Load the batteries into the battery compartment. (a)

**3.** Close the battery cover.

**4.** Flip the SD card compartment cover, and insert the SD card into the slot. (b)

**5.** Close the SD card cover.

**Battery Cover**　　**SD Card Card**

(b)

(a)
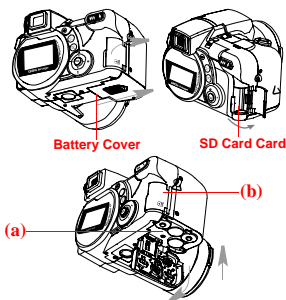
| CAUTION! | 1. Use only the specified battery or AC power adapter (6.0V 2A) with this camera. Other power sources may cause fire.<br>2.To improve battery performance, replace all installed batteries at the same time and keep batter way from heat.<br>3.To dispose off batteries, please refer to index of battery manufacturer.<br>4. Do not mix battery types or it may cause a fire or explosion. Use only one battery type at one time<br>5. Batteries should be inserted in the battery compartment with the "+" and "-" sides facing correctly.<br>6. For alternative power source, the optional AC Adapter kit is available. |
|---|---|

| NOTE: | 1. Upon loading new batteries, users will need to reset their Basic Settings<br>2. Do not open the battery cover or remove the batteries when the camera is in its ON status. Only remove the batteries and SD card when the camera is not in use, or in its OFF status.<br>3. If you do not plan on using the camera for a long period of time, please remove the batteries and SD card. |
|---|---|

## Basic Settings

Upon turning the camera ON, a "welcome image" will appear on the LCD display.  Turn the mode dial to the Setup Mode. Please proceed with the following settings:

**Language Preference Setting**
There are a total of twelve languages to choose from to interact with this camera. Please refer to Setup Mode. (Page 30)
**Date and Time Setting**
Please refer to the Date and Time setting under Setup Mode. (Page 27)

## Formatting the Internal Memory and SD Card

To take more pictures effectively, format the content of the SD Card. To format SD card, please insert your compatible SD card into SD slot.  Then proceed with the following steps:
1. Turn the Mode Dial to Setup Mode.
2. Press the Menu button to enter Setup menu to select "Format".
3. You will then be asked "Format SD card?" on the LCD Display.
4. Press the OK button to confirm and proceed with formatting.
As a result, once you withdraw the SD Card from the camera, the LCD display will show the following message for confirmation: "Format internal memory?" Then, press OK button to complete formatting internal memory.

# Basic Operating Procedure

This section provides simple and basic directions to get you started with your camera. From this section, you will learn how to turn the camera on and off, shoot pictures, use the Auto Focus function, Zooming In and Out, and Playback your pictures. A description is also included for the EVF & LCD function.

## Turning the Camera On/Off

1. Remove the lens cap
2. Slide the Power switch in the direction of arrow.
    - power LED lights up and the power is on.
    - turning off the power (slide the switch again)
    - Auto power-off function operates when batteries are used only.

**Shutter Button**

**Power Switch**
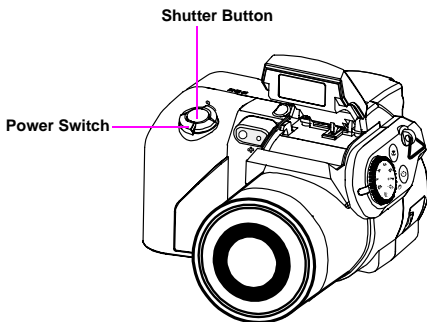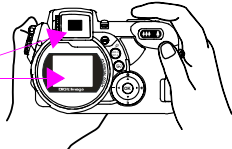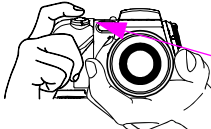
**\*\*The backside LED indicator will remain green while the power is turned on\*\***

**Tip:** The LCD display will warn users to open the lens cap when the lens cap is on.

# Basic Shooting

1. Turn the mode dial to the Scene Mode

2.)Look into the viewfinder /LCD and try to align your subject in the box.

3.)When you are set, press the shutter button once.

**Tip:** Do not cover the lens or flash with your finger.

# Auto-Focus Function

When the shutter release is pressed halfway, the Auto-Focus function will activate and the camera lens will automatically focus. Follow these steps to activate this function:

1. Under normal situation, the crop mark is yellow. Once the shutter is pressed halfway to activate the Auto-Focus function, the crop mark will turn green. If it fails, the crop mark will turn red.

2. Fully press the shutter button to take the picture.

# Zooming In/Out

This camera has 8 x optical zoom and 4 x digital zoom. The zoom bar located on the right side of the LCD display, informs users of the zoom status while the zoom in or out button is pressed. While the zoom button is  pressed, there will be 15 levels of zoom magnifications, from W(Wide) to T(Tele) of zoom bar; The zoom lens can automatically protrude and retract. An additional 8 levels of zoom magnification (0.5x/each), from

T(tele)to 4x (4x Digital Zoom) of zoom bar will activate, when the zoom button is pressed. Users can see the result from LCD display.

1. Once you have aligned your subject in the LCD display, press the zoom in or out button to select your preferred distance.

## Viewing Pictures

To instantly view the pictures you just took, simply turn the mode dial to the Playback Mode. For an in-depth description of Playback Mode, please refer to page 23.
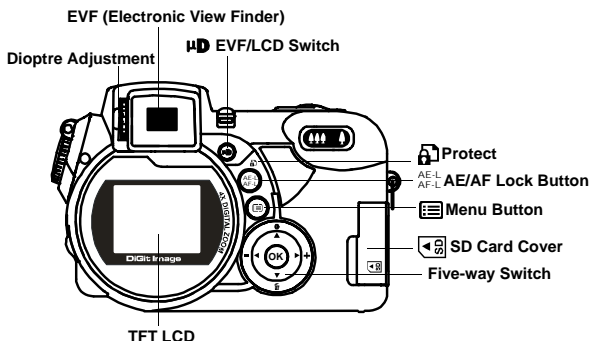
## Protect Pictures

To instantly protect the pictures you just took, press the menu button and select the protect function. To protect pictures under playback mode, press the AE/AF/protect button and press ok.

## Erase Pictures

To instantly erase the picture, turn the mode dial to the Playback Mode, then press the down button and OK to delete the current picture.

## Basic Functions Buttons

The camera includes the following basic functions.



EVF (Electronic View Finder)

µD EVF/LCD Switch

Dioptre Adjustment

Protect

AE-L
AF-L AE/AF Lock Button

Menu Button

SD Card Cover

Five-way Switch

TFT LCD

**AE-L AF-L** **AE/AF lock and Protect:** These three functions can be activated under this button. Under playback mode, press this button to protect the picture. AE lock locks the exposure at a different place from the point of focus. After locking the exposure, you can recompose the shot while maintaining the desire exposure level. AF lock locks the focus on the subject and recomposes the shot. This is useful for backlight and spotlighted subjects.

AE Lock: Press "L" button once for AE lock
AF Lock: Press "L" button twice for AF lock

Normal: Press "L" button again for normal

> **Tip:** AF button locks the focus object for a sequence shooting. Pressing the snap button halfway can proceed AF lock for only one image, but next.

▤ **Menu:** This button allows quick access to the menu function .

⚡ **Flash:** This button sets flash as Force off / Auto Red eye reduction / Force on / Slow. To activate the first strobe, press the flash button for flash mode selection and select the desired flash setting. The flash button will have to pop up in order to activate the flash mode. If not, the flash will not function and users will not be able to select the type of flash. When the flash pops up, the default setting will be force on, followed by Auto, Slow and Off.



⚡ Flash

⚡ Flash mode selection
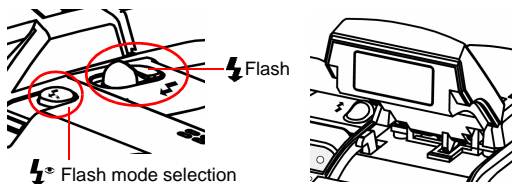
Force on: Press flash button for force on. This is also the default setting.
Auto Red eye reduction: Press flash button once for auto red eye

Slow: Used for slow shot
Force off: When the flash is off

> **Tip:** Push down the flash pop-out when not in use.

**ᴴᴰ EVF/LCD:** This button allows users to switch in between the LCD and EVF (Electronic View Finder) to operate this camera.

**Dioptre Adjustment:** This enables users to adjust the far or nearsightedness of the viewfinder.

Lens Cap     Mode Dial    🌷 Macro Button

Dioptre Adjustment
**Hook of Shoulder Strap**

⟳ Self-timer Button

TV-Out
**Mini USB**
**DC-in**

🗗 Continuous Shot Button
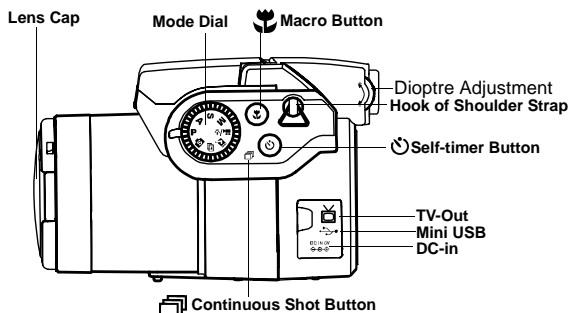
🌷 **Macro:** The macro function allows users to take close-up pictures in a distance within 20cm to 50cm. Press the Macro button to access Macro function.

⟳ **Self-timer:** The self-timer function is used in capture and video mode with a time frame of 3 to 10 seconds. A tripod is highly recommended when setting the self-timer to 3 seconds.

🗗 **Continuous shot:** This function allows 3 continuous shot. Turn the mode dial to P. A. S. M. & scene mode. press selftimer/continuous shot button twice, and press the shutter button.

**Note:**
1. Flash will not be available under continuous mode.
2. During the shooting, images will not display on the LCD.
3. The focus and white balance are adjusted for the first image, which will also be used for the other images.
4. Continuous shot and self-timer share the same button.

**Zoom:** This camera has 8 x optical zoom and 4 x digital zoom.

| Resolution | Digital Zoom |
|---|---|
| 10 M (3648 x 2736) | x 1 |
| 5.0M (2560 x 1920) | x 4 |
| 3.0M (2048 x 1536) | x 4 |
| 1.3M ( 1280 x 960) | x 4 |
| VGA ( 640 x 480) | x 4 |

Under Capture Mode:
 Zoom in: Press Zoom in button for magnify image
 Zoom out: Press Zoon out button for narrow the image
Under Playback mode: (Magnify / Thumbnail)
 Zoom in: Press Zoom in button for magnify image
 Zoom out: Press Zoon out button for thumbnail (3x3)

**EVF/LCD Display:** This button allows you to turn the display On or Off for the electronic view finder & LCD. When EVF is selected, LCD will not be on.
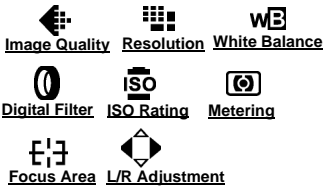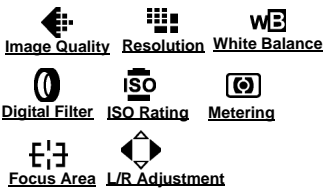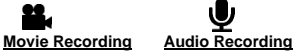
**Tip:**
**HV / Histogram Value**



Histogram Value showing the brightness and contrast of the subject. It enables precise exposure control. In playback mode, histogram showing the brightness and contrast information of recorded pictures. You can set. histogram display by pressing up on the five-way switch in shooting and playback modes.

# Eight Main Modes and Instructions

This section will describe the eight modes included in this camera. An in-depth coverage of these modes will be further described. Under each of the following modes, users can choose to proceed with the modes either by looking at the LCD or through the electronic view finder. To switch between the electronic view finder or LCD, press on the EVF/LCD button.

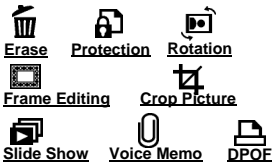| Items | Indications | Page |
|-------|-------------|------|
| Scene Mode <br> **S** | **Auto**  Sport  Landscape  Night <br><br> Portrait  Self Portrait  Night Portrait <br><br> Sunset  Beach  Back Light  Autumn <br><br> Natural  Sky  Party  Text | 17 |
| Program mode <br> **P** | Image Quality  Resolution  White Balance <br><br> Digital Filter  ISO Rating  Metering <br><br> Focus Area  L/R Adjustment | 19 |
| Aperture priority mode <br> **A** | Image Quality  Resolution  White Balance <br><br> Digital Filter  ISO Rating  Metering <br><br> Focus Area  L/R Adjustment | 19 |

| | | |
|---|---|---|
| Shutter speed priority mode<br><br>**S** | **Image Quality**    **Resolution**    **White Balance**<br><br>**Digital Filter**    **ISO Rating**    **Metering**<br><br>**Focus Area**    **L/R Adjustment** | 19 |
| Manual exposure mode<br><br>**M** | **Image Quality**    **Resolution**    **White Balance**<br><br>**Digital Filter**    **ISO Rating**    **Metering**<br><br>**Focus Area**    **L/R Adjustment** | 19 |
| Playback Mode | **Erase**    **Protection**    **Rotation**<br><br>**Frame Editing**    **Crop Picture**<br><br>**Slide Show**    **Voice Memo**    **DPOF** | 23 |
| Movie and Audio Mode | **Movie Recording**    **Audio Recording** | 26 |

| Setup Mode | Date and Time   Self-timer Option | 27 |
| | Slide show Interval   Audio Value | |
| | Sound Effect   Instant Preview   Rotation | |
| | Auto Power Off   Background Editing | |
| | Languages   TV-Out   Format | |
| | File Number   Restoring | |

## Scene Mode



Turn the dial rotator to the Scene Mode. Press the Menu button to access. Press Up/Down arrow to select the settings. Once you have selected the option, press Left/Right arrow to adjust the setting. Press OK to return to the list of options.

## Scene

Users can select from the following scenes to include in their pictures:Auto/Sport/Landscape/Night/Portrait/Self Portrait/Night Portrait/Sunset/Beach/Back light Autumn/Natural/Sky/Party/Text
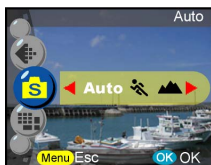
Sport- This is for fast-moving subjects when you want to freeze the action.

Landscape- This is used for wide scenic views. This setting cannot be used under macro setting.

Night- Night scenes. A tripod is recommended when using this setting.

Portrait- This mode blurs the background to focus on the subject.

Self Portrait- Enables you to take a picture of yourself while holding the camera. Point the lens towards you and take a shot.

Night Portrait- This mode is for images taken during twilight or at night. The flash illuminates the subject while a slow sync speed captures a natural exposure of the background. A tripod is recommended when using this setting.

Sunset- To enhance the red hue for taking sunset picture.

Beach- This is for taking beach view with enhanced blue color.

Back light- For taking the picture of back light object by changing metering.

Autumn- This is for foliage views.

Natural- This is suitable for forest or grasslands views.

Sky- This is for sky views.

Party- Enables you to take pictures under a darker environment with different lighting. A tripod is recommended when using this setting.

Text- This mode will project the text by enhancement of the black and white contrast.
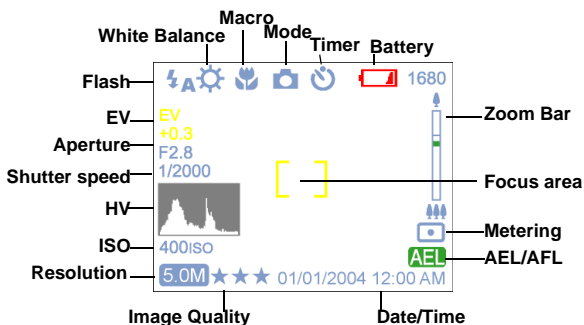
## P.A.S.M. Mode



P.A.S.M. Mode include four modes that are adjustable through the mode dial.

P mode-This mode allows you to take general still pictures. The camera will automatically set the aperture and shutter speed to suit the scene's brightness.

Aperture Priority- The Aperture value that can be selected from F2.8 to F3.41.

Shutter Priority- In this mode, the shutter speed can be select from 1/2000 sec to 16.

Manual- In this mode, you set both the shutter speed and the aperture value.The exposure level can be viewed on the LCD.

## Resolution

This mode allows you to set the record resolution.
10 M (3648 x 2736)
5.0M (2560 x 1920)
3.0M (2048 x 1536)
1.3M (1280 x  960)
VGA  (  640 x  480)

## Image Quality

The widely-used JPEG format is used for image-recording quality set-
ting.Users can select from the following quality:

★★ ★  Best

★ ★  Better

★  Basic
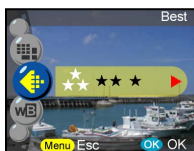
## White Balance

Normally, the "Auto" WB setting will set the optimum white balance auto-
matically.  If natural colors cannot be obtained with auto WB, you can set
the white balance manually to suit the respective light source. Users can
select the following white balance:

**Auto:**Auto

☼  **:**Sun

⌒  **:**Shade

☼  **:**Tungsten

▦  **:**Fluorescent

▨  **:**One-touch WB
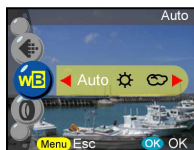
Tip: (Follow these steps for One-touch WB)
1. Press OK to confirm one-touch WB.
2. To set the desired WB press the L/R button to change
the WB value.
3. Take pictures by pressing the shutter button with the
new WB setting.
4. To reset WB again, press "OK" button again.

## Digital Filter

This sets and converts according to the different colors and effects:
Normal/BW/Sepia/Red/Pink/Purple/Blue/Green/Yellow/Solarize
/Negative Artwork

Solarize-This effect creates the impression that the image has been
exposed to light.

Negative Artwork- Having the light and dark parts
opposite to what they were in the original picture.

## ISO Rating

The ISO speed is the sensitivity to light. The higher the ISO speed number, the higher the sensitivity is to light.
Auto
50
100
200
400
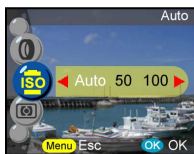
## Metering

This calculates the best overall exposure value. The camera has three
metering modes :

:Matrix

:Center

:Spot

## Focus Area

User can change the crop mark location of LCD display by rotator, it provides a widely focus area setting.
Normal
Set
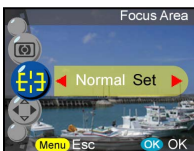
**Tip: (**Follow these steps for Focus Area)
1. The crop mark will be removed once the focus area function is confirmed.
2. Select the desired focus area using the joystick.
3. Press OK to confirm the setting and start taking pictures.
4. Focus area function can proceed after taking shot, users can continue to move the focus area.
5. Press menu again to exit the focus area function.
6. By pressing the ok button, the focus setting will be saved.

## L/R adjustment

For users to define the adjustable parameter of L/R button, once the setting is complete, users can press L/R button to change the value after quitting menu. Here are the 5 parameters:



EV- Exposure compensation is used to alter the camera's standard exposure setting. You can darken or lightness the image. (increased exposure)

Sharpness- Enhances the borders of the subject.

Saturation- Saturation is the degree of color intensity associated with color's perceptual difference from a white, black or gray of equal lightness

Contrast- Exaggerate lightness differences between foreground and background colors

Manual WB- Manually adjusts fine changes to the white balance.

# Playback Mode 🔲

**Protection**
**Playback file type**
**Voice Memo**
**DPOF**
**AWB** | **Zoom**
**EV**
**Aperture**
**Shutter Speed**
**HV**
**ISO** | **File Name**

EV
+0.3
F2.8
1/2000

400iSO    PIC00007
5.0M ★★★ 01/01/2004 12:00 AM

**Image Resolution** **Quality** **Date/Time**
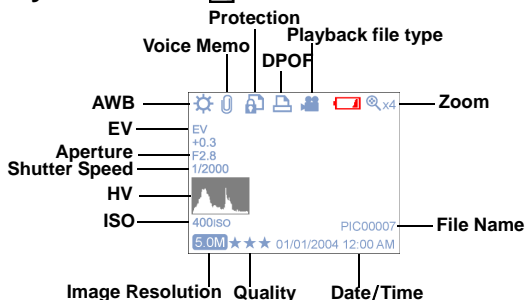
Turn the mode dial to the Playback Mode. Users can view the images by pressing the Left/Right button or press up button to get the image information. To view thumbnails and magnify pictures, press zoom in/out button. Users will be able to set the following functions after entering menu.

**Erase**
User can erase current or all images under this mode. Users can select to erase:
Erase Current
Erase All
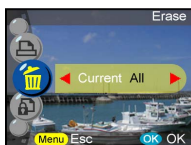
> **Tip:** To immediately delete a picture while reviewing images, press the menu button, select the erase option and press ok.

**Protection**
You can prevent images from accidental erasure.
This function choose to:

🔒 :Protect Current

🔒 :Protect All

🔓 :Unprotect Current

🔓 :Unprotect All
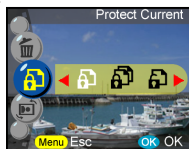
**Rotation**
This function rotates images 90° and 270° clockwise, mirror, or flip the image up.
Normal
90 degree
270 degree
Mirror
Flip up
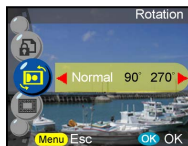
**Frame Editing**
This camera provides 6 frames for image editing. Camera will create a new image with the frame which select by user.

**Crop Picture**
Users can crop images through the desired magnified area.
- Press ok to confirm the image selection and start the modification.
- The navigation arrows will appear on screen.
- Use joystick and zoom button to navigate the image.
- Press ok button to crop.
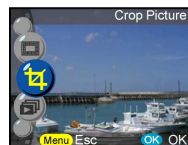
**Tip:**
-Camera will create a new image which cannot be re-cropped.
- Image size will vary according to the cropping

**Slide Show**
Allow user to slide show all images.

> **Tip:**
> --press OK button for interruption.
> - refer to page 28 (slide show internal setting) to the slide show timing setting

**Voice Memo**
This function provides 20 seconds voice memo for still image. Select "Voice Memo" and press OK to start the recording session. A recording bar will indicate how much time is left in the recording session. Press OK to end the recording.
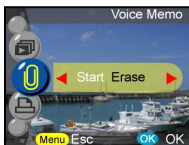
> **Tip:** To view the recorded memo, quit menu and press OK again to enter control bar. Press "erase" to delete any voice memo.

**DPOF**
DPOF is a format used to record automatic print information from cameras. By specifying which pictures are to be printed, the pictures can be printed easily by DPOF-compatible printing service labs or on a personal DPOF-compatible printer. Users can select to print:

Current
All
Reset

# Movie and Audio Mode 🎥 🎤

**Recording mode**

**EV**

**Focus area**

📹 🔋 59:59

EV
+0.3

[ ]

**Zoom bar**

01/01/2004 12:00 AM

**Date/Time**
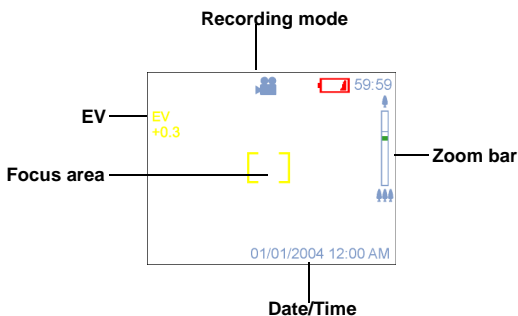
Movie and Audio Mode allows you to use the camera as a movie and audio recorder. Video mode is the default for this mode, press the ok button to enter this mode. Users can switch modes by pressing the menu button. Rotate to the Video/Audio mode.
To record video:
1. Press the shutter to start recording.
2. To stop recording, press the shutter button again.

To record audio:
1. Press the right button, where a audio recording frame will appear on the LCD/EVF.
2. Press the shutter button to start audio recording.
3. To exit audio recording, press the shutter button.

| **Note!** | 1. Flash will not function when shooting movies. 2. Zoom function can not be achieve while recording. 3. Press the self-timer button once to activate the Self-timer. You will have 3 to 10 seconds to get ready after pressing shutter button..The countdown will be displayed on the LCD and followed by a beep sound. 4. The icons can be removed from the display by pressing the up button once. |
|---|---|

## Setup Mode

Turn the mode dial to the Setup Mode. Press the Up/Down button to select the function, press the Left/Right button to choose the desired setting and press OK to confirm.

Users will be able to set the following functions:

**Date and Time**

Reset date and time when change battery. Users can select to set:
Date
Date format
Time
Time format
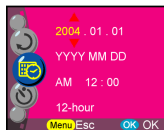
**Self-timer Option**

This function provides users different timer setting. A tripod is highly recommended when operating this function:
3 seconds
10 seconds

**Slide show Interval**

Under this setting, users can set the interval of
seconds they want the slide show to proceed per
slide. Users can select:
3 seconds
5 seconds
10 seconds

**Audio Volume**

Users can adjust the audio value of audio, video
and voice memo functions.:
High
Middle
Low
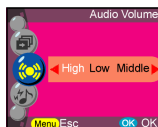
**Sound Effect**

This function allows users to turn the sound effect on
or off:
On
Off
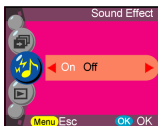
**Instant Review**

Sets the time for the picture to be previewed
right after the picture is taken:
1 second
3 seconds
5 seconds
Off
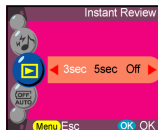
**Image Rotation**

When shooting the picture vertically (over 45 degree) the image can be automatically rotated and display horizontally in playback mode:
1. Automatic (default)
2.Off
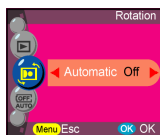
**Auto Power Off**

This setting automatically turns off the camera. Users can select the following minutes to Auto Power Off the camera.
Off
3 minutes
1 minute
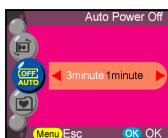
**Tip:** Prior to shutting off, the LCD will shut itself automatically

**Background Editing**

Allows users to select their preferred image or taken photo as background.
Image 1
Image 2
My Photo
Editing
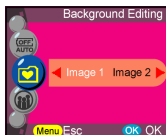
**Tip:** This background will be replaced the default images of welcome page and setup mode background. My photo will retain last set photo. To change new photo, select editing for thumbnails and press OK button to confirm new photo.

**Language**

Users can select from the following languages:
English
German
French
Spanish
Italian
Dutch
Russian
Polish
Japanese
Korean
Simplified Chinese
Traditional Chinese

**TV out**

Depending on where your location, different region requires different system for TV-out function. Connect Video cable for TV out.
NTSC
PAL

**Format**

Formats the internal or external memory. Press OK button to confirm or menu button to escape formatting.
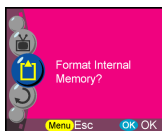
**File Number**

The image count will restore to zero once the pic-
tures in memory been erased under reset condi-
tion. Sets the order of pictures stored in the
camera:
Reset- File number counting from one.
Series- File number counting from serial number.

| File Number |
| --- |
| ◀ Series  Reset ▶ |
| Menu Esc    OK OK |

Tip: This setting will retain until user to change the selection.

**Restoring**

Resets the camera to factory setting.

| |
| --- |
| Restore Factory Setting? |
| Menu Esc    OK OK |

# Making Connections

In this section you will be able to connect the camera to your PC to download or edit photos.

## Installing Software

1.  Insert the CD-ROM into your CD-ROM drive.
2.  Click "Digital Camera Driver" and Install if your operating system is Windows 98. Users can pick 4 selections and press Install (it can all be done at the same time).
3.  The installation wizard will guide you through the installation.
4.  You will be able to use the application once it's installed.



| Caution: | 1. | Driver is for uploading pictures to you computer, if the operation system is Win 98 |
|---|---|---|
| | 2. | If you didn't install the driver before plugging in the USB device. System will detect new device. Please insert the CD-ROM and complete the driver installation. |

# Connecting through the USB

This section will show you how to download images from camera to PC through the USB cable..
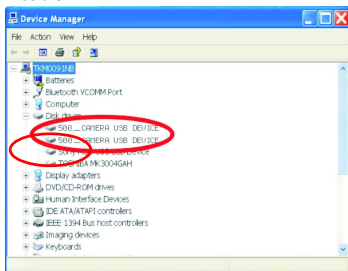


1. This camera allows users to move the images or movies from camera to PC by MISC support.
2. When the camera is connected to your PC, there will be 2 external storage under "My computer" named " 500_CAMERA".
3. Simply click the folder named "1005MDSC", you can find the recorded files.
4. Copy or remove these files from the camera to your PC.  Users can edit these images accordingly.

| | | |
|---|---|---|
| **NOTE:** | 1. | Voice memo files will include three different file format as ".jpg", ".wav" and ".html". Which have the same file name, but format. The recommended format for users (desiring to include their recorded voice memo in their selected pictures) is HTML. |
| | 2. | You may find the recorded files of internal and external memory from 2 external storage respectively. |

# Connecting through AV-out

Before you proceed, please determine your corresponding AV-Out mode. This camera will enable you to achieve full camera functions by AV-out connection. User can enable each function through the TV monitor instead of the LCD display.
1. Connect the video cable into the video out connector.
2. Connect the other end of the video cable into the TV's video-in jack.
3. Turn the camera ON, you should then be able to operate the camera with TV screen. (The LCD/EVF will turn off while connected to AV-out)

## Appendix

**Camera Default Setting**

| | |
|---|---|
| **Scene Mode** | Auto |
| **Movie Mode** | Video |
| **Resolution** | 5M (2560 x 1920) |
| **Image Quality** | *** |
| **White Balance** | Auto |
| **Digital Filter** | Color |
| **ISO** | 100 |
| **Metering** | Matrix |
| **Sharpness** | Middle |
| **Date and Time** | 2004/1/1 |
| **Self-timer Option** | 10 seconds |
| **Slide Show Interval** | 3 seconds |
| **Audio Volume** | Middle |
| **Sound Effect** | Off |
| **Instant Review** | Off |
| **Image rotation** | **automatic** |
| **Auto Power Off** | 1 minute |
| **Display** | LCD panel  on |
| **Background Editing** | Image 1 |
| **Language** | English |
| **TV Out** | NTSC |
| **File Number** | Series |

**LED Status**

| Camera Condition | Status LED | AF/Timer LED | LED Behavior |
|---|---|---|---|
| Power off | Off | Off | - |
| Standby | Green | Off | "Green" LED will be truned off when snap, LED will be lighted again when ready for moving. |
| Strobe charging | Orange (Flicker) | Off | When recharging, "Orange" LED will be flickered and turned to "Green" when charging ready. |
| Processing | Green (Flicker) | Off | Processing are meant that "Green" LED will be flicker under AF process and saving image. |
| Warning/ Error | Red (Flicker) | Off | If error, then LED will be changed from "Green" to "Red" flicker. The "Red" LED will stop flicker and turn to "Green" after one sec. |
| Out of focus | Red (Flicker) | Off | If error, then LED will be changed from "Green" to "Red" flicker. The "Red" LED will stop flicker and turn to "Green" after one sec. |

| Battery low | Red (Flicker) | Off | Note: The "Red" LED will keep flickering in battery low condition. |
|---|---|---|---|
| USB plug in | Green | Off | " Green" LED will be off and turn on again when USB plug-in ready. |
| TV-out | Green | Off | " Green" LED will be off and turn on again when TV out connecting ready. |
| Self-timer | Green | Red (Flicker) | "Timer" LED will be flicker with count-down second. |
| Auto focus | Green | Off | Press S1, "Green" LED will be flickered till AF successful. If NG, then LED will be turned to "Red" and releasing button for normal. (" Green") |
| Video/Audio recording | Red (Slow Flicker) | Red (slow Flicker) | When recording video/audio, the "Red" LED will be flicker slowly. |

**Information Code**

| Error | Possible Cause | Corrective Action |
|---|---|---|
| Card Full | No more pictures can be stored | Remove the pictures or insert another card |

| Write-Protect | Card has been protected | To remove write-protect latch of card |
|---|---|---|
| Card Error | Cannot record, playback or erase pictures on this card | To format this card or replace another card |
| Picture Error | This recorded picture cannot be playback with camera | To view the image through PC. If it cannot be done, the picture is damaged |
| No picture | There's no image in storage, so there's nothing in playback | To take pictures or insert another card with images |
| Card Setup | This card is not formatted | To format this card before using |
| Battery Empty | Battery low for taking pictures | Installing new or charged batteries |

**Specifications**

| Features | Content |
|---|---|
| Max. Resolution | 3648 x 2736 |
| Still Image Size | 10 M (3648 x 2736)<br>5.0M (2560 x 1920)<br>3.0M (2048 x 1536)<br>1.3M (1280 x 960)<br>VGA (640 x 480) |
| Image Sensor | CCD |
| Sensitivity equivalent | ISO Auto, 50, 100, 200, 400 |
| Lens Aperture | Wide : F2.8 to F5.58<br>Tele : F3.41 to 6.82 |

| | |
|---|---|
| Optical Zoom | 8x optical zoom |
| Digital Zoom | Up to 4x digital zoom |
| Viewfinder | Electronic Viewfinder (color) Dioptre adjustment |
| Shutter speed | 16 sec ~ 1/2000 sec. |
| Internal Memory | 16MB NAND |
| Estimated number of storable pictures | 10 M (3648 x 2736): 5 pictures 5.0M (2560 x 1920): 10 pictures 3.0M (2048 x 1536): 16 picures 1.3M (1280 x 960): 42 picures VGA ( 640 x 480): 149 picures |
| Storage media | SD/MMC |
| Focus distance | 50cm ~ infinity |
| Macro | 20 ~50 cm |
| Video/Audio Clip | 320 x240, 30pfs, no limit |
| Continuous shot | 3 shots / sec |
| Rotate | Rotates the still image 90 degree. (anti-clockwise or clock-wise) |
| Self-timer | 3 or 10 sec. self-timer |
| Compatibility | WIN98/ME/2000/XP MAC 9.1 and above |
| File Format | MPEG4/JPEG/EXIF 2.2/DPOF |
| Dimension | 111 (W) x 70(H) x 105 (D) mm |

| Flash | Pop-up<br>range: 3 -10 feet<br>Modes: Force off / Auto Red eye reduction / Force / Slow |
|---|---|
| USB Output | B type mini USB 2.0 full speed |
| Video Output | NTSC/PAL |
| Battery type | AA Alkaline, Ni-MH, Ni-Cd, CR-V3 and RCR-V3 |
| DC-in | 6.0V 2.0A |
| LCD | 1.6" TFT, 354 x 240 |
| Playback Zoom | Up to 8x |
| USB storage class support | MSDC |
| Multiple languages | E/F/G/I/S/D/R/P/TC/SC/K/J |
| Tripod mount | Metal |
| Body material | Plastic |

**Accessories**

| User manual | A/V connecting cable |
|---|---|
| CD-ROM | Shoulder strap |
| AA alkaline batteries | Lens cap |
| USB cable | Lens cap strap |