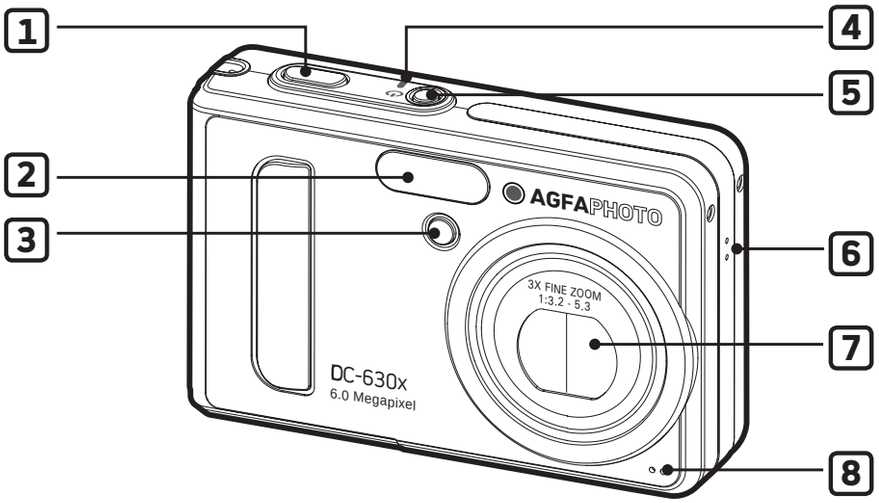
DC-630x
User manual

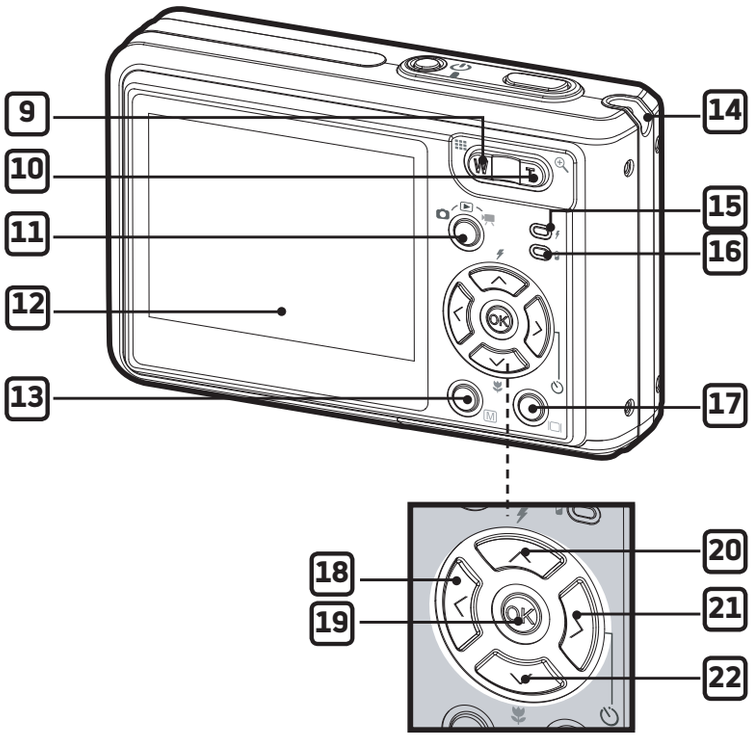
AGFAPHOTO

Product Overview

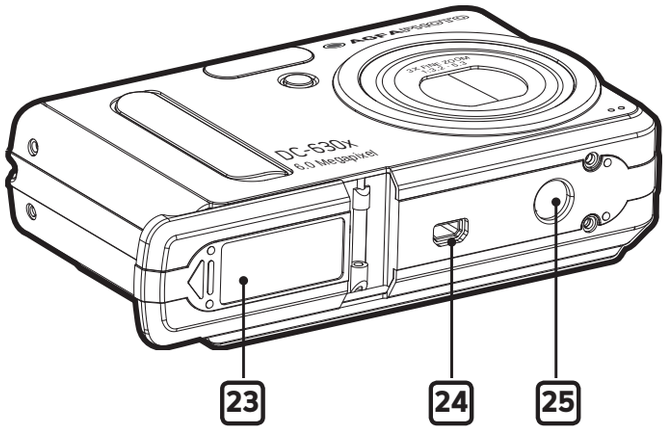
1. Shutter button
2. Flash
3. Focus lamp / Self-timer LED
4. Power on LED
5. Power button
6. Buzzer
7. Lens
8. Microphone



9. Zoom out / Thumbnail button
10. Zoom in button
11. Mode button
12. LCD Screen
13. Menu button
14. Wrist Strap holder
15. Flash LED
16. Power LED
17. LCD Screen on/off button
18. Left button
19. OK button
20. Flash / Up button
21. Right button / Self-timer button
22. Close Up / Down button



23. Battery door/SD card slot
24. USB port
25. Tripod mount



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1 Getting Started

Designed to be the flagship for AFGAPHOTO digital cameras, this AFGAPHOTO digital camera has a 2.0 inch color LCD for viewing images. Your camera is the perfect choice for the photographer looking for point and shoot simplicity with excellent performance and a variety of features.

Your camera has these features:

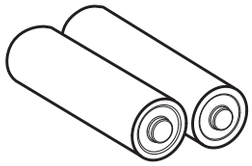
- A glass lens system for well exposed sharp pictures from 3.9 inches (10 cm) to infinity. Your camera has 3X optical zoom and 4X digital zoom modes.
- 9 scene shooting modes plus video recording functionality.
- Built-in flash with five modes (off, auto, flash aways, red-eye reduction and slow sync).
- Adjust your picture's resolution for printing or emailing.
- Light metering, white balance, exposure compensation to suit lighting conditions.
- Experience PictBridge capability to plug-and-print your images.

• Camera Package Contents

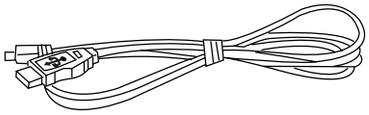
DC-630x

Quick Start Guide

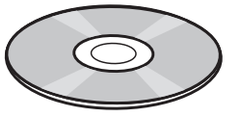
Warranty Card



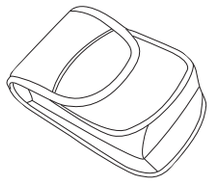
2 AA Battery



USB Cable



The CD-ROM includes
DC-630x Digital Camera Driver (PC only)
ArcSoft® PhotoStudio® 5.5 (PC)
/ArcSoft® PhotoStudio® 4.3 (Mac)
ArcSoft PhotoPrinter® 5 (PC)
/ArcSoft PhotoPrinter® 4 (Mac)
Adobe® Acrobat® Reader™ (PC&Mac)
User Manual (in PDF format)

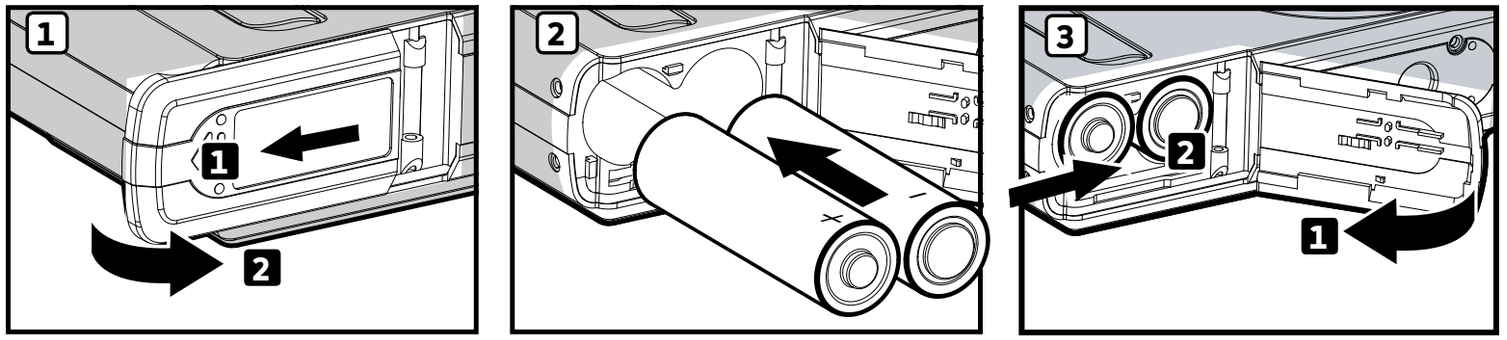


Pouch

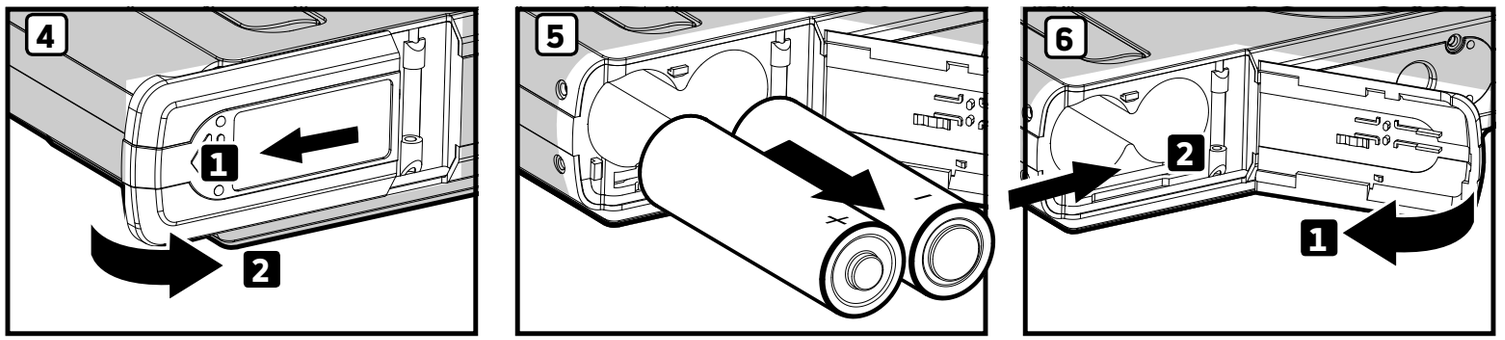
Wrist Starp

• Installing and Removing the Battery

1. Open the camera battery door by pushing it outwards as illustrated.
2. Insert the battery as shown.
3. Close the battery door by pressing and sliding it back to lock.



4. To remove the battery, open the camera battery door by pushing it outwards as illustrated.
5. Remove the battery as shown.
6. Close the battery door by pressing and sliding it back to lock.



For more guidelines on battery usage, please see “Using Your Battery” on page 10.

• Using Your Battery

Limit the following activities that reduce battery life:

- Reviewing your pictures on the LCD screen.
- Excessive use of the flash.

WARNINGS!

- Battery should be replaced by an adult.
- Insert the battery with the correct polarity.
- Remove exhausted battery from the camera immediately.
- Do not short the supply terminals.
- Do not dispose the battery in fire.
- Remove battery from the camera when not in use.
- Batteries life varies depends on the camera usage.

These instructions should be retained for future reference.

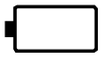
• Checking the Battery Level

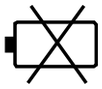
Check the battery power level that appears on the LCD screen before shooting.

Battery power is full.

Battery has adequate power.

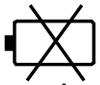
Battery power is low.

 Battery is empty.

 Batter power is exhausted.

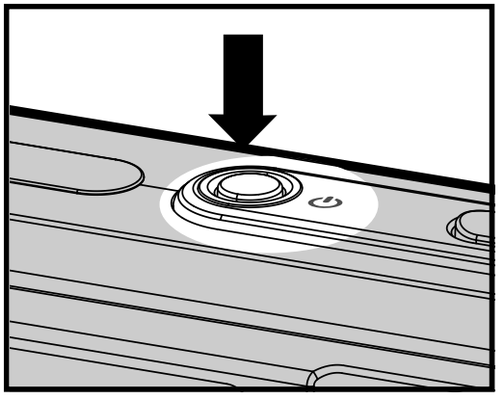
NOTE:

1. When battery power is empty, the icon appears on the LCD screen. Taking pictures is possible while flash can not be supported.

2. When battery power is exhausted, the  icon appears on the LCD screen and then the camera will turn off automatically in a few seconds. Please replace the battery immediately.

3. We recommend user to use Ni-MH rechargeable battery.

• Turning the Camera On and Off



1. Press the ⏻ button until the Power On LED screen turns on.

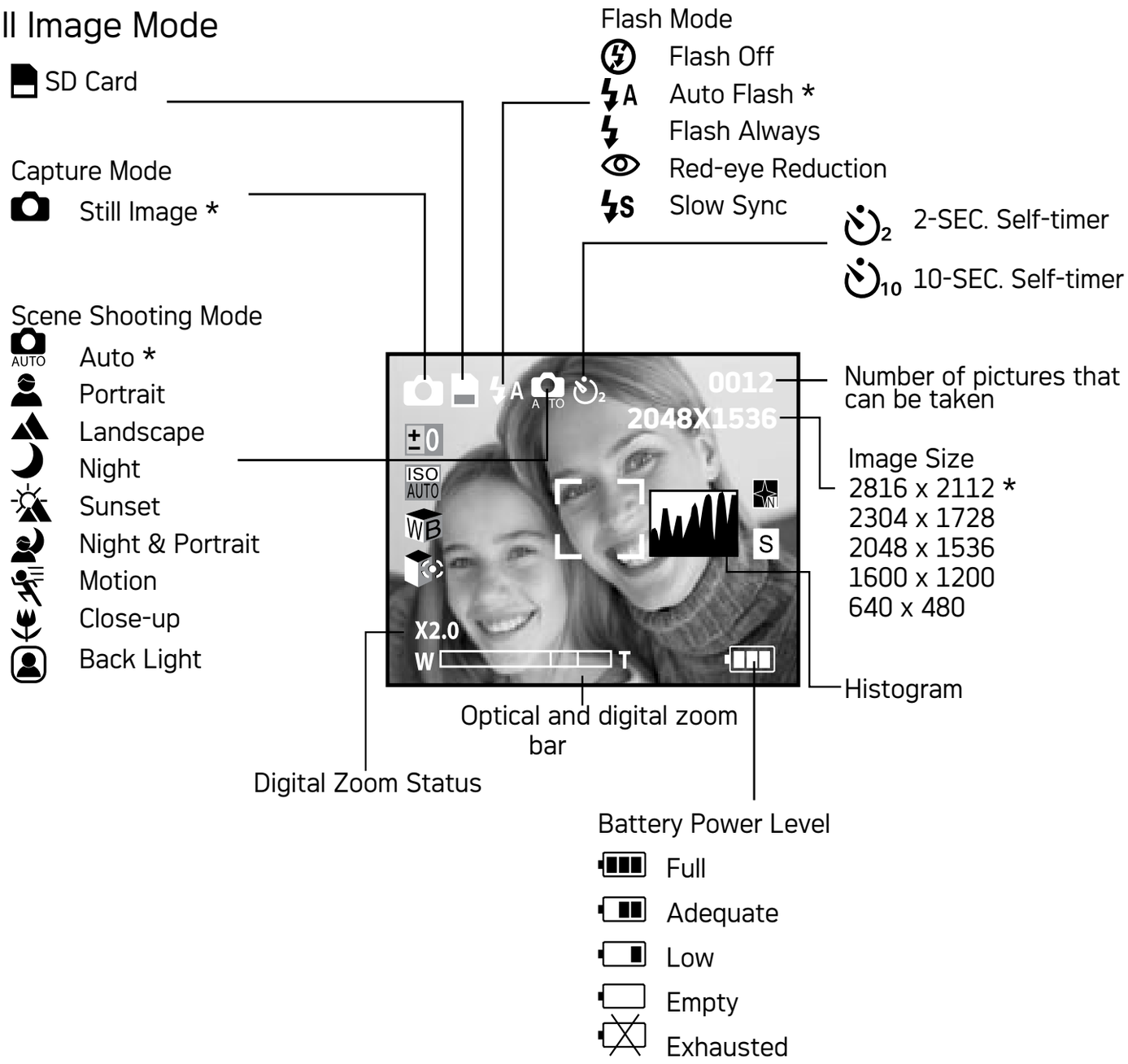
2. Press the ⏻ button again to turn off the camera.

IMPORTANT!
All operations, including taking pictures and video clips, and adjusting settings for shooting and playback, are performed while the camera is powered on.

2 Camera Setting

• Checking Camera Status

Turn on the camera and view the camera LCD screen to check which camera settings are active. Those particular features whose icons are not displayed are not activated.



* Default setting

Exposure Compensation Value
+/-2.0, +/-1.5, +/-1.0,+/- 0.5
+/- 0

ISO Sensitivity

- Auto *
- 100
- 200
- 400

White Balance

- Auto *
- Daylight
- Cloudy
- Tungsten
- Fluorescent

Light metering

- Average *
- Center
- Spot

Sharpness

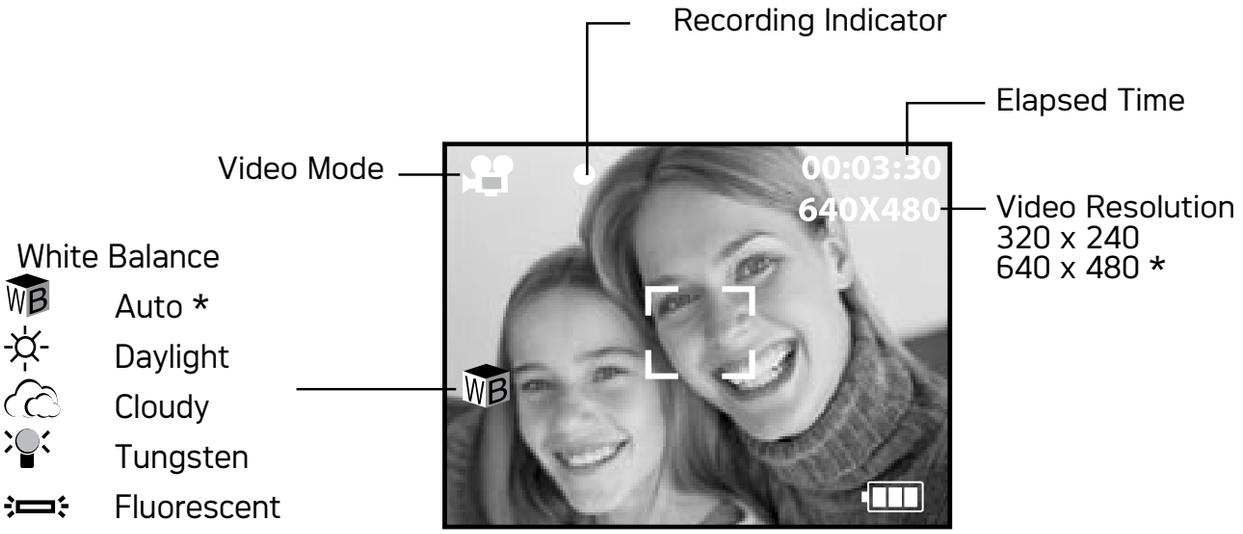
- Strong
- Normal *
- Soft

Compression

- S Super Fine *
- F Fine
- N Normal

* Default setting

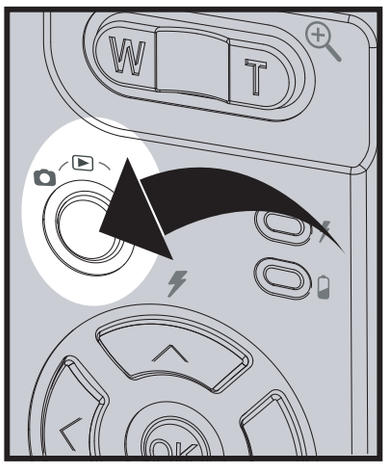
Video Mode



Playback Mode

• Camera Modes

The camera has three working modes, Capture mode, Playback mode and Video mode. Pressing the mode button switches among the Capture mode, Playback mode and Video mode.

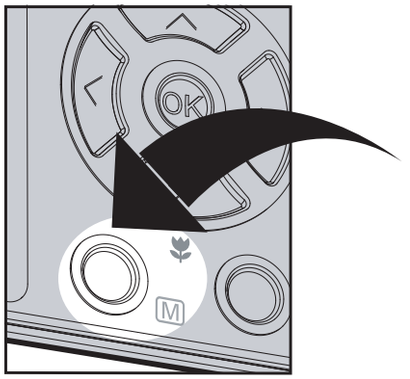


NOTE:
- Still Image mode is the default capture mode.

• How to Navigate Menus

Menus and function bars are used to adjust capture and play settings, as well as other camera settings like the Date / Time, Auto Power Off, and so on.

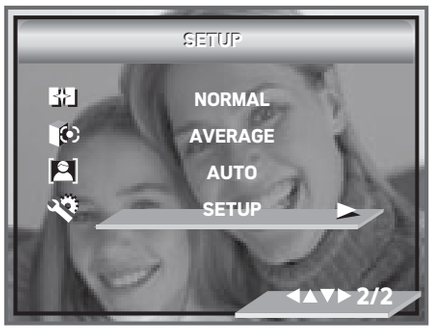
Press the M button to enter the menu and press the right button to enter an submenu. Use the up and down buttons to scroll up and down, and use the left and right buttons to scroll left and right. Use the OK button to confirm your choice, and left button to return previous in first and second level menu.



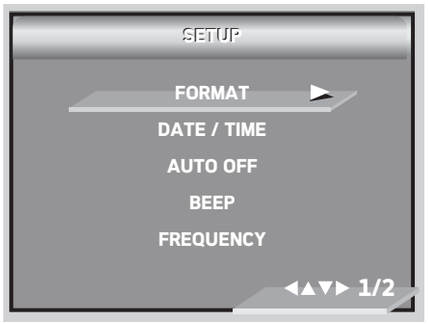
Press the M button to activate a function bar. Use the four-way navigation buttons to scroll up, down, left and right.

• Setup Menu

The setup menu can be accessed in all nine working modes to customize your camera settings. Here we take the mode for an example.



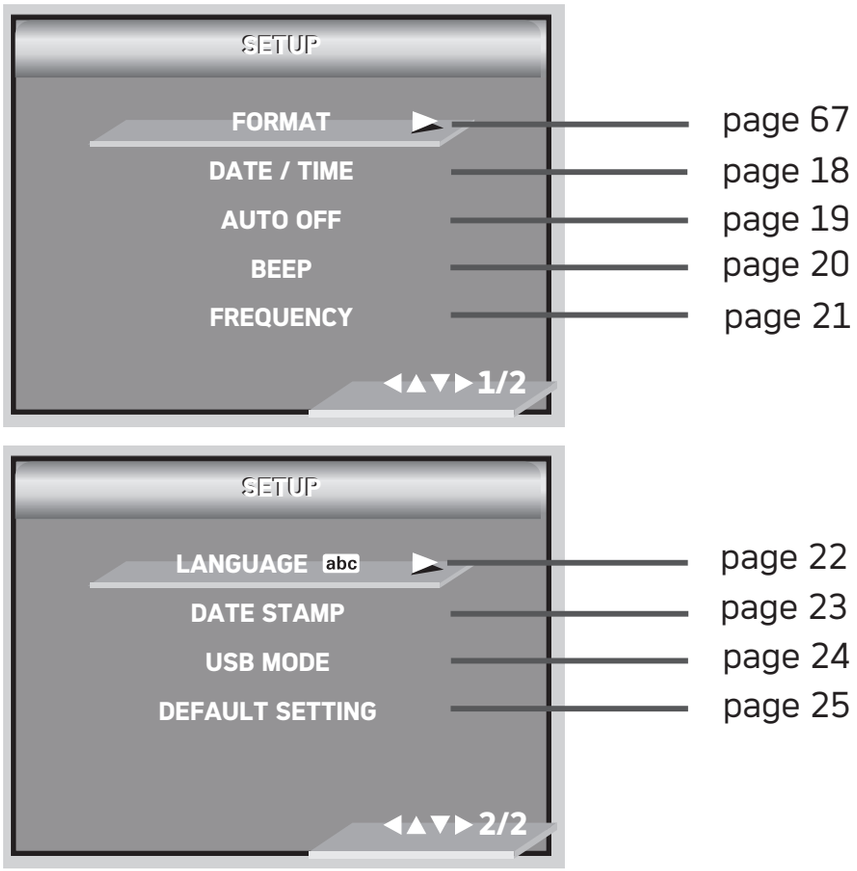
1. Press the Ⓜ button to access the main menu.



2. Press the or button to select the SETUP option.

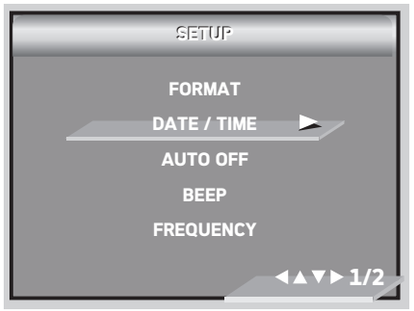
3. Press the button to access the SETUP submenu.

4. Use the or buttons to select a setup option and then press the button to enter the next submenu for that particular option.



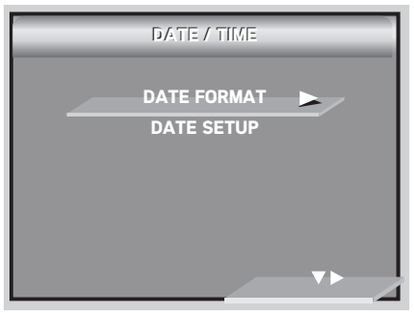
• Setting the Current Date and Time

1. Follow the guidelines in “Setup Menu” on page 16 to access the SETUP menu.
2. Press the ▶ button to access the DATE/TIME submenu.

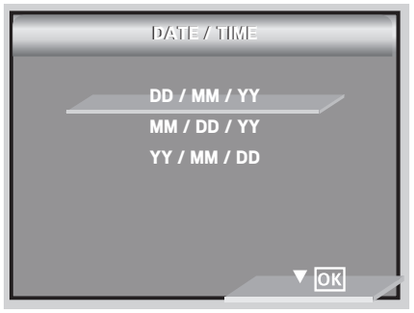


Setting the Date Format

3. Press the ▲ or ▼ button to select “DATE FORMAT”.
4. Press the ▶ button.

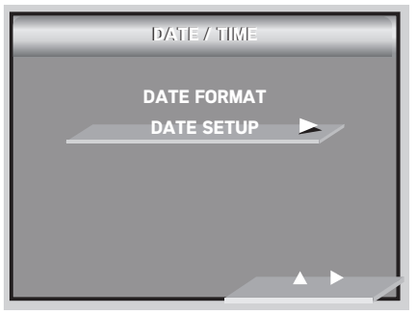


5. Press the ▲ or ▼ button to select the desired setting.
6. Press the OK button.

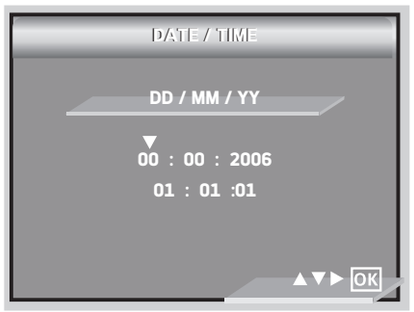


Setting the Date and Time

3. Press the ▲ or ▼ button to select “DATE SETUP”.
4. Press the ▶ button.



5. Press the ▲ or ▼ button to adjust the value in the field.
6. Press the ▶ button to switch to the next field.
7. Press the OK button.

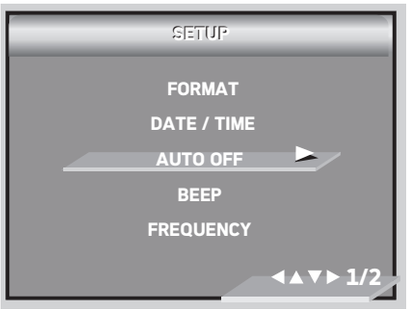


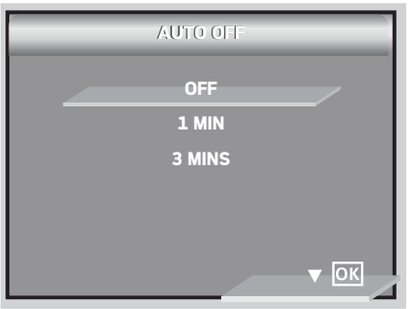
• Setting Auto Power Off

The camera is equipped with a power saving operation to conserve battery power.

You can change the power saving setting with the following steps:

1. Follow the guidelines in "Setup Menu" on page 16 to access the SETUP menu.
2. Select the AUTO OFF option using the ^ and v button.
3. Press the > button to access the AUTO OFF submenu.
4. Specify the automatic power off period using the ^ or v button. Press the OK button to confirm your choice and exit from the menu window.





1 MINUTE / 3 MINUTES — The camera is designed to switch off automatically to save battery life after the specified period of inactivity.

OFF — The power saving function is not active.

NOTE:
Auto power off is automatically disabled under any one of the following conditions:

- While the camera is recording a video clip.
- While the camera is running a slide show.
- While the camera is connecting to PC, printer.

• Setting the Beep Sound On / Off

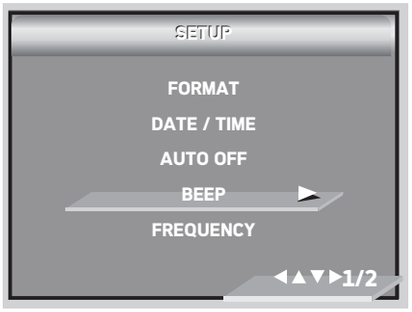
The beep sound can be turned on and off in the SETUP menu. When the beep sound is turned on, the camera will beep when you press the buttons.

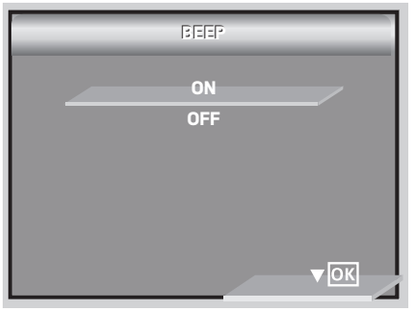
1. Follow the guidelines in “Setup Menu” on page 16 to access the SETUP menu.

2. Select the BEEP option using the and button.

3. Press the button to access the BEEP submenu.

4. Select ON or OFF using the or button. Press the OK button to confirm your choice and exit from the menu window.





•Selecting the Frequency

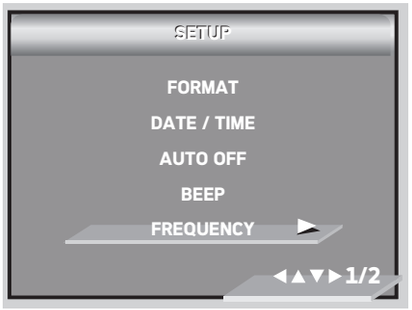
The correct frequency for your indoor shooting scence makes better photos.

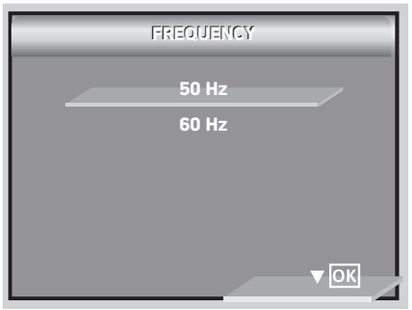
1. Follow the guidelines in “Setup Menu” on page 16 to access the SETUP menu.

2. Select the FREQUENCY option using the ^ and v button.

3. Press the > button to access the FREQUENCY submenu.

4. Select the frequency of your own country using the ^ or v button. Press the OK button to confirm your choice and exit from the menu window.





NOTE:

50 HZ	For European users
60 HZ	For United States users

• Setting the Display Language

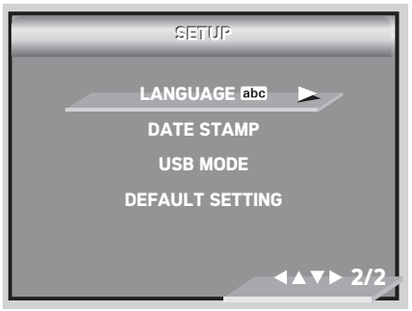
Different languages can be selected for the menu to suit your preference.

1. Follow the guidelines in “Setup Menu” on page 16 to access the SETUP menu.

2. Select the LANGUAGE option using the ^ and v button.

3. Press the > button to access the LANGUAGE submenu.

4. Select the language you prefer using the ^ or v button. Press the OK button to confirm your choice and exit from the menu window.



• Setting the Date Stamp On / Off

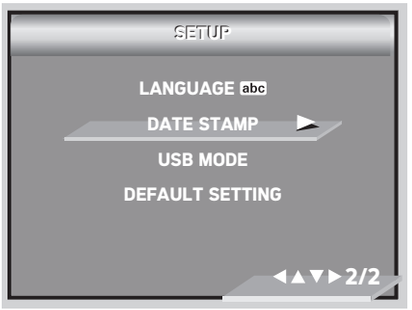
Use the date stamp setting to imprint the date on your pictures. Make sure the date is correct before setting the date stamp on.

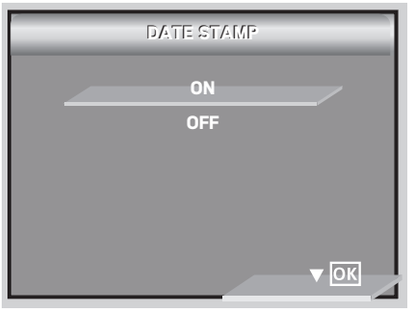
1. Follow the guideline in “Setup Menu” on page 16 to access the SETUP menu.

2. Select the DATE STAMP option using the ^ and v button.

3. Press the > button to access the DATE STAMP submenu.

4. Select ON or OFF using the ^ or v button. Press the OK button to confirm your choice and exit from the menu window.



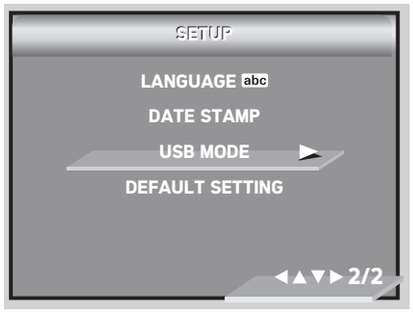


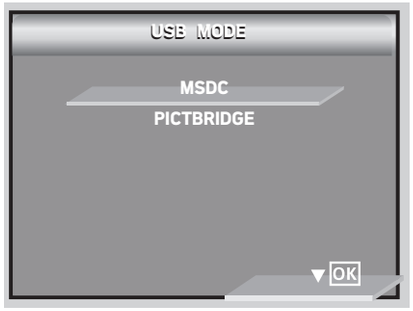
• Changing the USB Mode Between Mass Storage Mode and Pictbridge

You can choose either MSDC (Mass Storage Device Class) or Pictbridge Camera as a driver type in this camera.

MSDC is a computer interface between a computer and a digital camera which shows the digital camera as a removable disk drive attached to the computer. You may view and download pictures and video clips stored in your camera's internal memory or a SD memory card onto your computer.

1. Set the camera to Still Image mode.
2. Access the Setup menu.
3. Press the ^ or v button to select "USB MODE".
4. Press the > button.
5. Press the ^ or v button to select the desired setting.
6. Press the OK button.





NOTE:
The driver type always resets to MSDC when the camera is turned off.

• Restoring Default Settings

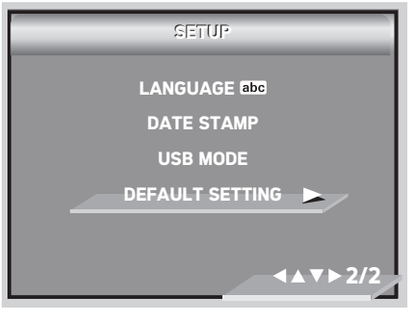
Default setting can be restored by the following steps (For more guidelines, please see “Camera Default Settings” on page 86).

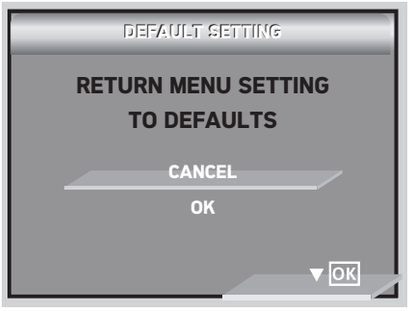
1. Follow the guidelines in “Setup Menu” on page 16 to access the SETUP menu.

2. Select the DEFAULT SETTING option using the and button.

3. Press the button.

4. Select OK using the button. Press the OK button to restore default settings and exit from the menu window.

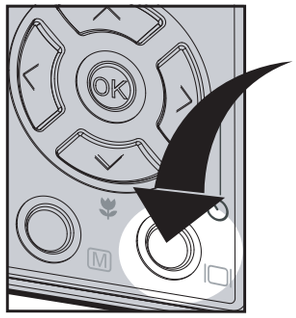


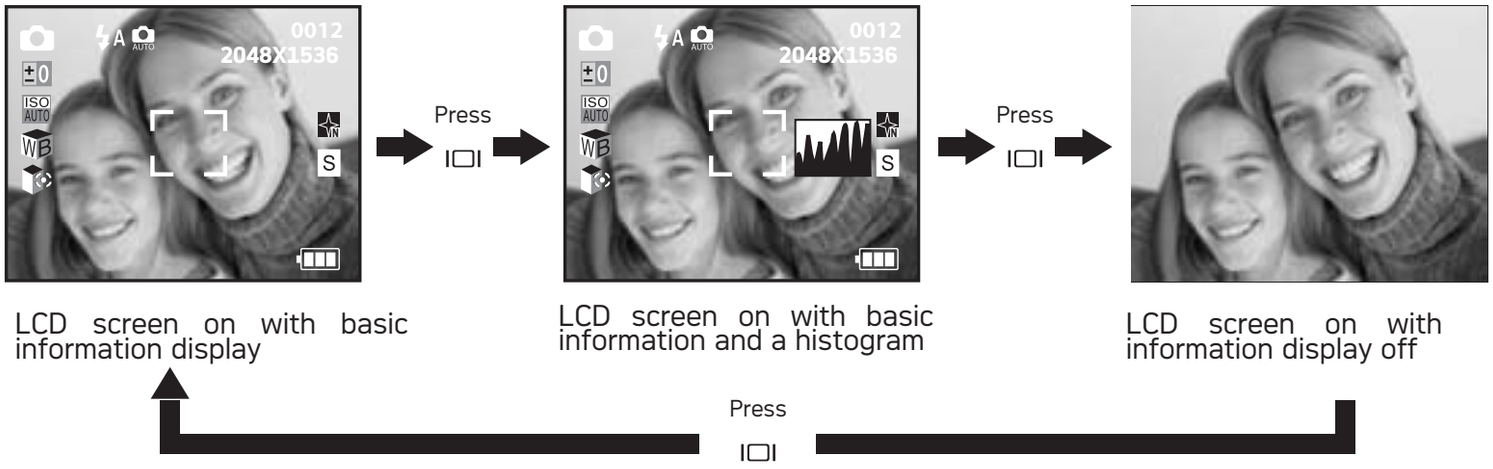


NOTE:
Selecting CANCEL will cancel the operation and exit from the menu window.

• Switching the Information Display and LCD Screen On and Off

The LCD Screen can be changed by pressing the button.



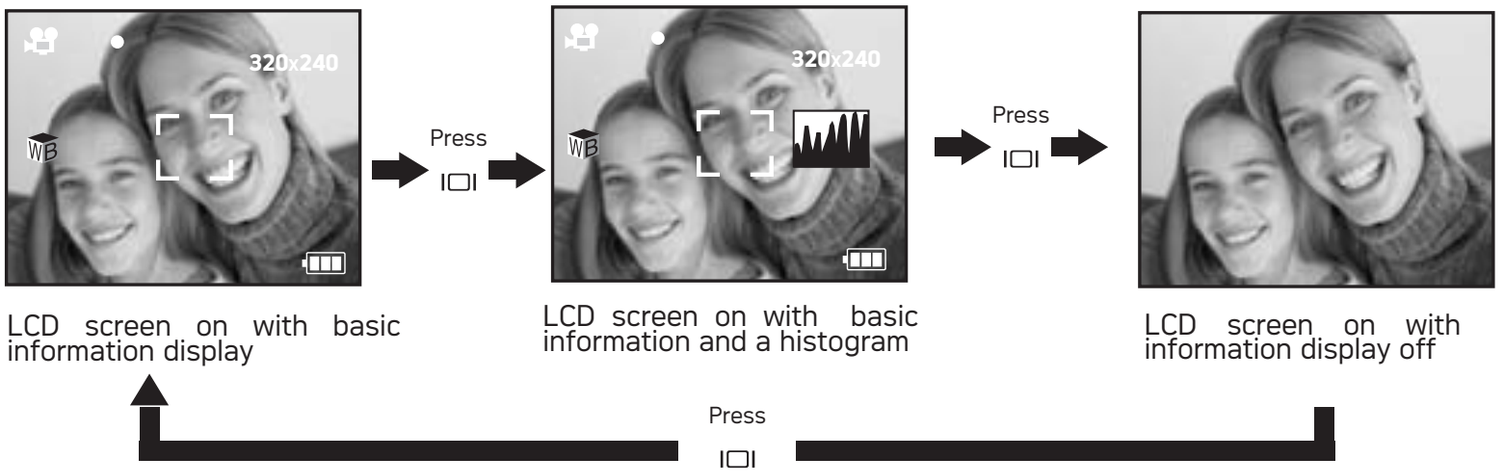


LCD screen on with basic information display

LCD screen on with basic information and a histogram

LCD screen on with information display off

In mode:

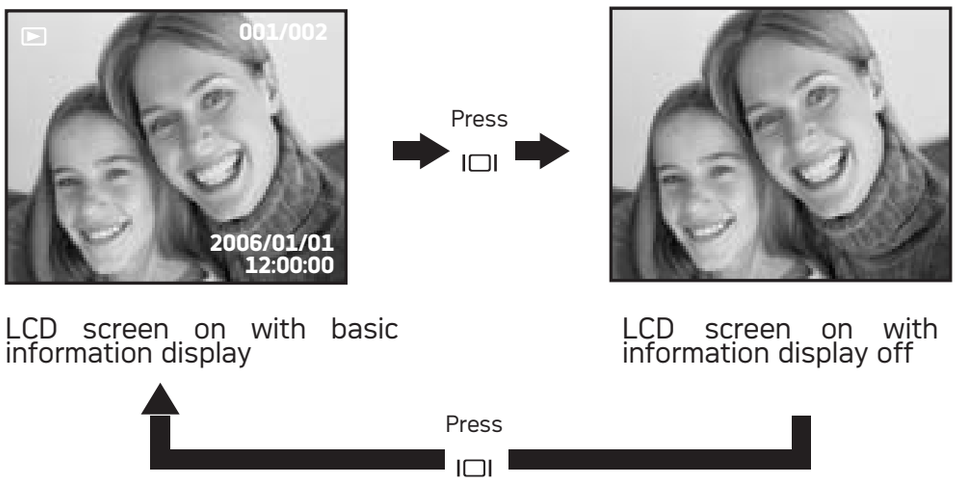


LCD screen on with basic information display

LCD screen on with basic information and a histogram

LCD screen on with information display off

In mode:



LCD screen on with basic information display

LCD screen on with information display off

3 Taking Pictures

Before you take pictures, please read this note first:

NOTE:
Never remove the batteries while a picture is being saved. Doing so will prevent the current picture from being saved and may corrupt other pictures already stored on the camera's internal memory or a memory card.

• Taking Pictures in Normal Mode

Use this mode to capture subjects and make sure they are at least the distance from the taking lens as indicated below:

Wide Angle: 0.3 m (1 ft) ~ Infinity

Telephoto: 0.4 m (1.3 ft) ~ Infinity

NOTE:
Most settings are saved by the camera when the power is turned off so that the same setting is automatically available when the power is turned on again. Make sure you verify your settings when turning the camera on again.

1. Set the camera to the Still Image mode.
2. Frame your subject using the LCD screen.
3. Press the shutter button halfway to set the exposure and focus. The camera automatically detects the subject. The camera's focus mark is highlighted in green when the camera's focus is locked on the subject.

NOTE:

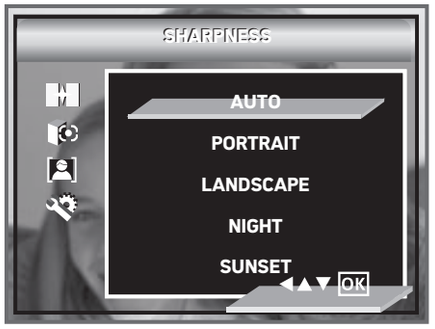
- When the camera's focus mark is highlighted in green, the user can take photos normally.
- When the camera's focus mark is highlighted in red, the subject is not in proper focus, as the subject is either out of range or the light is too low. Release the shutter button, recompose the scene and press the shutter button halfway to reset the focus.
- When the light is relatively low, the focus lamp helps the camera easily focus on the subject.
- The LCD screen will show you the aperture value and shutter speed at when you take the picture.

4. Hold the camera steady and slowly press the shutter button down to take your image.

• Taking Pictures in Different Scene Shooting Modes

Select a mode that is suitable to your shooting conditions:

1. Press the mode button to set the camera to Still Image mode.
2. Press the M button to access the main menu.
3. Press the ^ or v button to select the SCENE MODE option.
4. Press the > botton to enter the submenu.
5. Press the ^ or v button to select one setting desired.
6. Press the OK button to confirm your choice.



When shooting under these conditions:	Select this mode	Icon shown on the LCD screen
For general picture-taking. Automatic exposure and point-and-shoot operation and manual adjustment on flash mode, image size, ISO sensitivity, etc.	Auto	
Define the subject in a portrait shot by using the largest aperture value to produce a blurred background.	Portrait	
Produce largest depth of field by locking the focus at infinity and keeping the smallest aperture value.	Landscape	
Used for the wide scenic views at night	Night	
Enhance the red hue for recording sunset images.	Sunset	
Blurring the background to focus on the subject at night	Night & Portrait	
Freeze the subject in motion by using a faster shutter speed in combination with ISO 100 sensitivity for a particular exposure.	Motion	
For taking close-up (macro) pictures.	Close-up	
Shooting the image of backlit object by changing the metering	Backlight	

• Taking Pictures in Close Up (Macro) Mode

Use this mode to capture subjects this close to the lens:
Wide Angle: 0.1 m (4 inches) ~ 1 m (3.3 ft)
Telephoto: 0.2 m (7.9 inches) ~ 1 m (3.3 ft)

1. Set the camera to Still Image mode.

2. Press the button and the icon appears on the LCD screen.

3. Capture procedures are the same as for taking a picture in the normal capture mode. See page 28.

• Setting Flash Mode

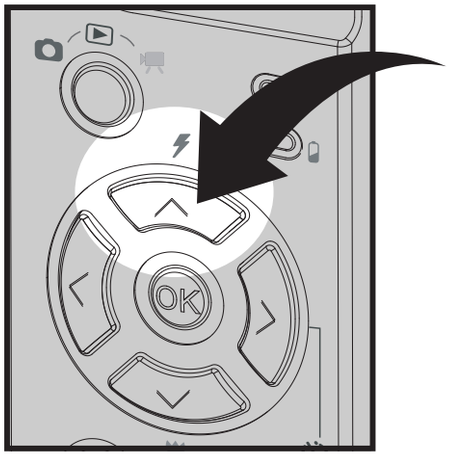
Use the flash when you take pictures at night, indoors, or outdoors in heavy shadows.The camera has four flash modes (default setting is Auto Flash).

Flash Range:

- Normal
  Wide: 1m (3.3 ft) to 3 m (9.9 ft)
  Telephoto: 1m (3.3 ft) to 2.5 m (8 ft)
- Close Up
  Wide: 0.1m (4 inches) to 1m (3.3 ft)
  Telephoto: 0.2m (7.9 inches) to 1 m (3.3 ft)

1. Press the mode button to set the camera mode to .

2. Press the button to cycle through the flash options and select the one you need.



NOTE:
When you press the button, the Flash LED blinks, which indicates the flash is charging. The icon (according to the flash setting you selected) will appear on the LCD screen.

When shooting under these conditions:	Select this mode	Icon shown on the LCD screen
The flash does not fire. Use this setting for outdoor pictures, or where flash is prohibited or may be distracting, or when shooting towards a reflective surface, such as a window or a mirror. If there is not enough light when using this setting, your pictures will be too dark.	Flash Off	
The flash fires automatically as needed. Use this setting to take most pictures.	Auto Flash	
Use this setting to avoid red eye in your subject's eyes. The camera fires a brief preflash before the regular flash.	Red-eye Reduction	
The flash fires for every picture. Use this setting in high-contrast situations to provide fill-light or use it indoors in low light.	Flash Always	
There is a slight delay in the flash than it does in Auto. Hold the camera steady until you have taken your pictures.	Slow Sync	

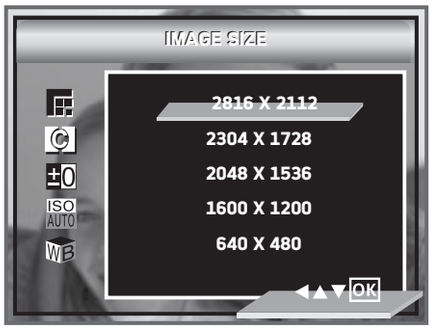
NOTE:
Never touch or block the flash with your fingers. Doing so can damage these components and interfere with the correct flash operation.

• Setting the Image Size and Compression

Picture resolution refers to the number of pixels in a digital picture. Picture quality depends on the JPEG file compression that the camera applies when the picture is taken. Higher resolution and less compression makes better quality and occupies more memory space. Smaller size and normal quality pictures are easier to email while larger size and fine quality pictures are better for printing.

Image Size setting

1. Press the mode button to set the camera mode to .
2. Press the M button to access the main menu. Press the or button until the IMAGE SIZE option is highlighted.
3. Press the button to access the IMAGE SIZE submenu.
4. Select the image size you prefer using the or button. Press the OK button to confirm your choice and exit from the menu window, or press the button to give up confirmation and return to the previous menu.



NOTE:
2816 x 2112 pixels is the default and optimal image size setting. It is recomended to use this setting for printing.

Compression setting

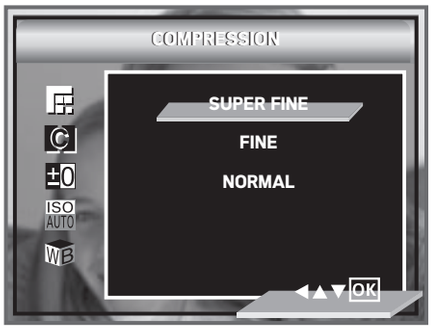
1. Press the mode button to set the camera mode to .

2. Press the M button to access the main menu.

3. Press the or button to select the COMPRESSION option.

4. Press the button to access the COMPRESSION submenu.

5. Select the compression you prefer using the or button. Press the OK button to confirm your choice and exit from the menu window, or press the button to give up confirmation and return to the previous menu.



The chart below indicates the approximate numbers of pictures you can expect the camera to hold at different resolution and quality setting based on the 16 MB internal memory card. You can expand the memory using a commercially available memory card. Please refer to “Capacity of SD Card” on page 83 for further details.

Compression / Resolution	S Super Fine	F Fine	N Normal
2816 x 2112	4	9	16
2304 x 1728	9	15	26
2048 x 1536	12	19	33
1600 x 1200	21	33	54
640 x 480	118	179	238

NOTE:
Scene complexity affects a picture’s file size. For example, a picture of trees in autumn has a larger file size than a picture of blue sky at the same resolution and quality setting. Therefore, the number of picture or the length of video clips you can store on a memory card may vary. The number of pictures on the LCD screen is for reference only.

• Setting Exposure Compensation for Pictures

You can adjust the exposure compensation value (EV) within the range of −2EV to +2EV in order to compensate for current lighting conditions. This setting can be used to obtain better result when shooting with backlighting, indirect indoor lighting, a dark background, and so on.

1. Press the mode button to set the camera mode to .
2. Press the M button to access the main menu.
3. Press the button to enter Exposure submenu.
4. Adjust the exposure compensation value using the or button.
5. Press the OK button to confirm. The currently selected option will be accessed and takes effect immediately.

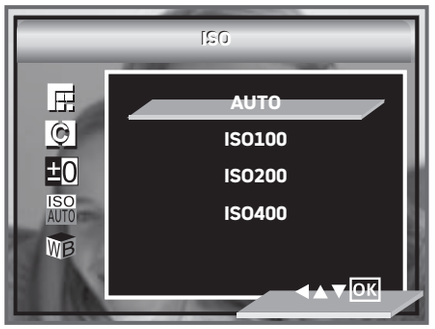
NOTE:

- A higher EV is best used for light-colored subjects and backlit subjects. A lower EV is best for dark-colored subjects and for shooting outdoors on a clear day.
- When shooting under very dark or very bright conditions, you may not be able to obtain satisfactory results even if performing exposure compensation.

• Changing the ISO Speed

This function enables you to change the camera's sensitivity to light by selecting different ISO values. ISO is a measure of how quickly your camera reacts to light. The higher the ISO value, the less light needed to make an exposure, allowing the same exposure to be achieved with higher shutter speeds or smaller apertures. In a digital camera, higher ISO value allows higher shutter speed, at the expense of mottle or grain appearing in the final picture.

1. Press the mode button to set the camera mode to .
2. Press the M button to access the main menu.
3. Press the or button to select the ISO option.
4. Select the ISO speed using the button.
5. The currently selected option will be accessed and takes effect immediately. Press the OK button to exit from the function bar, or press the button to return to the previous menu.



ISO 100 ISO 200 ISO 400

In the same lighting condition, the higher ISO value it is, the faster the shutter speed will be.

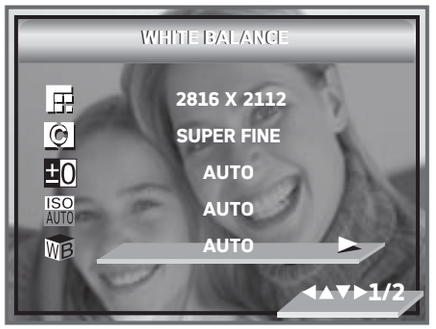
ISO AUTO

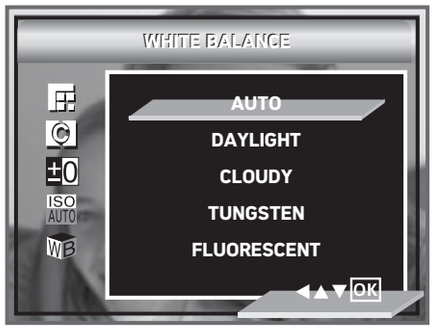
The camera's sensitivity is automatically changed by different lighting value or subject brightness.

NOTE:
Increase in ISO value affects image quality with more noise. Use as low an ISO value as possible.

• Setting White Balance for Pictures

Selecting the right type of white balance can help to make the colors of a subject appear more natural under the type of lighting environment.



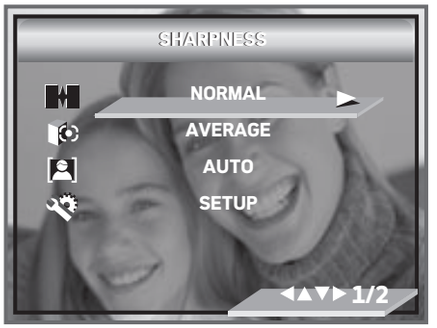


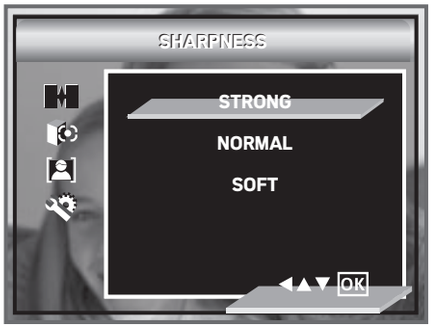
1. Press the mode button to set the camera mode to .
2. Press the M button to access the main menu.
3. Press the or button to select the WHITE BALANCE option.
4. Press the button to enter submenu.
5. Select the right type of white balance using the or button.
6. The currently selected option will be accessed and takes effect immediately. Press the OK button to exit from the main menu, or press the button to return to the previous menu.

When shooting under these conditions	Select this setting	Icon shown on the LCD screen
Automatic adjustment	Auto	
Outdoor sunny day	Daylight	
Cloudy	Cloudy	
Indoors, illuminated by light bulbs	Tungsten	
Indoors, illuminated by cool white fluorescent lighting	Fluorescent	

• Setting the Sharpness

Use the sharpness setting to highlight or blend the edges of subjects in pictures.



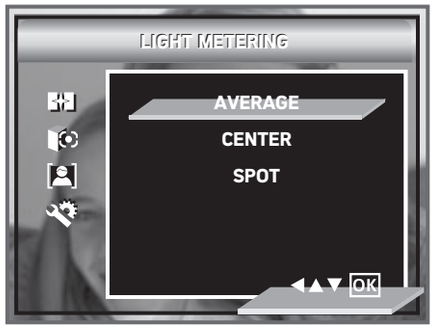


1. Press the mode button to set the camera mode to .
2. Press the M button to access the main menu.
3. Press the or button to select the SHARPNESS option.
4. Press the button to access the SHARPNESS submenu.
5. Select the sharpness you prefer using the or button.
6. The currently selected option will be accessed and takes effect immediately. Press the OK button to exit from the function bar, or press the button to return to the previous menu.

STRONG	Increases contrast on the edge of the picture. Image color noise may occur.
NORMAL	The edges of the image are sharp, this is suitable for printing.
SOFT	Softens the edge of the picture.

• Setting Light Metering

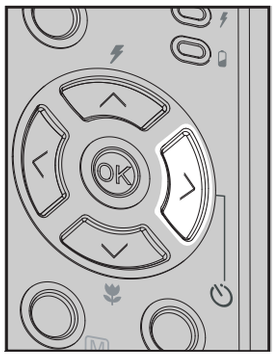
Use the light metering setting to ensure that the proper amount of light enters into the camera lens.



1. Press the mode button to set the camera mode to .
2. Press the M button to access the function bar.
3. Press the or button to select the LIGHT METERING option.
4. Press key to enter submenu.
5. Select the metering method using the or button.
6. The currently selected option will be accessed and takes effect immediately. Press the OK button to confirm and exit from the function bar, or press the button to return to the previous menu.

When shooting under these conditions	Select this setting	Icon shown on the LCD screen
Evaluates the lighting conditions throughout the picture to give an optimum picture exposure. Ideal for general picture taking.	Average	
Evaluates the lighting conditions of the subject centered on the LCD screen. Ideal for backlit subjects.	Center	
Similar to Center, except the metering is concentrated on a smaller area of the subject centered on the LCD. Ideal when an exact exposure of a specific area in the picture is needed.	Spot	

• Setting Self-timer



Your camera is designed with a self-timer function which allows you to take pictures with the 2-second or 10-second built-in timer.

1. Press the mode button to set the camera mode to .

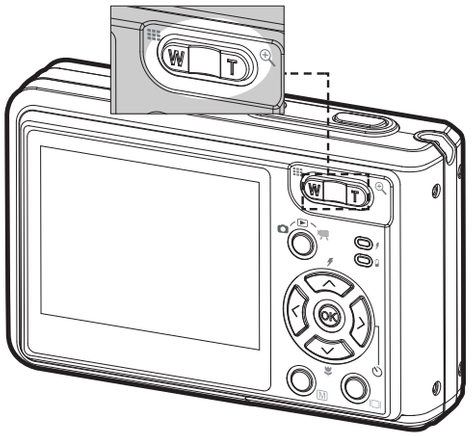
2. Press the right/self-timer button to select.

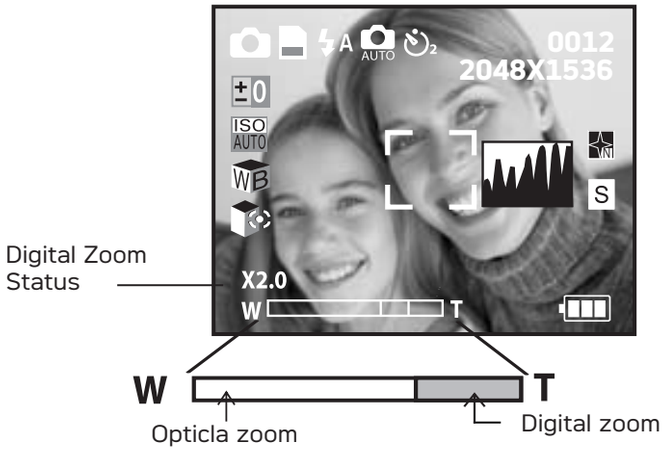
OFF	Disable the self-timer function.
2	2-second self-timer indicates a countdown of two seconds. The Self-timer LED will blink before the picture is taken.
10	10-second self-timer indicates a countdown of 10 seconds. The Self-timer LED will blink before the picture is taken.

• Zoom Feature

Your camera is designed with optical and digital zoom features that allows you to zoom in the central area of an image and photograph only the enlarged portion of the picture. Optical zoom alters the focal distance of the zoom lens, and its factor range is 1X to 3X. Digital zoom is activated after the camera reaches the maximum optical zoom (3X). It enlarges the part of the image up to four times at the center of the image screen.

Zoom In or Out the Image





1. Turn on the camera.
2. Press the mode button to set the camera to Still Image or Video mode.
3. Press the Zoom In or Zoom Out button to zoom in or zoom out the subject image. The zoom status is shown on the LCD screen.
4. Now you can takes pictures and review them under the zoom setting. The zoom setting will remain after taking pictures. If you want to take a normal size picture, please use the Zoom Out button.

For digital zoom feature, we recommend the user to use the LCD screen to monitor the zoom feature.

NOTE:

- Zoom feature is available in mode.
- Using the digital zoom cause a decrease in image quality.

• Recording Video Clips

Use the Video mode to record video clips with audio.

1. Press the mode button to set the camera mode to .
2. Frame your subject using the LCD screen.
3. Press the Shutter button to start recording. Recording automatically stops when the current memory is full.

While recording, the red ● icon will appear on the LCD screen.

NOTE:

- The zoom feature is not available during recording video clips.
- The maximum length that the camera can hold at either 320 x 240 or 640 x 480 pixels depends on the memory capacity. The length of clips may vary with scene complexity. The length of clips may vary with scene complexity.

• Setting Video Image Size

Image Size refers to the number of pixels in a digital video clip. Video clip quality depends on the file resolution that the camera applies when the video clip is recorded. Higher resolution makes better quality while occupying more memory space.

1. Press the mode button to set the camera mode to .

2. Press the M button to access the main menu. Press or button until IMAGE SIZE option is highlighted.

3. Press the button to access the IMAGE SIZE submenu.

4. Select the resolution using the or button.

5. Press the OK button to confirm your choice and exit from the menu window.

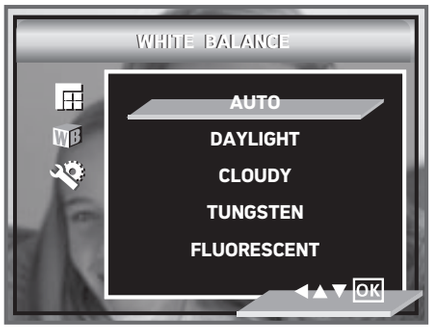
Here are the approximate length of video clips you can expect the camera to hold at each setting based on the 16 MB internal memory card. You can expand the memory with a commercially available memory card. Please refer to “Capacity of SD Card” on page 83 for further details.

Resolution:	640 x 480	Approx. 9 seconds (30 fps)
	320 x 240	Approx. 28 seconds (30 fps)

• Setting White Balance for Video Clips

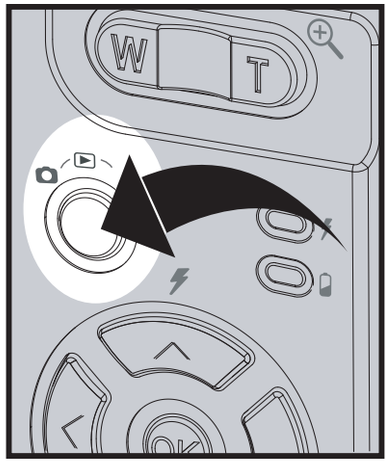
Selecting the right type of white balance can help to make the color of a subject in the video clip appear more natural under the type of lighting that is available.

1. Press the mode button to set the camera mode to .
2. Press the M button to access the main menu.
3. Press the ^ or v button to select White Balance submenu.
4. Use > button to enter submenu, then select the value by pressing ^ or v button.
5. The currently selected option will be accessed and takes effect immediately. Press the OK button to exit from the function bar, or press the < button to return to the previous menu.



When shooting under these conditions	Select this setting	Icon shown on the LCD screen
Automatic adjustment	Auto	
Outdoor sunny day	Daylight	
Cloudy	Cloudy	
Indoors, illuminated by light bulbs	Tungsten	
Indoors, illuminated by cool white fluorescent lighting	Fluorescent	

• Reviewing Pictures



Reviewing Pictures in Full Screen

1. Press the mode button to set the camera mode to ▶.
2. Use the left and right buttons to view the pictures taken.

The ▶ icon is shown on the LCD screen when a picture is selected.

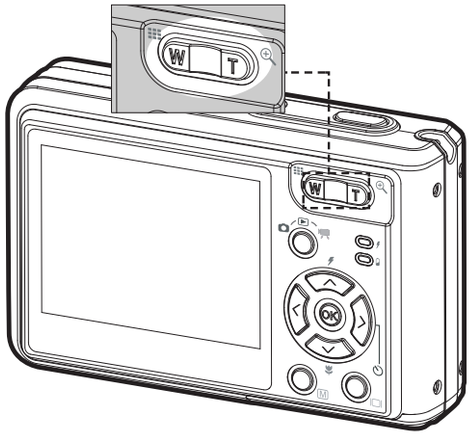
Reviewing Picture and Video Clip Files in Thumbnail

You can view up to nine pictures and video clip files at a time on the LCD screen by using the thumbnail function.

1. Press the mode button to set the camera mode to ▶.

2. Press the W button once and nine thumbnail files will be shown on the LCD screen with the latest displayed file highlighted.

3. Use the up, down, left and right buttons to select a thumbnail file and view it in full screen by pressing the OK or M button.



• Playing the Video Clip

1. Press the mode button to set the camera mode to ▶.
2. Use the ◀ and ▶ button to select the video clip you want to play.
3. Press the OK button to start playing the selected video clip, and press again to pause.
4. Press shutter button to exit.

The 🎞 icon is shown on the LCD screen when a video clip is selected.

• Protecting or Unprotecting the Selected Picture or Video Clip

Use the left or right button to select the picture or video clip you want to protect or unprotect.

1. Press the mode button to set the camera mode to ▶.
2. Press the M button to access the main menu. Press the ▲ or ▼ button until the PROTECT option is highlighted.
3. Press the ▶ button to access the PROTECT submenu.
4. Select ON or OFF using the ▲ or ▼ button.
5. Press the OK button to confirm your choice and exit from the menu window, or press the ◀ button to return to the previous menu.

• Running a Slide Show

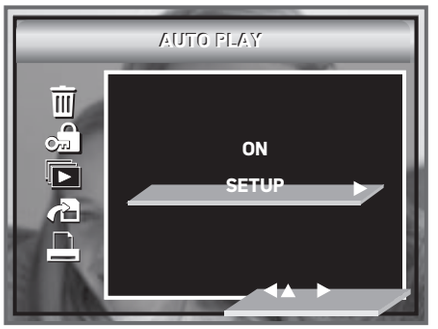
The slide show function enables you to view all picture and video clip files stored in the current memory repeatedly one by one on the LCD screen.

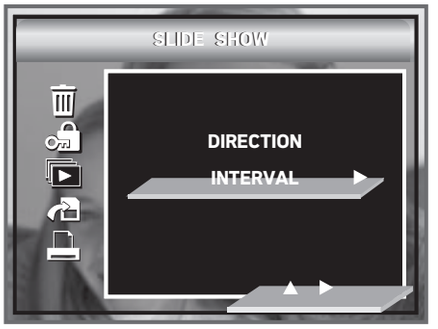
1. Press the mode button to set the camera mode to ▶.
2. Press the M button to access the main menu.
3. Press the ^ or v button until SLIDE SHOW option is highlighted.
4. Press the > button to access the SLIDE SHOW submenu.
5. Press ^ or v button to select ON, press shutter button to exit.

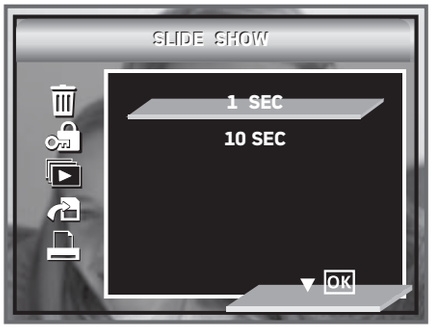
The slide show will automatically run from the currently displayed picture after you press the OK button. Press the OK button to stop the slide show.

Slide Show Interval

5. Press or button to select SETUP.
6. Press to enter submenu.
7. Press or button to select INTERVAL.
8. Press or button to select one setting desired.



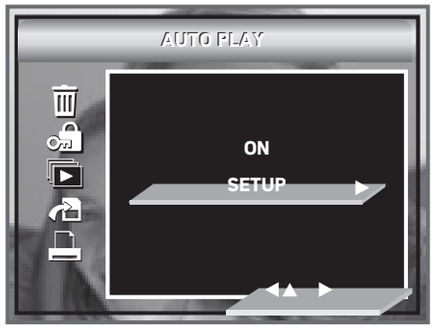


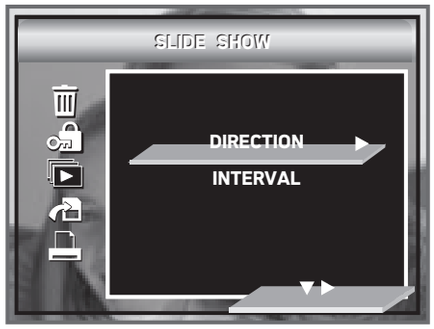


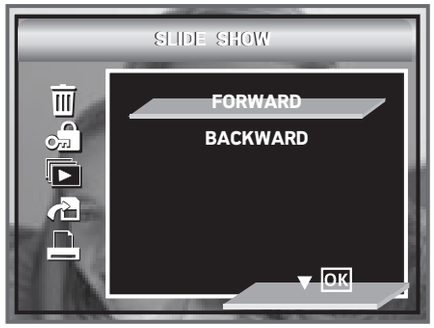
1, 10 SECONDS	Every picture will continually exist on the LED at an interval of 1, 10 seconds.

Slide Show Direction

1. Press the mode button to set the camera mode to ▶.
2. Press the M button to access the main menu.
3. Press the ^ or v button until SLIDE SHOW option is highlighted.
4. Press the > button to access the SLIDE SHOW submenu.
5. Press ^ or v button to select SETUP.
6. Press > to enter submenu.
7. Press ^ or v button to select DIRECTION.
8. Press ^ or v button to select one setting desired.



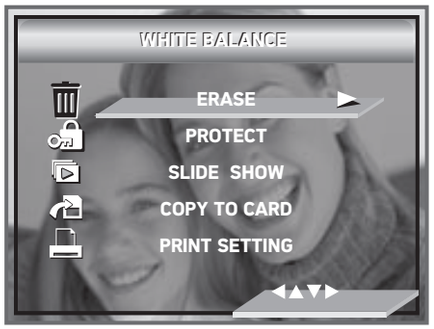


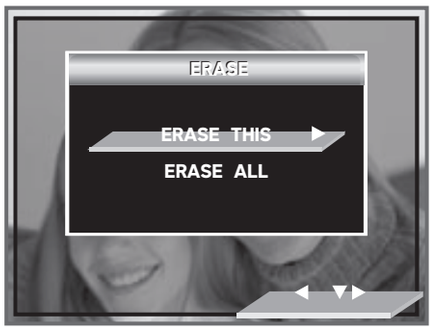


NOTE:
The slide show will keep running as long as all the pictures or video clips stored in the camera are displayed.

• Deleting Picture(s) and Video Clip(s)

1. Press the mode button to set the camera mode to ▶.
2. Press the M button.
3. Press the ^ or v button to select "ERASE".
4. Press the > button.
5. Press the ^ or v button to select one desired setting.

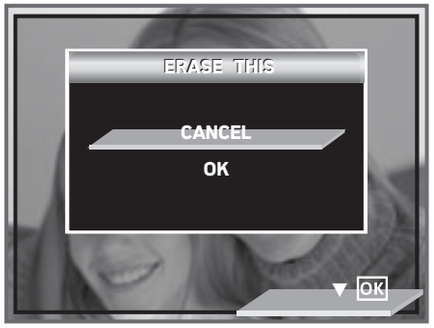




ERASE THIS — Erase the selected picture or video clip. Please select the picture or video you want to delete before pressing the Erase button.

ERASE ALL — Erase all pictures and video clips stored in the current memory.

6. Press the > button.
7. Select OK or CANCEL using the ^ or v button.



NOTE:

- Protected files can not be deleted. Remove protection before deleting.
- All deleted pictures and video clips cannot be recovered.

6 Print Setting

• About PictBridge

PictBridge is a new industry standard that allows you to print images directly from a PictBridge enable digital still camera to a PictBridge compatible printer without using a photo editing software or a computer.

Printing Procedures

1. Preparing the camera and the printer.

Camera	Be sure battery level is full before printing.
Printer	Refer to the user guide that comes with your printer and make preparations (paper, ink cassette, cartridge, etc.) as required.

Turn on the camera and the printer.

2. Selecting PictBridge mode

Set the camera to Playback mode and select the PictBridge mode. Refer to page 57 for details.

3. Connecting the camera to the printer

Refer to "Camera/Printer Connection" on page 58 for details.

4. Select print settings.

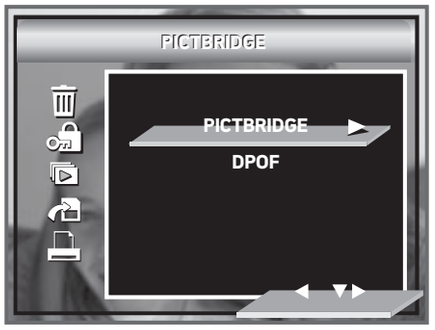
Use the camera's function and navigation buttons to select the print settings. Refer to page 59 for details.

5. Printing

Press the OK button to start printing.

Cancelling Printing

Press the button to cancel the print job. The printer will stop printing and eject the paper.



Printing Errors

One of the following messages may appear on the LCD screen, indicating that an error occurs before or during printing. Select “CANCEL” or “CONTINUE”. Or please refer to the printer’s user guide for the solutions. Printing may resume once the problem is solved.

NOTE:

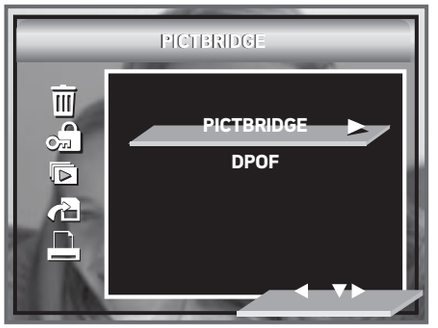
Printing operation may still fail with some errors even if you press the button after selecting “CONTINUE”. In that case, select “CANCEL” and press the button.

List of Error Messages

PAPER IS EMPTY	Paper cassette runs out of paper.
PAPER IS NOT LOADED	Paper is not loaded or incorrectly loaded.
PAPER IS NOT EJECTED	Paper is not ejected correctly.
MEDIA ERROR	Paper is not detected, paper is skewed, or roll paper cannot be cut or torn off.
PAPER IS JAMMED	The paper is jammed during printing.
PAPER IS NEARLY EMPTY	Paper cassette almost runs out of paper.
PAPER TYPE IS NOT SUPPORTED	Paper type or size is not supported by the printer or paper found in the printer does not match request.
INK EMPTY	Ink cassette is out of ink.
INK LOW	Ink cassette is almost empty.
WASTE INK RESERVOIR FULL	Waste ink reservoir is full.
HARDWARE FATAL ERROR	A serious error occurs with the printer's hardware.
PRINTER IS BUSY	The printer is busy with other print jobs from another source.
PRINTER IS OCCUPIED	The printer is performing maintenance or occupied by other external device.
COVER IS OPENED	The printer's cover is open or not securely closed.
NO MARKING AGENT	Some print information is missing during printing, e.g. missing print head.
INK COVER IS OPENED	The printer's ink cover is open or not securely closed.
NO INK CARTRIDGE	No ink cartridge is loaded.
SPECIFIED INFO IS TOO LARGE	Image information is too large to process.
FILE DECODE ERROR	Picture format of specified image cannot be decoded.

Selecting PictBridge Mode

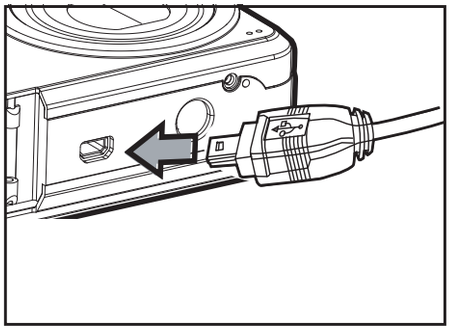
1. Press the mode button to set the camera mode to ▶.
2. Press the M button to access the main menu.
3. Press the ^ or v button to select the PICTBRIDGE option.
4. Press the > button.
5. Connect the camera with the printer via a USB cable.



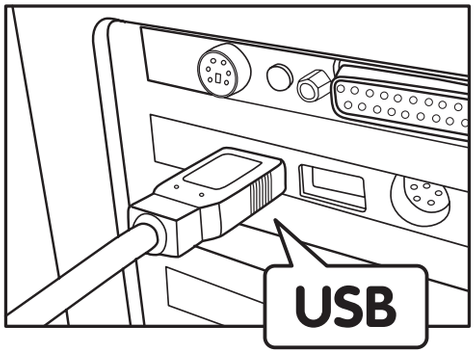
NOTE:
To print a single image, select the image before enabling PictBridge mode.

Carmra/Printer Connection

Connecting with the the USB cable.

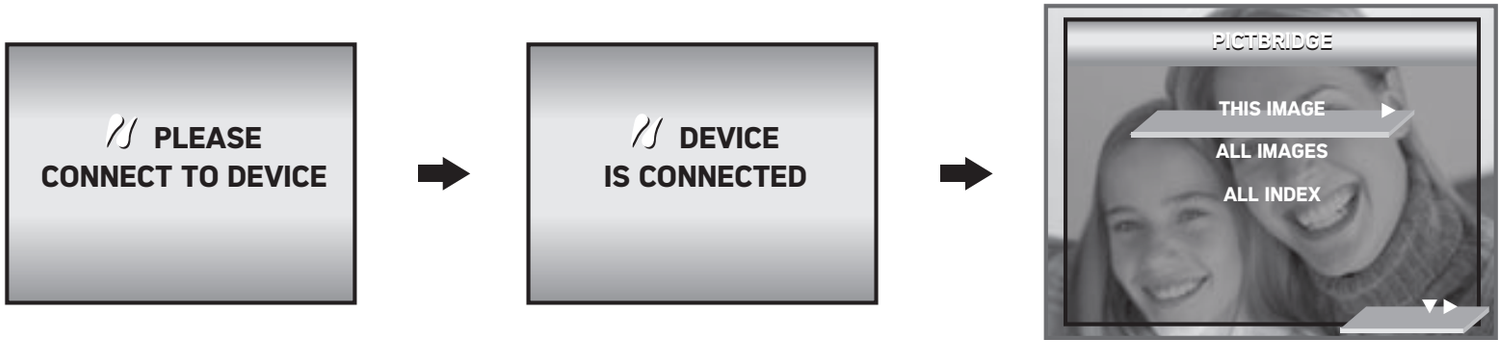


Plug USB cable into the port of your camera



USB Series "A" plug connects to your printer

1. Plug Series A of the USB cable into the ⇐ marked socket on your printer. Location of USB socket will vary from printer to printer.
2. Plug USB of the USB cable into the port on your camera.



NOTE:

- "DEVICE IS CONNECTED" displays on the LCD screen, indicating a proper connection to the printer.
- Do not connect the USB cable to the camera until PictBridge is enable and when prompted by the "PLEASE CONNECT TO DEVICE" screen. Or if you already have connected the cable to the camera, do not plug into printer until prompt to do so. Not following this sequence will result in connection failure.

Selecting Print Settings

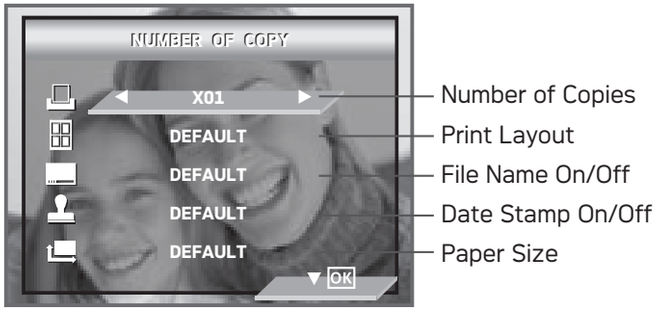
1. Press or button to select the print mode.

2. The following options are available.

THIS IMAGE	Print the selected image in the camera's internal memory or a memory card according to specified settings. Use the left or right button to designate the image you want to print before selecting the print settings.
ALL IMAGES	Print all images in the camera's internal memory or a memory card according to the specified settings.
ALL INDEX	All images in the camera's internal memory or a memory card are given an index and printed according to the specified settings.

NOTE:
- To print a single image, select the image before enabling PictBridge.
- Print settings are configured for images only. Make sure there are no video clips or other file besides images in the memory before printing.
- Not all printers will support all these print options. Please refer to the printer user guide for options available.

3. Press the or button to select the print settings.

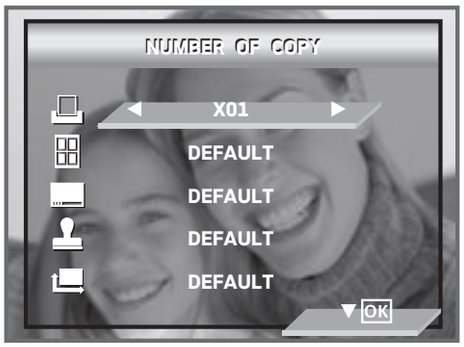


Select a setting item using the or button and select setting contents using the or button.

NOTE:
The camera's print settings are not supported by some printers. The LCD screen shows those settings that are available for the currently connected printer.

Specifying the Number of Copies

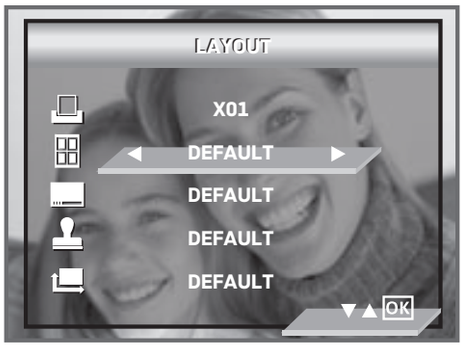
Press the left or right button to specify the number of copies (from 1 to 99) you want to print for the selected image or all images.



NOTE:
"01" is the default setting.

Selecting Print Layout

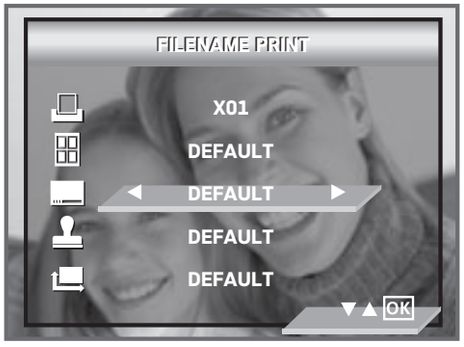
1. Press the button to select "N-UP LAYOUT".
2. Press the or button to specify the number of printed images on a page.



DEFAULT	Print settings differ according to the printer model.
N-UP	Print 1 to 256 pictures on one piece of paper.
BORDERLESS	Print right to the edge of the page.
INDEX PRINT	Specify the number of printed images on a page.

Setting the File Name On/Off

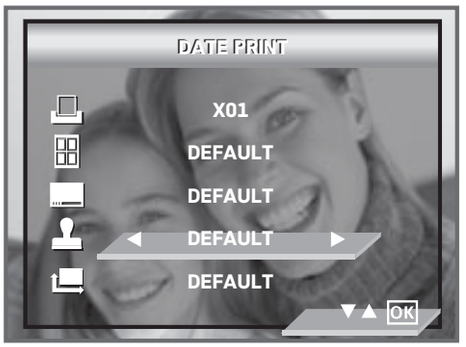
1. Press the button to select "FILE NAME".
2. Press the or button to select "DEFAULT" or "OFF".



DEFAULT	Print settings differ according to the printer model.
OFF	Print without the file name.

Setting the Date Stamp On/Off

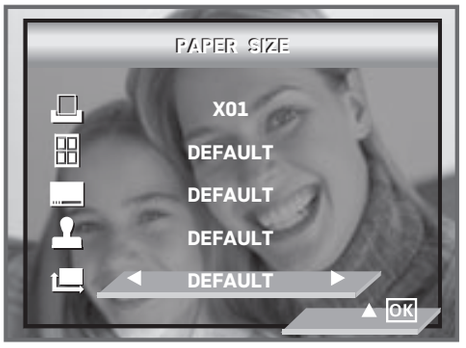
1. Press the button to select “DATE STAMPING”.
2. Press the or button to select “DEFAULT”, “ON” or “OFF”.



DEFAULT Print settings differ according to the printer model.
ON Add the date stamp to the printed image.
OFF Print without the date stamp.

Selecting Paper Size

1. Press the button to select “SIZE”.
2. Press the left or right button to select the paper size.
   The following paper sizes are supported: Default, L, 2L, postcard, cardsize, 100mm x 150mm, A4, A6, 4” x 6”, 8” x 10”, letter.



DEFAULT Print settings differ according to the printer model.

Printing

1. Press the OK button.
2. Press the button to continue printing.
3. Press the button to cancel printing.

Press the M button to return to the Pictbridge print setting window.

File name and date stamp may not be printed or printed incompletely on certain sizes of paper.

• About DPOF

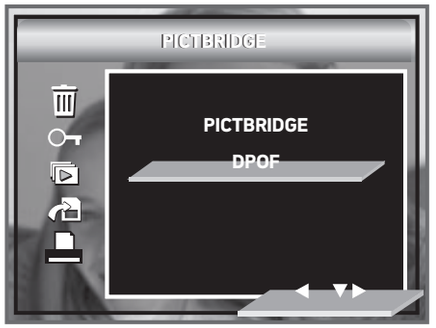
"DPOF" stands for "Digital Print Order Format", which is a format for recording on a memory card or other medium which captured images and how many copies should be printed. You can print on a DPOF-compatible printer or at a professional print service from the memory card in accordance with the file name and number of copies settings recorded on the card.

With this camera, you should always select images by viewing them on the LCD screen. Do not specify images by file name without viewing the file contents.

NOTE:

- Print settings are configured for images only. Make sure there are no video clips or other file besides images in the memory before printing.

1. Insert an SD card into the camera.
2. Turn on the camera.
3. Press the mode button to set the camera mode to ▶.
4. Press the M button to access the main menu.
5. Press the ▽ button until DPOF bar is highlighted.
6. Press the ▷ button to access the DPOF submenu.
7. Select THIS IMAGE or ALL IMAGES using the △ or ▽ button.



THIS IMAGE	The selected picture in the memory card will be printed up to 99 copies.
ALL IMAGES	All pictures in the memory card will be printed up to 99 copies for each picture.

To print a single picture, press the left or right button to select the picture you want to print before the above operation. Press the up or down button to specify the number of copies.

8. Press the right button.

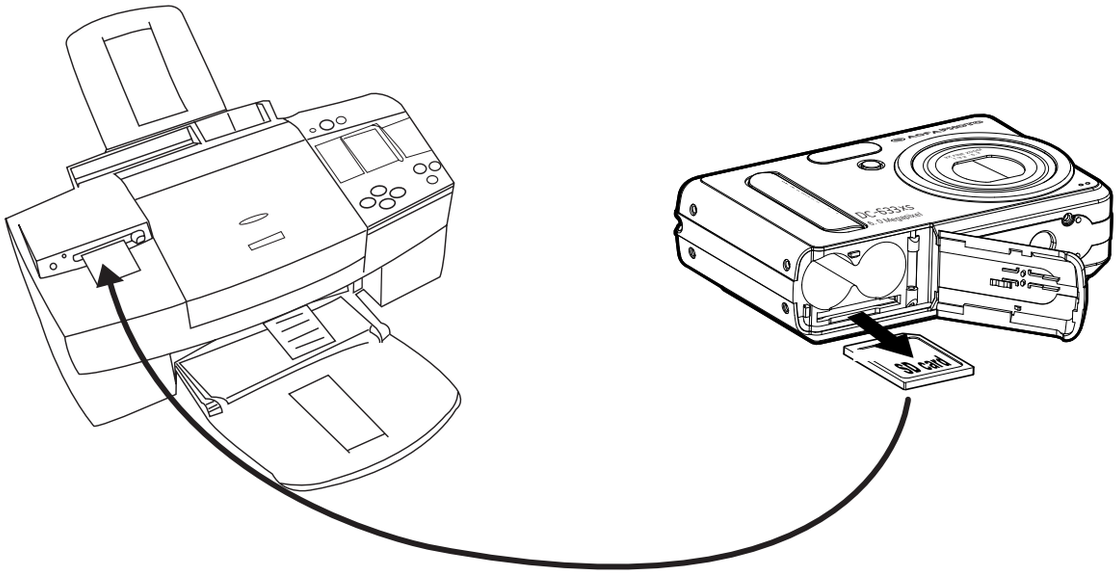
9. Specifying the number of printing copy using the or button.

10. Press the OK button to confirm your choice and exit from the menu window.

11. Remove the memory card from the camera and insert it into the printer's card slot (as illustrated). Location of the card slot may vary from printer to printer model.

NOTE:
Make sure you turn off the camera before inserting or removing a memory card.

12. Press the Print button on the printer to start printing.



7 Using Memory Card

• Using memory card

Your camera comes with built-in flash memory for storing pictures and video clips. You can expand the memory using a commercially available SD card (up to 1 GB). The camera senses whether a memory card is inserted, and automatically saves pictures and video clips accordingly. Note that you cannot save pictures or video clips to the built-in flash memory while a memory card is installed in the camera. See pages 82 to 84 for storage capacities.

Memory card precautions:

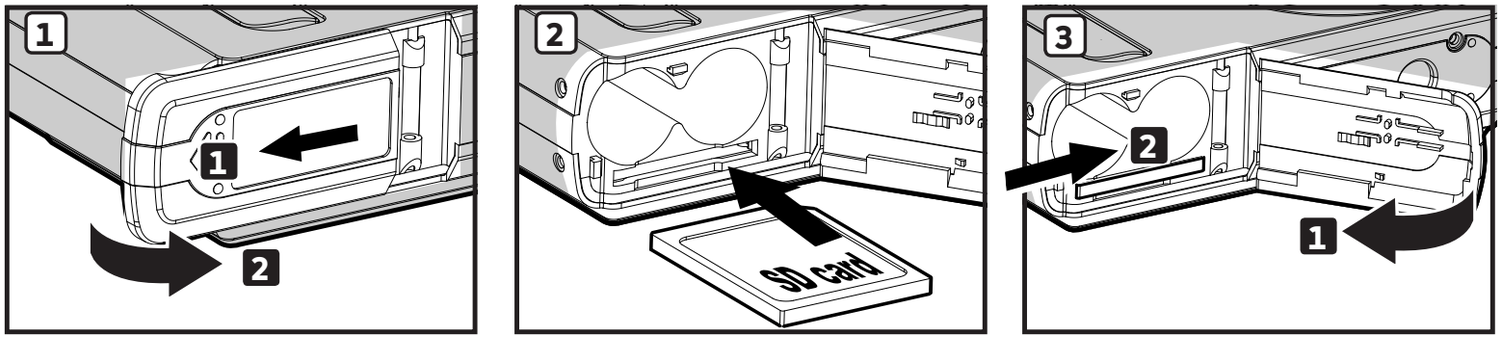
1. An electrostatic charge, electrical noise, and other phenomena can cause data corruption or even loss. Always make sure that you always back up important data on other media (MO disc, computer hard drive, etc.).
2. If a memory card starts to behave abnormally, you can restore normal operation by formatting it. However, we recommend that you always take along with more than one memory card whenever using the camera far away from your home or office.
3. We recommend that you format a memory card when using it for the first time, or whenever the card you are using seems to be the cause of abnormal pictures. Remember to format a memory card if it was used in another digital camera or other devices.

IMPORTANT!

- Make sure you turn off the camera before inserting or removing a memory card.
- Be sure to orient the card correctly when inserting it. Never try to force a memory card into the slot when you feel resistance.
- SD memory cards have a write protection switch that you can use to protect files from accidental deletion. However, you must remove the write protection whenever you want to record new files onto it, format it, or delete its files.
- Files contained in the SD card recorded by other cameras may conflict with your digital camera, and valuable data in your existing SD card may be distorted or lost when the card is inserted in your digital camera. We strongly recommend the user to use a NEW or formatted SD card for your digital camera. The manufacturer is not liable for losing or corrupting any valuable data or files in your SD card due to improper operation.
- As tests prove, your digital camera will work with most popular brands of memory cards.

Inserting the SD Card

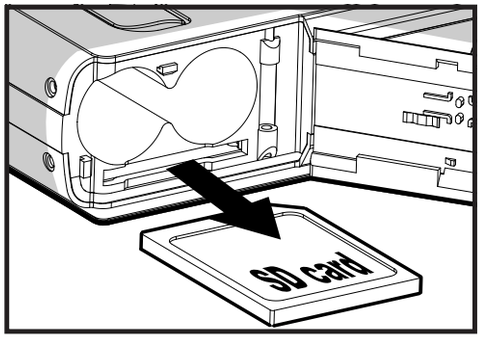
1. Open the SD card door by pushing it outwards as illustrated.
2. Insert the SD card, ensuring the card is inserted correctly as illustrated.
3. Close the SD card door by pressing it downwards and then slide it back to lock.



Removing the SD Card

1. Turn off your camera and open the SD card door.

2. Gently push the SD card inwards and then release it. The SD card will eject out of the SD card slot.



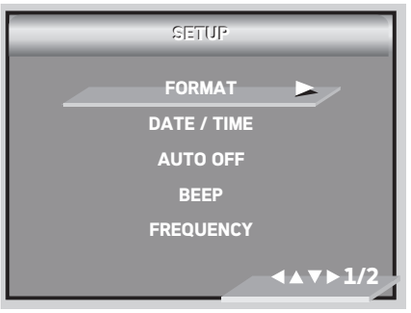
IMPORTANT!

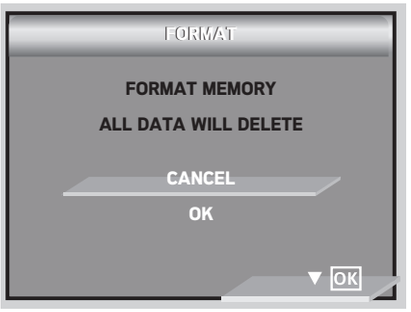
- Never insert any other objects into the camera's card slot. Doing so will create the risk of damage to the camera and card slot.
- Should water or any foreign objects ever get into the card slot, immediately turn off the camera, remove the battery, and contact your dealer or the nearest service provider.

• Formatting Memory

Formatting a memory card erases all data stored on it, including protected data.

1. Press the mode button to set the camera mode to .
2. Follow the guidelines in "Setup Menu" on page 16 to access the SETUP menu.
3. Press the or button to select the FORMAT CARD option.
4. Press the button.
5. Select OK or CANCEL using the or button. Press the OK button to confirm your choice and exit from the menu window.





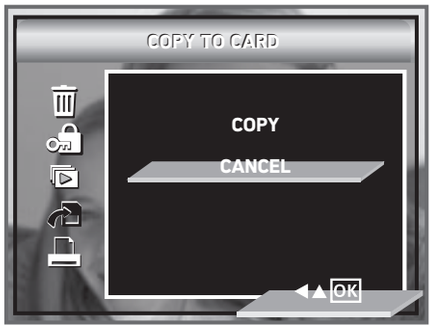
NOTE:

- SD cards formatted in another camera, computer or other devices may not work properly. It is recommended to format SD cards with your digital camera.
- Note that data deleted by formatting operation cannot be recovered. Make sure you do not have any useful data currently stored on a memory card before you format it.
- When SD card is inserted, only SD card can be formatted. The option for format internal memory will be disabled.

• Copying Pictures and Video Clips to Memory Card

This setting allows you to copy pictures, video clips stored in the internal memory to a memory card.

1. Insert an SD card into the camera.
2. Turn on the camera.
3. Set the camera to the Playback mode.
4. Press the M button.
5. Press or button to select "COPY TO CARD".
6. Press the button to enter the submenu.
7. Press or button to select COPY or CANCEL.



NOTE:
With a memory card inserted into the camera, the card memory has a higher priority over the internal memory. The selected picture or video clip can be only copied from internal memory to the memory card.

8 Installing the Software onto a Computer

• Installing the Software

For Windows® Users: PC

IMPORTANT!

- Please backup all the necessary data before any driver and software installation.
- The CD-ROM is tested and recommended to use under English Windows OS.
- Please restart the computer after installing the software.

IMPORTANT! (For Windows® 98SE)

Windows® 98SE needs to install your digital camera Driver for Mass Storage function. After the installation, please restart the Windows before connecting the camera to the PC.

IMPORTANT! (For Windows® Me, 2000, XP)

Directly plug-in the camera to transfer and play the pictures and video clips. No need to install the driver.

IMPORTANT!

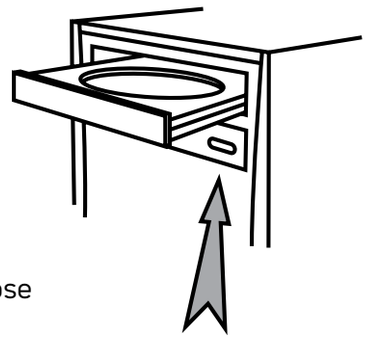
To experience higher performance in graphics and sound when you are watching video clips on your PC, it is recommended to install the DirectX ver. 9.0 or above. It can be downloaded from http://www.microsoft.com/directx.

1. Before you begin, close all other software applications open on your computer.

2. Insert the CD supplied into the computer CD-ROM Drive.

3. The CD User Interface Screen will automatically launch.

4. With the mouse, click on each software interface button in turn and follow the on-screen instructions.



Open & Close

NOTE:
If the setup screen does not appear after loading the CD, then you can manually start it by double clicking the "My Computer" icon on your desktop, then double clicking the icon for the CD-ROM drive. When the CD-ROM window opens, double click the "INSTALL-E.EXE" icon.

For Macintosh Users:

Mac

1. Before you begin, close all other software applications open on your computer.
2. Insert the CD supplied into the computer CD-ROM Drive.
3. Double click the CD-ROM icon "AGFAPHOTO".
4. Install the software included.

• Software Included with Your Camera

AFGAPHOTO Digital Camera Driver Plug & Play removable disk (For Windows® 98SE)

Easy to use, just plug the camera to a computer and use it as a removable disk. Use the ArcSoft® PhotoStudio® to edit and print the pictures. Only install for Windows® 98SE.

ArcSoft® PhotoStudio® Picture Editing Software

ArcSoft® PhotoStudio® is an easy-to-use and powerful image-editing software loaded with everything you need to fix, print, and get creative with your digital pictures. This program gives you quick access and all-at-once enhancement to the pictures on your computer, for example, removing red-eye and cloning objects to a different picture. In some quick actions, you could also add special effects or place them in cards, calendars, frames and fantasy templates. ArcSoft® PhotoStudio® also includes a wide variety of printing options.

ArcSoft PhotoPrinter® Picture Editing Software

A quick, easy way to get great-looking photo prints at home. In just a couple of clicks you can turn your favorite digital snapshots into gorgeous color photos ready for framing, scrapbooking, or sending to family and friends.

Adobe® Acrobat® Reader™ PDF File Reading Software

Adobe® Acrobat® Reader™ lets you view and print Adobe Portable Document format (PDF) files on all major computer platforms, as well as fill in and submit Adobe PDF forms online.

• Computer System Requirements

For acceptable picture transfer and editing performance, we recommend the following minimum requirements;

For Windows® Users: PC

- Pentium III 450 MHz or equivalent processor
- Compatible with Microsoft® Windows® 98SE, Me, 2000 or XP
- 128 MB RAM (256 MB recommended)
- USB Port
- DirectX 9.0 or higher
- 500MB free disk space
- Color monitor with high color (16-bit) graphic capability or higher
- CD-ROM drive
- Standard mouse and keyboard
- Stereo speakers

For Macintosh Users: Mac

- PowerPC® G3 or higher Processor
- Mac OS Version 9.2~X
- USB Port
- 128MB RAM (256 MB recommended)
- 500MB free disk space
- Color monitor with high color (16-bit) graphic capability or higher
- CD-ROM drive
- Standard mouse and keyboard
- Stereo speakers

• Uninstalling AGFAPHOTO Driver (PC Only)

For Windows® 98SE Users: PC

NOTE:
The following driver uninstall procedure is for Windows 98SE users only because only Windows 98SE needs to install the digital camera driver.

1. Open Add / Remove Program Properties in Control Panel and select “AGFAPHOTO" program, then click “Add / Remove” .
2. The following dialog box appears, click "OK" to confirm removing the camera driver.
3. The uninstallation program runs automatically, please restart your computer when it is finished.

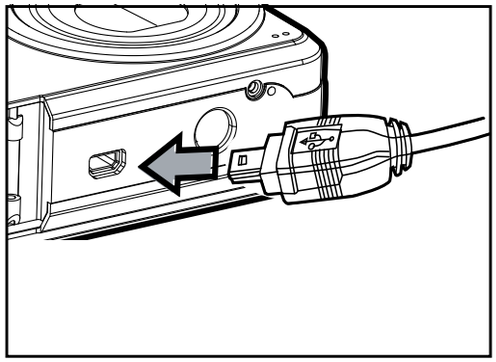
9 Transferring Pictures and Video Clips to a Computer

• Before you Transfer Pictures

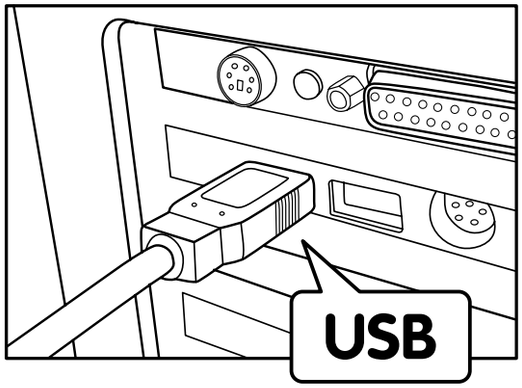
IMPORTANT! (For Windows® 98SE Only)
Before you transfer your pictures make sure you have installed the AFGAPHOTO Digital Camera Driver from the CD. Please refer to "Installing the Software onto a Computer" on page 69.

• Connecting the Camera to Your Computer via USB Cable

Connecting with the USB cable.



Plug mini USB cable into the port of your camera



USB Series "A" plug connects to your computer

1. Turn the camera off.
2. Plug the ⟷ labelled end of the USB cable into the ⟷ marked socket on your computer.
3. Plug the other end of the USB cable into the port on your camera.
4. Turn on the camera and an interface "Found New Hardware" will show on the computer desktop.
5. A removable disk drive will be installed onto your computer automatically.

• Transferring Pictures and Video Clips via USB Cable

For Windows® Users: PC

NOTE:

1. Connect the camera to a computer via the USB cable.
2. Double click on “My Computer” on your PC desktop and you will see a “Removable Disk” drive.
3. Double click on “Removable Disk” —> double click “DCIM” —> double click any directory folder under “DCIM”.
4. All the pictures and video clips are in the directory folder. Highlight the pictures and video clips, and drag them to a folder of your choice.

NOTE:
This drive name will vary from different version of Windows OS system.

For Macintosh Users: Mac

NOTE:
For Mac users, directly plug-in the camera, no need to install the driver.

1. Connect the camera to Mac via the USB cable, the systems will automatically recognize the MASS STORAGE drive. (System will automatically create a Mass Storage named “Unlabelled”)

NOTE:
This drive name will vary from different version of Mac OS system.

2. Double click the folder “Unlabelled” to enter sub-folder “DCIM”.
3. Double click the folder “DCIM” and then any sub folder inside.
4. You can copy the pictures and video clips from this directory folder.

10 Troubleshooting Problems

• Troubleshooting

The troubleshooting guide is designed to help you. If problems continue, please contact customer support. Details are provided under "Getting Help".

For Windows® Users: PC

Symptom	Problem	Solution
I receive an error message when I am installing "AFGAPHOTO Driver".	"AFGAPHOTO Driver" does not load.	Shut down all other applications and attempt to reinstall the driver.
		Check to see if the USB in your BIOS is activated. Please refer to plawa web site for how to activate the USB in the BIOS.
I cannot upload images to my computer.	Connection failure.	Check that all cable connections are secured.
	Camera Driver is not installed.	You need to install the camera driver for Windows 98SE systems.
I cannot run the "AFGAPHOTO Driver".	Conflict with another camera driver or capture device.	If you have another camera installed on your computer, remove it and its driver completely from your system to avoid conflicting with your digital camera.
My CD Installation Wizard does not work.	The auto installation file is switched off or the CD-ROM is disconnected.	Go to the computer desktop. Right click on "My Computer". Click "Properties". Select "Device Manager". Double click on "CD-ROM", double click on "CD-R (normally the manufacturer's name), Click on "Settings". Ensure both "Auto insert notification" and the "disconnect" are ticked. If you change the settings the computer will ask you to restart your PC. Click "Yes".

For Windows® and Macintosh Users:

PC

Symptom	Problem	Solution
I cannot activate my digital camera by pressing the ⏻ button.	Insufficient battery power or battery is missing.	Recharge your battery or insert your battery into the camera.
	Battery door is not closed.	Make sure the battery door is securely closed.
Camera suddenly powers off.	Auto Power Off function is activated. Or The battery is exhausted.	Turn the camera on. Or Recharge your battery.
Image is not recorded when the Shutter button is pressed.	Camera is turned off. Or Flash unit is charging. Or Memory is full.	Turn the camera on. Or Wait until flash unit charging finishes. Or Delete images you no longer need, or use another memory card.
Camera powers off during self-timer countdown.	The battery is exhausted.	Replace your batteries.
LCD screen image is out of focus.	Normal focus is being used for macro images.	Select a correct scene shooting mode for taking pictures.
AVI file cannot be played.	DirectX version is lower than 9.0	Install DirectX 9.0 or above. Visit http://www.microsoft.com/directx for more details.
The camera is detected by the Windows and works properly. But a drive letter of the Removable Disk is not created.	The removable disk crashes with the network drives.	Disconnect the crashed network drive and reserve this drive letter for the camera.
There is no response from the camera while pressing any buttons.	The LCD screen is frozen or the camera is hanged.	Remove and re-install the battery or batteries to reset the camera. Your valuable data stored in the camera will not be lost.

Symptom	Problem	Solution
Recorded pictures are not saved in memory.	Camera powers off before the save operation is completed. Or Removing the memory card before the save operation is completed.	If the battery is exhausted, recharge your battery. Or Do not remove the memory card before the save operation is completed.
The camera cannot take pictures.	The flash is recharging. Or The SD card is not formatted correctly. Or The camera is set to the ▶ mode. Or The SD card Memory is full.	Wait until the flash is fully charged. Or The SD card may be damaged. Please use a new card. Or Delete images you no longer need, or use another memory card.
Color of the playback pictures is different from the picture on the LCD screen during recording.	Sunlight or light from another source is shinning directly into the lens during recording.	Position the camera so that sunlight does not shine directly onto the lens.
Pictures are not displayed.	A memory card with non-DCF pictures recorded with another camera is loaded in the camera.	The camera cannot display non-DCF pictures in a memory card used by another digital camera.
I couldn't delete pictures.	All the pictures in the current memory are protected.	Unprotected the pictures and video clips you want to erase.

Please also refer to the help files & User Guides that accompany the enclosed applications.
For further information and support, please visit our website:
www.plawa.com

11 Getting Help

• Customer Care

More information to the complete product range can be found under: www.plawa.com

Service & Repair Hotline (Europe):
00800 75292100

Service & Support Hotline (Germany):
0900 1000 042 (1.49 Euro/ min. Deutsche Telekom)

Online Service:
support-apdc@plawa.com (English / German)

Manufactured by plawa-feinwerktechnik GmbH & Co. KG
plawa-feinwerktechnik GmbH & Co. KG
Bleichereistr. 18
73066 Uhingen
Germany

• ArcSoft Software Help

For United States
ArcSoft HQ Support Center
(Fremont, CA 94538)
Tel.: 1-510-979-5599
Fax: 1-510-440-7978
E-mail: support@arcsoftsupport.com
Web: http://www.arcsoft.com/en/support/

For Latin America
E-mail:latinsupport@arcsoftsupport.com

For Europe
ArcSoft Europe Support Center
(Ireland)
Tel.: +353-(0) 61-702087
Fax: +353-(0) 61-702001
E-mail: eurosupport@arcsoft.com

For China
ArcSoft China Support Center
(Hangzhou)
Tel.: +86-571-88210575
E-mail: support@arcsoft.com.cn
Web: http://www.arcsoft.com.cn/new/support

For Japan
ArcSoft Japan Support Center (Tokyo)
Tel.: +81-3-5795-1392
Fax: +81-3-5795-1397
E-mail: support@arcsoft.jp
Web: http://www.arcsoft.jp

For Taiwan
ArcSoft Taiwan Support Center (Taiwan)
Tel.: +886-(0) 2-2506-9355
Fax: +886-(0) 2-2506-8922
E-mail: support@arcsoft.com.tw
Web: www.arcsoft.com.tw

Visit http:// www.arcsoft.com for technical support and frequently asked questions (FAQ's).

12 Appendix

• Technical Specifications

Sensor	• Sensor - 1/2.0 inch - 6.0 Megapixel CCD
Lens	• Type: 5 groups, 5 elements • Focal Length: 6.48 mm (Wide) ~ 18.87 mm (Tele)
LCD Screen	2.0" TFT color panel
Built-in Flash	• Modes - Flash Off, Auto Flash, Red-eye Reduction, Forced On,Slow Sync • Flash Range: Normal 1m (3.3 ft) to 3 m (9.9 ft) Macro 0.1m (4 inches) to 1m (3.3 ft)
Exposure Control	-/+ 2 EV in 1/2 increments
ISO Speed	Auto, 100, 200, 400
Shutter Speed	Mechanical shutter 1/1000 sec. ~ 2 sec.
White Balance	Auto, Daylight, Cloudy, Tungsten, Fluorescent
Storage	Internal Memory 16 MB - Supports SD card (up to 1.0 GB)

File Format	• Still Image -EXIF 2.2 compatible format (JPEG compression) • Video clip: AVI format: 320 x 240 (30fps), 640 x 480 (30fps)
Power Supply	2 X AA batteries included
Self-timer	2 or 10 seconds
Tripod Socket	Yes
Connectivity	- With computer via USB cable
Dimension	• Size: 92 mm (3.6 inches)(W) x 60 mm (2.4 inches) (H) x 23 mm(0.9 inches (D) • Weight: Approximately 125g excluding batteries or card
Operating System	• For Windows® Users: Microsoft® Windows® 98SE, Me, 2000 or XP • For Macintosh Users: Mac OS 9.2~X

• Capacity of SD Card

Resolution	Quality	16 MB Internal Memory	32 MB SD	64 MB SD
2816 x 2112	Super Fine	4	17	34
	Fine	9	27	54
	Normal	16	45	91
2304 x 1728	Super Fine	9	27	54
	Fine	15	42	85
	Normal	26	69	140
2048 x 1536	Super Fine	12	35	71
	Fine	19	54	109
	Normal	33	87	176
1600 x 1200	Super Fine	21	57	115
	Fine	33	90	183
	Normal	54	141	286
640 x 480	Super Fine	118	307	624
	Fine	179	460	935
	Normal	238	613	1247

Resolution	Quality	128MB SD	256MB SD	512MB SD	1GB SD
2816 x 2112	Super Fine	68	141	285	565
	Fine	109	225	453	989
	Normal	182	375	756	1496
2304 x 1728	Super Fine	109	225	453	898
	Fine	170	350	705	1397
	Normal	279	576	1159	2295
2048 x 1536	Super Fine	141	292	588	1164
	Fine	218	450	907	1796
	Normal	352	726	1461	2894
1600 x 1200	Super Fine	231	475	957	1896
	Fine	364	751	1512	2993
	Normal	571	1177	2369	4690
640 x 480	Super Fine	1244	2563	5158	10212
	Fine	1865	3841	7729	15301
	Normal	2485	5118	10300	20391

Recordable Video Length

SD Card	Resolution	Video Clips Length
16 MB Internal Memory	640 x 480	0:00:07
32 MB SD	640 x 480	0:00:23
64 MB SD	640 x 480	0:00:46
128 MB SD	640 x 480	0:01:33
256MB SD	640 x 480	0:03:12
512MB SD	640 x 480	0:06:26
1GB SD	640 x 480	0:12:45
16 MB Internal Memory	320 x 240	0:00:21
32 MB SD	320 x 240	0:01:10
64 MB SD	320 x 240	0:02:22
128 MB SD	320 x 240	0:04:43
256MB SD	320 x 240	0:09:44
512MB SD	320 x 240	0:19:36
1GB SD	320 x 240	0:38:48

NOTE:

- Scene complexity affects a picture's file size. For example, a picture of trees in autumn has a larger file size than a picture of blue sky at the same resolution and quality setting. Therefore, the number of pictures and length of video clips you can store on a memory card may vary.
- The time format is XX:YY:ZZ
  - XX is hours
  - YY is minutes
  - ZZ is seconds

• Camera Default Settings

Camera Mode	Description	Default
	Image Resolution	2816 x 2112
	Compression	Super fine
	ISO Sensitivity	Auto
	White Balance	Auto
	Sharpness	Normal
	Light Metering	Average
	Scene Mode	Auto
	Resolution	640 x 480
	Exposure Compensation	0
	White Balance	Auto
Setup Mode	Date Format	MM/DD/YY
	Auto Off	3 minutes
	Beep Sound	On
	Frequency	50 Hz
	Date Stamp	Off
	USB Mode	MSDC

• Tips, Your Safety & Maintenance

Your Camera should only be operated within the following environmental conditions;

- 32 - 104º Fahrenheit; 0 - 40º Celsius
- 15% - 90% relative humidity, non condensing

Battery life or image quality may be affected outside these conditions.

⚠ Camera Cautions

- NEVER immerse any part of the Camera or its accessories into any fluid or liquid.
- ALWAYS disconnect the Camera from your PC before cleaning it.
- ALWAYS remove dust or stains with a soft cloth dampened with water or neutral detergent.
- NEVER place hot items on the surface of the Camera.
- NEVER attempt to open or disassemble Camera as this will affect any warranty claim.

• Regulatory Information

FCC Notice

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

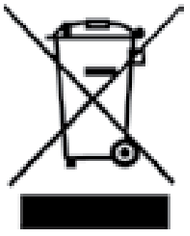
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is needed.
- Consult the dealer or an experienced radio / TV technician for help.

Shielded cable must be used with this unit to ensure compliance with the Class B FCC limits.

Under the environment with electrostatic discharge, the product may malfunction and require user to reset the product.

WEEE Notice
Disposal of Waste Equipment by Users in Private Households in the European Union



This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your

responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Declaration of Conformity

We herewith confirm the following designated product: DC-630x has been tested and found to comply with the requirements set up in the council directive on the approximation of the low of members states relating to the EMC Directive 89/336/EEC, amended by 92/31/EEC & 93/68/ EEC. For the evaluation regarding to the electromagnet compatibility, the following standards were applied.

• EN 55022 class B (1998)+A1 (2000) +A2 (2003) EN61000-3-2 (2000) EN61000-3-3 (1995) + A1 (2001)	• EN 55024 (1998)+A1 (2001) +A2 (2003) IEC 61000-4-2 (2001) IEC 61000-4-3 (2002) IEC 61000-4-4 (2004) IEC 61000-4-5 (2001) IEC 61000-4-6 (2003)+A1 (2004) IEC 61000-4-8 (2001) IEC 61000-4-11 (2004)

The device is marked with CE Logo

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