

# Preface

Thank you for purchasing this camera. This camera will help you to fulfill all your digital picture processing needs.

The camera is equipped with five modes (Capture Mode, Playback Mode, DSC Setup Mode, Video Mode, and Macro Mode) for your exploration.

This light and handy digital camera offers 4.23 mega pixels high-quality image along with precise 12 x zoom (3 x optical plus 4 x digital) The built-in 16MB memory can store your images. The stylish metallic case is crafted from aluminum alloy, making this camera light and portable. Through a USB cable connection, pictures can be easily transmitted from the camera to the PC. Nine recorded images can be displayed on the high resolution LCD. Continuous shooting function is also available for users to take multiple frames of scenes in quick succession.

**Note:**

1. *The company keeps the right to change the contents of this document, spec of this camera in the future, without prior notice.*

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# Prior to Operating the Camera

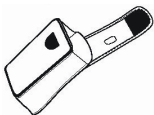
Set this digital camera by following these quick and simple instructions.

## 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:



**Camera**



**Pouch**



**Handstrap**



**CD-ROM**



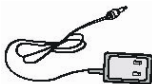
**Video Cable**



**Mini USB Cable**



**Battery**

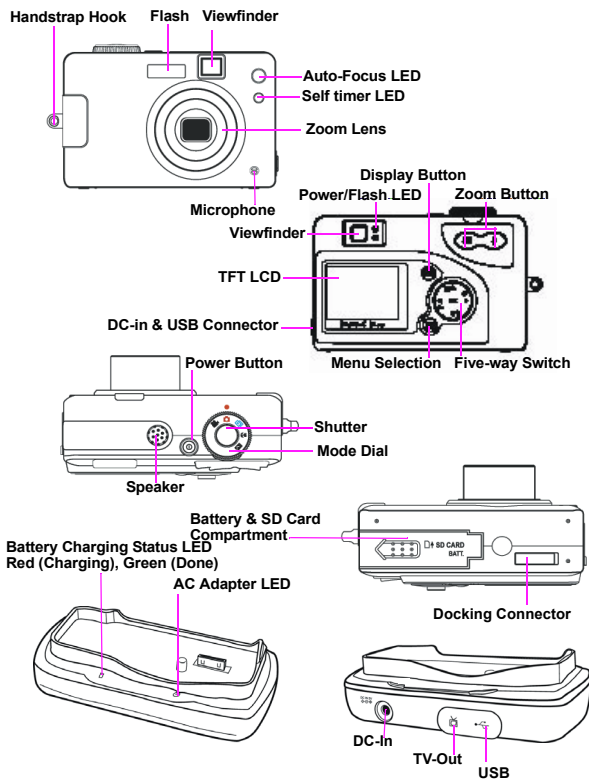


**AC Adapter**



**Docking Station**

# Identifying components



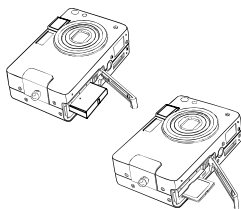
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## CAUTION!





1. Use the rechargeable Li-ion for docking only. Do not use non-rechargeable batteries while docking.
2. Use only the specified battery or AC power adapter specified (5V 2A) for use with this camera. Other power sources may cause fire.

## Loading the battery and SD Card

This camera uses a Li-ion battery. The battery and SD card share the same compartment and door.



1. Slide the battery/SD Card cover in the direction of the arrow, then lift to open.
2. Load the included battery in the compartment.
3. Insert the SD card into the slot.
4. Close the cover.

Battery Power Status	
Full	
Middle	
Low	
Empty	

### CAUTION!

1. Fully charge the battery before its first use.
2. Use the rechargeable Li-ion battery for docking.
3. To improve battery performance, replace installed battery at the same time and keep away from heat.
4. To discard battery, refer to the index of the battery manufacturer.
5. Battery should be inserted in the battery compartment with the "+" and "-" sides facing correctly.
6. For alternative power source, the optional AC-Adapter kit is available.

- NOTE:**
1. Upon loading new battery, users will need to reset their Basic Settings
  2. Do not open the battery/SD card cover or remove the battery when the camera is in its ON status. Only remove the battery and SD card when the camera is not in use, or in its OFF status.
  3. If you do not plan on using the camera for a long period of time, please remove the battery and SD card.
  4. Battery charges through the charger or docking station.
  5. Camera will draw power from DC-in when used with the AC-Adapter

## Basic Settings

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

### Language Preference Setting

EN

1. There are a total of nine languages to choose from to interact with this camera. English will be the default language. Please refer to DSC Setup Mode. (Page 18)

### Date and Time Setting

1. Please refer to the Date and Time setting under DSC Setup Mode. (Page 17)

## Formatting the Internal Memory and 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 Playback Mode.
2. Press the Menu button to enter Playback menu setting to select "Erase" and then "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.
5. Push the Menu button to exit Playback menu setting.

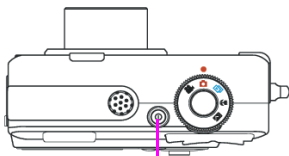
As a result, once you withdraw the SD Card from the camera, the LCD display will show the following message for confirmation: "Format internal memory?" Then, press OK button to complete formatting internal memory.

# 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, zoom In and Out, set your flash, and playback your pictures.

## Turning the Camera ON/OFF

1. Locate the power button on top of the camera.
2. Press the power button down to turn the camera ON or OFF.

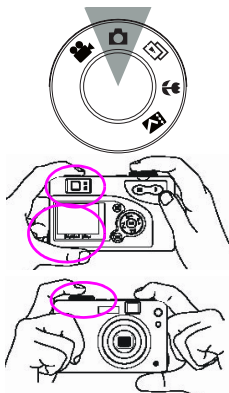


**Power ON/OFF Button**

The backside LED indicator will remain green while the power is turned ON

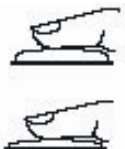
## Basic Shooting

1. Turn the mode dial to the capture mode
2. Look into the viewfinder/LCD and try to align your subject in the crop mark.
3. When you are set, press the shutter button once.



## Auto-Focus Function

Under Auto-Focus, the camera lens focuses automatically when the shutter release is pressed halfway. To activate Auto-Focus, please follow these steps:



1. Crop mark is white in normal situation. Press the shutter halfway to activate auto focus. Crop mark turns green when focused. If fail, crop mark is red.

2. Then, fully press the shutter button to take the picture.

## Zooming In/Out

This camera has 3 x optical zoom and 4 x digital zoom. The zoom bar located on the left 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 would be 5 levels of optical zoom magnifications (f0~f6), from W(Wide) to T(Tele) of zoom bar; The zoom lens can automatically protrude and retract. Then, if you keep pressing the zoom button, there are additional 8 levels of optical zoom magnification (0.5x/each), from T(tele)to 4x (4x Digital Zoom) of zoom bar. Users can see the result on the 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.
2. The picture can be zoomed in up to four times the original size, 12 times from its original size.

Resolution	Digital Zoom
5.5M	x 1
4.0M	x 4
2.0M	x 4
1.3M	x 4
VGA	x 4

## Flash Setting

Please Refer to CAPTURE MODE, page 12.




## Playback


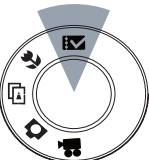
Please Refer back to PLAYBACK Mode, page 16



# Five Main Camera Modes and Instructions

This section describes the five modes included in this camera. An in-depth coverage of these modes will be further described. Here are the five main functions of this camera:

Camera Mode	Function Setting	Page
<b>Video Mode</b>  A circular camera mode dial with a blue wedge pointing to the top. The wedge contains a video camera icon. Other icons around the dial include a gear, a document, a person, and a checkmark.	1. Record Movies	Page 9
<b>Capture Mode</b>  A circular camera mode dial with a blue wedge pointing to the top. The wedge contains a still camera icon. Other icons around the dial include a video camera, a document, a person, and a checkmark.	1. Resolution 2. Image Quality 3. Color Effect 4. White Balance 5. Scene 6. Metering 7. Sharpness 8. EV Adjust 9. ISO	Page 10
<b>Playback Mode</b>  A circular camera mode dial with a blue wedge pointing to the top. The wedge contains a document icon. Other icons around the dial include a video camera, a gear, a person, and a checkmark.	1. Erase Picture 2. Protect Picture 3. DPOF 4. Slide Show 5. Voice Memo	Page 14

<b>Macro Mode</b> 	<ol style="list-style-type: none"> <li>1. Resolution</li> <li>2. Image Quality</li> <li>3. Color Effect</li> <li>4. White Balance</li> <li>5. Scene</li> <li>6. Metering</li> <li>7. Sharpness</li> <li>8. EV Adjust</li> <li>9. ISO</li> </ol>	Page 16
<b>DSC Setup Mode</b> 	<ol style="list-style-type: none"> <li>1. Date and Time</li> <li>2. Auto Power Off</li> <li>3. DPOF</li> <li>4. Slide Show</li> <li>5. Sound Effect</li> <li>6. Languages</li> <li>7. TV-out</li> <li>8. Restoring</li> </ol>	Page 17

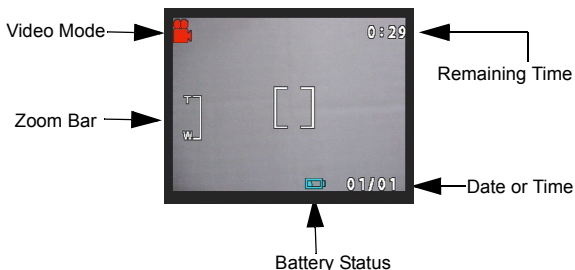
EN

**NOTE:**

1. Press the display button once to delete the icons from the LCD display. To turn the LCD display simply press the display button a second time. To save your battery power, it is best to not leave your display ON for a long period of time.

## Video Mode

Video Mode allows you to use the camera as a movie recorder, and set the self-timer for recording purpose. The length is based on the capacity of your SD card and internal memory. Users can still achieve optical zoom function before actual recording is being made. Optical zoom or digital zoom will not be allowed under recording.

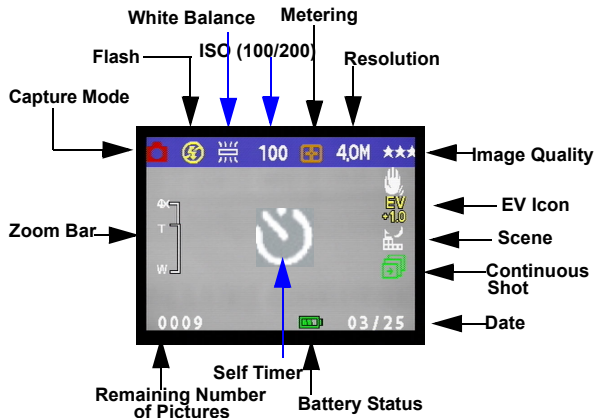


**\* The icons can be removed from the display by pressing the menu button once.**

1. Turn the Mode Dial to the Video Mode
2. To start recording a movie, press the shutter button. The camera will start checking whether the memory is sufficient to record a movie. If the memory is full, a warning sign will display on the LCD, and will automatically exit the movie recording state.
3. If there are no warning messages with memory problems, the camera will start recording itself. To stop recording, press the shutter button again.
4. To set the self timer under the video mode, press the right button once to activate the self timer. You will have ten seconds to get ready. The countdown will be displayed on the LCD and followed by a beep sound.

## Capture Mode

Capture mode will allow you to shoot single, continuous images, set your flash and self-timer. Depending on the environment and setting, the camera's settings will work accordingly. To exit the setting menu, simply press the menu button.



\* The icons can be removed from the display by pressing the display button.





\*\* To turn off the LCD, press the display button three times.

### • Shooting images

1. Under Capture Mode, press the shutter button. The camera will start checking whether the memory is sufficient to store the image. If it is full, a warning "Memory Full" icon will display on the LCD.
2. Once the picture is taken, you can erase the image under instant review by pressing ok and the user can protect image when in playback mode
3. If you decide to erase this image, press down. An erase icon will appear on the LCD, press OK to achieve this function.

## • FLASH Setting

1. To set the Flash, press the Five-Way Switch to the Left to select the desired Flash setting. You will have the four types of Flash settings: Flash Off, Auto Red-eye reduction, Flash Force On, and Night. Once you've set your Flash setting, proceed with your picture taking.

Flash Off		The Flash will not fire.
Auto Red-eye reduction		The Flash will fire depending on the light source. Red eye deduction will also be active when needed. (Flash will blink twice, picture will be shot when the second flash is fired.)
Flash Force On		The Flash always fires with every shot.
Night (Slow)		The camera extends the mechanical shutter action, and allows flash delay.

## • Self Timer

To set the self timer under the capture mode, please press Five-Way Switch to the Right button once to activate the self timer. You will have ten seconds to get ready for your pose. The countdown number will be displayed on the LCD as well followed by a beep sound.

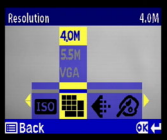
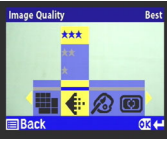
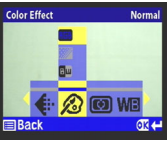
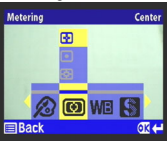
## • Shooting Continuously Setting

Pictures can be shoot in successive orders.

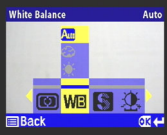
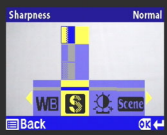
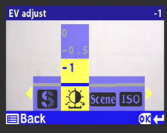

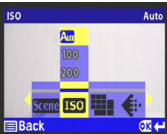
1. Keep pressing the right button twice until Shooting Continuously icon appears on the LCD Display.
2. Keep pressing the shutter button to activate Shooting Continuously. Then release the shutter after the three sequences have been taken.

## Capture Mode Setup

1. To enter/exit Capture Mode Setup, press the menu button.
2. Once you are in the Capture Mode Setup, you will be able to adjust the following settings.
3. To select each individual function settings, press the UP or DOWN arrow.

Function	Selection	Definition
<b>Resolution</b> 	<p>Users can select from the following resolution:</p> <p>VGA 1.3M 2.0M 4.0M (Default) 5.5M</p>	<p>The size of the picture. The default size is 4.0 M, but users will have the option of choosing VGA 1.3 M, 2.0M, 4.0M or 5.5 M</p>
<b>Image Quality</b> 	<p>Users can select from the following quality:</p> <p>Best (Default) Better Basic.</p>	<p>The quality of the picture. The default is Best.</p>
<b>Color Effect</b> 	<p>User can select from the following color tones:</p> <p>Normal (Default) Sepia Black and white</p>	<p>It is the tone that will be applied in the picture. The default is Normal.</p>
<b>Metering</b> 	<p>Users can select from the following metering:</p> <p>Center (Default) Spot Matrix</p>	<p>It calculates the best overall exposure value. The default is Center.</p>

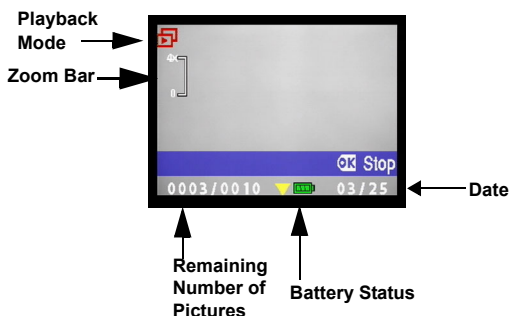
EN

<p>White Balance</p> 	<p>Users can select the following white balance:</p> <p>Auto (Default) Shade Sun Tungsten Fluorescent</p>	<p>It adjusts the relative brightness under different condition. The default is Auto.</p>
<p>Sharpness</p> 	<p>Users can select the following sharpness:</p> <p>Normal (Default) High Low</p>	<p>Enhance of edge detail. The default is Normal.</p>
<p>EV Adjust</p> 	<p>Users can select the following EV adjust: from EV+2.0~ toEV -2.0, in EV 0.5 step increase</p>	<p>This function allows users to control the exposure value, to either lighten or darken images the camera is trying to focus. The default is 0.</p>
<p>Scene</p> 	<p>Users can select the following scene:</p> <p>Night Portrait Landscape Night Portrait Off</p>	<p>This pre-defined settings make it even more convenient for users to take pictures. Users will not need to make any further adjustment to the camera. The scenes are already pre-defined.</p>
<p>ISO</p> 	<p>Users can select the following ISO setting:</p> <p>100 200 Auto (Default)</p>	<p>It adjusts the sensitivity of the camera. The higher the number, the more sensitive it is to light. The default is Auto.</p>

Resolution (with 16 MB SD Card)	Storage Mode
2720 x 2040 (5.5M)	8 pictures
2304 x 1728 (4.0M)	10 pictures
1600 x 1200 (2.0M)	20 pictures
1280 x 960 (1.3M)	35 pictures
640 x 480 (VGA)	140 pictures

## Playback Mode

This mode will allow you to replay/view your images or video. It can also protect your desired images, set DPOF, slide show and voice memo.



\* The icon information can be removed by pressing the menu button once

\*\* Thumbnail can be viewed after pressing the display button twice.



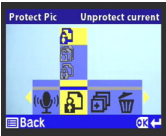
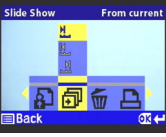
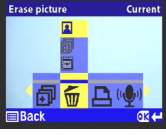
- **Displaying Thumbnails**

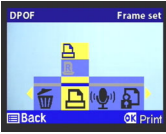
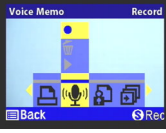
1. Turn the Mode Dial to Playback Mode.
2. Press the display button twice to activate thumbnails in sets of nine.
3. Use the Five-Way Switch to change the image selection.
4. Press OK button to magnify images to standard size.
5. Press the left or right button to view other images.

- **Display with Digital Zoom**

The camera has 4x digital zoom. The picture can be zoomed up to four times the original size. The five-way switch controls left, right, up, and down of the image. Press the OK button to quit Digital Zoom Display.

1. Turn the MODE DIAL to Playback Mode.
2. To enter/exit Playback Mode Setup, press the Menu button.
3. While you are in the Playback Mode menu setting, use the Five-Way Switch to select.

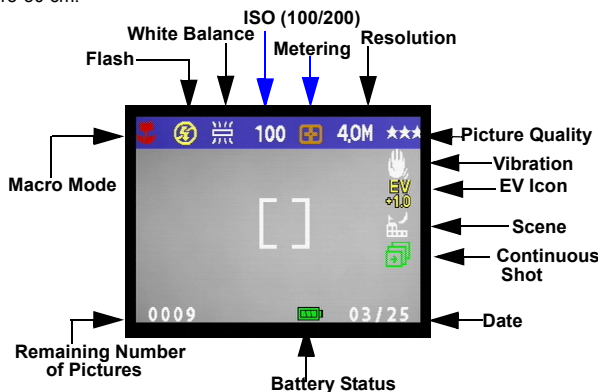
Function Setting	Selection	Definition
<b>Protect Picture</b> 	Users can select the following: Protect all Unprotect current Unprotect all Protect current	Protection setting for your pictures against accidental erasure. Once you are set, press OK to confirm.
<b>Slide Show</b> 	Users can select from: From current (picture) From first (picture) From last (picture)	Pictures will be displayed in an orderly way. While you are in the Slide Show setting, press OK to start/exit slide show.
<b>Erase Pictures</b> 	Users can select from: Current All Format	Erasing options for your pictures. When formatting, a warning message will appear. Press the OK button to confirm. Format will permanently remove all data such as internal memory/ SD card.

<p>Digital Print Order Format or DPOF</p> 	<p>Users can select from:</p> <p>Frame Set Reset all</p>	<p>It is a standard for printing the pictures directly from the SD card. Pictures can be printed on printers compatible with the DPOF standard.</p> <p>frame set --&gt; set for one image reset all --&gt; set for all</p>
<p>Voice Memo</p> 	<p>You are allowed 20 seconds to record voice memo. Users can select from:</p> <p>Record Erase Play</p>	<ol style="list-style-type: none"> <li>1. Select the picture you wish to add voice memo.</li> <li>2. Press menu button.</li> <li>3. Choose Voice Memo.</li> <li>4. Select record</li> <li>4. Press the shutter to start or end recording.</li> </ol>

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## Macro Mode

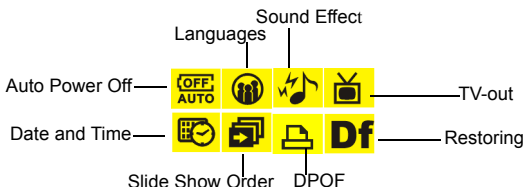
Macro mode is best used for taking close-up images with franges from 15-50 cm.



Please refer back to Capture Mode section (page 11) for shooting images, and continuous shooting.


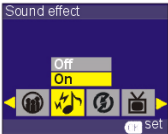


## DSC SETUP MODE


Under this mode, you will be able to set your desired settings. There are a total of eight different settings.



1. Turn the mode dial to enter the DSC Setup Mode.
2. Select the type of setup you want to perform by pushing the left or right button. Press the UP or Down arrow to select the function setting.

Function Setting	Selection	Definition
<b>Date and Time</b> 	Users can select to set:  Time:hh/mm(AM/PM) Date:yyyy/mm/dd	Reset date and time when change battery.
<b>Auto Power Off</b> 	Users can select the following minutes to Auto Power Off the camera.  5min 3min 1min never	This setting automatically turns off the camera. (Prior to shutting off, the LCD will shut itself automatically)
<b>DPOF</b> 	Users can select the number of copies of images they want to print, and whether turn the date and the no. of files on or off in the picture.	It is a standard for printing the pictures directly from the SD card. Pictures can be printed on printers compatible with the SD card. Users can set certain pictures to DPOF.

<p><b>Slide Show</b></p>  <p>The 'Slide show order' menu shows options for Interval (1 Sec), Repeat (OFF), and Direction (Forward). Navigation icons for back, forward, and other functions are at the bottom.</p>	<p>Users can select the:</p> <p>Interval Repeat Direction</p>	<p>Under this setting, users can set the number of seconds they want the slide show to proceed per slide, repeat the show or not, and the direction where these slides should proceed.</p>
<p><b>Sound Effect</b></p>  <p>The 'Sound effect' menu shows 'Off' and 'On' options. Navigation icons are at the bottom.</p>	<p>Users can select either on or off</p>	<p>This function allows users to turn the sound ON or OFF.</p>
<p><b>Languages</b></p>  <p>The 'Language' menu shows a list of languages: English, Deutsch, Français, and others. Navigation icons are at the bottom.</p>	<p>Users can select from the following languages:</p> <p>Deutsch English French Italian Japanese Korean Spanish Simplified Chinese Traditional Chinese</p>	<p>There are a total of nine languages you can choose to navigate this camera. Camera will keep your language setting but users will need to reset when change battery. Press the Up or Down button to select. Press OK to confirm.</p>
<p><b>TV-Out</b></p>  <p>The 'TV out mode' menu shows 'PAL' and 'NTSC' options. Navigation icons are at the bottom.</p>	<p>Users can select from:</p> <p>NTSC PAL</p>	<p>Depending on where your location is, different regions require different systems for TV-out function. Please use the docking station to set the TV-Out. Press the Up or Down button to select. Press OK to confirm.</p>

<p>Restoring</p> 	<p>Reset back to default.</p>	<p>To revert the setting back to the default setting. Press the OK if you want to, if not, press the "right" or "left" button to continue next setting. When restoring is completed, "done" will appear on the LCD.</p>
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# Making Connections

In this section you will be able to connect the camera to your PC to download or edit photos. The docking station can also be used for TV out and to charge battery.

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

## Connecting through the mini USB

Both camera and docking station have mini USB port. Transferring images and video clips (movies) can be realized through these two ways. This section will show you how to download images from camera to PC through mini USB cable. While the station is connected through an USB port, it will download pictures and video clips from the camera to the PC.

## A. Editing with ArcSoft

1. Turn the computer ON.
2. Connect the camera and the computer with the USB port cable.
3. Turn the camera ON.
4. Launch Photo Impression (the inclusive software which you have downloaded from the CD-ROM.)
5. Select "from folder", you can find your camera as a new disk to upload your images to edit.
6. Shortly follow the prompts and you will start downloading your pictures to the computer..



## B. Accessing images through your PC

If users decide not to download images with the application software, the pictures or videos can still be located under "My Computer." Before downloading images from camera to your PC, please make sure the camera is in DSC mode. ( Please refer back to DSC Setup Mode, under page 17)

1. This camera allows users to move the images or movies from camera to PC by MSDC support.
2. When the camera is connected to your PC, there will be an external storage under "My computer" named "400\_CAMERA".
3. Simply click the folder named "1004MDSC", where you can find the images or movies you have taken.
4. Copy or remove these files from camera to your PC. You can start to edit the images according to your desire.

### NOTE:

1. Once the pictures are downloaded into the computer, they will be available in three different formats : JPEG, WAV, and HTML. The recommended format for users (desiring to include their recorded voice memo in their selected pictures) is HTML.

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## Connecting through TV-out via docking station (optional)

Before you proceed, please determine your corresponding TV-Out mode. This camera will allow you to achieve full camera functions by TV-out connection. The user can operate each function through the TV monitor instead of the LCD display.

1. Connect the video cable with the docking station's video out connector.
2. Connect the other end of the video cable with 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 will turn off while connected to TV-out)

## Recharging through the docking station (optional)

The optional docking station will serve as a battery charger. Before you proceed in charging the battery with the docking station, please make sure that the battery is compatible. When you dock the camera into the docking station, the camera will automatically turn OFF. The docking station will detect the battery status. If the battery is in its low state, docking will start charging by drawing the DC-in power. The red LED will change to the green LED when the battery is fully charged.

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While the station is connected through an USB port, it will download pictures and video clips from the camera to the PC.




# APPENDIX

## Specifications

Features	Content
Effective pixels	4.23M sensor, scale up to 5.5M
Removable storage card	SD/MMC
Internal memory	16MB NAND Flash Memory
Estimated number of storable pictures	Compression ratio@ 1 : 8, 16MB SD card
	5.5M: 8 pictures
	4.0M: 10 pictures
	2.0M: 20 pictures
	1.3M: 35 pictures
	VGA: 140 pictures
Video mode display	QVGA @15~20fps
Lens	3X Optical Zoom Lens, F2.8-4.8
Focus/ Shooting distance	Macro: 15~50 cm
	Normal: 50cm~ infinity
Digital zoom	4x digital zoom
View finder	Virtual image viewfinder
Flash mode	Flash Off/Auto Red Eye Reduction/ Flash Force On/ Night

<b>LCD monitor</b>	1.6" TFT LCD, 80,000 pixel and above
<b>Camera Interface</b>	Mini USB/DC-in
<b>Multiple language UI</b>	English/French/German/Italian/Spanish/ Japanese/Traditional and Simplified Chinese/ Korean
<b>Compatible Battery</b>	Li-ion battery
<b>Battery Level</b>	High/ Middle/ Low/ Empty
<b>AC Adapter (optional)</b>	5 V 2A
<b>Docking interface (Optional)</b>	Mini USB/ TV Out(through docking)/DC In(through docking)"
<b>Dimension (WxHxD)</b>	96 x 61 x 32 (mm)
<b>Weight</b>	185 (g) without battery
<b>System requirements</b>	
<b>Windows</b>	Win98, WinME, Win2000, WinXP
<b>Macintosh</b>	Mac 9.1 and above



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