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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 6.36 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 Product Components:

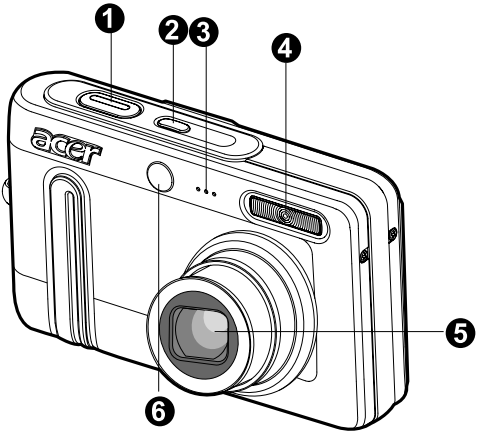
- Digital camera
- User's manual
- Docking station
- USB cable
- Camera strap
- AC power adapter
- Rechargeable lithium-ion battery

Common (Optional) Accessories:

- SD memory card
- Software CD-ROM
- Camera pouch

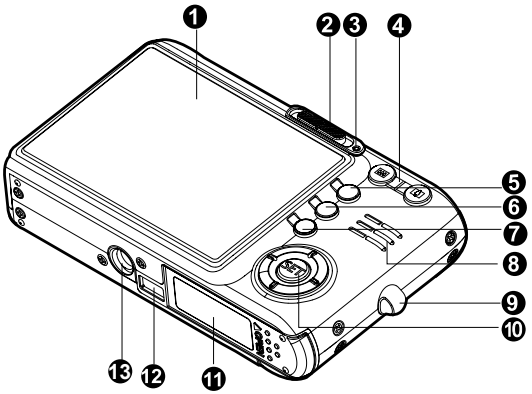
GETTING TO KNOW THE CAMERA

Front View



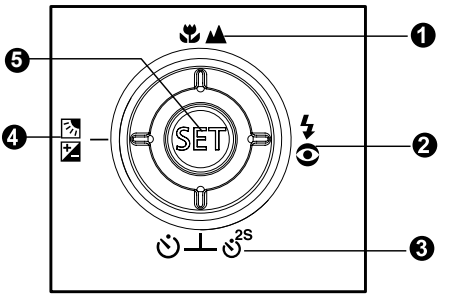
#	Name	Description
1.	Shutter button	Focuses and locks the exposure of the camera when pressed halfway down, and capture the image when pressed all the way down.
2.	**POWER** button	Turns the camera power on and off.
3.	Microphone	Records audio clips.
4.	Flash	Provides flash illumination.
5.	Lens	3x optical zoom lens allows you to capture telephoto and wide-angle images.
6.	Self-timer LED (AF auxiliary LED)	Blinks during Self-timer mode until image is captured. Lights for auto focusing when capture in dark place.

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.	Mode switch Capture mode Video mode Playback mode	Sets the camera mode. Selects this when capturing still images. Selects this when recording video clips. Performs image playback and deletion.
3.	Status LED	Displays the camera current state.
4.	Zoom in button Zoom out button	Zooms the lens to telephoto position. Zooms the lens to wide-angle position.
5.	**MENU** button	Toggles OSD menu on and off.
6.	Erase button	Allows you to erase the image.
7.	Display button	Turns the OSD display on and off.
8.	Speaker	Produces camera sounds and plays recorded audio.
9.	Strap holder	Camera strap attachment.
10.	**SET** /Direction button	Allows you to scroll through menus and image, and then select choices.
11.	Battery / SD memory card cover	Allows access to the battery and insert or remove the memory card.
12.	Camera connector	Connects with the docking station.
13.	Tripod socket	Allows tripod mounting.

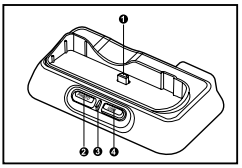
SET /Direction button

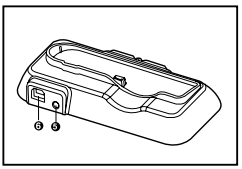


#	Name	Description
1.	▲ button Focus button	Scrolls upwards. Allows you to choose the appropriate focus setting.
2.	▶ button Flash button	Scrolls right. Allows you to choose the appropriate flash setting.
3.	▼ button Self-timer button	Scrolls downwards. Allows you to toggle the self-timer on and off,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

Docking station

With the docking station, you can position your camera and play back your images and video clips on your desktop. You also need the docking station to charge the camera battery with an AC power adapter, and connect to a USB cable.





#	Name	Description
1.	Docking station connector	Connects with the camera.
2.	PHOTO button	Allows you to playback images or video clips on the LCD monitor.
3.	Status LED	Displays the cradle current state.
4.	USB button	Allows you to enter USB mode.
5.	DC IN 5V terminal	Allows you to connect to an AC power adapter to charge the battery or act as power supply during playback or USB mode.
6.	USB terminal	Allows you to connect to a USB cable.

Status LED Indicator

Camera status LED

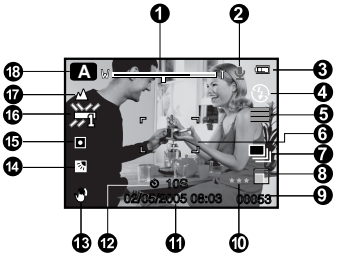
Color	State	During photography
Green	On	AE or AF is locked with the shutter button held halfway.
Red	On	Accessing files in progress.
	Flashing	When the image is not in focus.
Orange	On	Flash charging in progress.

Cradle status LED

Color	State	During battery charging
Red	On	Charging process in progress.
Green	On	Charging process is completed.

LCD Monitor Icons

Capture mode [ ]

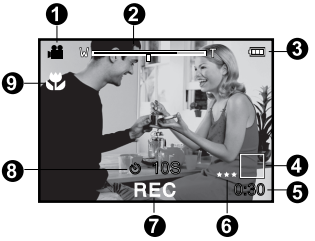


1. Zoom status
2. Voice memo
3. Remaining battery status
   - [ ] Full battery power
   - [ ] Medium battery power
   - [ ] Low battery power
   - [ ] No battery power
4. Flash mode
   - [Blank] Auto
   - [ ] Red-eye Reduction
   - [ ] Forced Flash
   - [ ] Flash Off
5. [ ] Histogram
6. Focus area (When the shutter button is pressed halfway)
7. Capture mode
   - [Blank] Single
   - [ ] Continuous
   - [**AEB**] AEB
8. Image size
   - [ ] 2816 x 2112
   - [ ] 2272 x 1704
   - [ ] 1600 x 1200
   - [ ] 640 x 480
9. Possible number of shots
10. Quality
    - [★★★] Fine
    - [★★] Normal
    - [★] Economy
11. Date and time
12. Self-timer icon
    - [**10s**] 10 sec.
    - [**2s**] 2 sec.
    - [**10+2s**] 10+2 sec.
13. Unsteady hold warning icon
14. [ ] Exposure compensation
    - [ ] Backlight correction
15. Metering
    - [Blank] Multi
    - [ ] Spot
16. White balance
    - [A] Auto
    - [ ] Incandescent
    - [ ] Fluorescent 1
    - [ ] Fluorescent 2
    - [ ] Daylight
    - [ ] Cloudy
    - [**M**] Manual
17. Focus mode
    - [Blank] Auto focus
    - [ ] Macro
    - [ ] Infinity
18. Scene mode
    - [A] Auto
    - [ ] Portrait
    - [ ] Night Portrait
    - [ ] Night
    - [ ] Candlelight
    - [ ] Fireworks
    - [ ] Landscape
    - [ ] Natural Green
    - [ ] Sunrise
    - [ ] Sunset
    - [ ] Sports
    - [ ] Macro
    - [ ] Black & White
    - [ ] Sepia
    - [ ] Splash Water
    - [ ] Flowing Water
    - [ ] Pets
    - [ ] User Setting

NOTE

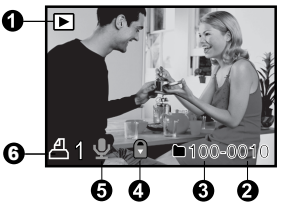
■ Each press of the button switches one step in the sequence of OSD full display, OSD full with Histogram, OSD display off, LCD monitor off.

Video mode [🎥]



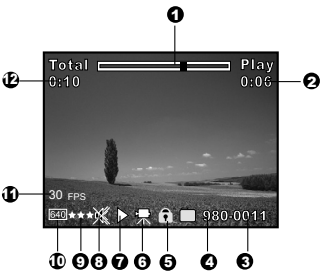
1. [🎥] Video mode
2. Zoom status
3. Remaining battery status
4. Image size
5. Possible recording time / elapsed time
6. Quality
7. Recording indicator
8. Self-timer icon
9. Focus icon

Playback mode [▶] -Still image playback



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

Playback mode [▶]-Video playback

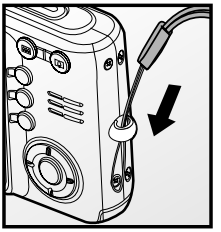


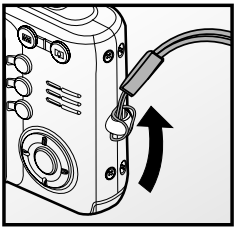
1. Video status bar
2. Elapsed time
3. File number
4. Folder number
5. Protect icon
6. Video mode
7. Playback mode
8. Sound off icon (When the ▲ button is pressed during video playback.)
9. Quality
10. Size
11. Frame rate
12. Total recorded time

GETTING STARTED

Attaching the Camera Strap

Attach the camera strap as shown in the illustration.



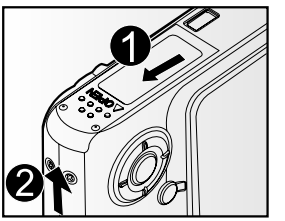


Inserting and Removing the Battery

We highly recommend using specified rechargeable lithium-ion battery (3.7V) 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.

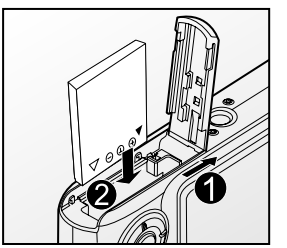
Inserting the Battery

1. Open the battery / SD memory 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 memory card cover.



Removing the Battery

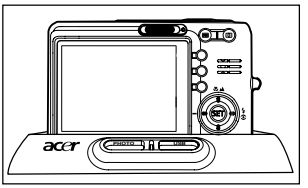
Open the battery / SD memory card cover and then release the battery lock lever. When the battery has come out a little, slowly pull it out the rest of the way.

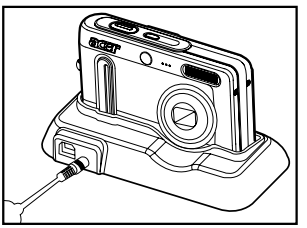


Charging the Battery

You need to use the docking station and AC power adapter to charge the battery. Make sure that the power of the camera is off and then insert the battery before starting.

1. Position the camera on the docking station.
2. Insert one end of the AC power adapter into the DC IN 5V terminal of the docking station.
3. Insert the other end of the AC power adapter into a wall outlet.
   - The docking station LED lights red while the battery is charging and turns into green when the battery is fully charged.
   - 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

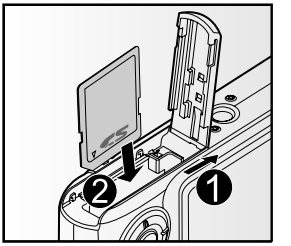
- This camera must be used with specified battery, docking station and AC power adapter for battery charging. Damage caused by the use of an incorrect adapter is not covered under the warranty.
- The battery may feel warm after it has been charged or immediately after being used. This is normal and not a malfunction.
- When using the camera in cold areas, keep the camera and battery warm by holding them inside your outer cloth.
- We recommend the battery should be charged 8 hours as first time use.

Inserting and Removing the SD Memory Card (Optional Accessory)

Images captured with this camera will be stored in the SD memory card. Without inserting the SD memory card, you cannot capture images using the camera.

Inserting the SD memory card

1. Open the battery/SD memory card cover.
2. Insert the SD memory card in the correct orientation shown.
   - Hold the SD memory card with its front side of the SD memory 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 memory card cover.

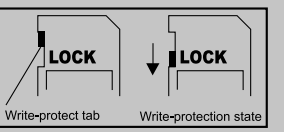


Removing the SD memory card

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

NOTE

- If the camera is powered on without an SD memory card inserted, a message "NO CARD" appears on the LCD monitor.
- To prevent valuable data from being accidentally erased from an SD memory card you can slide the write-protected tab (on the side of the SD memory card) to "LOCK".



- To save, edit or erase data on an SD memory card, you must unlock the card.
- Be sure to format an SD memory card with this digital camera before using it. Refer to section in this manual titled "Formatting the SD Memory Card" for further details.

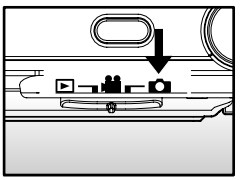
Setting the Date and Time

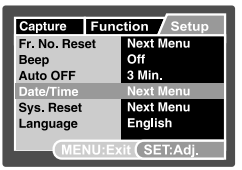
The date/time needs to be set if/when:

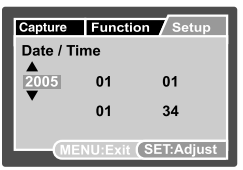
- Camera is turned on for the first time.
- Camera is turned on after leaving the camera without the battery for an extended period of time.

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.



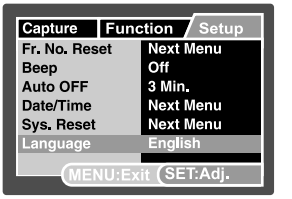




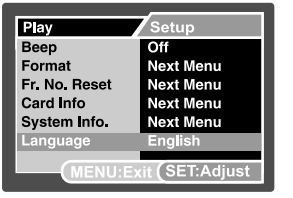
Choosing the Language

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

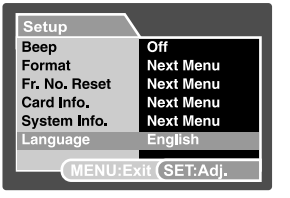
1. Slide the mode switch to [📷] or [🎥] or [▶].
2. Press the **MENU** button and select [Setup] menu with the ▶ button.
   - If no images / video clips are recorded on the SD memory card, press the **MENU** button and then [Setup] menu is displayed.
3. Select [Language] with the ▲ / ▼ buttons and press the **SET** button.
   - The Language setting screen will be displayed.
4. Select the displayed language with the ▲ / ▼ buttons and press the **SET** button.
   - The setting will be stored.



[📷] / [🎥] Mode



[▶] Mode with images/video clips on SD memory card

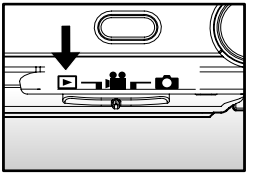


[▶] Mode without images/video clips on SD memory card

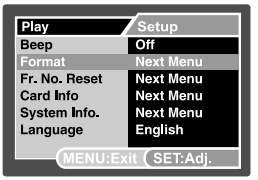
Formatting the SD Memory Card

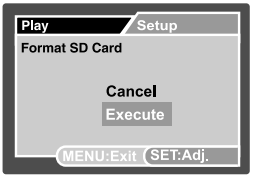
This utility formats the SD memory card and erases all stored images and data.

1. Slide the mode switch to [▶].



2. Press the **MENU** button and select [Setup] menu with ▶ button.
   - If no images / video clips are recorded on the SD memory card, press the **MENU** button and then [Setup] menu is displayed.
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.





NOTE

- Formatting the SD memory 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 memory card having any problem cannot be properly formatted.

Setting Image Resolution and Quality

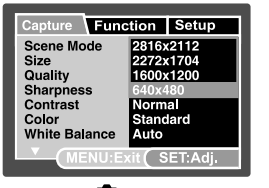
Resolution and quality settings determine the pixel size (dimension), image file size, and compression ratio for your images. These settings affect the number of images that can be stored. As you get to know the camera, it is recommended that you try each quality and resolution setting to get an appreciation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

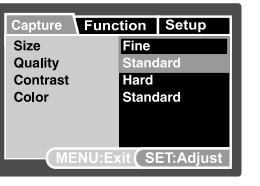
High resolution and quality settings are recommended for printed output and situations requiring the finest detail. Lower resolution/quality images take up less memory space and may be quite suitable for sharing images via e-mail, in a report, or on a web page.

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

1. Slide the mode switch to [📷] or [🎥].
2. Press the **MENU** button.
   - [Capture] menu is displayed.
3. Select [Size] with the ▲ / ▼ buttons, and press the **SET** button.
4. Select the desired setting with the ▲ / ▼ buttons, and press the **SET** button.
5. Select [Quality] with the ▲ / ▼ buttons, and press the **SET** button.
6. Select the desired setting with the ▲ / ▼ buttons, and press the **SET** button.
7. To exit from the menu, press the **MENU** button.



[📷] Mode



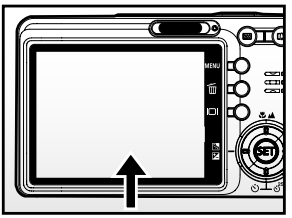
[🎥] Mode

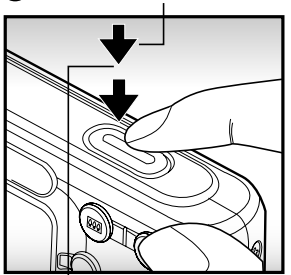
PHOTOGRAPHY MODE

[📷] Capture Mode

Your camera is equipped with a 2.5" full color LTPS 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 flashes red.
   - If the photographic preview is set to “On”, the captured image will be displayed while the image is being recorded onto the SD memory card.



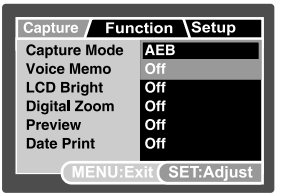


① Press down halfway

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.



1. Slide the mode switch to [📷].
2. Press the **MENU** button, and select the [Function] menu with the ▶ button.
   - [Function] menu is displayed.
3. Select [Voice Memo] with the ▲ / ▼ buttons, and press the **SET** button.
4. Select [On] with the ▲ / ▼ buttons, and press the **SET** button.
5. Press the **MENU** button to exit from the menu.
   - [🎙] icon is displayed on the screen.
6. 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.
7. 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.

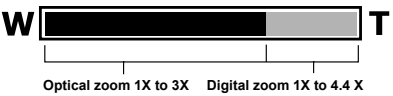
NOTE

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

Using the Digital Zoom

Using a combination of 3 times optical zoom and 4.4 times digital zoom permits zoom photography of up to 13.2 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.

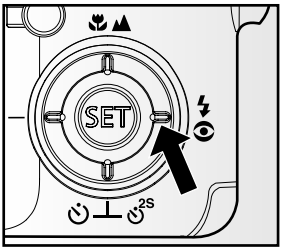
NOTE

■ 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:

		[Blank] Auto	⚡👁	⚡	⚡
Scene Mode	Auto	○	○	○	○
	Portrait	X	○	X	X
	Night Portrait	X	X	○	X
	Night	X	X	X	○
	Candlelight	X	X	X	○
	Fireworks	X	X	X	○
	Landscape	X	X	X	○
	Natural Green	X	X	X	○
	Sunrise	X	X	X	○
	Sunset	X	X	X	○
	Sports	X	X	X	○
	Macro	X	X	X	○
	Black & White	○	○	○	○
	Sepia	○	○	○	○
	Splash Water	○	○	○	○
	Flowing Water	X	X	X	○
	Pets	○	○	○	○
	User Setting	○	○	○	○
Capture Mode	Single	○	○	○	○
	Continuous	X	X	X	○
	AEB	X	X	X	○
Focus Mode	Auto	○	○	○	○
	Macro	○	○	○	○
	Infinity	X	X	X	○

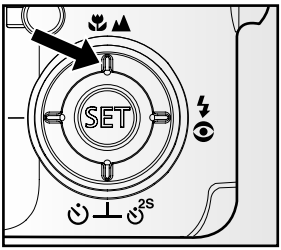
* This table is for reference only and varies according to different combination of photography modes.

* ○: Available X: Unavailable

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.
[ ] Macro	Approximately 50 cm to infinity (both Wide and Tele). 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 30 cm to infinity.
[▲] Infinity	Selects this when you want to capture images of subjects at a distance of infinity.

Setting the Self-timer

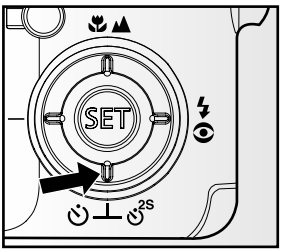
This setting allows images to be captured with the self-timer.

1. Slide the mode switch to [📷] or [🎥].
2. Toggle the ⏲2s 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.
     ↑ ←



3. 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.

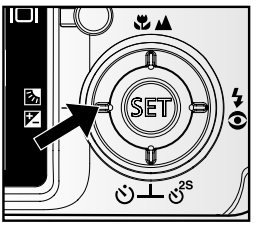
The table below will help you choose the appropriate self-timer mode:

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 iscaptured again after 2 seconds. This is convenient when capturing group images in succession.

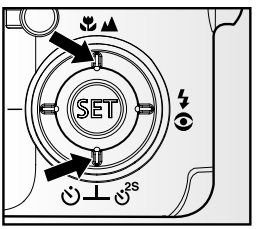
Exposure Compensation/Backlight Correction

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.

1. 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.



2. 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 18 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
[A] Auto	Select this mode to capture images without having to set special functions or manual adjustments.
[ ] Portrait	Select this mode when you want to capture an image that makes the person stand out against a defocused (blurred) background.
[ ] Night Portrait	Select this mode when you want to capture people with an evening or night scene background.
[ ] Night	Select this mode when you want to capture dark scenes such as night views.
[ ] Candlelight	Select this mode when you want to capture photos of candlelit scene, without spoiling the atmosphere.
[ ] Fireworks	Select this mode when you want to capture fireworks clearly with optimal exposure. The shutter speed becomes slower, so using a tripod is recommended.
[ ] Landscape	Select this mode when you want to capture landscape photos with bright color.
[ ] Natural Green	Select this when you want to capture the green scenery background such as forest.
[ ] Sunrise	Select this mode when you want to capture photos of sunrise scene. This mode helps keep the deep hues in the scene.

Scene mode	Description
[ ] Sunset	Select this mode when you want to capture photos of sunset scene. This mode helps keep the deep hues in the scene.
[ ] Sports	Select this mode when you want to capture fast-moving subjects.
[ ] Macro	Select this mode for close-up photography.
[ ] Black & White	Select this mode when you want to capture a black & white image.
[ ] Sepia	Select this mode when you want to capture a sepia image.
[ ] Splash Water	Select this mode when you want to capture photos of splashing water.
[ ] Flowing Water	Select this mode when you want to capture the soft flowing water. Shutter speed is automatically slowed down while maintaining proper exposure, which produces an image with the water blurred into smooth flowing lines along with a sharply focused background.
[ ] Pets	Select this mode when you want to capture your pets. Shoot from the eye level of your pets.
[ ] User Setting	This mode allows you manually set the setting parameters and all these settings will be memorized.

[ ] Video Mode

This mode allows you to record video clips at a resolution of 320 x 240 / 640 x 480 pixels. Voice can also be recorded.

1. Slide the mode switch to [ ].
2. Compose the image.
   - Optical zoom can be set while composing the scene.
   - Digital zoom can be set at the resolution of 320 x 240 pixels only.
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, the flash cannot be used.
- In the [ ] mode, the LCD monitor cannot be turned off.
- If the access speed of your SD memory card is not enough for recoding video clips in the currently selected quality, a warning icon [ ] will appear, and then the movie recording will stop. In this case, select a video quality lower than the current one.

[▶] PLAYBACK MODE

Playing Back Still Images

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

1. Slide the mode switch to [▶].
   - The last image appears on the screen.
2. 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 ▶.

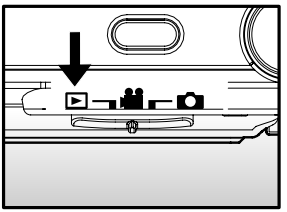
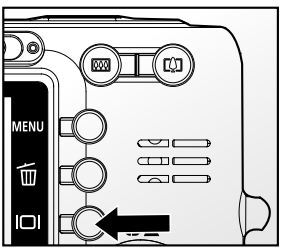


Image Display Information

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.

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.

Button Operations

	During Playback	During a Pause	During a Stop
▶ button	(Forward play) Pressing the ▶ button will sequentially invoke 2x fast-forward, 4x fast-forward, regular play.	1-frame feed	The next image isdisplayed.
◀ button	(Reverse play) Pressing the ◀ button will sequentially invoke 2x fast-reverse, 4x fast- feed reverse, regular play.	Reverse 1-frame	The previous image isdisplayed.
▲ button	Sound On/Off		
▼ button	Stop (The display returns to the 1st frame playback).		
SET button	Pause	Cancel pause	Regular forward play

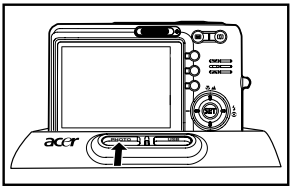
NOTE

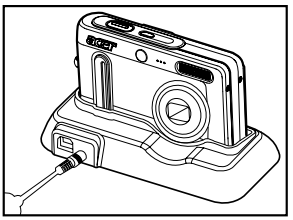
■ Video clips cannot be displayed rotated or enlarged.

Playing Back Still Images/Video Clips on the Docking Station

You can also playback your images or video clips on the docking station.

1. Position the camera on the docking station.
   - ■ It is recommended to use the AC power adapter when playing back images or video clips on the docking station.
2. Press PHOTO button.
   - ■ The last image appears on the screen.
3. 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.





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.

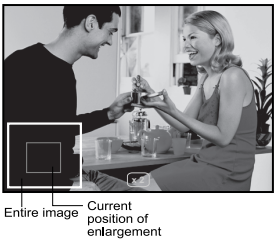
1. Slide the mode switch to [▶].
   - The last image appears on the screen.
2. Press the ⁂ button.
   - The images are displayed in the thumbnail display. Images that have been selected with the ▲ / ▼ / ◀ / ▶ buttons will be indicated by a green frame.
   - When there are ten or more images, scroll the screen with the ▲ / ▼ buttons.
3. Press the ▲ / ▼ / ◀ / ▶ buttons to select the image to be displayed at regular size.
4. 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.



1. Slide the mode switch to [▶].
2. 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.
3. Adjust the zoom ratio with the ▲ / ▼ buttons.
   - ■ Pressing the ▲ button enlarges the image.
   - ■ To return to normal magnification, press the ▼ button.
   - ■ The magnification factor is displayed on the LCD monitor.
   - ■ The image is displayed enlarged, and a white frame and green frame are displayed on the LCD monitor.
   - ■ The white frame indicates the entire image, while the green frame shows the location of the currently enlarged area.
4. Press the ▲ / ▼ / ◀ / ▶ buttons to select the area to enlarge.
5. To return to regular display, toggle the ▼ button until the regular display appears on the screen.

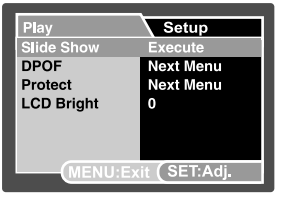
NOTE

- ■ Pressing the ▲ button magnifies the image from 1x —>2x—> 4x—>8x.
- ■ Pressing the ▼ button reduces the image from 8x—>4x —>2x—> 1x.

Slideshow Display

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

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



NOTE

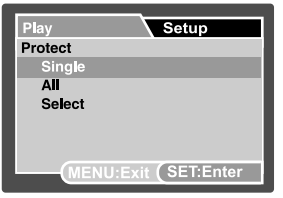
- The Auto OFF function does not operate during slide show.
- All still images in the folder are automatically played back.

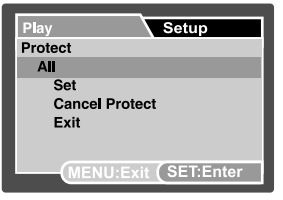
Protecting Images

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

Protecting Images

1. Slide the mode switch to [▶].
2. Select the image that you want to protect with the ◀ / ▶ buttons.
3. Press the **MENU** button.
   - ■ The playback menu is displayed.
4. Select [Protect] with the ▲ / ▼ buttons, and press the **SET** button.
5. Select [Single] or [All] with the ▲ / ▼ buttons, and press the **SET** button.
6. Select [Set] with the ▲ / ▼ buttons, and press the **SET** button.
   - ■ Protection is applied to the image 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.

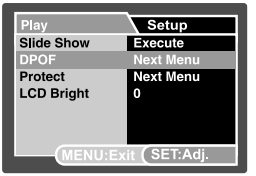
NOTE

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

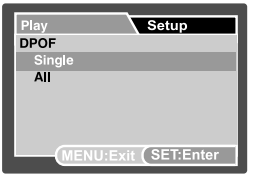
DPOF Settings

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.

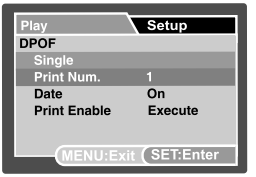
1. Slide the mode switch to [▶].
2. Select the image that you want to set DPOF with the ◀ / ▶ buttons.
3. Press the **MENU** button.
   - The playback menu is displayed.



4. Select [DPOF] with the ▲ / ▼ buttons, and press the **SET** button.
   - The DPOF setting screen is displayed.
5. 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.



6. Select [Print Num.] with the ▲ / ▼ buttons, and press the **SET** button.
   - This displays the number of prints setting screen.
7. 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.
    - The DPOF icon [ ] is displayed on each image that have set up DPOF settings.

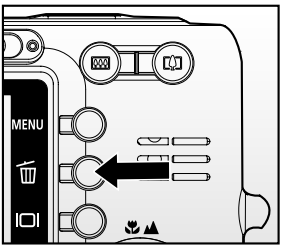
NOTE

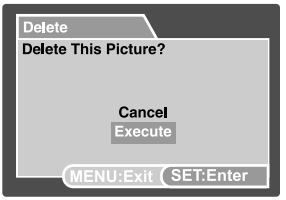
- The date that is printed on the photo is the date set on the camera. To print the correct date on the photo, set the date on the camera before you photograph the image. Refer to section in this manual titled “Setting the Date and Time” for further details.

Erasing Images

Erasing at Photography Mode (Quick Delete Function)
The quick delete function enables you to delete the last-captured image during capture.

1. Slide the mode switch to [📷] or [🎥].
2. Press the [🗑] button.
   - The last image and quick delete menu appear on the screen.
3. Press the [🗑] button again to delete the image.
   - You may also press the **SET** button to confirm the deletion.
   - To not delete, select [Cancel], and press the **SET** button.

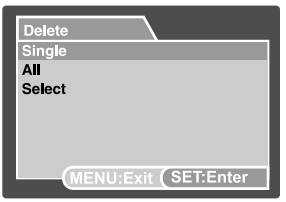




Erasing at Playback Mode

Erasing single image / Erasing all images

1. Slide the mode switch to [▶].
   - The last image will be displayed on the screen.
2. Select the image you want to erase with the ◀ / ▶ buttons.
3. Press the [🗑] button.
   - The deletion menu will be displayed.
4. 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 memory card except for the protected images.
   - Select: Erases a number of selected images.



5. Select [Execute] with the ▲ / ▼ buttons, and press the **SET** button.
   ■ To not erase, select [Cancel], and press the **SET** button.

NOTE

■ Deleting an image will not affect sequential image numbering. For example, if you delete image number 240, the next captured image will be numbered 241 even though 240 no longer exists. In other words, an image-number is retired when an image is deleted and will not be reused or reassigned to another subsequently captured image.

Erasing selected images

This erases a number of selected images.

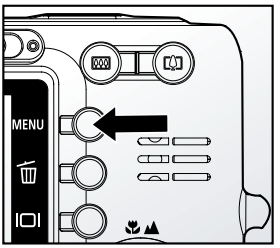
1. Slide the mode switch to [▶].
2. Press the [🗑] button.
   ■ The deletion menu will be displayed.
3. Select [Select] with the ▲ / ▼ buttons, and press the **SET** button.
   ■ The images are displayed in the thumbnail display.
4. Select the image you want to erase with the ▲ / ▼ / ◀ / ▶ buttons, and 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.

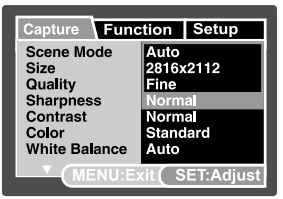
MENU OPTIONS

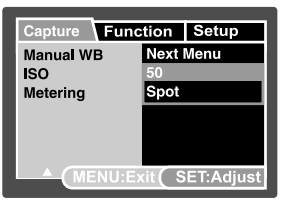
Capture Menu (Capture)

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

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







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

Contrast

This sets the difference between the bright and dark portions of the images that will be captured.

* Hard / Normal / Soft

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
* [ ] Daylight
* [ ] 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 / Auto

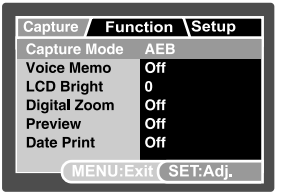
Metering

This sets the metering method for calculating the exposure.

* **[Blank]** Multi: The entire area of the screen is measured, and the exposure is calculated.
* **[●]** Spot: A very small portion of the center of the screen is measured, and the exposure is calculated.

Capture Menu (Function)

1. Slide the mode switch to [📷].
2. Press the **MENU** button, and select the [Function] menu with the ▶ button.
   ■ [Function] menu is displayed.
3. Select the desired [Function] option item with the ▲ / ▼ buttons, and press the **SET** button to enter its respective menu.
4. Select the desired setting with the ▲ / ▼ buttons, and press the **SET** button.
5. 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 5 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.

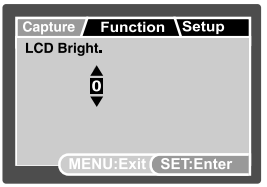
* On / Off

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

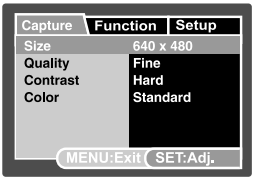
The date of recording can be printed directly on the still images. This function must be activated before the image is captured.
* On / Off

Date imprinted here.

Video Menu (Capture)

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

1. Slide the mode switch to [🎥].
2. Press the **MENU** button.
   ■ [Capture] menu is displayed.
3. Select the desired [Capture] option item with the ▲ / ▼ buttons, and press the **SET** button to enter its respective menu.
4. Select the desired setting with the ▲ / ▼ buttons, and press the **SET** button.
5. 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

Contrast

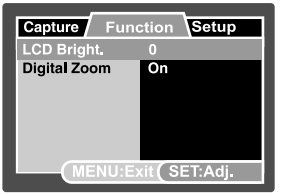
Refer to the section in this manual titled “Contrast” in “Capture Menu (Capture)” for further details.

Color

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

Video Menu (Function)

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



LCD Bright.

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

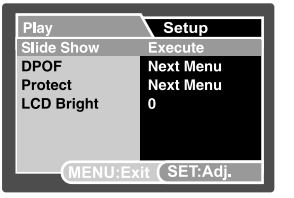
Digital Zoom

Digital zoom can be set at the resolution of 320 x 240 pixels only.
Refer to section in this manual titled “Digital Zoom” in Capture Menu (Function) for further details.

Playback Menu

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

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



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.

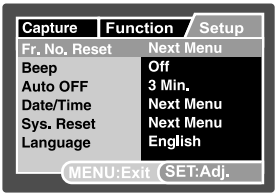
Protect
Refer to section in this manual titled “Protecting Images” for further details.

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

Setup Menu (In Photography Mode)

Set your camera's operating environment.

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



Fr. No. Reset
This creates a new folder. The photographed images are recorded to the newly created folder from number 0001.
* Cancel / Execute

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

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. / 10 Min.

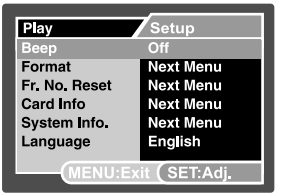
Date/Time
Refer to section in this manual titled "Setting the Date and Time" for further details.

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.

Setup Menu (In Playback Mode)

1. Slide the mode switch to [▶].
2. Press the **MENU** button, and select the [Setup] menu with the ▶ button.
   - [Setup] menu is displayed.
   - If no images/video clips are recorded on the SD memory card, press the **MENU** button and then [Setup] menu is displayed.
3. Select the desired [Setup] option item with the ▲ / ▼ buttons, and press the **SET** button to enter its respective menu.
4. Select the desired setting with the ▲ / ▼ buttons, and press the **SET** button.
5. 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 Memory Card”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 memory card.

System Info.
This displays the firmware version of the camera.

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

TRANSFERRING RECORDED IMAGES AND VIDEOS TO YOUR COMPUTER

To transfer images/video clips from the camera to your computer, follow these steps:
Step 1: Installing the USB driver (Windows 98 and Mac OS 8.6 users only)
Step 2: Connecting the camera to your computer
Step 3: Downloading images and video files

System Requirements (Windows)
- Pentium 166 MHz or higher
- Windows 98/98SE/Me/2000/XP
- 64MB RAM
- 128MB hard disk space
- CD-ROM drive
- Available USB port

System Requirements (Macintosh)
- PowerPC G3/G4
- OS 8.6 or later
- 64MB RAM
- 128MB hard disk space
- CD-ROM drive
- Available USB port

Step 1: Installing the USB Driver

Windows 98 computers

The USB driver on the CD-ROM is exclusively for Windows 98 computers. Installing the USB driver on computers running Windows 2000/ME/XP is not necessary.

1. Insert the CD-ROM that came with the camera into your CD-ROM drive. The welcome screen appears.
2. Click "**INSTALL USB DRIVER**". Follow the on-screen instructions to complete the installation. After the USB driver has been installed, restart your computer.

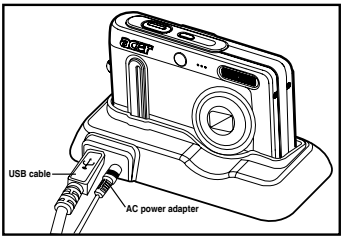
Macintosh OS 8.6 computers

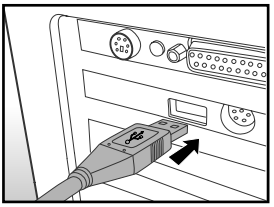
Mac OS 8.6 users must install a USB driver. For Mac OS 9.0 or higher, the computer will automatically recognize the camera and load its own USB drivers.

1. Insert the CD-ROM that came with the camera into your CD-ROM drive.
2. Select and double-click "**Digital Camera Driver Installer**".
3. Select "**Install Location**" and click "**Install**".
4. Follow the on-screen instructions to complete the installation. After the USB driver has been installed, restart your computer.

Step 2: Connecting the Camera to Your Computer

1. Position the camera on the docking station.
2. Connect one end of the USB cable to the USB terminal of the docking station.





3. Connect the other end of the USB cable to an available USB port on your computer.
4. Press the USB button.
   - The USB menu appears on the screen.
5. Select [PC] and press the **SET** button.
   - USB screen appears on the screen.
6. From the Windows desktop, double click on “My Computer”.
7. Look for a new “Removable disk” icon. This “Removable disk” is actually the memory card in your camera. Typically, the camera will be assigned drive letter “e” or higher.
8. Double click on the removable disk and locate the DCIM folder.
9. Double click on the DCIM folder to open it to find more folders.
   - Your recorded images and video clips will be inside these folders.
   - Copy & Paste or Drag-N-Drop image and video files to a folder on your computer.
10. To exit from USB mode, press the USB button.

Mac users: Double-click the “untitled” or “unlabeled” disk drive icon on our desktop. iPhoto may automatically launch.

NOTE

- The data saved to the SD memory card may be damaged if the power to the camera is cut off during image transfer. We recommend that you use the AC power adapter when connecting the camera to the PC.

Step 3: Downloading Images and Video Files

When the camera is turned on and connected to your computer, it is considered to be a disk drive, just like a floppy disk or CD. You can download (transfer) images by copying them from the “Removable disk” (“untitled” or “unlabeled” disk on a Macintosh) to your computer hard drive.

Windows

Open the “removable disk” and subsequent folders by double clicking on them. Your images are inside these folder(s). Select the images that you want, and then choose “Copy” from the “Edit” menu. Open the destination location (folder) and choose “Paste” from the “Edit” menu. You may also drag and drop image files from the camera to a desired location.

Macintosh

Open the “untitled” disk icon, and the destination location on your hard disk. Drag and drop from the camera to the desired destination.

- Memory card users may prefer to use a memory card reader (highly recommended).
- Video playback application is not included with the package. Make sure that video playback application has been installed in your computer.

EDITING SOFTWARE INSTALLATION

Installing 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.

- 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 (6.36 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 LTPS LCD (230K pixels)
Recording media	Supports SD memory card (up to 1 GB) (optional)
Compression format	JPEG
File format	DCF, EXIF 2.2, DPOF, AVI
Lens	3x optical zoom lens F =2.8(W) – 4.8(T) f =5.8mm – 17.4mm (equivalent to 35mm – 105mm on a 35mm camera)
Focus range	Standard: Approx. 50cm to infinity Macro: Approx. 6cm to infinity (Wide) Approx. 30cm to infinity (Tele)
Shutter speed	1/2 – 1/1000 sec.
Frame rate	VGA (640 x 480): 30 frame/sec. QVGA (320 x 240): 15 frame/sec.
Digital zoom	4.4x (Capture mode) 8x (Playback mode)
Flash effective range	0.5m – 2.4m (Wide)
Terminal	DC in & USB (with docking station)
Power supply	Rechargeable Lithium-ion battery (3.7V) AC power adapter with docking station (5V/3A)
Dimension (W x H x D)	Approx. 90 x 54 x 18mm (without protruding parts)
Weight	Approx. 125g (without battery and SD memory card)

*Design and specifications are subject to change without notice.