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# INTRODUCTION

## Overview

Congratulations on your purchase of the new digital camera.

Capturing high-quality digital images is fast and easy with this state-of-the-art smart camera. Equipped with a 6.2 Mega pixel CCD, this camera is capable of capturing images with a resolution of up to 2816 x 2112 pixels.

## Package Contents

Carefully unpack your camera and ensure that you have the following items.

### Common Accessories:

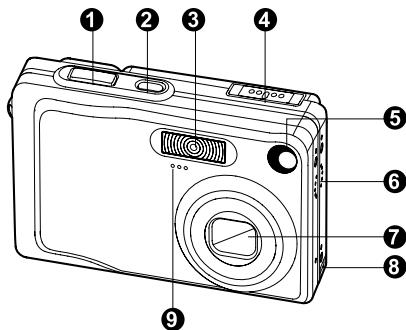
- Digital camera
- A/V cable
- User's manual
- USB cable
- Camera strap
- Conversion adapter




### Optional Accessories:

- SD card
- AC power adapter
- Rechargeable lithium-ion battery
- Software CD-ROM
- Camera pouch

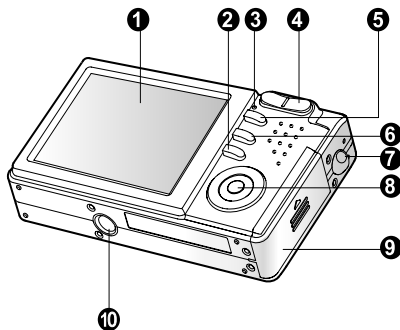
# GETTING TO KNOW THE CAMERA





## Front View



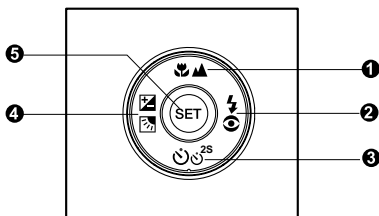
#	Name	Description
1.	Shutter button	Focuses and locks the exposure of the camera when pressed halfway down, and capture the image when pressed all the way down.
2.	<b>POWER</b> button	Turns the camera power on and off.
3.	Flash	Provides flash illumination.
4.	Mode switch	Sets the camera mode.  Still image mode Selects this when capturing still images.  Video mode Selects this when recording video clips.  Playback mode Performs image playback and deletion.
5.	Self-timer LED (AF auxiliary LED)	Blinks red during Self-timer mode until image is captured. Lights red for auto focusing when capture in dark place.
6.	Speaker	Produces camera sounds and plays recorded audio.
7.	Lens	3x optical zoom lens allows you to capture telephoto and wide-angle images.
8.	Conversion adapter terminal	Allows you to connect the conversion adapter to an AC power adapter to the camera to operate the camera without battery, or to charge rechargeable lithium-ion battery or to connect a USB cable or an A/V cable to the camera.
9.	Microphone	Records audio clips.

## Rear View



#	Name	Description
1.	LCD monitor	Provides menu information to operate the camera, and previews the image before capturing it and review it afterwards.
2.	 Display button	Turns the OSD display on and off.
3.	Status LED	Displays the camera current state.
4.	 Zoom in button	Zooms the lens to telephoto position.
	 Zoom out button	Zooms the lens to wide-angle position.
5.	<b>MENU</b> button	Toggles OSD menu on and off.
6.	 Erase button	Allows you to erase the image.
7.	Strap holder	Camera strap attachment.
8.	<b>SET</b> /Direction button	Allows you to scroll through menus and image, and then select choices.
9.	Battery/SD card cover	Allows access to the battery and insert or remove the memory card.
10.	Tripod socket	Allows tripod mounting.

## SET /Direction button



#	Name	Description
1.	▲ button 🌸/▲ Focus button	Scrolls upwards. Allows you to choose the appropriate focus setting.
2.	▶ button ⚡ Flash button	Scrolls right. Allows you to choose the appropriate flash setting.
3.	▼ button 🕒 <sup>2S</sup> Self-timer button	Scrolls downwards. Allows you to toggle the self-timer on and off, selects the desired self-timer mode.
4.	◀ button 📷/📷 Exposure compensation / Backlight correction button	Scrolls left. Allows you to toggle the exposure compensation / backlight correction on and off.
5.	<b>SET</b> button	Enters the menu page and confirms the chosen setting.





















## Status LED Indicator

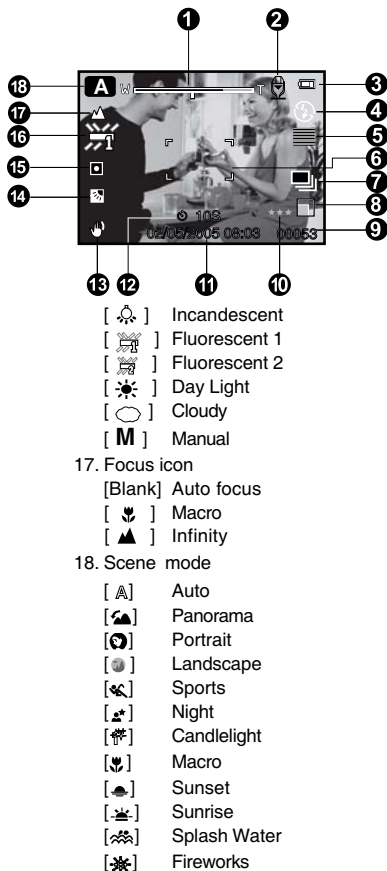
This describes the color and state of the status LED.

Color	State	During power off	During photography	During connection to a PC
Green	On	-	Ready for shot.	System ready.
Red	On	Battery charging in progress.	When the image is not in focus.	-
	Off	The completion of battery charge.	-	-
	Flashing	-	Accessing files in progress. Flash charging in progress.	Accessing files in progress.


# LCD Monitor Icons

## Photography mode [ ]-Still image mode

- Zoom status
- Voice memo
- Remaining battery status
  -  Full battery power
  -  Medium battery power
  -  Low battery power
  -  No battery power
- Flash icon
  -  Auto
  -  Red-eye Reduction
  -  Forced Flash
  -  Flash Off
-  Histogram
- Focus area (When the shutter button is pressed halfway)
- Capture mode icon
  - [Blank] Single
  -  Continuous
  - [ **AEB** ] AEB
- Image size
  -  2816 x 2112
  -  2272 x 1704
  -  1600 x 1200
  -  640 x 480
- Possible number of shots
- Quality
  - [ \*\*\* ] Fine
  - [ \*\* ] Normal
  - [ \* ] Economy
- Date and time
- Self-timer icon
  -  10 sec.
  -  2 sec.
  -  10+2 sec.
- Unsteady hold warning icon
-  Exposure compensation
-  Backlight correction
- Metering icon
  - [Blank] Average
  -  Spot
- White balance icon
  - [Blank] Auto



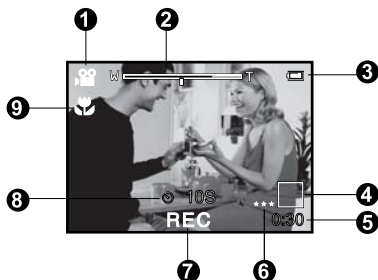
### NOTE

- Each press of the  button switches one step in the sequence of Normal display (displaying the icons, etc), Normal and Histogram, Composition Line display, No OSD display

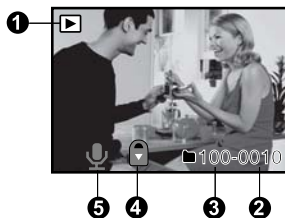


**Photography mode [ 📷 ]**

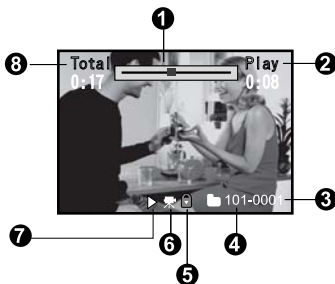
1. [ 📷 ] Video mode
2. Zoom status
3. Remaining battery status
4. Image size
5. Possible recording time / elapsed time
6. Quality
7. Recording indicator
8. Self-timer icon
9. Focus icon

**Playback mode [ ▶ ] -Still image playback**

1. Playback mode
2. File number
3. Folder number
4. Protect icon
5. Voice memo

**Playback mode [ ▶ ] -Video playback**

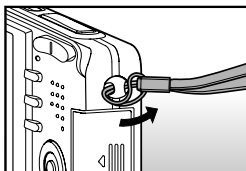
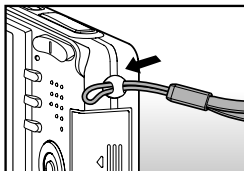
1. Video status bar
2. Elapsed time
3. File number
4. Folder number
5. Protect icon
6. Video mode
7. Playback mode
8. Total time



## GETTING STARTED

### Attaching the Camera Strap

Attach the camera strap as shown in the illustration.

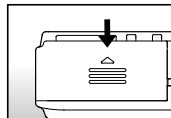
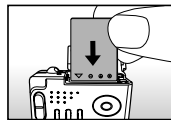
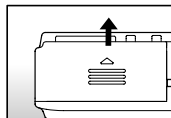


### Inserting and Removing the Battery (Optional Accessory)

We highly recommend using specified rechargeable lithium-ion battery (3.7V, 650mAh) to fully demonstrate this camera's function. Charge the battery before using the camera. Make sure that the power of the camera is off before inserting or removing the battery.

#### Inserting the Battery

1. Open the battery/SD card cover.
2. Insert the battery in the correct orientation shown.
  - Tilt the battery lock lever in the direction of the arrow and orient the battery so that its label is facing to the rear side of the camera, and then insert the battery.
3. Close the battery/SD card cover.



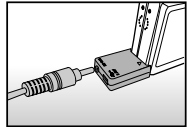
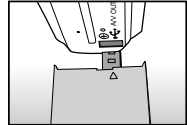
#### Removing the Battery

Open the battery/SD card cover and then release the battery lock lever. When the battery has come out a little, slowly pull it out the rest of the way.

## Charging the Battery

Using the optional AC power adapter/charger may charge the battery or operate the camera as power supply. Make sure that the power of the camera is off and then insert the battery before starting.

1. Insert the conversion adapter into the conversion adapter terminal of the camera as shown in the illustration.
2. Insert one end of the AC power adapter/charger into the DC IN terminal of the conversion adapter.
3. Insert the other end of the AC power adapter/charger into a wall outlet.



- The status LED lights red when charging is started and goes out when charging is completed.
- It is recommended to fully discharge or exhaust the battery before being charged.
- Charging time varies according to the ambient temperature and the status of battery.



### NOTE

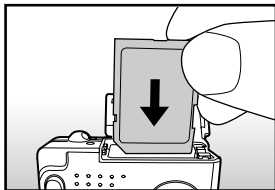
- This camera must be used with specified AC power adapter/charger. Damage caused by the use of an incorrect adapter is not covered under the warranty.
- When the charging is not started even if following the above procedure, turn the power on at any mode after LCD monitor turns on, and then turn the power off.
- The battery may feel warm after it has been charged or immediately after being used. This is normal and not a malfunction.
- When using the camera in cold areas, keep the camera and battery warm by holding them inside your outer cloth.
- If you open the battery cover without removing the battery, the power will not be terminated. If you remove the battery, you have to insert the battery again in a period of 2 hours in order to make sure that the date and time will not be reset.
- We recommend the battery should be charged 8 hours as first time use.
- Always first unplug the AC power adapter/charger from the power outlet before unplugging it from the camera.
- Make sure that the AC power adapter/charger is always unplugged from the power outlet when it is not used, as it consumes power even if no camera is connected, and moreover may increase a risk of danger.
- Never expose the battery or AC power adapter to dripping or sprayed water! Moreover, never put objects or containers filled with liquids (for example, a vase) onto the camera!

## Inserting and Removing the SD Card (Optional Accessory)

The digital camera comes with approx. 16 MB of internal memory (10 MB for image storage), allowing you to store captured still images or movie clips in the digital camera. However, you can also expand the memory capacity by using an optional SD card so that you can store more files.

### Inserting the SD card

1. Open the battery/SD card cover.
2. Insert the SD card in the correct orientation shown.
  - Hold the SD card with its front side of the SD card (printed arrow) facing the rear side of the camera, and then insert the card as far as it can go.
3. Close the battery /SD card cover.



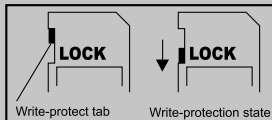
### Removing the SD card

Open the battery/SD card cover, press lightly on the edge of the SD card and it will eject.



#### NOTE

- To prevent valuable data from being accidentally erased from an SD card you can slide the write-protected tab (on the side of the SD card) to "LOCK".
- To save, edit or erase data on an SD card, you must unlock the card.
- Be sure to format an SD card with this digital camera before using it. Refer to section in this manual titled "Formatting the SD Card or Internal Memory" for further details.
- Before inserting or removing the SD card, make sure that the power of the camera is off. The camera will automatically turn off when inserting or removing the SD card.












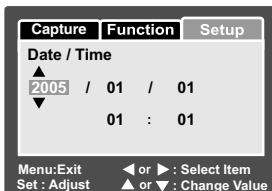
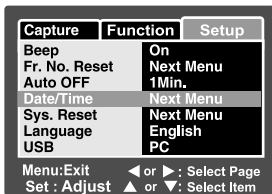
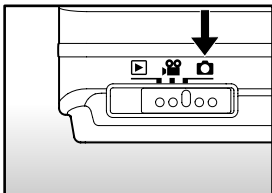
## Setting the Date and Time

The date/time needs to be set if/when:

- Camera is turned on for the first time.
- Camera is turned on after leaving the camera without the battery for an extended period of time.




When the date and time information is not displayed on the LCD monitor, follow these steps to set the correct date and time.

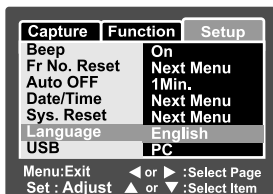
1. Slide the mode switch to [  ] or [  ].
2. Press the **MENU** button and select [Setup] menu with the  button.
3. Select [Date/Time] with the  /  buttons and press the **SET** button.
  - The Date/Time setting screen will be displayed.
4. Select the item's field with the  /  buttons and adjust the value for the date and time with the  /  buttons.
  - The date and time is set in the order year-month-day-hour-minute.
  - The time is displayed in 24-hours format.
5. After confirming all settings are correct, press the **SET** button.



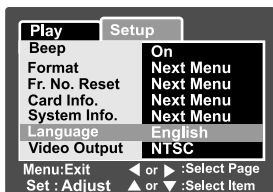
## Choosing the Language

Specify in which language menus and messages are to be displayed on the LCD monitor.

- Slide the mode switch to [  ] or [  ] or [  ].
- Press the **MENU** button and select [Setup] menu with the **▶** button.
- Select [Language] with the **▲** / **▼** buttons and press the **SET** button.
  - The Language setting screen will be displayed.
- Select the displayed language with the **▲** / **▼** buttons and press the **SET** button.
  - The setting will be stored.



[  ]/[  ] Mode

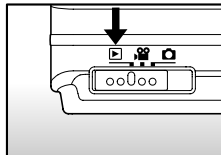







[  ] Mode

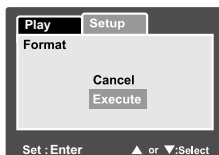
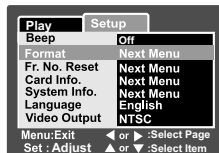
## Formatting the SD Card or Internal Memory

This utility formats the internal memory (or memory card) and erases all stored images and data.

1. Slide the mode switch to [  ].



2. Press the **MENU** button and select [Setup] menu with  button.
3. Select [Format] with the  /  buttons, then press the **SET** button.
4. Select [Execute] with the  /  buttons, and press the **SET** button.
  - To cancel formatting, select [Cancel] and press the **SET** button.



- To format the internal memory, do not insert an SD card into the camera. Otherwise, you will format the SD card.
- Formatting the SD card also erases the protected images. All data other than images are also erased. Before formatting the card, make sure that all the images are unnecessary.
- Formatting is an irreversible action and data cannot be recovered at a later time.
- An SD card having any problem cannot be properly formatted.



## Setting Image Resolution and Quality

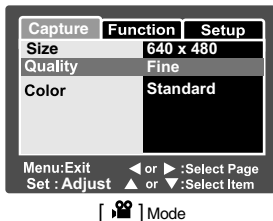
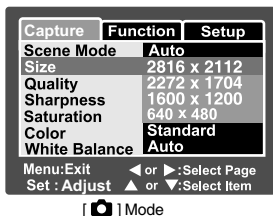
Resolution and quality settings determine the pixel size (dimension), image file size, and compression ratio for your images. These settings affect the number of images that can be stored. As you get to know the camera, it is recommended that you try each quality and resolution setting to get an appreciation for the effects that these settings will have on your images.

Higher resolution and higher quality images offer the best photographic results but produce large file sizes. Therefore, few images will take up a lot of memory space.

High resolution and quality settings are recommended for printed output and situations requiring the finest detail. Lower resolution/quality images take up less memory space and may be quite suitable for sharing images via e-mail, in a report, or on a web page.

To change image resolution or image quality, perform these steps below:

- Slide the mode switch to [  ] or [  ].
- Press the **MENU** button.
  - [Capture] menu is displayed.
- Select [Size] with the **▲** / **▼** buttons, and press the **SET** button.
- Select the desired setting with the **▲** / **▼** buttons, and press the **SET** button.
- Select [Quality] with the **▲** / **▼** buttons, and press the **SET** button.
- Select the desired setting with the **▲** / **▼** buttons, and press the **SET** button.
- To exit from the menu, press the **MENU** button.




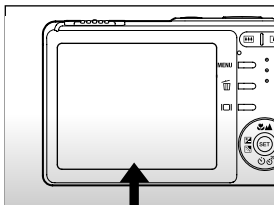


# PHOTOGRAPHY MODE

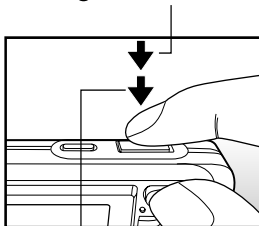
## [ ] Still Image Mode

Your camera is equipped with a 2.5" TFT color LCD monitor to help you compose images, playback recorded images/movie clips or adjust menu settings.

1. Press the **POWER** button to turn the power on.
2. Slide the mode switch to [  ].
3. Compose your image in the LCD monitor.
4. Press the shutter button.
  - Pressing the shutter button down halfway automatically focuses and adjusts the exposure, and pressing the shutter button down fully captures the images.
  - The focus area frame turns blue and the status LED lights green when the camera is in focus and the exposure is calculated.
  - When the focus or exposure is not suitable, the frame of the focus area turns yellow and the status LED turns red.
  - If the photographic preview is set to "On", the captured image will be displayed while the image is being recorded onto the SD card/internal memory.






① Press down halfway

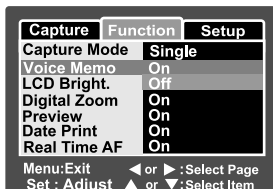


② Press down fully

## Recording Voice Memos

A voice memo can be recorded once for 30 seconds at still image mode immediately following a still image captured.

- Slide the mode switch to [  ].
- Press the **MENU** button, and select the [Function] menu with the **▶** button.
  - [Function] menu is displayed.
- Select [Voice Memo] with the **▲** / **▼** buttons, and press the **SET** button.
- Select [On] with the **▲** / **▼** buttons, and press the **SET** button.
- Press the **MENU** button to exit from the menu.
  - [  ] icon is displayed on the screen.
- Compose the image, press the shutter button down halfway, then press it down fully.
  - [VOICE RECORDING] is displayed on the screen immediately, and the voice memo recording starts.
- Press the shutter button one more time during recording, or wait for 30 seconds
  - [VOICE RECORD END] will be displayed and the recording will end.
  - A [  ] icon is displayed with images that have been recorded with a voice memo.







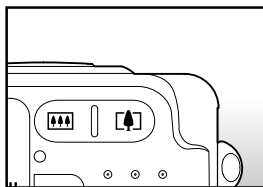
**NOTE**

- Voice memo is only available in [Single] capture mode.
- Voice memo is automatically fixed at [Off] in [Continuous] or [AEB] capture mode.

## Using the Optical Zoom




Zoom photography allows you to capture zoom images up to 3 times the size or wide-angle photography depending on the distance up to the subject. You can also enlarge the center of the screen and capture images in the digital zoom mode.

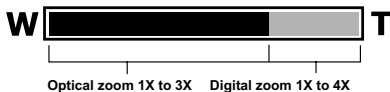
- Slide the mode switch to [  ] or [  ].
- Compose the image with the zoom button.
  - Pressing the  button zooms in on the subject, and enlarges the subject on the LCD monitor.
  - Pressing the  button provides a wider angle image.
  - The lens position moves according to the zoom button setting.
- Press the shutter button down halfway, then press it down fully.



## Using the Digital Zoom

Using a combination of 3 times optical zoom and 4.0 times digital zoom permits zoom photography of up to 12 times to suit the subject and the distance. The digital zoom is a compelling feature, the more an image is enlarged (zoomed), the more pixelated (grainier) the image will appear.

1. Slide the mode switch to [  ] or [  ].
2. To enable the digital zoom:
  - a. Press the **MENU** button.
  - b. Select [Function] with the ◀ / ▶ buttons.
  - c. Select [Digital Zoom] with the ▲ / ▼ buttons, and press the **SET** button.
  - d. Select [On] with the ▲ / ▼ buttons again, and press the **SET** button.
  - e. Press the **MENU** button to exit from the menu screen
  - f. To activate the digital zoom, press and hold the  button completely until the image on the LCD monitor expands.



3. Press the shutter button to capture a “zoomed” image.





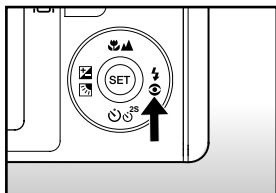
### NOTE

- The zoom setting is automatically cancelled by either turning the camera off or the activation of the Auto OFF function.





## Setting the Flash

Set the flash for capturing images. The flash firing mode can be set to suit for the photographic conditions.

1. Slide the mode switch to [  ].
2. Toggle the  button to select the desired flash mode.







The available flash settings in different photography modes:

					
Scene Mode	Auto	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Panorama	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Portrait	X	<input type="radio"/>	X	X
	Landscape	X	X	X	<input type="radio"/>
	Sports	X	X	X	<input type="radio"/>
	Night	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Candlelight	X	X	X	<input type="radio"/>
	Macro	X	X	X	<input type="radio"/>
	Sunset	X	X	X	<input type="radio"/>
	Sunrise	X	X	X	<input type="radio"/>
	Splash Water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fireworks	X	X	X	<input type="radio"/>	
Capture Mode	Single	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Continuous	X	X	X	<input type="radio"/>
	AEB	X	X	X	<input type="radio"/>
Focus Mode	Auto	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Macro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Infinity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



\* This table is for reference only and varies according to different combination of photography modes.




\* : Available X: Unavailable

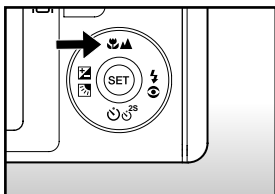
The available flash settings in different photography modes:

Flash mode	Description
[  ] Auto	The flash fires automatically to suit the photographic conditions.
[  ] Red-eye Reduction	<p>Use this mode to reduce the red-eye phenomenon when you want to capture natural-looking images of people and animals in low-light conditions.</p> <p>When capturing images, the red-eye phenomenon can be reduced by asking the subject (person) to look at the camera or get as close to the camera as possible.</p> <p>The flash always fires twice, and the image is captured at the second firing.</p>
[  ] Forced Flash	In this mode, the flash always fires. Use this mode for photographing under artificial light such as backlighting.
[  ] Flash off	Use this mode when capturing images using indoor lighting, for stages and indoor competitions, and when the subject is too far away for the flash to be effective.



## Setting the Focus

Images can be captured with the distance to the subject set by auto focus, [  ] macro or [  ] infinity.

1. Slide the mode switch to [  ] or [  ].
2. Toggle the  button to select the desired focus mode.










The table below will help you choose the appropriate focus mode:

Focus mode	Description
[ Blank]Auto Focus	Selects this when you want to leave the settings up to the camera so that you can capture images without paying attention to settings. Approximately 50 cm to infinity (both Wide and Tele)
[  ] Macro	Selects this when you want to capture a close up image. Wide (zoom off) : Approximately 6 cm to infinity Tele (at optical zoom 3x) : Approximately 35 cm to infinity
[  ] Infinity	Selects this when you want to capture images of subjects at a distance of infinity.



## Setting the Self-timer

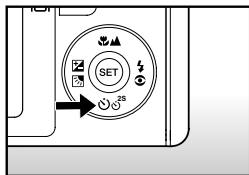
This setting allows images to be captured with the self-timer.

- Slide the mode switch to [  ] or [  ].
- Toggle the  button to select the setting.
  - For the [  ] mode.

OFF → [  10s ] 10 sec. → [  2s ] 2 sec.  
 ↑ [  10+2s ] 10+2 sec. ←




- For the [  ] mode.

OFF → [  10s ] 10 sec. → [  2s ] 2 sec.





- Compose the image, press the shutter button down halfway, then press it down fully.
  - The self-timer LED flashes and the image is captured after the preset time has elapsed.
  - The countdown is displayed on the LCD monitor.
  - To cancel the self-timer during operation, press the shutter button halfway.




The table below will help you choose the appropriate self-timer mode:

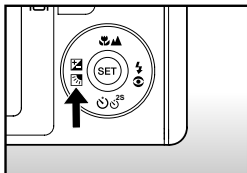
Self-timer mode	Description
[  10s ] 10 sec.	The image is captured about 10 seconds after the shutter button is pressed.
[  2s ] 2 sec.	The image is captured about 2 seconds after the shutter button is pressed.
[  10+2s ] 10+2 sec.	One image is captured about 10 seconds after the shutter button is pressed, and the other image is captured again after 2 seconds. This is convenient when capturing group images in succession.



## Exposure Compensation/Backlight Correction




Images can be captured with the overall screen intentionally made brighter or darker. These settings are used when a suitable brightness (exposure) cannot otherwise be obtained in circumstance where the difference in brightness between the subject and the background (the contrast) is large, or when the subject that you want to photograph is very small within the screen. Exposure can be set in 0.3 EV units.

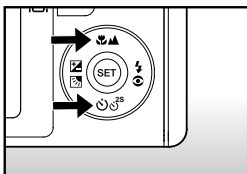
- Slide the mode switch to [  ] and press the  button.

- Each press of the  button displays the setting in the order of [Blank], [  ] Backlight Correction, and [  ] Exposure Compensation.



- Set the exposure value with the  /  buttons.

- Press the  button to increase the value.
- Press the  button to decrease the value.
- The setting range of the exposure compensation is as follows.  
-2.0, -1.7, -1.3, -1.0, -0.7, -0.3, 0, +0.3, +0.7, +1.0, +1.3, +1.7, +2.0
- Press the  button to confirm the setting.
- The larger the value, the brighter the image. The smaller the value, the darker the image. The set value is displayed on the screen.




### Effective Subjects and Set Values

- + (positive) compensation
  - \* Printed matter comprising black text on whitish paper
  - \* Backlighting
  - \* Bright scenes or strong reflected light such as ski slopes
  - \* When the sky accounts for a large area on the screen
- (negative) compensation
  - \* People illuminated by a spotlight, in particular, against dark background
  - \* Printed matter comprising white text on blackish paper
  - \* Weak reflecting bodies such as evergreen trees or darkish leaves
- Backlight correction (+1.3, fixed)
  - \* When the background is bright and the subject is dark.
  - \* When subjects (people) have a light source such as the sun to their backs.















## Setting the Scene Mode

By simply selecting one of the following 12 modes, you can capture the image with most appropriate settings.

1. Slide the mode switch to [  ].
  - a. Press the **MENU** button.
  - b. Select [Scene Mode] with the **▲/▼** buttons, and press the **SET** button.
  - c. Select the desired scene mode with the **▲/▼** buttons, and press the **SET** button.
2. Compose the image, press the shutter button down halfway, and then press it down fully.

The table below will help you choose the appropriate scene mode:

Scene mode	Description
[  ] Auto	Camera automatically determines settings needed for the best picture.
[  ] Panorama	To create 360° panoramic images.
[  ] Portrait	To photograph a person and blur out the background.
[  ] Landscape	To photograph mountains, forests or other landscape scenery rich in color.
[  ] Sports	To photograph fast-moving objects.
[  ] Night	To photograph scenes at night.
[  ] Candlelight	Softer focus and daylight white balance (tripod use suggested).
[  ] Macro	For close-up photography.
[  ] Sunset	Small aperture setting and daylight white-balance, ideal for use where shades of red are prominent.
[  ] Sunrise	High color saturation and deeper red shades.
[  ] Splash Water	Fast shutter speed.
[  ] Fireworks	Small aperture setting and slow shutter speed (tripod use suggested).


The available capture menu in scene mode:

	Auto	Panorama	Portrait	Landscape	Sports	Night	Candlelight	Macro	Sunset	Sunrise	Splash Water	Fireworks
Size	○	○	○	○	○	○	○	○	○	○	○	○
Quality	○	○	○	○	○	○	○	○	○	○	○	○
Sharpness	○	○	X	X	X	X	X	X	X	X	X	X
Saturation	○	○	X	X	X	X	X	X	X	X	X	X
Color	○	○	X	X	X	X	X	X	X	X	X	X
White Balance	○	○	X	X	X	X	X	X	X	X	X	X
Manual WB	○	○	X	X	X	X	X	X	X	X	X	X
ISO	○	○	X	X	X	X	X	X	X	X	X	X
Metering	○	○	X	X	X	X	X	X	X	X	X	X

\* ○: Available X: Unavailable


## Setting the Panorama Mode

This mode is designed to make it easier to take a series of shots then stitch them together with software to make a single photo. You can capture a photographic subject that won't fit into a single frame, such as a landscape, and stitch it together later with a program such as Cool 360 or Photoshop application.

1. Slide the mode switch to [  ].
  - a. Press the **MENU** button.
  - b. Select [Scene Mode] with the ▲ / ▼ buttons, and press the **SET** button.
  - c. Select [Panorama] with the ▲ / ▼ buttons, and press the **SET** button.
2. Shoot the first image.
  - The next image appears beside the previous image.
3. Orient the camera so that the second frame overlaps a small portion of the photographic subject of the first image and press the shutter button to capture the next image.
4. Follow the same steps to capture subsequent images in the sequence.
5. Finish the sequence by pressing the **MENU** button or switch to another mode after the last image has been recorded.

## [ ] Video Mode

This mode allows you to record video clips at a resolution of 320 x 240 / 640 x 480 pixels. You can select audio to be recorded or not.

1. Slide the mode switch to [  ].
2. Compose the image with the zoom button.
3. Press the shutter button.
  - The recording of the video clip will start.
  - Pressing the shutter button one more time will end the recording of the video clip.
  - The recording time depends on the storage size and the subject of the image to be recorded.
  - Zoom function cannot be used during video recording.



### NOTE

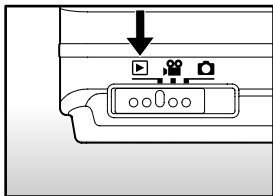
- When recording a video clip, flash photography is not possible.
- The available Capture menu options are: [Size], [Quality] and [Color].
- The available Function menu options are: [Audio], [LCD Bright.] and [Digital Zoom].

## [ ▶ ] PLAYBACK MODE

### Playing Back Still Images

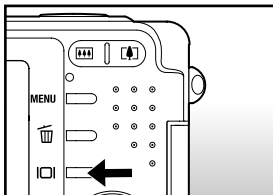
You can play back the still images on an LCD monitor.

- Slide the mode switch to [ ▶ ].
  - The last image appears on the screen.
- The images can be fed in reverse or fed forward with the ◀ / ▶ buttons.
  - To view the previous image, press ◀.
  - To view the next image, press ▶.



### Image Display Information

You can switch the state of the information display by pressing the [ ] button when playing back images. Each press of the [ ] button switches the information display state in the following order:




#### NOTE

- Pressing the ▲ / ▼ buttons during image playback will result in a 90 degree rotated display. The ▼ button rotates the image clockwise and displays it, whereas the ▲ button rotates the image counterclockwise and displays it. A press of the button opposite to the direction in which the image was rotated will return the image to the normal display.
- [ ] icon is displayed with the video data. Video clips cannot be rotated.
- A [ ] icon is displayed with images which have an audio memo recorded.
- Press the **SET** button to playback the voice memo data.

## Playing Back Video Clips

You can play back video clips recorded on the LCD monitor. You can also play back sound if you recording with the audio.

1. Slide the mode switch to [  ].
  - The last image appears on the screen.
2. Select the desired video clip with the ◀ / ▶ buttons.
3. Press the **SET** button.
  - A press of the ▶ / ◀ buttons during playback allows fast forward play / fast reverse play.
  - To stop video playback, press the ▼ button.  
This stops playback and returns to the start of the video clip.
  - To pause video playback:  
Press the **SET** button.  
This pauses video playback.  
To cancel pause, press the **SET** button again.

## Button Operations

	During Playback	During a Pause	During a Stop
▶ button	<p>Forward play</p> <p>Each press of the ▶ button moves the operation one step in the sequence of 4 times fast forward play, and regular play.</p>	-	The next image is displayed.
◀ button	<p>Reverse play</p> <p>Each press of the ◀ button moves the operation one step in the sequence of 4 times fast reverse play, and regular play.</p>	-	The pervious image is displayed.
▼ button	Stop (The display returns to the 1st frame playback)		-
<b>SET</b> button	Pause	Canceling pause	Regular forward play




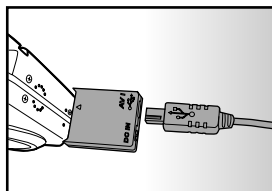
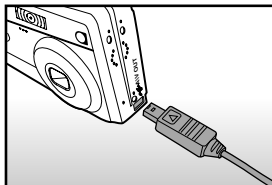
### NOTE

- Video clips cannot be displayed rotated or enlarged.
- The playback information will not be displayed on the LCD monitor with video clips.

## Playing Back Still Images/Video Clips on a TV

You can also playback your images on a TV screen. Before connecting to any devices, make sure to select NTSC / PAL system to match the video output system of the video equipment you are going to connect to the camera, then turn all connected devices off. It is also recommended to use the AC power adapter/charger while transferring the recorded images and video files.

1. Slide the mode switch to [  ].
2. Connect one end of the A/V cable to the conversion adapter terminal of the camera.
  - If you use the conversion adapter to connect the A/V cable, insert the conversion adapter into the conversion adapter terminal of the camera first, and then connect one end of the A/V cable to the A/V terminal of the conversion adapter.
3. Connect the other end to the A/V input socket of the TV set.
4. Turn the TV and camera on.
5. Play back the still images / video clips.
  - The method of operation is the same as playing back still images and video clips on the camera.





### NOTE

- Refer to section in this manual titled “Video Output” in the **Setup Menu (In Playback Mode)** for further details.

## Attaching Voice Memos

A maximum of 30 seconds of audio can be recorded like a memo for photographed still images. The voice memo can be recorded only once.

1. Slide the mode switch to [  ].
  - The last image appears on the screen.
2. Select the image that you want to attach the voice memo with the ◀ / ▶ buttons.
3. Press the shutter button.
  - [VOICE RECORDING] is displayed on the screen and recording starts.
4. To stop recording voice memo during recording, press the shutter button again.
  - [VOICE RECORD END] will be displayed and the recording will end. A [  ] icon is displayed with images that have been recorded with a voice memo.

### Playing back voice memo

A press of the **SET** button displays [VOICE PLAYBACK] and plays back the voice memo.















#### NOTE

- Voice memo is only available for still images.






## Thumbnail Display

This function allows you to view 9 thumbnail images on the LCD monitor at the same time, which can quickly search for the image that you want.

- Slide the mode switch to [  ].
  - The last image appears on the screen.
- Press the  button.
  - The images are displayed in the thumbnail display.
  - Images that have been selected with the  /  /  /  buttons will be indicated by a green frame.
  - When there are ten or more images, scroll the screen with the  /  buttons.
- Press the  /  /  /  buttons to select the image to be displayed at regular size.
- Press the **SET** button.
  - The selected image is displayed at its regular size.















### NOTE

- A [  ], [  ], [  ] icon will be displayed in a thumbnail display.

## Zoom Playback

This mode also allows you to enlarge your image on the selected portion of the image to check for small details.

- Slide the mode switch to [  ].
- Press the  /  buttons to select the image you want to enlarge.
  - You can also select the image you want to enlarge from the thumbnail display.
- Adjust the zoom ratio with the  /  buttons.
  - Pressing the  button enlarges the image.
  - To return to normal magnification, press the  button.
  - The image is displayed enlarged, and the magnification factor is displayed on the LCD monitor.
- Press the  /  /  /  buttons to select the area to enlarge.
- To return to regular display, toggle the  button until the regular display appears on the screen.



Entire image      Current position of enlargement




### NOTE

- The range of magnification factor is from 1x to 4x in 0.5x increments.

## Slideshow Display

The slideshow function enables you to playback your still images automatically in order one image at a time.

- Slide the mode switch to [  ].
- Press the **MENU** button.
  - The playback menu is displayed.
- Select [Slide Show] with the **▲** / **▼** buttons, and press the **SET** button.
  - The slideshow starts.
- Set the playback interval with the **▲** / **▼** buttons, then press the **SET** button.
- To stop the slide show during playback, press the **SET** button.
  - The image is displayed on the screen when you press the **SET** button.






### NOTE

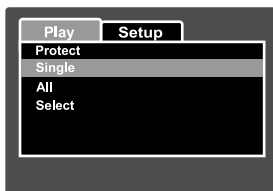
- The Auto OFF function does not operate during slide show.
- All still images in the folder are automatically played back.
- Video clips are displayed the first frame image, and they are not played back.
- You can adjust the slide show display interval within the range of 3 sec., 5 sec., 10 sec.
- Slideshow display is only activated when more than 2 images are stored in the SD card/internal memory.

## Protecting Images

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

### Protecting Images

- Slide the mode switch to [  ].
- Select the image that you want to protect with the ◀ / ▶ buttons.
- Press the **MENU** button.
  - The playback menu is displayed.
- Select [Protect] with the ▲ / ▼ buttons, and press the **SET** button.
- Select [Single] or [All] with the ▲ / ▼ buttons, and press the **SET** button.
- Select [Set] with the ▲ / ▼ buttons, and press the **SET** button.
  - Protect is executed and the camera returns to the playback mode.
  - The protect icon (  ) is displayed with protected images. When [All] has been selected, (  ) is displayed with all the images.




## Canceling the Protection

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

1. Select [Protect] with the ▲ / ▼ buttons from the playback menu, and press the **SET** button.
2. Select [Single] or [All] with the ▲ / ▼ buttons, and press the **SET** button.
3. Select [Cancel Protect] with the ▲ / ▼ buttons, and press the **SET** button.
  - The removal of image protection is executed and the camera returns to the playback mode.

## Protecting multiple images simultaneously

1. Select [Protect] with the ▲ / ▼ buttons from the playback menu, and press the **SET** button.
2. Select [Select] with the ▲ / ▼ buttons, and press the **SET** button.
  - The images are displayed in the thumbnail display.
3. Select the image you want to protect with the ▲ / ▼ / ◀ / ▶ buttons, and press the **□** button.
  - The protect icon [  ] is displayed with protected images. Selecting a protected image and pressing the **□** button again will cancel the protection. This procedure is repeated to select multiple images.
4. Press the **SET** button.
  - Protection and cancellation the protection are executed and the camera returns to playback mode.




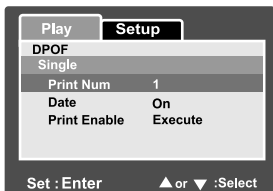
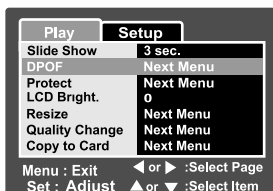
### NOTE

- Formatting the SD card undoes the protection, and erases all images.

## DPOF Settings

DPOF is the abbreviation for Digital Print Order Format, which allows you to embed printing information on your memory card. You can select the images to be printed and how many prints to make with the DPOF menu in the camera and insert the memory card to the card compatible printer. When the printer starts printing, it will read the embedded information on the memory card and print the specified images.

- Slide the mode switch to [  ].
- Select the image that you want to set DPOF with the ◀ / ▶ buttons.
- Press the **MENU** button.
  - The playback menu is displayed.
- Select [DPOF] with the ▲ / ▼ buttons, and press the **SET** button.
  - The DPOF setting screen is displayed.
- Select [Single] or [All] with the ▲ / ▼ buttons, and press the **SET** button.
  - Single: Sets DPOF for each individual image.
  - All: Sets DPOF for all images at once.
- Select [Print Num.] with the ▲ / ▼ buttons, and press the **SET** button.
  - This displays the number of prints setting screen.
- Set the number of prints with the ▲ / ▼ buttons, and press the **SET** button.
  - You can set up to 9 prints for each image.



8. Select [Date] with the ▲ / ▼ buttons, and press the **SET** button.
  - The date setting screen appears.
9. Select date to [On] or [Off] with the ▲ / ▼ buttons, and press the **SET** button.
  - On: The date of the photograph will also be printed.
  - Off: The date of the photograph will not be printed.
10. Select [Print Enable] with the ▲ / ▼ buttons, and press the **SET** button.
11. Select [Execute] with the ▲ / ▼ buttons, and press the **SET** button.
  - This creates a file containing the DPOF information, and when the operation is finished, the screen returns to the playback mode.

**NOTE**

- The date that is printed on the photo is the date set on the camera. To print the correct date on the photo, set the date on the camera before you photograph the image. Refer to section in this manual titled “**Setting the Date and Time**” for further details.
- Before you perform the DPOF settings on your camera, always remember to copy your images from the internal memory to an SD card first.
- DPOF function is only activated when SD card is inserted into the camera and saved images captured by this camera.

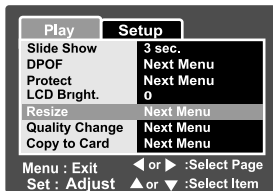
## Resizing an Image

Resizes a previously saved image.

Resizing replaces the original image with the changed image. Only resizing to the smaller size is available.

The following images cannot be resized:

- Image size (640 x 480)
- Image captured with other camera
- Protected images
- Video clips
- Images cannot be resized when the SD card is write-protected



1. Select the image that you want to resize.
2. Press the **MENU** button.
3. Select [Resize] with the ▲/▼ buttons, and press the **SET** button.
4. Select the image size that you want to change with the ▲/▼ buttons, and press the **SET** button.
  - To quit resizing, press the **MENU** button.
  - When resizing ends, the screen returns to playback mode.



### NOTE

- It is possible to reduce the size of an image. It is not possible to increase the size of an image, or to restore size after it has been decreased.



## Compressing an Image

Changes the quality (compression rate) of a recorded image.

Compresses images down to half of their size or more, overwrites an old size images with a newly compressed image. Only quality changing to the lower quality level is available.

The following images cannot be resized:

- (Economy) quality images
- Images captured with other camera
- Protected images
- Video clips
- Images cannot be changed quality when the SD card is write-protected






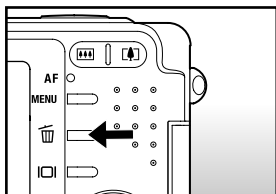
1. Select the image that you want to change its quality.
2. Press the **MENU** button.
3. Select [Quality Change] with the ▲ / ▼ buttons, and press the **SET** button.
4. Select the image size that you want to change with the ▲ / ▼ buttons, and press the **SET** button.
  - To quit compression, press the **MENU** button.
  - When compression ends, the screen returns to playback mode.

## [ ] Erasing Images

### Erasing at Photography Mode (Quick Delete Function)



Quick delete function enables you to erase the image during photography. The quick delete menu provides you to directly erase the last image without further settings.

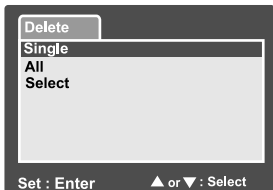
- Slide the mode switch to [  ] or [  ].
- Press the  button.
  - The last image and quick delete menu appear on the screen.
- Press the **SET** button to erase the image.
  - To not erase, select [Cancel], and press the **SET** button.



### Erasing at Playback Mode

Erasing single image / Erasing all images

- Slide the mode switch to [  ].
  - The last image will be displayed on the screen.
- Select the image you want to erase with the ◀ / ▶ buttons..
- Press the  button.
  - The deletion menu will be displayed.
- Select [Single] or [All] with the ▲ / ▼ buttons, and press the **SET** button.
  - Single:** Erases the selected image or the last image.
  - All:** Erases all of the images on the SD card except for the protected images.
  - Select:** Erases a number of selected images.
- Select [Execute] with the ▲ / ▼ buttons, and press the **SET** button.
  - To not erase, select [Cancel], and press the **SET** button.



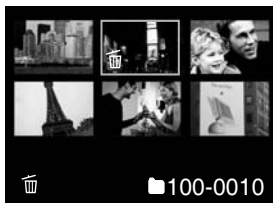
**NOTE**

- Even if you capture images after erasing an image, the file number is assigned the next number of the very last one before the image was erased.

## Erasing selected images

This erases a number of selected images.

1. Slide the mode switch to [ ].
2. Press the button.
  - The deletion menu will be displayed.
3. Select [Select] with the / buttons, and press the **SET** button.
  - The images are displayed in the thumbnail display.
4. Select the image you want to erase with the / / / buttons, and press the button.
  - The [ ] icon will be displayed. One more press of the erase button will cancel the operation. Repeat this procedure and select all the images that you want to erase.
5. Press the **SET** button.


**NOTE**

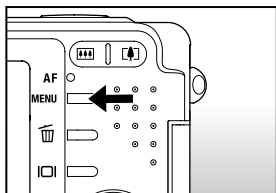
- To delete the image in internal memory, do not insert an SD card into the camera. Otherwise, you will delete the image in an SD card.

# MENU OPTIONS

## Still Image Menu (Capture)

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

- Slide the mode switch to [  ].
- Press the **MENU** button.
  - [Capture] menu is displayed.
- Select the desired [Capture] option item with the **▲** / **▼** buttons, and press the **SET** button to enter its respective menu.
- Select the desired setting with the **▲** / **▼** buttons, and press the **SET** button.
- To exit from the menu, press the **MENU** button.



Capture	Function	Setup
Scene Mode		Auto
Size		2816 x 2112
Quality		Fine
Sharpness		Normal
Saturation		Normal
Color		Standard
White Balance		Auto
Menu:Exit ◀ or ▶ :Select Page		
Set : Adjust ▲ or ▼ :Select Item		

Capture	Function	Setup
Manual WB		Next Menu
ISO		50
Metering		Spot
Menu:Exit ◀ or ▶ :Select Page		
Set : Adjust ▲ or ▼ :Select Item		



### NOTE


- The unavailable menu options are in gray color.


## Scene Mode


Refer to section in this manual titled “**Setting the Scene Mode**” for further details.


## Size

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

\* [  ] 2816 x 2112

\* [  ] 2272 x 1704

\* [  ] 1600 x 1200

\* [  ] 640 x 480

## Quality

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

\* [ ★★★ ] Fine

\* [★★ ] Normal

\* [ ★ ] Economy

## Sharpness

This sets the sharpness of the image that will be photographed.

\* Hard / Normal / Soft

## Saturation

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

\* High / Normal / Low






## Color

This sets the color of the image that will be photographed.

\* Standard / Vivid / Sepia / Monochrome

## White Balance

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

- \* [ **Blank** ] Auto
- \* [  ] Incandescent
- \* [  ] Fluorescent 1
- \* [  ] Fluorescent 2
- \* [  ] Day Light
- \* [  ] Cloudy
- \* [ **M** ] Manual

## Manual WB

This manually sets the white balance and stores it. Use of this is convenient when the white balance does not offer a good match.

Before select [Execute] determine the subject (such as a white paper) that will be used to set the white balance.

- \* Cancel / Execute


## ISO

This sets the sensitivity for capturing images. When the sensitivity is raised (and the ISO figure is increased), photography will become possible even in dark locations, but the more pixelated (grainier) the image will appear.


- \* 50 / 100 / 200 / 400 / Auto

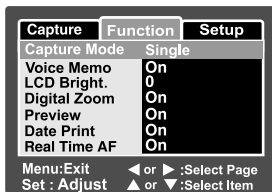
## Metering

This sets the metering method for calculating the exposure.

- \* [ **Blank** ] Average: Averages the light metered from the entire frame, but gives greater weight to the subject matter at the center.
- \* [  ] Spot: A very small portion of the center of the screen is measured, and the exposure is calculated.


## Still Image Menu (Function)

- Slide the mode switch to [  ].
- Press the **MENU** button, and select the [Function] menu with the **▶** button.
  - [Function] menu is displayed.
- Select the desired [Function] option item with the **▲** / **▼** buttons, and press the **SET** button to enter its respective menu.
- Select the desired setting with the **▲** / **▼** buttons, and press the **SET** button.
- To exit from the menu, press the **MENU** button.



### Capture Mode

This sets the recording method at the time of capturing images.

- \* **[Blank]** Single: Capture an image at a time.
- \* [  ] Continuous: Permits continuous photography of 3 images max.
- \* **[AEB]** AEB: Permits 3 consecutive images in the order of standard exposure, underexposure and overexposure compensation.



#### NOTE

- In [Continuous] and [AEB] capture mode, the voice memo is automatically fixed at [Off].

### Voice Memo

Refer to section in this manual titled "**Recording Voice Memos**" for further details.

- \* On / Off

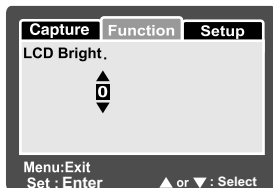


#### NOTE

- When [Voice Memo] is set to [On], the preview setting is also fixed at [On].

## LCD Bright.

Select a brightness level for the LCD monitor. The LCD becomes brighter with the ▲ button and darker with the ▼ button. The adjustment range is from -5 to +5.



## Digital Zoom

This sets whether or not to use digital zoom at the time of photography.

\* On / Off

## Preview

This sets whether or not to display the captured image on the screen immediately after the image is captured.

\* On / Off



### NOTE

- When [Preview] is set to [Off], [Voice Memo] setting is also fixed at [Off].

## Date Print

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

\* On / Off



Date imprinted here.

## Real Time AF


This sets the Real Time Focus function at image capture preview mode.

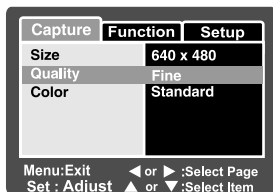
\* On / Off



## Video Menu (Capture)



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

- Slide the mode switch to [  ].
- Press the **MENU** button.
  - [Capture] menu is displayed.
- Select the desired [Capture] option item with the ▲ / ▼ buttons, and press the **SET** button to enter its respective menu.
- Select the desired setting with the ▲ / ▼ buttons, and press the **SET** button.
- To exit from the menu, press the **MENU** button.



### Size

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

- \* [  ] 640 x 480
- \* [  ] 320 x 240

### Quality


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

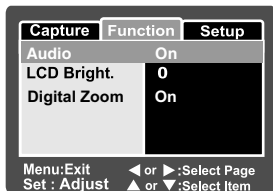
- \* [  ] Fine
- \* [  ] Normal

### Color

Refer to the section in this manual titled “Color” in “Still Image Menu (Capture)” for further details.

## Video Menu (Function)

- Slide the mode switch to [  ].
- Press the **MENU** button, and select the [Function] menu with the **▶** button.
  - [Function] menu is displayed.
- Select the desired [Function] option item with the **▲** / **▼** buttons, and press the **SET** button to enter its respective menu.
- Select the desired setting with the **▲** / **▼** buttons, and press the **SET** button.
- To exit from the movie menu, press the **MENU** button.



### Audio

This sets whether or not to record audio at the time of video recording.

\* On / Off


### LCD Bright.


Refer to section in this manual titled “LCD Bright.” in **Still Image Menu (Function)** for further details.

### Digital Zoom

Refer to section in this manual titled “Digital Zoom” in **Still Image Menu (Function)** for further details.

## Playback Menu

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

- Slide the mode switch to [  ].
- Press the **MENU** button.
  - The playback menu is displayed.
- Select the desired option item with the **▲** / **▼** buttons, and press the **SET** button to enter its respective menu.
- Select the desired setting with the **▲** / **▼** buttons, and press the **SET** button.
- To exit from the menu, press the **MENU** button.



### NOTE

- The unavailable menu options and settings are in gray color.

## Slide Show

Refer to section in this manual titled “**Slideshow Display**” for further details.

## DPOF

Refer to section in this manual titled “**DPOF Settings**” for further details.

## Protect

Refer to section in this manual titled “**Protecting Images**” for further details.

## LCD Bright.

Refer to section in this manual titled “**LCD Bright.**” in **Still Image Menu (Function)** for further details.

## Resize

Refer to section in this manual titled “**Resizing an Image (Resize)**” for further details.

## Quality Change

Refer to section in this manual titled “**Compressing an Image (Quality Change)**” for further details.



## Copy to Card

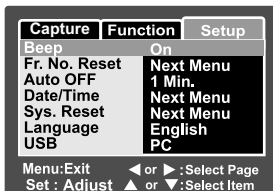
Allows you to copy your files from the digital still camera’s internal memory to a memory card. Of course, you can only do this if you have a memory card installed and some files in internal memory.

\* Cancel / Execute

## Setup Menu (In Photography Mode)

Set your camera's operating environment.

- Slide the mode switch to [  ] or [  ].
- Press the **MENU** button, and select the [Setup] menu with the **▶** button.
  - [Setup] menu is displayed.
- Select the desired [Setup] option item with the **▲** / **▼** buttons, and press the **SET** button to enter its respective menu.
- Select the desired setting with the **▲** / **▼** buttons, and press the **SET** button.
- To exit from the menu, press the **MENU** button.



### Beep

This sets whether or not to mute the camera sound each time you press the camera button.

\* On / Off

### Fr. No. Reset

This creates a new folder. The photographed images are recorded to the newly created folder from number 0001.

\* Cancel / Execute

### Auto OFF

If no operation is performed for a specific period of time, the power to the camera is automatically turned off. This feature is useful to reduce battery wear.

\* 1 Min. / 2 Min. / 3 Min. / Off

### Date/Time

Refer to section in this manual titled "**Setting the Date and Time**" for further details

### Sys. Reset

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

\* Cancel / Execute

### Language







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

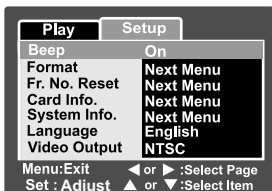
### USB

This sets USB mode when connecting to your computer at any camera mode.

\* PC / PC Camera

## Setup Menu (In Playback Mode)

- Slide the mode switch to [  ].
- Press the **MENU** button , and select the [Setup] menu with the  button.
  - [Setup] menu is displayed.
- Select the desired [Setup] option item with the  /  buttons, and press the **SET** button to enter its respective menu.
- Select the desired setting with the  /  buttons, and press the **SET** button.
- To exit from the menu, press the **MENU** button.



### Beep

Refer to section in this manual titled “**Beep**” in **Setup Menu (In Photography Mode)** for further details.

### Format

Refer to section in this manual titled “**Formatting the SD Card or Internal Memory**” for further details.

### Fr. No. Reset

Refer to section in this manual titled “**Fr. No. Reset**” in **Setup Menu (In Photography Mode)** for further details.

### Card Info.

This displays the free capacity of the SD card. If the SD card is not inserted, “NO CARD” message is displayed on the screen.

### System Info.

This displays the firmware version of the camera.

### Language

Refer to section in this manual titled “**Choosing the Language**” for further details.

### Video Output

This sets video output system of the video equipment that you are going to connect to the camera.

\* NTSC / PAL

# EDITING SOFTWARE INSTALLATION

## Installing NTI Photo Suite

PC users will find that NTI Photo Suite is a very user-friendly image-editing program. With NTI Photo Suite, you can retouch, compose, and organize your images. It includes a variety of templates, such as photo frames, birthday cards, calendars and more. Get your images ready and explore this amazing program.

### To install NTI Photo Suite:

1. Insert the CD-ROM that came with the camera into your CD-ROM drive. The welcome screen appears.
2. Click "**INSTALL NTI PHOTO SUITE**". Follow the on-screen instructions to complete the installation.



#### NOTE

- To use NTI Photo Suite to edit and retouch your recorded images, please refer to the on-line help.
- For Windows 2000/XP users, please make sure to install and use the NTI Photo Suite in "Administrator" mode.
- NTI Photo Suite is not supported on the Mac. iPhoto or iPhoto2 is recommended.

## CAMERA SPECIFICATIONS

Item	Description
Image sensor	1/2.5" CCD sensor (6.2 Mega pixels)
Image resolution	<Still image> 2816 x 2112, 2272 x 1704, 1600 x 1200, 640 x 480 < Video clip> 640 x 480, 320 x 240
LCD monitor	2.5" Full color TFT LCD (201K pixels)
Recording media	16 MB internal memory (10 MB for image storage) Supports SD card (up to 1GB) (optional)
Compression format	JPEG compliant
Image file format	DCF, DPOF, EXIF 2.2, ASF
Lens	3x optical zoom lens F-no.: 3.2 (Wide) / 5.3 (Tele) f=5.4 mm - 16.2 mm (equivalent to 32 mm - 96 mm on a 35 mm camera)
Focus range	Approx. 50 cm to infinity (both Wide and Tele) Approx. 6 cm to infinity (Macro Wide) Approx. 35 cm to infinity (Macro Tele)
Shutter speed	1/2 - 1/2000 sec.
Digital zoom	4x (Capture mode) 4x in 0.5x increments (Playback mode)
Metering system	Average / Spot
Flash effective range	0.5 m - 2.7 m (Wide) 0.5 m - 2.4 m (Tele)
Self-timer	10 sec. / 2 sec. / 10+2 sec.
Interface	DC IN 5V terminal (Via conversion adapter) A/V OUT terminal (Via conversion adapter) USB 2.0 compliant
Power supply	Rechargeable Lithium-ion battery (3.7V, 650mAh) (optional) AC power adapter (5V/3A) (optional)
Dimension (WxHxD)	Approx. 88.5 x 54.5 x 24mm (without protruding parts)
Weight	Approx. 130 g (without the battery & SD card)

\*Design and specifications are subject to change without notice.