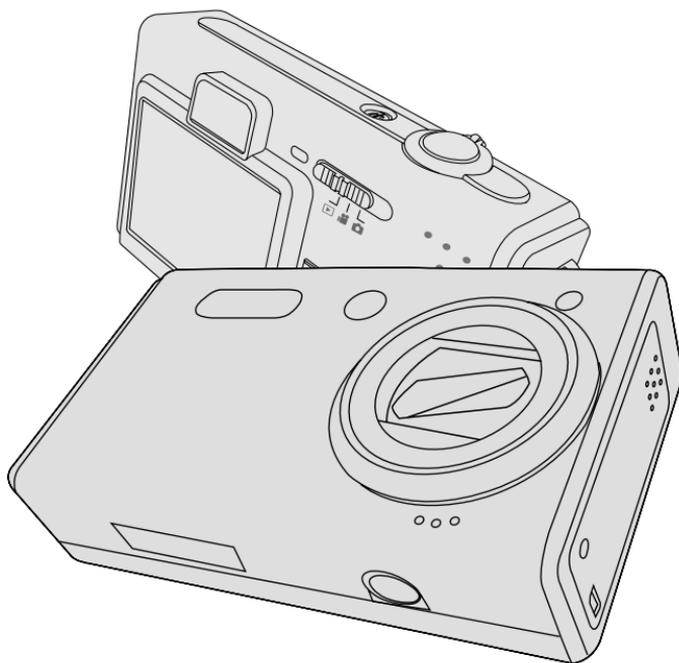


# *Lumicron*

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## **LDC-828Z3** *Digital Camera* *User Guide*



<http://www.lumicron.net>



# Read First

## ■ Warnings & Cautions

Before using the camera, please make sure that you read and understand all the following safety precautions. Always ensure that the camera is operated correctly. The safety precautions will instruct you in the safe and correct operation of the camera and its accessories, preventing injury or damage to yourself, other persons and equipment.

In the following pages, the term "equipment" refers mainly to the camera and its power supply accessories.



### WARNINGS

To prevent possible injury, please observe the following warnings when using this product.

- **Do not aim the viewfinder at the sun or other intense light.**

Aiming at the sun through the viewfinder could damage your eyesight.

- **Do not use the flash too close to eyes**

Using the flash too close to your subject's eyes can damage the eyesight. Especially, remain at least one meter (39 inches) away from infants when you use the flash.

- **Do not place camera strap around neck**

The strap could cause suffocation when accidentally wound around neck.

- **Do not open or disassemble**

Disassembling the equipment may cause high-voltage electric shock. Interior inspections, modifications and repairs should be conducted by qualified service staff. Please take the product to an authorized service center for inspection.

---

- **Turn off immediately when if malfunction occurs**

If you notice unusual smell or smoke coming from the equipment, please unplug the AC adaptor and remove the battery immediately. Proceed swiftly but with caution to avoid being burnt. Take the equipment to an authorized service center for inspection.

- **Unplug the adaptor when the camera is not in use**

If you use the adaptor as the power source, unplug the adaptor when the camera is not in use to prevent fire and other dangers. Continuous use over a period of time may lead to overheating, deformation and fire.

## **Battery**

Observe the following instructions when handling the battery used in this product. Improper use of battery may lead to leakage or explosion.

- Recharge only Li-ion rechargeable batteries. Recharging batteries that are not rechargeable may lead to leakage or explosion.
- Check battery polarity before inserting. Do not attempt to insert the battery upside down or backward.
- Do not disassemble or short circuit the battery.
- Do not expose battery to fire or excessive heat.
- Do not immerse or contact with water or other liquids.
- Stop using the battery immediately if you notice any deformation or changes in color.
- Do not put the batteries together with metal objects such as coins, keys or hairpins in your pocket.
- Keep battery out of the reach of children. Seek medical attention right away if a child swallows a battery.

 **CAUTIONS**

Observe and exercise the following cautions to avoid damage and keep your camera in an optimum working status.

- **Keep Dry**

This camera is not waterproof, and may malfunction if immersed in water, or any liquids enter the interior of the camera

- **Keep away from Moisture, Salt or Dust**

Wipe off salt or dust with a slightly dampened soft cloth after using your camera at the beach or seaside, then, dry your camera thoroughly.

- **Keep away from Strong Magnetic Fields**

Never put the camera too close to any equipment producing strong electromagnetic fields, such as electric motor. Strong electromagnetic fields could lead to camera malfunctions or interfere with the data recording.

- **Avoid Intense Heat**

Do not use or store the equipment under sunlight or high temperatures. Such exposure could lead to the leakage of the batteries or deformation of the casing.

- **Avoid rapid temperature changes**

Rapidly moving the equipment between hot and cold temperatures may cause water droplets to form on its exterior and interior. To prevent condensation, place the equipment in its carry case or a plastic bag before exposing it to a rapid temperature change.

- **Do not drop**

Strong shock or vibration of dropping could cause malfunction. Keep the strap around your wrist when carrying the camera.

- **Do not unplug or remove the battery when processing data**

When image data is being recorded or deleted from memory cards, cutting off power could result in data loss or damage the internal circuitry or memory.

- **Handle the lens and all moving parts with care**

Do not touch the lens or lens barrel. Be careful in handling the memory card and battery. These parts are not designed to withstand force greater than regular use.

- **Battery**

In low temperature circumstances, the battery's capacity may decrease significantly due to the inactive chemical reaction. When taking pictures in cold weather, keep a warm backup battery on hand.

Should the battery terminals become dirty, wipe them with a dry, clean cloth or use an eraser to remove the stains.

- **Memory cards**

Turn off the power before inserting or removing the memory card. Otherwise, the memory card could become unstable.

Memory cards may get hot during use, remove memory card from the camera with care.



Digital Camera  
LDC-828Z3

 Tested To Comply  
With FCC Standards  
FOR HOME OR OFFICE USE

This mark on your camera certifies that this camera meets the requirements of the EU (European Union) concerning interference causing equipment regulations. CE stands for Conformité Européenne (European Conformity).

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.

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

Do not remove the ferrite cores from the cables.

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# **Unpacking the Camera**

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**Digital camera**

**Rechargeable Li-ion Battery**

**Pouch**

**Wrist Strap**

**Video/USB combo cable**

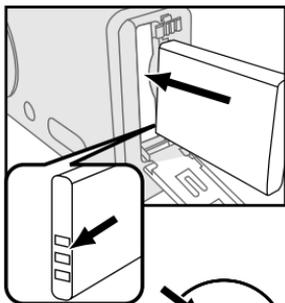
**Quick Start Guide**

**Driver Software CD-ROM**

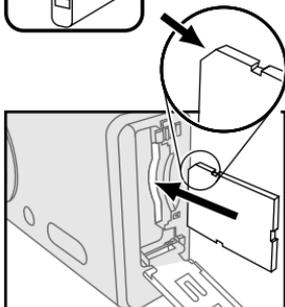
**Warranty card**

**AC adapter**

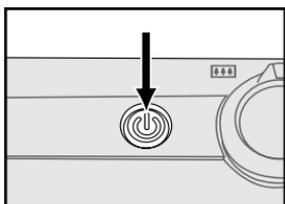
# Quick Start



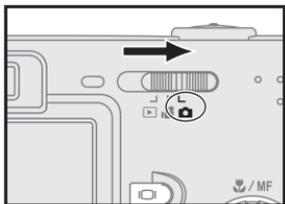
**1** Insert a Li-ion battery. See page 17.



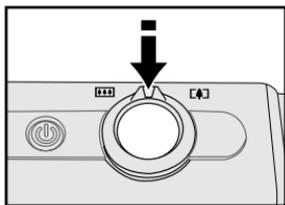
**2** Insert a SD memory card. See page 17.



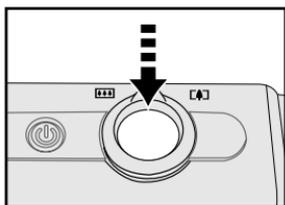
**3** Turn on the camera. See page 18.



**4** Slide the mode switch to  and frame your subjects with the viewfinder or the LCD monitor.



**5** Slightly press the shutter release button half-way down and hold it to set the focus and exposure.

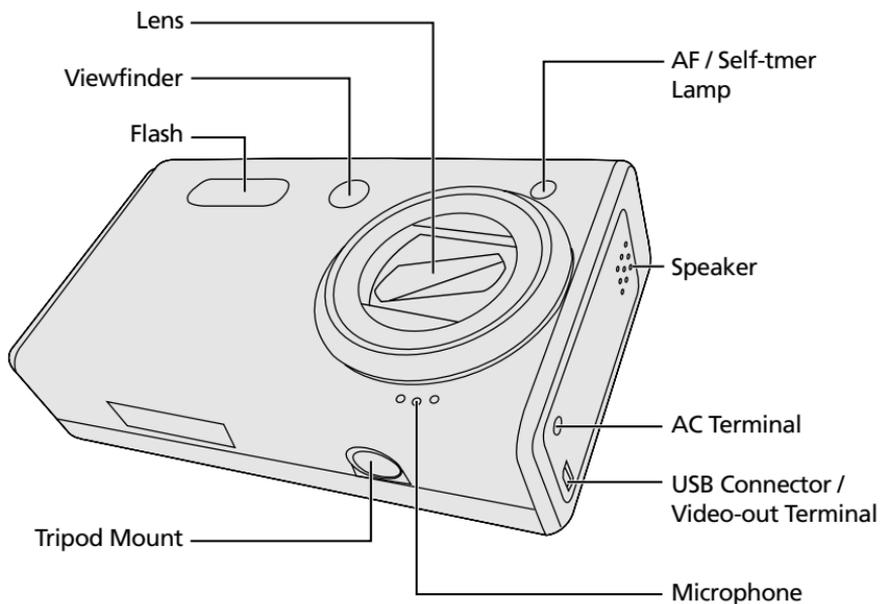


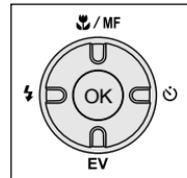
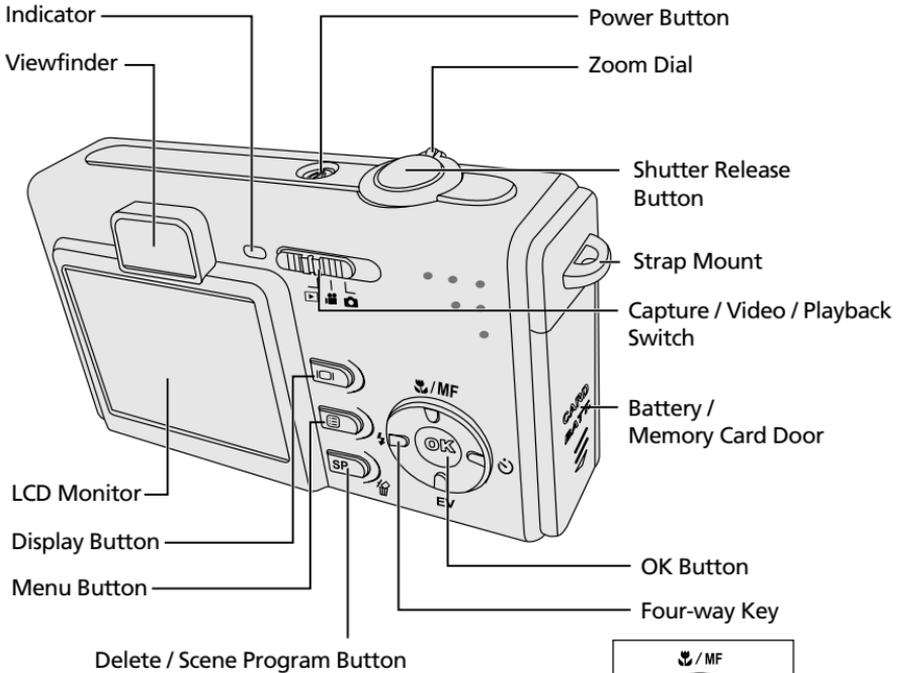
**6** Press the shutter release button all the way down to take the picture.

# Chapter 1

## Getting Started

### Camera Parts

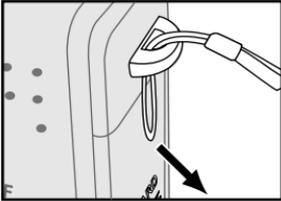




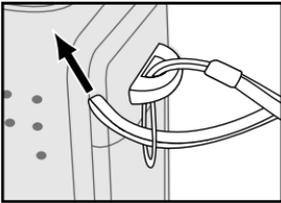
-  MARCO / MF (Manual Focus)
-  Self-timer
-  Flash Mode
-  Exposure Value

## **Set Up**

### **■ Attaching the Wrist Strap**



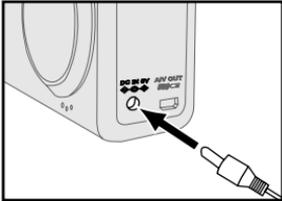
- 1** Insert the small loop of the wrist strap into the strap eyelet.



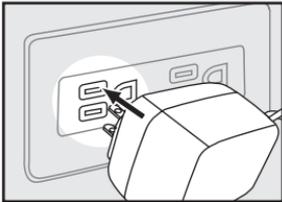
- 2** Insert the long loop of the wrist strap into the small loop of the strap and then tighten it.

### ■ Charging the Battery

The supplied rechargeable Li-ion battery pack should be charged before using.



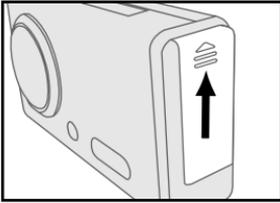
- 1 Check that the camera is turned off. Plug the AC adapter connector into the "DC IN 5V" socket on the camera.



- 2 Then plug the adapter itself into the main power outlet.
- 3 Disconnect the AC adaptor when finishing charging.

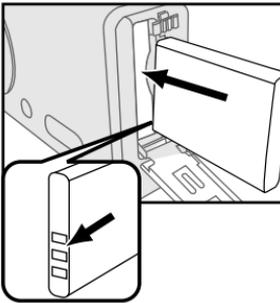
*Note : To increase the efficiency of battery charging, you can turn off the camera power after connecting the USB cable/AC adaptor.*

## ■ Installing the Battery & the Memory Card

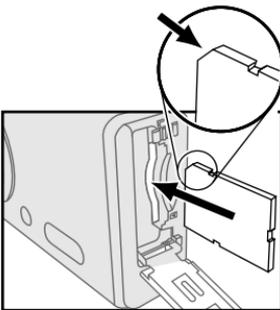


1 Put the camera upside down with the front of the camera facing you.

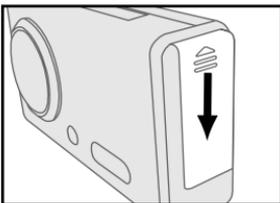
2 Open the battery / memory card cover.



3 Insert the battery according to the indicators on the battery chamber.



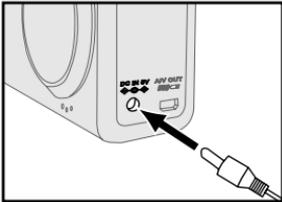
4 Insert a SD memory card into the memory card slot and make sure it is in place as shown.



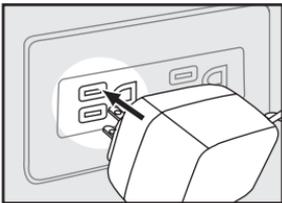
5 Close the battery/ memory card cover.

### ■ Using the AC Adaptor

When reviewing pictures or operating the camera indoors, you can use the AC adaptor as the power source to save the battery power.



- 1 Connect the AC adaptor connector to the AC adaptor terminal of the camera.



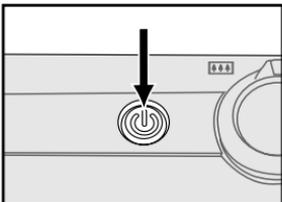
- 2 Connect the other end of the AC adaptor to the electrical outlet.

*Note : Make sure to use only the AC adaptor (5V) specified for the camera. Damage caused by use of an incorrect adaptor is not covered under the warranty.*

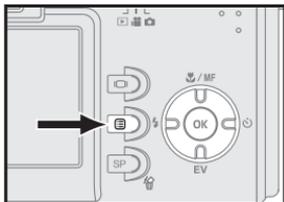
### ■ Turning on Power

Press the  "Power" button to turn the camera on.

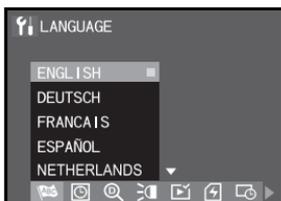
*Note: To turn off the camera, press the power button again.*



## ■ Selecting the Language



- 1 Under any mode, press "MENU" button. Scroll through the menu by using on the four-way button and move to "SETUP". Enter the "SETUP" menu by pressing "OK".



- 2 On the "LANGUAGE" submenu, use on the four-way button to select the language you need and then press "OK" to confirm the setting.

### ■ Setting the Date/Time

Set the date and time so that they appear correctly when you are reviewing the images with your camera.



**1** In the "SETUP" menu, select the "DATE/TIME". Enter the submenu by pressing "OK".



**2** Move to the item you want to adjust by using ◀ / ▶ on the four-way button, and adjust the value of the item by using ▲ / ▼ on the four-way button.

**3** Press "OK" button to confirm the setting.

## Chapter 2

# Taking Pictures and Recording Video Clips

### Using the LCD Display

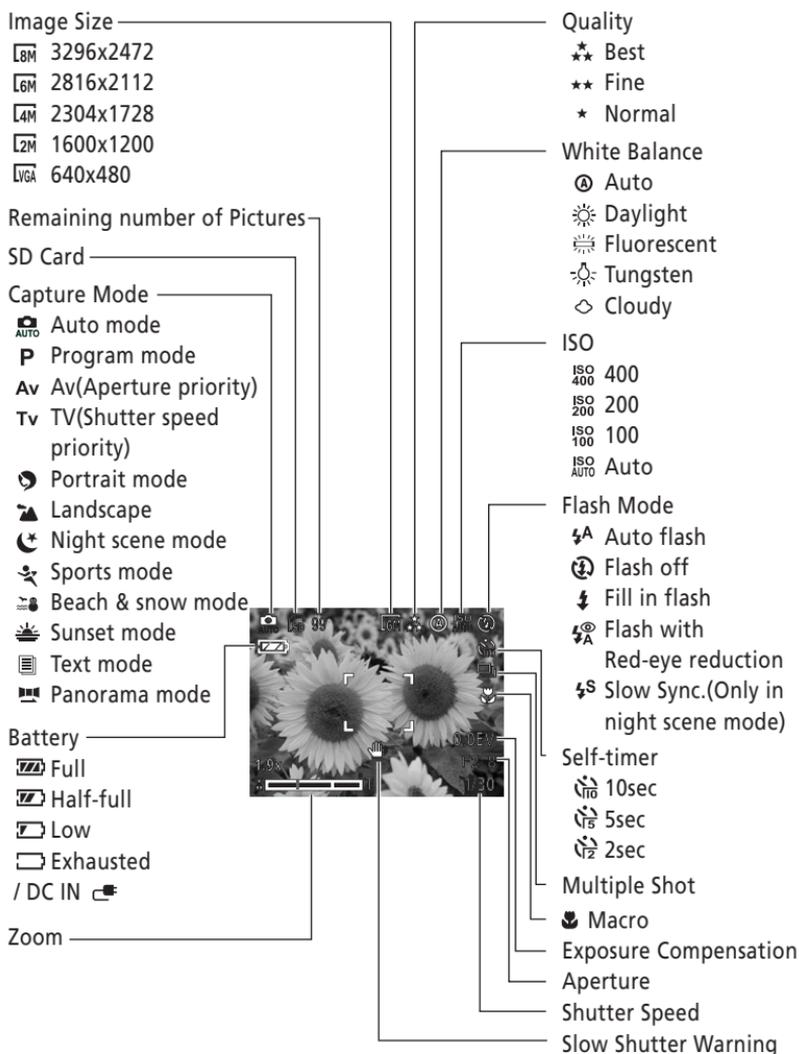
When you turn the camera on, the LCD monitor turns on automatically. With the LCD monitor, you can frame images that you want to capture or record as video clips. You can also view the menus of each mode. The following figures give you the information of the indicators and icons shown on the LCD monitor.

*Note 1 : You may not be able to see the LCD display clearly when using the LCD monitor under intense light, such as sunlight. You can adjust the LCD brightness to improve the situation. See page 82.*

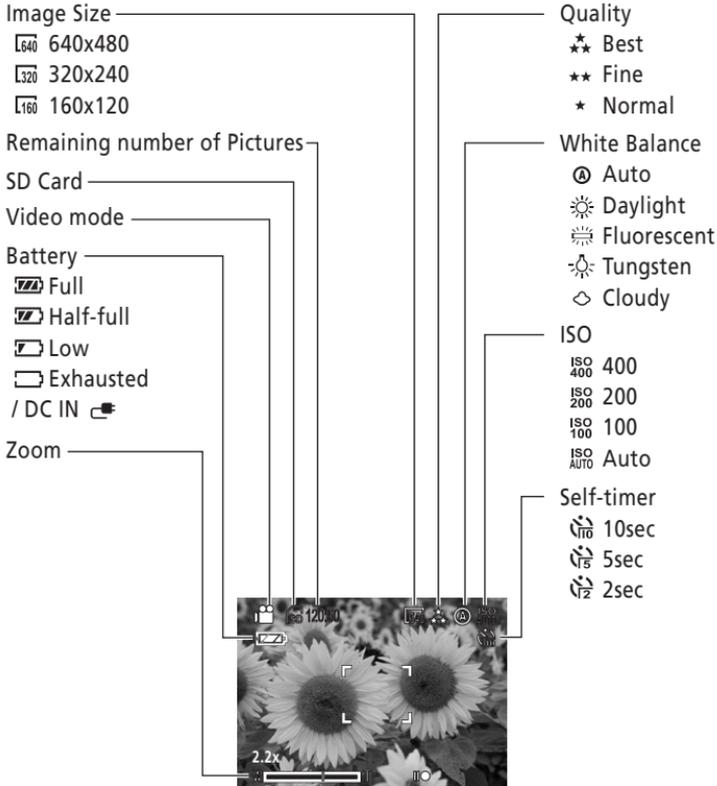
*Note 2 : You may turn off LCD display and use optical viewfinder to save the battery power for taking more pictures.*

*Note 3 : Note that the following figures are for illustrative purposes only. They do not exactly match the LCD display content actually produced on the camera.*

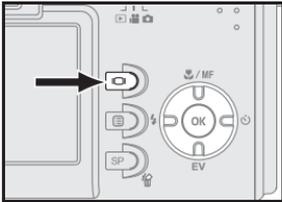
## ■ Capture Mode



## Video Mode

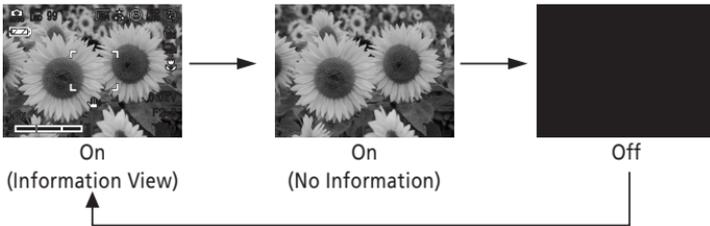


## ■ Changing the Contents on the LCD Monitor

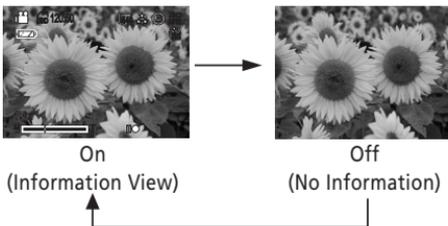


Each press of the  button to change the contents on the LCD monitor as shown below.

### • Capture Mode



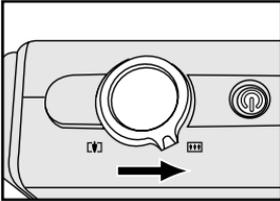
### • Video Mode



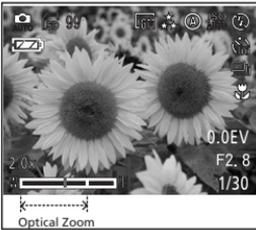
## Using Zoom

This camera provides you with 3x optical zoom and 8x digital zoom.

### ■ Optical Zoom



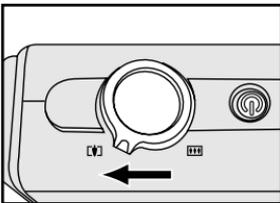
1 Press "▲▲▲▲▲" switch to zoom out and zoom in.



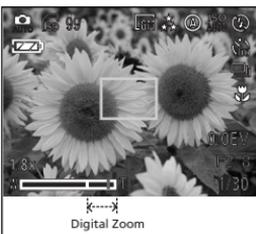
2 You can see the zoom in / out indicator on the LCD monitor. The optical zoom range is from 1.0x to 3.0x.

### ■ Digital Zoom

To activate the function of digital zoom, you have to set the digital zoom to "On". (See page 79).



1 Press "▲" switch to optically zoom in to the maximum level (3X), then release "▲" switch and press it again to activate digital zoom function.



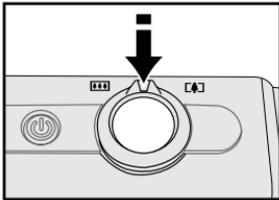
2 A green frame surrounds the area of the image to be captured.

*Note: You can change the digital zoom setting during video recording, but not the optical zoom setting.*

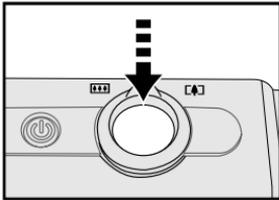
## Taking Still Pictures

### ■ Using Auto Focus

Press the shutter release button halfway down to set the focus and exposure. The camera will automatically focus on the subject in the center of the frame.



- 1 Frame your subject with the viewfinder or the LCD monitor. Slightly press the shutter release button halfway down and hold it to set the focus and exposure.



- 2 You will hear a sound, and indicator will light when the auto focus is set.
- 3 Press the shutter release button down fully to take the picture.

*Note: Auto focus might fail in some circumstances:*

- \* *When you shoot behind a sheet of glass.*
- \* *When you shoot subjects that have low contrast in color (eg: sky, white walls and so on).*
- \* *When there is a long distance between two subjects in the same frame (the camera might mistakenly focus on the wrong subject).*
- \* *When there is only horizontal line in the frame.*

## ■ Using Focus Lock

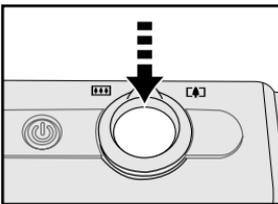
If your subject is not in the center of the frame, the picture may be out of focus when you press the shutter release button halfway down. Focus lock allows you to focus on an off-center subject.



**1** Frame your subjects in the center of the frame with the viewfinder or the LCD monitor. Slightly press the shutter release button halfway down and hold it to set the focus and exposure.



**2** Keep pressing the shutter release button halfway down and recompose your picture.



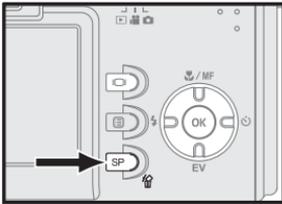
**3** Press the shutter release button all the way down to take the picture.

*Note : Different colors of focus brackets stand for different focus condition.*

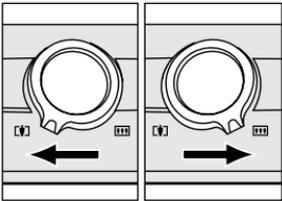
AF success	When color of focus bracket is changed from "white" to "green".
AF fail	When color of focus bracket is changed from "white" to "red" .

### ■ Shooting Images

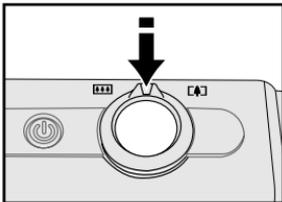
If you are a first-time user of a digital camera or just want to take pictures in the easiest way, you can use this  "AUTO" mode. In this mode, the camera controls most of the settings.



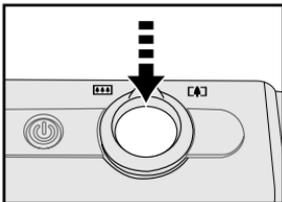
- 1 Slide the mode switch to , check the  icon on the LCD monitor before shooting. If not, press SP "SP/Delete" button and use ◀ / ▶ on the four-way button to select .



- 2 Frame your subjects with the viewfinder or the LCD monitor by moving the camera or using "▲▲▲/▼" buttons.



- 3 Slightly press the shutter release button halfway down and hold it to set the focus.



- 4 Press the shutter release button all the way down and take the picture.

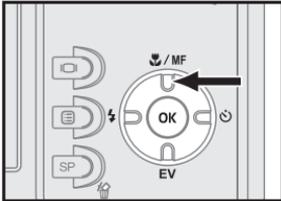
*Note : When  appears on the LCD monitor, we recommend you use a tripod to avoid taking blurry pictures caused by hand shake.*

## ■ Shooting 🌿 Close-Ups/∞ Infinity/MF (Manual Focus) Modes

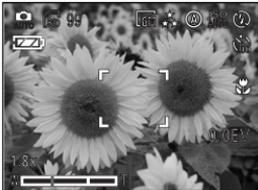
### • 🌿 Close-Ups/∞ Infinity Mode

To shoot a close-up picture, use 🌿 "Macro" function to get the detail and sharpness of the subject.

To shoot infinity shots, use ∞ "Infinity" function to shoot landscapes and distant objects. It can also be used for compositions combining both near and distant objects.



1 Press ▲ on the four-way button to select 🌿/∞ mode. The selected item will appear on the right side of the LCD monitor.

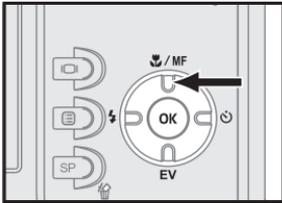


2 Frame your subject, press shutter release button to take pictures.

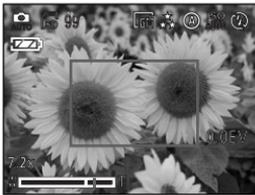
*Note: The default flash mode is "Flash Off" in macro mode. You can change the flash mode by using ◀ on the four-way button.*

### • MF Manual Focus Mode

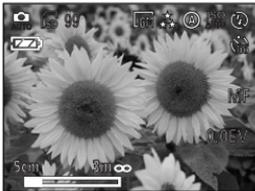
You can use **MF** "Manual Focus" function to adjust the focus manually.



**1** Press ▲ on the four-way button to select **MF** mode, and the selected icon will appear on the right side of the LCD monitor.



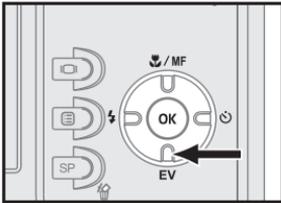
**2** The green frame appears on the center of the LCD monitor. Frame your subject, press shutter release button to take pictures.



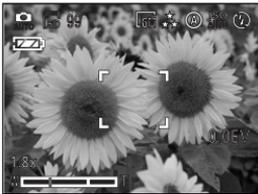
**3** Press ◀/▶ button to adjust the focus and press "OK" to confirm the value.

## ■ Setting Exposure Compensation

In some difficult lighting condition, the automatic exposure may be misled into giving the wrong readings. Exposure compensation allows you to adjust the exposure value and correctly expose your pictures.



1 In  mode, press ▼ on the four-way button ( EV value will be selected and light red) .



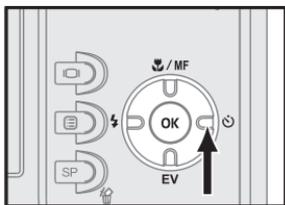
2 Use ◀ / ▶ to adjust the exposure value (from -2.0 ~ +2.0).

3 Press "OK" button to confirm the setting.

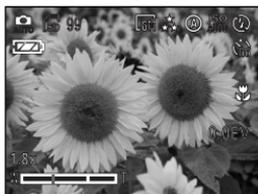
*Note : EV setting goes back to default (0.0 EV) after you turn off the camera.*

### ■ Using Self-timer

Self-timer function allows you to take pictures 2 sec, 5 sec or 10 sec after you press the shutter release button all the way down. When you want to include yourself in the picture, but can find no one to shoot the picture for you, you can use this convenient function. We recommend you use a tripod or place the camera on a steady surface when using self-timer.



- 1 Press **▶** on the four-way key until the icon , , or  appears on the LCD monitor.

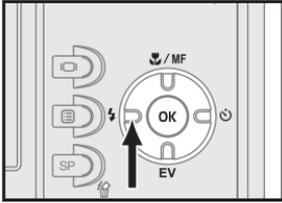


- 2 After locking the focus and pressing the shutter release button down fully, the self-timer lamp blinks. The camera will take the picture automatically after the time you set ends.

*Note: The self-timer mode will not be cancelled after taking a picture. Use **▶** on the four-way button again to turn off the self-timer function.*

## ■ Using Built-in Flash

When taking pictures in difficult lighting conditions, you may need the flash to get correct exposure. The camera provides you with built-in flash modes.

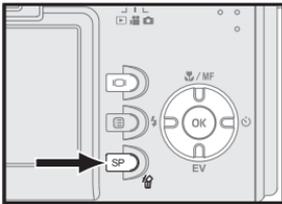


- 1 Press ◀ on the four-way button to display the flash settings.
- 2 Use ◀ / ▶ button to change the setting.
- 3 Press "OK" to confirm the setting.

Mode	Function
Ⓜ Flash Off	Flash is turned off.
⚡A Auto Flash	Flash fires automatically when the lighting condition is dark.
⚡A with Red-eye Reduction	Reduces the "red-eye" effect resulting from the flash.
⚡ Fill in Flash	Flash fires whenever you take a shot, regardless of the lighting condition.
⚡S Slow Sync	Flash fires with slow shutter speed to get natural exposure.

### Scene Modes

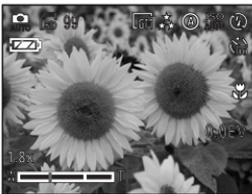
According to different shooting situations, the camera provides 4 capture modes (  / **P** / **Av** / **Tv** ) and 8 scene modes (  /  /  /  /  /  /  /  ).



- 1 In  mode, press "SP/Delete" button to display capture modes.
- 2 Use  /  on the four-way button to change the setting.
- 3 Press "OK" button to confirm the setting.

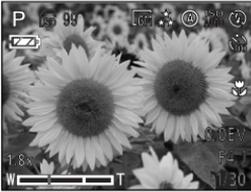
*Note: In scene modes, camera settings are automatically adjusted to suit the selected scene, sparing you the necessity of adjusting each setting separately. Only "SETUP", "IMAGE SIZE", and "QUALITY" functions can be changed on the  menu.*

### ■ Auto ()



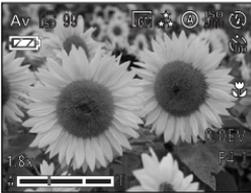
"AUTO" mode is the simplest way to take pictures without setting any functions. The camera automatically chooses the optimal settings for the shooting scene when the shutter release button is pressed halfway.

## ■ Program (P)



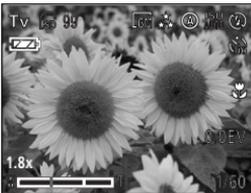
The camera sets the optimum aperture values and shutter speed automatically according to the brightness of the subject.

## ■ AV (Av)



In this mode, pictures are taken with the priority given to aperture value. The camera sets the shutter speed automatically.

## ■ TV (Tv)



In this mode, pictures are taken with the priority given to shutter speed. The camera sets the aperture value automatically.

## ■ Portrait (s)



Suitable for shooting a portrait-style image of a person. Only the subject is brought into focus with a blurred background.

### ■ Landscape (🌄)



Suitable for shooting landscapes and other outdoor scenes. Vivid reproduction of blues and greens.

### ■ Night Scene (🌃)



With a slow shutter speed in order to obtain the correct exposure. We recommend using a tripod.

### ■ Sports (🏃)



Suitable for capturing fast-moving action without blurring.

### ■ Snow/Beach (☀️)



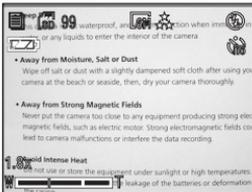
Vividly captures the brightness of such subjects as snowfields, beaches, or sunlit expanses of water.

## ■ Sunset (🌅)



Let you reproduce the beautiful colors of the sunset.

## ■ Text (📄)



Suitable for shooting documents. Increases contrast between letters and background.

## ■ Panorama (📷)



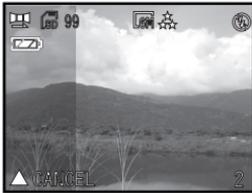
You can take a number of images and join them together to form a panoramic picture. The Panorama mode enables you to overlap multiple images so that it is easier to join them together into a panoramic picture.

*Note: See page 38 to use this function.*

### • How to use Panorama mode



1 In  mode, frame your subjects with the viewfinder or the LCD monitor by moving the camera or using "▲▲▲▲▲" buttons.



2 Use the darker image area on the left side of the LCD monitor to overlap with the previous image you took.



3 Maximum number of images that can be joined together is 3.



4 Press "OK" button to complete and wait a moment for panorama to be written into memory.



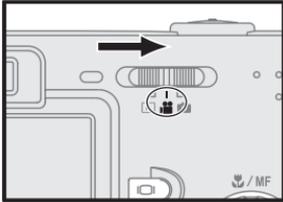
- 5 In  mode, use "▲▲▲" buttons to show the index and press "☰" button to choose the panorama image.

*Note 1: The image size is "1600x1200(2M)" when using "Panorama mode" .*

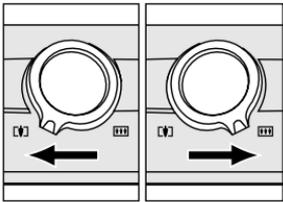
*Note 2: The image is only enlarged 1.0X when using "Panorama mode" .*



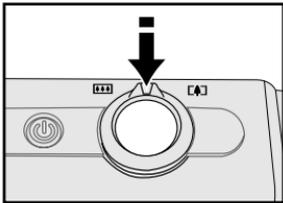
## Recording Video Clips



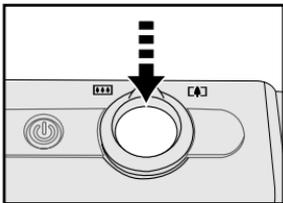
1 Slide the mode switch to .



2 Frame your subjects by using "   " buttons before you start recording.



3 Slightly press the shutter release button half way down and hold it to set the focus and exposure delete.



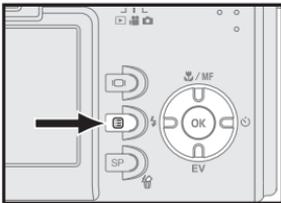
4 Press the shutter release button all the way down to start recording.

5 Press the shutter release button again to stop recording.

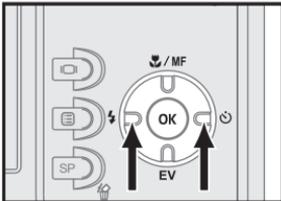
## Using the Capture / Video Menu

The capture / video menu allow you to adjust various camera settings that affect the quality of the images and video clips you capture with your camera.

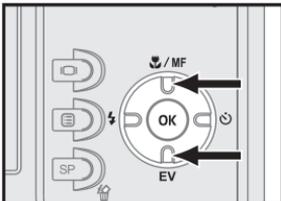
- 1 Slide the mode switch to  , or  .



- 2 Press  "Menu" button to enter the capture or video menu.



- 3 Scroll through the menu by using  /  on the four-way button.



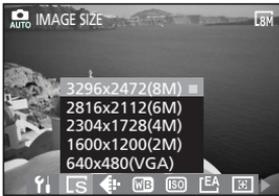
- 4 Use  /  on the four-way button to highlight the option you want to select.

- 5 Press "OK" button to confirm the setting.  
Press  "Menu" button or shutter release button halfway down and the screen returns to capture / video live view.

### ■ Setting Image Size (Resolution)

Changing the image size affects the number of images which can be stored in a memory card. You can achieve detailed images with high resolutions. The larger file size is, the more memory space you require, and vice versa.

#### • Setting Image Size ( for Still Pictures )



- 1 In the "CAPTURE" menu, select "IMAGE SIZE".
- 2 Select "3296x2472(8M)", "2816x2112(6M)", "2304x1728(4M)", "1600x1200(2M)", or "640x480(VGA)".
- 3 Press "OK" button to confirm the setting.

#### • Setting Image Size ( for Video Clips )



- 1 In the "VIDEO" menu, select "IMAGE SIZE".
- 2 Select "640x480", "320x240", or "160x120".
- 3 Press "OK" button to confirm the setting.

## ■ Setting Quality

The image quality is related to the compression rate of the image. In order to reduce the size of the files and to have more memory storage space, files are compressed. However, compression leads to the loss of image quality. In other words, the less you compress the file, the better the quality is, and the more memory space you require.



- 1 In  or  menu, select  "QUALITY".
- 2 Select "BEST", "FINE" or "NORMAL".
- 3 Press "OK" button to confirm the setting.

### ■ Setting White Balance

White Balance allows you to correct color shifts that result from different lighting conditions.



- 1 In or menu, select "WHITE BALANCE".
- 2 Select "CLOUDY", "TUNGSTEN", "FLUORESCENT", "DAYLIGHT", or "AUTO".
- 3 Press "OK" button to confirm the setting.

Setting	Function
CLOUDY	Setting for shooting in overcast condition.
TUNGSTEN	Setting for shooting in incandescent or halogen condition.
FLUORESCENT	Setting for shooting in fluorescent condition
DAYLIGHT	Setting for shooting in sunny condition.
AUTO	The camera will automatically adjust the setting according to the lighting condition.

## ■ Setting ISO (Sensitivity)

ISO value affects the camera's sensitivity to light. The default ISO setting is "Auto", but you can also adjust the setting manually. Use low ISO value in bright condition, and high ISO value when light is insufficient.



- 1 In  or  menu, select  "ISO".
- 2 Select "400", "200", "100" or "AUTO".
- 3 Press "OK" button to confirm the setting.

*Note 1: High ISO value may lead to noise in the picture.*

*Note 2: ISO speed resets to default "Auto" after you turn off the camera.*

### ■ Setting Exposure Area

This setting allows you to specify which region of a scene the camera will use to measure the brightness and determine the exposure.



- 1 In or menu, select "EXPOSURE AREA".
- 2 Select "FULL", "CENTRAL", or "SPOT".
- 3 Press "OK" button to confirm the setting.

Setting	Function
FULL	Meters the exposure value from the entire screen.
CENTRAL	Meters the exposure value from the central area of the screen.
SPOT	Meters the exposure value from a very small area in the center of screen only. Use this mode to shoot pictures with a specific exposure area.

## ■ Setting Focus Area

This setting allows you to change the focus area.



- 1 In  or  menu, select  "FOCUS AREA".
- 2 Select "CENTRAL" or "SPOT".
- 3 Press "OK" button to confirm the setting.

Setting	Function
CENTRAL	Focus on your subject in the central area of the screen.
SPOT	Focus on your subject in very limited range in the center of the screen.

### ■ Setting Color Style

This function allows you to add special effects to the images.



- 1 In or menu, select "COLOR STYLE".
- 2 Select "COOL", "WARM", "B&W", "SEPIA", or "NORMAL".
- 3 Press "OK" button to confirm the setting.

Setting	Function
COOL	Records in cool tones.
WARM	Records in warm tones.
B&W	Records in black & white.
SEPIA	Make the photographs look like vintage ones. (reddish-brown)
NORMAL	No special effect.

## ■ Setting Sharpness

Adjusting settings of sharpness allows you to emphasize or soften the edge of the image.



- 1 In or menu, select "SHARPNESS".
- 2 Select "HARD", "NORMAL" or "SOFT".
- 3 Press "OK" button to confirm the setting.

Setting	Function
HARD	Emphasizes the outline. If you want the subjects (such as buildings) to have a clear and sharp outline, we suggest you to use this mode.
NORMAL	Suitable for ordinary shots.
SOFT	Softens the outline. If you want the subjects (such as people) to have a soft outline, we recommend you to use this mode.

### ■ Setting Contrast

Adjusting settings of contrast (distinction between light and dark) allows you to harden or soften the image.



- 1 In  or  menu, select  "CONTRAST".
- 2 Select "HARD", "NORMAL" or "SOFT".
- 3 Press "OK" button to confirm the setting.

Setting	Function
HARD	The light and dark areas are defined more clearly, making the image look crisper.
NORMAL	Suitable for ordinary shots.
SOFT	The light and dark areas become less defined, giving the image a softer impression. If you want your images to look softer, we suggest you use this mode.

## ■ Setting Saturation

Saturation is the intensity and purity of color. This option allows you to adjust images to be more vivid or dull.



- 1 In or menu, select "SATURATION".
- 2 Select "MORE", "NORMAL" or "LESS".
- 3 Press "OK" button to confirm the setting.

Setting	Function
MORE	Makes image vivid. If you want your image to look more vivid, we recommend you to use this mode.
NORMAL	Suitable for ordinary shots.
LESS	Makes image dull. If you want your image to look gray, we suggest you use this mode.

### ■ Taking a Series of Pictures ( only )

When setting the capture drive mode to "Single", you can capture a single picture each time you press the shutter release button all the way down. If you want to shoot still pictures of moving events, "Continuous" allows you to take a series of pictures.



1 Only in  menu, select  "DRIVE MODE". Select "SINGLE" or "CONTINUOUS".

2 Press "OK" button to confirm the setting.

*Note : The flash mode is "Off" when using "CONTINUOUS".*

### ■ Setting Video Format ( only )

The video files supported by the camera are \*.avi, \*.asf or \*.mov. Different file type needs different software to play, here is the list:

File type	Software
*.avi	ArcSoft VideoImpression & XviD. See page 71.
*.asf	Media Player 9 or above
*.mov	QuickTime (*.mov is the Mac OS file format)



1 Only in  menu, select  "VIDEO FORMAT". Select "AVI", "ASF" or "MOV".

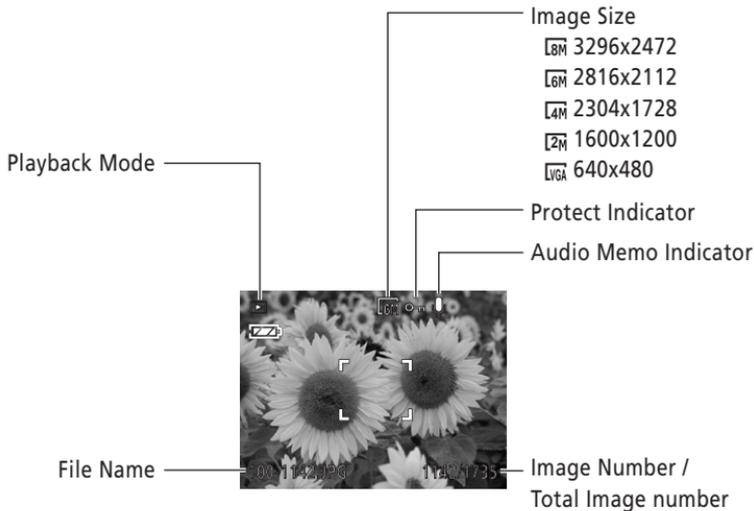
2 Press "OK" button to confirm the setting.

# Chapter 3

## Reviewing Images and Video Clips

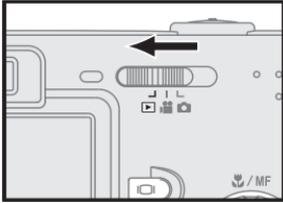
### Using the LCD Display

The following figures give you the information about the icons appearing on the LCD monitor.



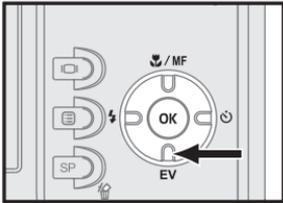
## Using Playback

Playback mode allows you to review the still images and video clips.

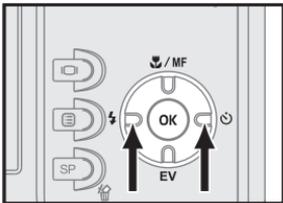


**1** Slide the mode switch to Playback mode . The last taken image or the first frame of the video clip appears on the LCD monitor.

**2** Use  and  on the four-way button to display the previous or next file.

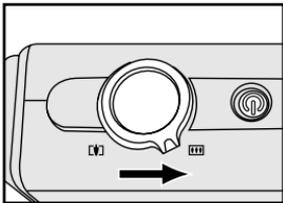


**3** If you select a video clip, a guide to operation appears on the LCD monitor during playback. Press  on the four-way button to play the video clip. Press  on the four-way button again to pause the video clip.



**4** Use  and  on the four-way button to play fast backward and fast forward.

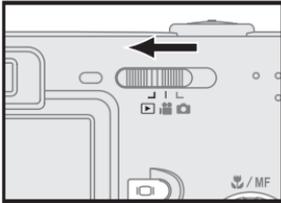
**5** Use  on the four-way to stop the playback.



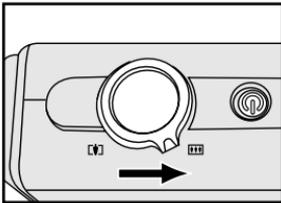
**6** Press "" button to return to thumbnail display.

## ■ Using Index Display

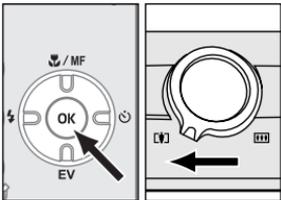
By using the function of index display, you can view up to nine images at a time.



- 1** Slide the mode switch to Playback mode . The last taken image or the first frame of the video clip appears on the LCD monitor.



- 2** Press "▲▲▲" button to display nine images at the same time, then use ▲/▼/◀/▶ on the four-way button to select the file you want.

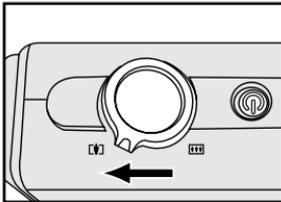


- 3** Press "OK" or "●" button to display the selected image at its normal size.

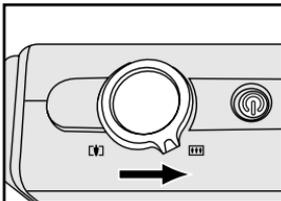
## ■ Activating Digital Enlargement

You can magnify pictures you have taken for a closer viewing on the LCD monitor. This feature is useful for checking the focus or small details.

*Note : This feature only works on still pictures; it does not work with video clips. Also, this feature is for viewing purposes only; it does not permanently alter the image.*

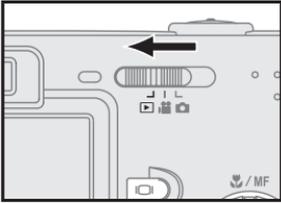


- 1 Press "⏏" button in single display and then navigate the enlarged image by using the four-way key.

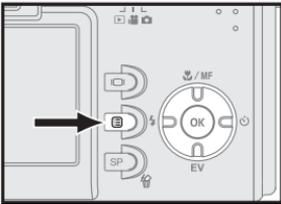


- 2 Press "⏏" button to return to the original image size step by step.

## Using the Playback Menu



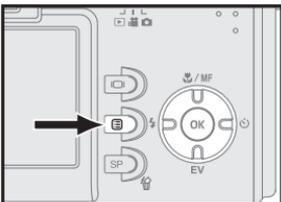
1 Slide the mode switch to .



2 Press  "Menu" button to enter the playback menu.



3 Scroll through the menu by using  /  on the four-way button, and use  /  on the four-way button to highlight the option you want to select.



4 Press "OK" button to confirm the setting. After confirming the setting, press  "Menu" button again to exit.

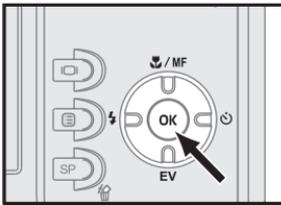
### ■ Deleting Images

This function allows you to delete your still pictures and video clips.



1 In  menu, select  "DELETE".

2 Select "ALL" to delete all of the images or select "ONE" to delete the image you selected.



3 A confirmation dialogue will be displayed. Press "OK" button to confirm the setting.

*Note 1 : You can also delete single pictures by directly pressing  "SP/Delete" button without entering the menu. Select "OK" and then press "OK" button to delete the file you selected.*

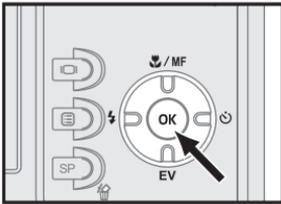
*Note 2 : If the image is under protection, you have to remove the protection first and then delete it. See page 59.*

## ■ Protecting Pictures and Video Clips

This function prevents the pictures and video clips from being modified or deleted.



- 1 In menu, select "PROTECT".
- 2 Select "ALL" to protect all of the files.  
select "ONE" to protect the file you selected.
- 3 Press "OK" button to confirm the setting.



*Note 1: A file that has been protected is indicated by the mark. To remove a protected file or all of the protected files, follow step 3 to remove protected files, and then press "OK" button.*

*Note 2: All of the images, including the protected ones, are deleted when you format the memory card.*

## ■ Recording Voice Memo for Still Pictures

You can record a voice memo up to about 15 seconds in length for each still picture.



1 In  menu, select  "MEMO".

2 To record a voice memo, select "RECORD" and then press "OK".



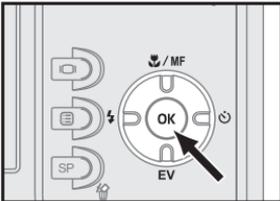
3 Press  on the four-way button to start recording. When the voice memo starts to record, the indicator on the LCD monitor changes from  (green) to  (red). Press  again to stop recording and return to the previous menu.



4 To playback a voice memo, select "PLAY" and then press "OK". Press  on the four-way button to start playing. Press  again to stop playing and return to the previous menu.



5 To delete a voice memo, select "Delete" and then press "OK".



6 A confirmation dialogue will be displayed. Select "OK" to delete memo.

*Note 1 : A still picture that has recorded a voice memo is indicated by the  mark.*

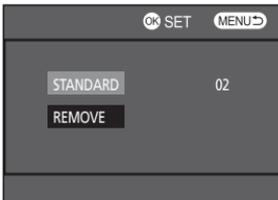
*Note 2: All of the images, including the memo ones, are deleted when you format the memory card.*

### ■ Setting DPOF (Digital Print Order Format)

This function helps you to print out your pictures at a professional print service or on a DPOF (Digital Print Order Format) compatible printer directly, without any computer.



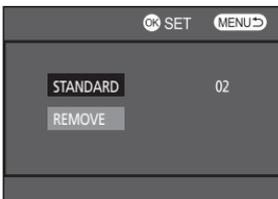
- 1 In the  menu, select  "DPOF". To decide which pictures are to be printed and the number of copies, select "STANDARD" and then press "OK" to enter the submenu.



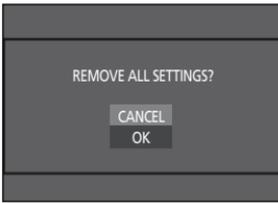
- 2 In the submenu, select "STANDARD" and then press "OK" to start setting.



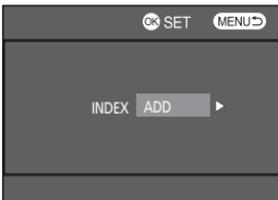
- 3 Use   on the four-way button to display the picture you want to print and use   on the four-way button to specify the number of copies. After all the settings are the way you want, press  "Menu" button to exit the setting screen.



- 4 To cancel the setting of "STANDARD", select "REMOVE" and a confirmation dialogue will be displayed. Select "OK", then press "OK" button to remove print settings.



**6** To print index of pictures, follow step 1. Then select "INDEX" and press "OK" button.



**7** Use ◀▶ on the four-way button to select "ADD" or "REMOVE". Press "OK" button to complete DPOF setting.

*Note : A still picture that has had DPOF settings added to it is indicated by the 📄 mark.*



Setting	Function
STANDARD	Prints one image per page.
INDEX	Prints the selected images in a single sheet.

### ■ Displaying a Slide Show

Slide show allows you to playback the still pictures one by one automatically on the LCD monitor or a TV. To connect your camera to a TV, see page 79.



1 In menu, select "SLIDE SHOW".



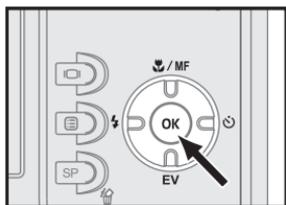
2 Use on the four-way button to select "INTERVAL". Use on the four-way button to select the interval setting (3~10sec).



3 Use on the four-way button to select "DIRECTION". Use on the four-way button to select the displaying direction ("Forward" or "Backward").



4 Use on the four-way button to select "REPEAT". Use on the four-way button to activate "REPEAT" function ("ON" or "OFF").



- 5 Press "OK" to confirm the setting and start displaying a slide show. Press "OK" again to stop displaying and return to the previous menu.

Setting	Function
INTERVAL	Adjusts the interval (3~10sec) between each picture during the display.
DIRECTION	Decides in which direction ("Forward" or "Backward") to display the pictures.
REPEAT	Repeats the slide show and starts from the selected file.

### ■ Editing Still Pictures

This function allows you to rotate, resize, or crop images and remove red eyes from images on the LCD monitor.

*Note : This function is only available for still pictures.*

#### • Rotate



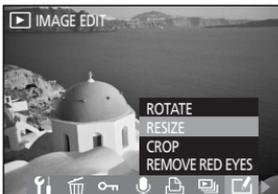
1 In  menu, select  "IMAGE EDIT".

2 To rotate a image, select "ROTATE" and then press "OK".



3 Each press  or  on the four-way button to rotate 90° clockwise or counterclockwise. Press "OK" and return to the previous menu.

#### • Resize

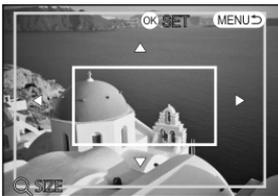


1 In  menu, select  "IMAGE EDIT".

2 To resize an image, select "RESIZE" and then press "OK".



• **Crop**



3 Use ◀/▶ on the four-way button to select the size. Press "OK" to confirm the setting and return to the previous menu.

1 In ▸ menu, select  "IMAGE EDIT".

2 To delete unwanted areas from a image, select "CROPPING" and then press "OK".

3 Use ▲/▼/◀/▶ on the four-way button to move the cropping boundary until the area of the image you want to extract is within the boundary.

4 Press "⏏/⏏" button to make the cropping boundary smaller or larger and then press "OK".

5 Select "NEW" to save the cropped image as a new file. Or select "REPLACED" to save the cropped image to replace the original image. Press "OK" to confirm the setting and return to the previous menu.

*Note : Cropping can not be specified for 640x480 pixel images.*

### • Remove red eyes



1 In menu, select "IMAGE EDIT".

2 To remove red eyes from an image, select "REMOVE RED EYES" and then press "OK". The red-eye removal process takes a few seconds.



3 Select "NEW" to save the changes as a new file. Or select "REPLACED" to save the changes to replace the original image.

4 Press "OK" button to confirm the setting.

*Note : The removal red eyes option is only available for still pictures that are taken with a flash.*

Setting	Function
ROTATE	Images can be rotated 90° clockwise or counterclockwise on the LCD monitor. This is useful for viewing pictures that were taken with the camera held vertically.
RESIZE	Converting images to a size smaller than original.
CROPPING	To crop an area from an image.
REMOVE RED EYES	To remove red eyes from the subjects in images that were taken with a flash.

## **Chapter 4**

# **Installing the Software**

---

The software CD supplied with the camera includes the driver and the application (PhotoImpression, and VideoImpression). The application allows you to upload the images from the camera, view them, print them, and e-mail them. So please install the software before you connect the camera to computer.

## **Windows System Requirements**

- **Windows 98SE, ME, 2000, and XP**
- **Pentium II processor or greater**
- **32MB of available RAM**
- **110MB of available hard disk space**
- **CD-ROM drive**
- **USB port**
- **Color Monitor with a minimum resolution of 800 x 600 pixels**

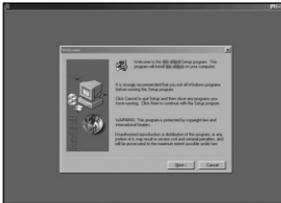
# Installing the Software

## ■ Installing the Driver

If you use Windows 98 SE, please install the driver first before you connect the camera to the computer. Please follow the instruction below:



- 1 Insert an installation CD-ROM. After you insert the CD into the CD-ROM drive, the first Install window will appear. If the install window does not appear, click "Start" and then "Run". Type "E:\LUMICRON.exe" E is the drive letter that contains the software CD. And then choose the OS you use.



- 2 Click "Driver".



- 3 Click "Next".

- 4 The installation starts.



- 5 Click "Finish" to complete the installation. Windows ME, 2000, XP and Mac OS 9.X, 10.X don't need the driver.



6 Click "OK" to complete installation.

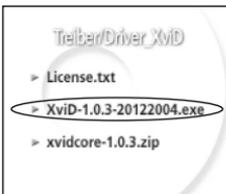
7 Restart your computer.

### ■ Installing the XviD Software

For getting optimum effect when you display videos on your computer, please install the XviD Software first no matter what OS you use. Xvid uses a video codec and is based on MPEG-4 compression format.



1 Click "XviD".



2 Click "XviD-1.0.3-20122004.exe".



3 Click "Next".

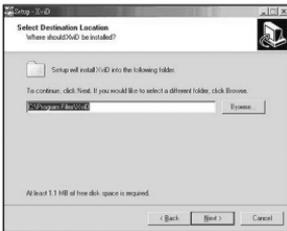
## Chapter 4: Installing the Software



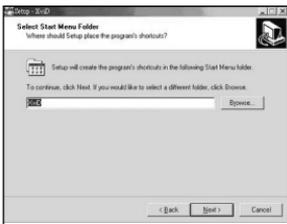
4 Click "Next".



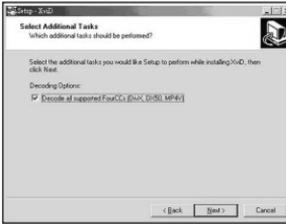
5 Click "Next".



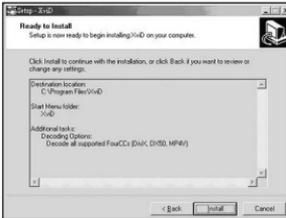
6 Click "Next".



7 Click "Next".



8 Click "Next".



9 Click "Next".



10 The installation starts.



11 Click "Finish" to complete the installation.

### ■ Installing the Application ( Windows )

1 Turn on the computer and then insert the software CD into the CD-ROM drive.



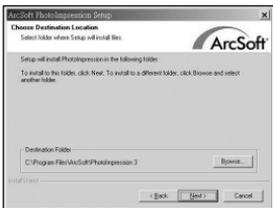
2 After you insert the CD into the CD-ROM drive, the first Install window will appear. If the install window doesn't appear, click "Start" and then "Run". Type "E:\ Lumicon.exe" E is the drive letter that contains the software CD. Click "PhotoImpression".



3 The computer proceeds to install PhotoImpression. Select a language and click "OK". Follow the on-screen instruction to continue the installation.



4 Accept the license agreement and then click "Yes".



5 Click "Next".

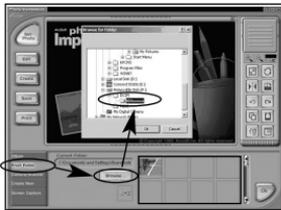


## Using the Application

### ■ PhotolImpression

1 Connect the camera to the computer.  
See page 79.

2 Launch PhotolImpression.



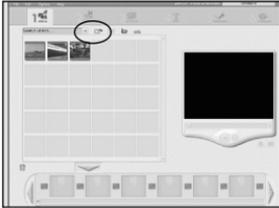
3 To download the images from the camera, select "From Folder", "Browse", "Removable Disk", "Dcim", "100xxxxx", and click "Ok". Click the image that you want to edit in the frame.



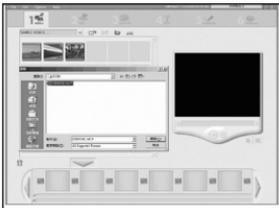
4 You can open two images at the same time.

## ■ VideImpression

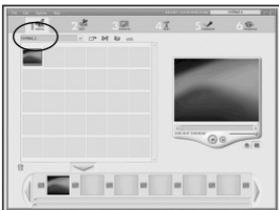
1 Connect the camera to the computer. See page 79.



2 Launch VideImpression and then select "add".



3 Select "DCIM" to download the video clips from the camera.



4 Double-click to select the video chips.



5 Click "Play" to play the video clips.



*Note: When you play video clips with VideoImpression software, a warning message may be displayed.*

*You can solve this problem in 2 ways:*

*1. Visit*

*<http://sourceforge.net/projects/ffdshow/> to download the "ffdshow" software for updating the OS vfw (video for windows) driver. (The ffdshow version must be 2004-03-04 and above)*

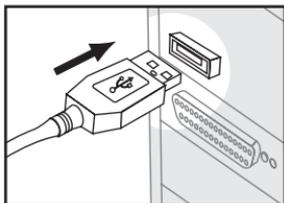
*2. Click "Start" and then run "Windows Update" to visit Windows website to get the latest updates available for your computer's operating system.*

# Chapter 5

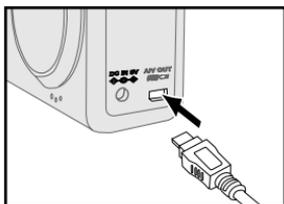
## Uploading, Printing and Displaying Images

After you take pictures, you can upload images to a computer from your camera, print them with a printer, and display them on a TV.

### Uploading to a Computer



**1** Connect the larger end of the USB cable to the USB slot of a computer.



**2** Then connect the small end of the USB cable to the camera.

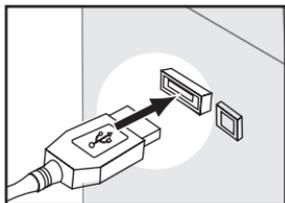
**3** The computer automatically detects the camera as a mass storage device so that you can copy the image file from your camera to the hard drive of a computer.

*Note 1: Upon connecting the camera to a computer, the LCD monitor turns off automatically.*

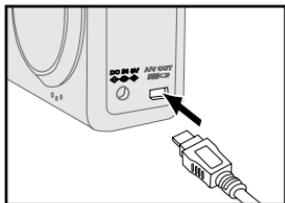
*Note 2: If you use Windows 98SE as the OS in your computer, you have to install USB driver from the software CD-ROM.*

## Printing Images

After uploading the images to a computer, you can print them by using the software packed with the camera. You can also connect the camera directly to some specific printers (such as Olympus P400 Photo Printers). To connect the printer:



- 1 Get the USB cable and connect the larger end of it to the printer.



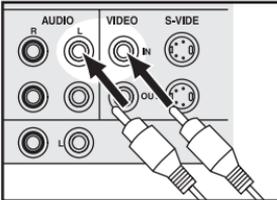
- 2 Then connect the small end of the USB cable to the camera.
- 3 Adjust the settings of DPOF in Playback Menu. See page 62.

## **Displaying Images on a TV**

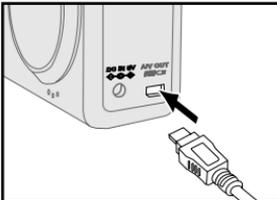
By connecting to a TV, you can view images as a slide show and play video clips.



- 1 Select a compatible TV system in the "SETUP" menu.



- 2 Connect the AV (Audio/Video) cable to the AV inputs of a TV.



- 3 Connect the AV cable to the AV connector of the camera.

*Note 1: When you connect your camera to a TV, the LCD monitor turns off automatically.*

*Note 2: The audio terminal is white and the video terminal is yellow.*

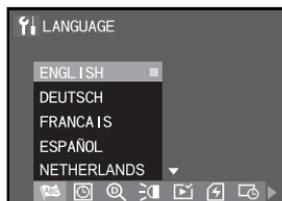
# Chapter 6

## Adjusting the Camera Settings

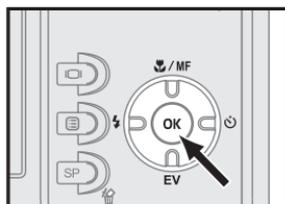
### Using the Setup Menu

The Setup menu allows you to adjust the default settings of this camera.

- 1 Slide the mode switch to ,  or . Press  "Menu" button and select  "SETUP". Press "OK" button to enter the "SETUP" menu.



- 2 Scroll through the menu by using   on the four-way button. Use  /  on the four-way button to highlight the option you want to select.



- 3 Press "OK" button to confirm the setting. After confirming the setting, press  "Menu" button again to exit "SETUP" menu.

## ■ Setting Digital Zoom

This function allows you to activate digital zoom function.



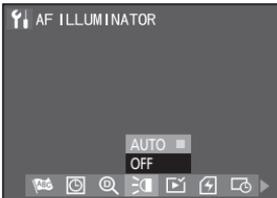
1 In the "SETUP" menu, select "DIGITAL ZOOM".

2 Select "ON" or "OFF".

3 Press "OK" button to confirm the setting.

## ■ Setting AF Illuminator

Sometimes in low-light situations, the camera will use the red AF illuminator on the front of the camera to aid in focusing. This setting allows you to turn off this light when you do not want the AF illuminator to distract the subject of your picture.



1 In the menu, select "AF ILLUMINATOR".

2 Select "AUTO" or "OFF".

3 Press "OK" button to confirm the setting.

### ■ Setting Image Review

This function allows you to review the image for 2 seconds after taking a picture



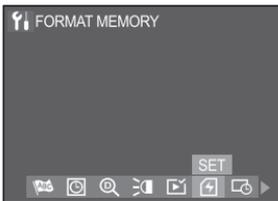
1 In **f/i** menu, select **☑** "IMAGE REVIEW".

2 Select "ON" or "OFF".

3 Press "OK" to confirm the setting.

### ■ Formatting the Memory

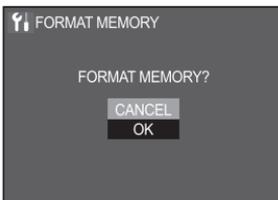
This function allows you to delete all of the images, data, information, and folders in your memory card or internal memory.



1 In **f/i** menu, select **☑** "FORMAT MEMORY" and then press "OK".

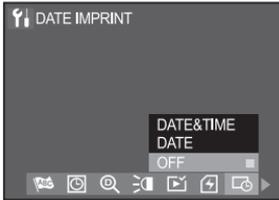
2 A confirmation dialogue will be displayed. Select "OK" to format memory.

3 Press "OK" button to confirm the setting.



## ■ Imprinting the Date and Time

When printing your pictures out or displaying pictures, you can decide whether to imprint the date and time on the pictures or not.



- 1 In  menu, select  "DATE IMPRINT".
- 2 Select "DATE & TIME", "DATE" or "OFF".
- 3 Press "OK" button to confirm the setting.

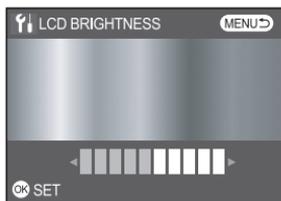
Setting	Function
DATE & TIME	All the selected pictures are printed with the shooting date and time.
DATE	All the selected pictures are printed with the shooting date.
OFF	The pictures are printed without the date and time.

### ■ Setting LCD Brightness

You can adjust the LCD brightness value here.



1 In  menu, select  "LCD BRIGHTNESS".



2 Use   on the four-way button to adjust the brightness value.

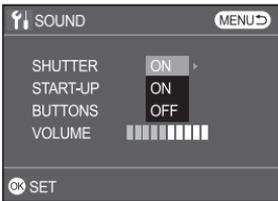
3 Press "OK" button to confirm the setting.

## ■ Setting Camera Sound

You can adjust the playback volume and the sounds that the camera makes when you turn it on, press a button, or take a picture.



**1** In the menu, select "SOUND".



**2** Use / on the four-way button to select "SHUTTER", "START-UP", or "BUTTONS".  
Use / on the four-way button to select "ON" or "OFF".

**3** To adjust the volume, select "VOLUME".  
Use / on the four-way button to adjust the volume from 0 (no sound) to 9 (loudest).

**4** Press "OK" button to confirm the setting.

### ■ Setting TV System

Both NTSC and PAL are TV broadcast systems. The NTSC system is mainly used in the USA, Japan, Canada, Mexico, the Philippines, Korea and Taiwan. The PAL system is used in western Europe such as Germany, England, Switzerland, Holland, Italy (except for France) and Australia, Singapore, Thailand and China. As these systems have no compatibility, you cannot watch an NTSC system based TV in an area where a PAL system is used.



- 1 In menu, select "VIDEO OUT".
- 2 Select "NTSC" or "PAL".
- 3 Press "OK" button to confirm the setting.

## ■ Setting Power Saving Function

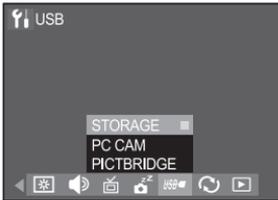
To save the battery power, you can set the camera or LCD monitor to turn off automatically when it is not in use for a fixed time.



- 1 In  menu, select  "AUTO POWER OFF" and then press "OK".
- 2 select "OFF", "1 MIN", "3 MIN" or "10 MIN".
- 3 Press "OK" button to confirm the setting.

### ■ Changing the USB Connection Mode

You can change the USB connection mode depending on whether the USB cable is to be connected to a computer (STORAGE, PC CAM) or a printer (PICTBRIDGE).

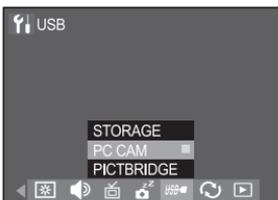


- 1 In  menu, select  "USB".
- 2 Select "STORAGE", "PC CAM" or "PICTBRIDGE".
- 3 Press "OK" button to confirm the setting.

### ■ Using PC CAM

You can connect this camera to a computer with its supplied USB cable and use it as a PC camera. With a compatible video capture program, for example Yahoo Messenger, *MSN Messenger*, *ICQ*, or *Netmeeting*, you can capture images on your computer.

*Note : You have to install the storage driver in all Windows OS before you can use the PC CAM function.*



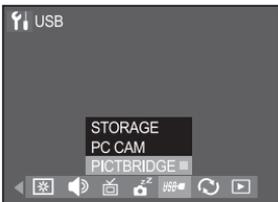
- 1 In  "SETUP" menu, change the USB connection mode to "PC CAM".
- 2 Press "OK" button to confirm the setting. And you can begin to use your camera as a PC CAM.

## ■ Using PictBridge



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

PictBridge is a standard established by the Camera and Image Products Association (CIPA).



- 1 In the "SETUP" menu, change the USB connection mode to "PICTBRIDGE".



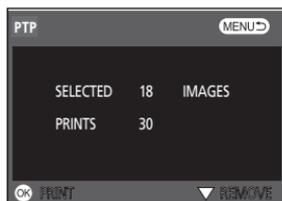
- 2 Use the USB cable that comes with the camera to connect the camera to a PictBridge compatible printer.



- 3 After you finish connecting, the PictBridge menu appears. Use the left and right arrows on the four-way button to choose the option you want and then press "OK".



- 4 If you choose "SELECT", use the left and right arrows on the four-way button to select pictures you want to print and use the up and down arrows on the four-way button to specify the number of copies. After all the settings are the way you want, press "OK" button to confirm the setting.



5 The total number of pictures you have selected and the number of copies that you set appear on the screen. Press "OK" button to print or press  "Menu" button to return to the PictBridge menu.



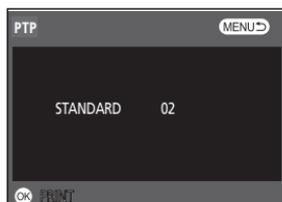
6 Select "ALL" to print all pictures, then press "OK".



7 The total number of images appears on the screen. Press "OK" button to print or press  "Menu" button to return to the PictBridge menu.



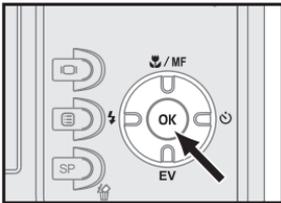
8 In the PictBridge menu, select "DPOF" by using   on the four-way button and then press "OK".



9 The message you specified with the "DPOF" procedure displays on the screen. Press "OK" button to print.



10 A message will appear on the screen as left figure, if there are no DPOF settings currently on the camera to control the printing operation. Go to set "DPOF" settings. See page 62.



11 To stop and cancel printing, press the "OK" button.

*Note : Warning message may be displayed during direct printing setting or printing as below. For more details on solutions, refer to the printer's instruction manual.*

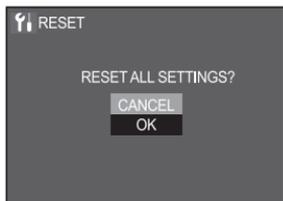
- \* PRINTER PAUSE
- \* CHECK PRINTER INK
- \* CHECK PRINTER PAPER
- \* PRINTER ERROR
- \* PRINTER INK ERROR
- \* PRINTER PAPER ERROR
- \* FILE ERROR
- \* FILE DECODE ERROR
- \* PRINT INFO TOO LARGE

### ■ Resetting Your Camera

You can restore the settings to default by using "LOAD DEFAULT" function.



**1** In the  menu, select  "RESET" and then press "OK".



**2** A confirmation dialogue will be displayed. Select "OK" to reset your camera.

**3** Press "OK" button to confirm the setting.

# Trouble Shooting

<b>Problem</b>	<b>Possible Cause</b>	<b>Solution</b>
The camera does not work	The power is off	Press the power button to turn it on
	The battery is inserted incorrectly	Reload the battery correctly
	The battery power is low or drained	Replace battery with new one
The picture cannot be taken when I press the shutter release button of the camera	The camera is not in capture mode	Slide the mode switch to capture mode
	You did not press the shutter release button down enough	Press the shutter release button all the way down
	The memory card is full	Replace with another memory card, upload the images to a computer or delete the images
	The camera is still saving the last image you took	Wait until image storing of the camera is finished
	The flash is still recharging	Wait for a few seconds until the recharging is completed.
	The battery power is low	Replace battery with new one
	You did not insert a memory card	Insert a memory card
	The flash does not fire	The battery power is low
The flash is off		Switch to other flash mode

Problem	Possible Cause	Solution
The images are blurry	The camera is moving when you press the shutter release button.	Hold the camera steady or use a tripod when taking pictures
	The focus brackets are not positioned on the subject	Position the focus brackets on your subject
	Use macro mode to shoot subjects within normal focus, or vice versa	Set the camera to shoot in normal focus or macro focus and then take the picture again
	The light is dim and the flash is off	Use a tripod and turn on the flash
	The lens is dirty	Gently clean the lens
The images are too bright	The flash is on when the subject is bright enough	Turn off the flash
	The camera is too close to the subject when taking pictures with the flash on	Move back from the subject and take the picture again
	Light sources other than the flash provide too much light	Avoid pointing the camera at bright light sources and use exposure compensation
The images are too dark	The flash is off and the subject is in dark	Turn on the flash
	The flash is on but the subject is not within the effective range of the flash	Move closer to the subject (The effective range of flash is 1.5M~2M)
The camera can not playback	The camera is not in the playback mode	Slide the mode switch to 
No sound in playback mode	The volume is too low	Adjust the volume

# Warning Indicators and Messages

Display	Display When ...	Solution
Date/time has been lost!	The system detects that the camera has lost date/ time after you turn it on.	Reset the date/time. See page 20.
Card locked!	Memory card is locked.	Slide the switch on the memory card to unlock.
Change battery!	Battery is empty. It will turn off automatically after 2 seconds.	Replace the battery with new ones.
Memory full!	There is insufficient room to save more images in internal memory or on the memory card that is inserted.	Replace another memory card or erase unwanted images. Before erasing, upload all the images to a computer.
Memory error!	Some problem occurred with the memory card or internal memory.	Turn off the camera. Remove and then insert the memory card again. If the same message appears, format the memory. See page 84.
No image	There are no images recorded in internal memory or on the memory card.	---
Image protected (All images protected)	You attempted to erase the protected images.	You have to remove the protection first and then delete it.
Cannot be effected	The function you attempted to perform can not be effected for the selected image in playback mode.	---

## Warning Indicators and Messages

Display	Display When ...	Solution
Not support!	The selected image cannot be displayed for playback due to an unsupported type with this image.	Ensure that images are the proper type for your camera.
Image error! ERR!	The selected image cannot be displayed for playback due to a problem with this image.	Use image processing software to view the image on a computer. If that cannot be done, the image is damaged.
Cannot magnify!	You attempted to magnify a video clip.	Magnification does not work with video clips.
Format fail!	Failed to format.	---
System error!	Error has occurred in the camera system.	Turn the camera off, remove and reinsert the battery, and turn the camera on. If the same message appears, contact your retailer.
	The camera is saving data or turning off.	Wait a few seconds for the camera to finish saving or turning it off.

# Specifications

## Type

- Recording media exchangeable 3x zoom digital camera with monitor LCD.

## Effective Pixels

- 8 Mega pixels

## Image Capture Unit

- Sensor : 1/1.8 inch-type interline CCD
- Image Size : 3296x2472 [8M]  
2816x2112 [6M]  
2304x1728 [4M]  
1600x1200 [2M]  
640x480 [VGA]

## Lens

- Focal length : f=7.8-23.4mm (35mm camera format equivalent : 38 - 114mm)
- f/-number : f/2.88 (Wide) - f/5.23 (Tele)
- Distance : 0.4m-infinity
- Macro : 0.05m - 0.6m (wide only)

## Digital Zoom

- 8.0 x

## Auto Focus (AF)

- Focusing type : TTL CCD AF
- AF sensing range : From EV8 to EV16
- AF area : Spot metering/ Center metering

### **Viewfinder**

- Real image optical viewfinder

### **LCD Monitor**

- 2.0"
- Frame coverage : approx. 90% ~ 100%

### **Shutter**

- 2-1/2000

### **Exposure**

- Exposure mode Program/ Tv/ Av/ Manual
- Metering mode Full Area / Central / Spot
- Exposure Compensation +/- 2.0 Ev (1/3 Ev Step)

### **Sensitivity**

- ISO equivalent approximately 100, 200, 400 or Auto

### **Self timer**

- 2, 5, 10 sec with red eye indicator

### **Build-in Flash**

- Auto control built-in type
- Range Wide: 0.6m – 3.0m  
Tele: 0.6 m – 2.5m

### **Storage**

- Media SD/ MMC
- Image file type JPEG (Exif v2.2), DCF v1.0, DPOF v1.1, PictBridge,

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## **I/O External**

- DC input DC 5V adaptor (regular plug)
- Video output NTSC and PAL (selectable)
- PC connection Mini-plug type USB, mini USB connector for serial cable

## **Power Sources**

- Rechargeable Li-ion batteries.
- AC adaptor (DC 5 volt) 

## **Dimensions**

- Size 99.5mm x 56.5mm x 25.7mm
- Weight 169 grams (without battery)

## **System Requirements: Windows**

- CPU Pentium II or more
- Memory At least 32MB
- OS Windows 98SE / Windows ME / Windows 2000 / Windows XP
- Interface USB 1.0/1.1
- VGA color monitor
- CD-ROM

