

Digital Camera

JD 4.0 LCD

JENDIGITAL

User's Guide

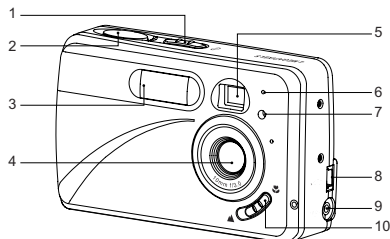


CONGRATULATIONS

Congratulations on the purchase of your new camera. Your camera has been carefully engineered and manufactured to give you dependable operation. Read this manual before operating the camera to become more familiar with it.

CAMERA OVERVIEW

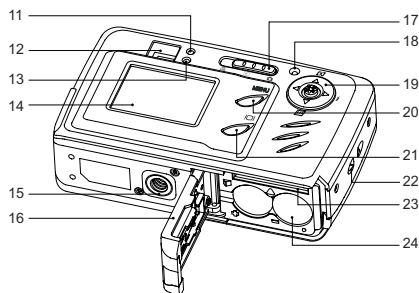
Top/Front



- | | |
|--------------------|-----------------------|
| 1. Power Switch | 7. Red-eye Reduction |
| 2. Shutter Button | LED/Self-Timer |
| 3. Flash | LED |
| 4. Lens/ Lens Door | 8. Mini-USB port |
| 5. Viewfinder | 9. TV-Out port |
| 6. Flash Sensor | 10. Macro Mode Switch |

Bottom/Back

- | | |
|---------------------------------|--|
| 11. Flash Ready LED | 19. Joystick/OK button/
Zoom button/Flash
button |
| 12. Viewfinder | 20. MENU Button |
| 13. Auto-Focus LED | 21. LCD On/Off Button |
| 14. LCD | 22. Wrist Strap Holder |
| 15. Tripod Socket | 23. Memory Card Slot |
| 16. Battery/Memory
Card Door | 24. Battery
Compartment |
| 17. Mode Switch | |
| 18. Reset Button | |



LCD ICONS



- | | |
|------------------|------------------|
| A. Resolution | G. Frame Counter |
| B. Camera Mode | H. Macro |
| C. Flash | I. Zoom Bar |
| D. White Balance | J. Self-Timer |
| E. Battery Level | K. Memory |
| F. Image Quality | L. Date / Time |



- : Single Shot
 : Continuous Shot
 : Review
 : Video Clips

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GETTING STARTED

Package Contents

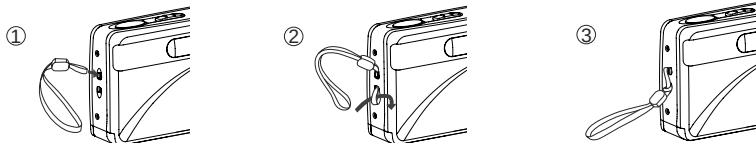
- JD 4.0 LCD
- Mini-USB Cable
- TV Out Cable
- User's Guide/Warranty Card
- Camera Case
- Wrist Strap
- 2x AA Alkaline Batteries
- CD-ROM (for Windows users only)
 - USB Mass Storage Driver
 - ArcSoft PhotoImpression 2000
 - Adobe Acrobat Reader 5
 - Microsoft DirectX 9
 - Multilingual User's Guide

Camera Features

- 4 Megapixels, 2272 x 1704 Resolution
- 1.5" Color LCD
- 6x Digital Zoom
- Video Clips
- 16MB Internal Memory
- Compatible with Secure Digital (SD) memory cards (not included)

Attaching the Wrist Strap

Please attach the wrist strap to prevent dropping the camera.



Loading the Batteries

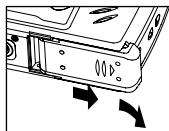


fig.1.1

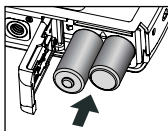


fig.1.2

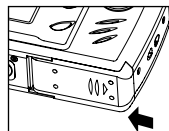


fig.1.3

The camera can use 2x AA alkaline, lithium or rechargeable batteries to operate.

1. Open the Battery/Memory Card door. (fig.1.1)
 - Slide the door in the direction of the arrow marked on it, and lift it open.
2. Insert the batteries according to the polarity indicators on the top edge of the battery compartment. (fig.1.2)
3. Shut the Battery/Memory Card door by sliding it in the opposite direction of the arrow marked on it, and close it securely. (fig.1.3)

TURNING THE CAMERA ON AND OFF

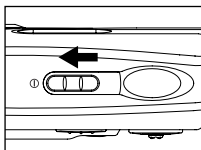


fig.1.1 Camera On

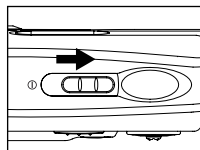


fig.1.2 Camera Off

The Power Switch is located on the top of the camera.

1. Slide the Power Switch toward the () icon to power the camera on. (fig.1.1)
 - The lens cover will open.
 - The LCD will turn on automatically.
2. To turn the camera off, slide the Power Switch away from (). (fig.1.2)

Note:

To extend battery life, the LCD will be off after 1 minute of inactivity, press () button to reactivate the LCD. The camera will automatically power off after 2 minutes of inactivity, press the Shutter Button to power the camera back on.

Checking the Battery Level

There are 5 battery levels that are displayed on the LCD



Batteries are full
and ready to use.



3/4 battery
capacity remains.



1/2 battery
capacity remains.



1/4 battery
capacity remains.
Batteries are low
need to be
replaced soon.



Batteries are
empty, blinking
red and need to
be replaced.

Note:

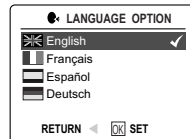
- The camera's battery level indicator may not accurately reflect the state of a rechargeable battery even the chargeable batteries have been fully recharged due to the inherent problem with rechargeable batteries.
- To extend battery life, the camera will automatically power off after 2 minutes of inactivity. To change this setting please refer to p.30.
- For better performance, please use NiMH rechargeable batteries.
- Remove the batteries from the camera if they will not be used for an extended period of time to prevent corrosion or battery leaks.

SETTING THE LANGUAGE, DATE AND TIME

When the camera is powered on for the first time, the Language, Date and Time menus will appear.

Setting the Language

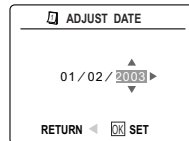
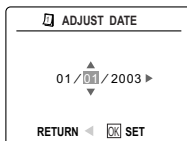
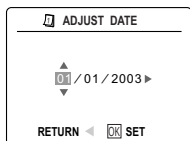
1. Turn the camera on.
 - The Language Setup screen will appear on the LCD.
2. Press the joystick $\uparrow \downarrow$ to highlight the language you would like to use.
3. Press the **OK** button to select by pressing the joystick in.
4. The next screen will read "Are You Sure?" press the joystick $\uparrow \downarrow$ to select **No** or **Yes**.
5. Press the **OK** button to confirm the selection by pressing the joystick in.
 - If you select **No**, you will return to the Language select screen.
 - If you select **Yes**, all menu screens will be displayed in the new language.



Each language will set the default setting for date format and TV option. To change these settings, please refer to the Customizing the Camera Settings section on page 30.

Language(s)	Date Format Setting	TV Option
English / Español	MM/DD/YYYY	NTSC
Français / Deutsch	DD/MM/YYYY	PAL

Setting the Date

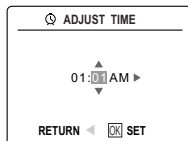
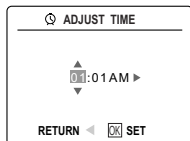


1. Press the joystick $\uparrow \downarrow$ to change the number in the blinking position until you reach the desired setting.
2. Press the joystick $\rightarrow$ to highlight the month, day or year.
 - The selection will blink when it is highlighted.
3. Repeat steps 1 and 2 until the date is set.
4. Press the **OK** button to set the date by pressing the joystick in.

Note:

- If the battery is removed or dead for more than 4 minutes, the date will return to its default setting.

Setting the Time



The time is displayed in hour, minute format.

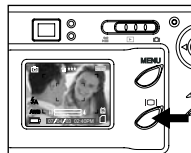
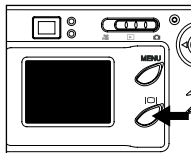
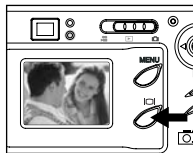
1. Press the joystick $\uparrow \downarrow$ to change the selection in the blinking position until you reach the desired setting.
2. Press the joystick $\rightarrow$ to highlight the hour (HH), minutes (MM) or AM/PM.
 - The selection will blink when it is highlighted.
3. Repeat steps 1 and 2 until the time is set.
4. Press the **OK** button to set the time by pressing the joystick in.

Note:

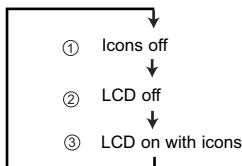
The time can be displayed in a 12-hour or 24-hour format. Please go to page 31 to change this setting. If the battery is removed or dead for more than 4 minutes, the time will return to its default setting.

TURNING THE LCD/ICONS ON AND OFF

The camera has a 1.5" LCD which can frame subjects for image and video clip capture, review stored images and video clips and to display the current camera settings.



1. Use the (**I/O**) button to toggle the LCD mode. The LCD mode changes each time the button is pressed as follows:



Note: In order to save battery power, you may turn off the LCD display or LCD will be automatically turned off after one minute of inactivity. In (**▶**) Review Mode, only the LCD icons can be turned on or off.

INTERNAL MEMORY/INSERTING THE MEMORY CARD (MEMORY CARD NOT INCLUDED)

Internal Memory

The camera is equipped with 16MB of internal memory, which can be used right away.

Status	Memory in Use
Memory card is not inserted	Internal Memory
Memory card is inserted	Memory Card

NOTE! When the memory card is inserted, the images and video clips stored in the internal memory will be transferred automatically onto the memory card. Please insert a memory card with 16MB or greater of available memory.

Inserting the Memory Card

In addition to having a 16MB internal memory, the camera can use Secure Digital (SD) memory cards to store images and video clips.

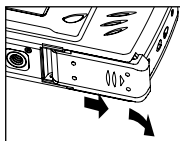


fig.1.1

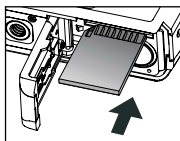


fig.1.2

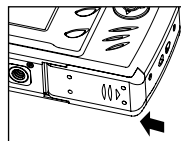


fig.1.3

1. Open the Battery/Memory Card door.
 - Slide the door in the direction of the arrow marked on it, and lift it open. (fig.1.1)
2. Insert the memory card as indicated by the diagram. (fig.1.2)
 - Please insert the card in straight, not on an angle.
3. Shut the Battery/Memory Card door by sliding it in the opposite direction of the arrow marked on it, and close it securely. (fig.1.3)

Note: The camera can support SD cards up to 512 MB.

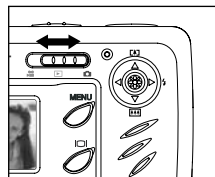


If the memory card or internal memory is corrupted, the LCD will show "error". Then the memory has to be formatted over a pc or with a card reader to continue. Please be aware before you start the formatting that the file system you have chosen is FAT and the check mark at the point "quickformat" is removed.

SETTING THE CAMERA'S OPERATIONAL MODE

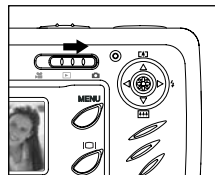
The camera has 3 operational modes Camera Mode, Review Mode and Video Clip Mode.

1. To change the camera operational mode, slide the mode switch horizontally to the corresponding position.



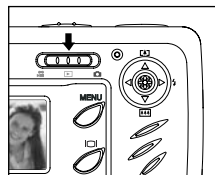
Camera Mode

Use the camera mode setting to take pictures or to customize your camera settings for picture taking.



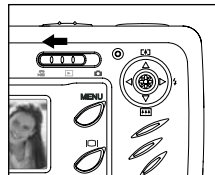
Review Mode

Use the review mode setting to browse through images and video clips or to delete images from the internal memory or memory card.



Video Clip Mode

Use video clip mode to capture video clips.



Note: No sound will be recorded.

SINGLE SHOT

Taking a Picture with the Viewfinder at Distant Mode

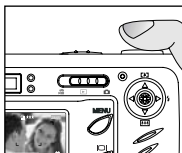


fig.1.1

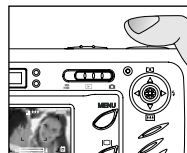


fig.1.2

Taking a picture with the viewfinder:

1. Turn the camera on.
2. Set the camera to () Camera Mode and make sure the Macro Mode Switch is set to the () Distant Mode.
 - The LCD can be switched off to conserve battery power by pressing the () button.
3. Frame the subject in the viewfinder.
4. Press the **shutter** button half-way to activate the auto-focus until the green AF LED lights up. (For information on Focus Lock, please go to page 12) (fig.1.1)
 - The camera will focus the lens at different distances to find the correct focus range, and you will hear a rapid click sound from the camera.
5. Press the **shutter** button fully to capture the image. (fig.1.2)
 - The camera will make a click sound.
 - When the image has been captured, the Flash Ready LED next to the viewfinder will blink to indicate that the image is being stored.

Note: It is recommended that pictures in Distant Mode be taken at at least 1 meter(3 ft) away from the subject.

FLASH READY LED



fig.1.3

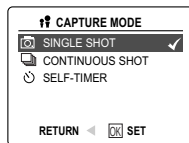
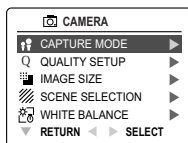


fig.1.4

Flash Ready LED Status	Description
Steady (fig.1.3)	The camera is capturing a picture or video clip. Hold the camera steady to prevent blurry pictures.
Blinking (fig.1.4)	The flash is recharging. You may move the camera in this mode.

Note: Do not power the camera off or switch modes while the camera is capturing or storing a picture or video clip to prevent corrupting the picture or video clip being stored.

TAKING A PICTURE WITH THE LCD AT DISTANT MODE

**Taking a picture with the LCD:**

1. Set the camera to () camera mode and make sure the Macro Switch is set to the () Distant Mode.
2. Frame the subject in the LCD.
3. Press the shutter button half-way to activate the auto-focus lock until the green AF LED lights up. (fig.1.1)
 - The camera will focus the lens at different distances to find the correct focus range, and you will hear a rapid click sound from the camera.
4. Press the shutter button fully to capture the image. (fig.1.2)
 - The camera will make a click sound.
 - When the image has been captured, the Flash Ready LED next to the viewfinder will blink to indicate that the image is being stored.
 - A preview of the image will be displayed on the LCD for 1 second and the picture counter number displayed in the LCD will be updated.

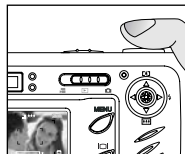


fig.1.1

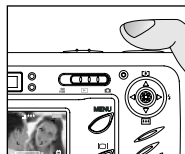


fig.1.2

AUTO-FOCUS LOCK

This feature can be used to freeze the focus when the subject is not located in the center of the picture at () Distant Mode.

To use the focus lock:

1. Position the subject in the center of the red frame located in the LCD. (fig.1.3)
2. Press the shutter button halfway until the green Auto Focus LED lights up. (fig.1.4)



fig.1.3

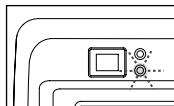


fig.1.5

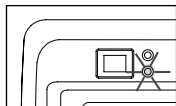


fig.1.6

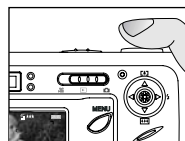


fig.1.4

Auto Focus LED Status	Description
Blinking (fig.1.5)	The camera cannot find the best focus for the scene.
Steady (fig.1.6)	The subject is in focus.



fig.1.7

3. Recompose your picture. (fig.1.7)
 - Keep the shutter pressed half-way while recomposing the picture.
4. Press the **shutter** button fully to capture the picture. (fig.1.8)

Note: The AF LED will continue blinking in the following conditions:

1. There are several subjects at different distances within the focus lock area.
Recompose the picture by moving the camera slightly.
2. There is no color contrast. Recompose the picture with a subject that contains more color.
3. There is insufficient lighting. Increase the lighting in the surrounding area.

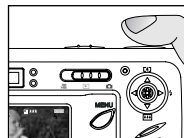
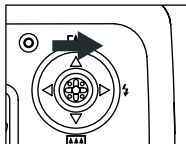


fig.1.8

SETTING THE FLASH



How to set the flash:

1. Press the joystick → toward () repeatedly until the desired indicator appears on the LCD.

Flash Mode	Description
 Auto Flash	The camera judges if a flash is required. If the environment is too dark, the flash will fire.
 Auto+Red-Eye Reduction	Use this mode to significantly reduce the occurrence of "red-eye" in flash photography. The camera will automatically detect when the flash is needed and the flash will fire after a short delay.
 Fill-in Flash	Flash will fire in any lighting condition.
 Flash off	The flash will not fire in this mode. Please use this mode if you want to capture the mood of the ambient lighting or to use the available light in places where flash photography is prohibited, such as museums. • To prevent blurry pictures in low light situations, hold the camera steady when pressing the Shutter button or mount the camera on a tripod.
 Night Mode	A slow shutter speed is used in this mode to capture the lights in night scenes. • To prevent blurry pictures in low light situations, hold the camera steady when pressing the Shutter button or mount the camera on a tripod.

Note: The flash needs to recharge after it is fired. If the Shutter button is pressed while the flash is charging, the Flash Ready LED will blink. Please wait a few moments and press the Shutter button again to take a picture.

USING DIGITAL ZOOM

Press the joystick $\uparrow \downarrow$ to use Digital Zoom.

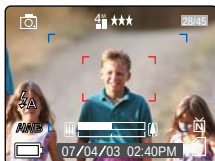
1x – 4x Zoom

The image increases in size on the LCD.

Original Size



4x Zoom LCD Display



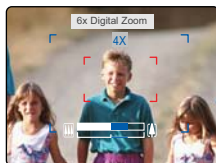
Actual Image Recorded



6x Zoom

The image contained within the blue frame is the image recorded.

LCD Display



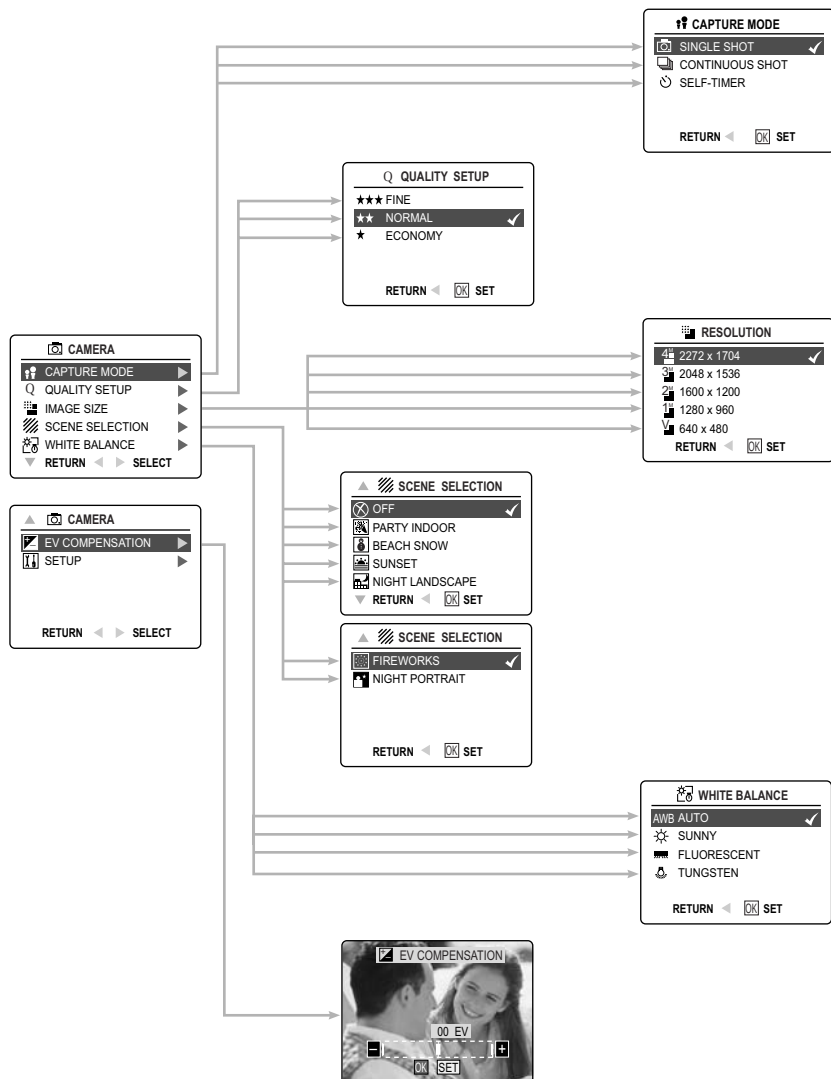
Actual Image Recorded



Important:

1. Hold your camera steady while using Digital Zoom to prevent blurriness in the photograph due to camera movement. It is recommended to either place your camera on a steady surface or use a tripod.
2. For best results, stand at least 3.3 ft (1m) away from the subject in ($\blacktriangle$) Infinity mode and 8 inches (20cm) in ($\odot$) Macro mode.
3. The image quality may degrade slightly with Digital Zoom.
4. Digital Zoom can only be monitored with the LCD and not through the optical viewfinder.

USING THE MAIN MENU IN CAMERA MODE



USING THE MAIN MENU IN CAMERA MODE

Follow the steps below to set the advanced shooting options in the camera through the Main Menu.

Using the () Main Menu:

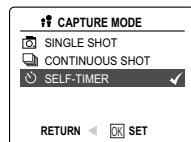
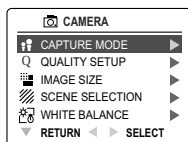
1. Turn the camera on.
2. Set the mode switch to ().
3. Press the **MENU** button to display the main menu.
4. Press the joystick   until the desired option is highlighted.
5. Press the joystick  to enter the submenu.
6. Press the joystick   in the submenu to toggle between the options.
7. Press the **OK** button to make a selection.
 - All selections will be marked by a red check mark.
8. To return to the previous menu, press the joystick .
9. To exit the menu at any time, press the **MENU** button.

CAPTURE MODE OPTIONS

The capture mode menu has 3 features to choose from for taking pictures.

Capture Mode Option	Description
() Single Shot	The camera will take 1 picture at a time.
() Continuous Shooting	The camera will take 7 pictures (at 1600 x 1200 pixels) in a row when the shutter button is fully pressed. The flash is disabled.
() Self-Timer	The camera will take a picture 10 seconds after the shutter button is released.

SELF-TIMER



How to use Self-Timer:

1. In () Camera Mode, press **MENU** to display the main menu.
2. Press the joystick to enter capture mode.
3. Press the joystick to highlight () Self-Timer.
4. Press the **OK** button to set the () Self-Timer.
5. Place the camera on a flat surface or tripod.
6. Use the LCD to compose the picture, and then press the **Shutter** button to activate the Self-Timer.
The Self-timer LED will blink slowly for 7 seconds, faster for the remaining 3 seconds and then the image will be captured.

Note:

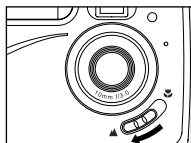
- The Self-Timer is automatically deactivated once the image is taken.
- To deactivate the Self-Timer before taking a picture, follow the steps above and highlight another option in the Capture Mode menu.

Photography Hints -

Since the Self-Timer LED indicator on the front of the camera flashes, you have time to join in the photograph and know when the camera is done taking a picture when the Self-Timer LED light stops blinking.

MACRO MODE - CLOSE-UP SHOOTING

This mode enables the camera to capture pictures in close distances.



Setting Macro Mode:

1. The Macro Mode Switch is located in the front of the camera. Slide the Macro Mode Switch to () to set the Macro mode.
 - The Macro icon () will be displayed on the LCD.

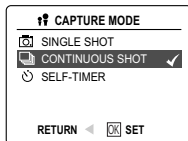
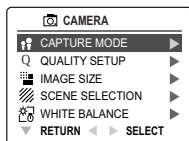
Taking a picture in Macro Mode:

1. Frame the subject in the LCD.
 - The best shooting distance is at 20 cm.
 - Auto-focus is not available in Macro Mode. You can monitor the focus range through the LCD.
2. Press the **Shutter** button fully to take the picture.

Note: Pictures in Macro Mode taken beyond the recommended distance of 20cm will be blurry.

CONTINUOUS SHOOTING

This feature enables the camera to capture a continuous series of pictures while the shutter button is pressed down.



Using Continuous shooting:

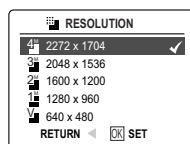
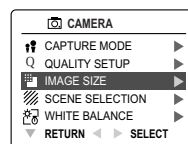
1. In the () Main Menu, press the joystick → to enter the Capture Mode submenu.
2. Press the joystick ↓ until Continuous Shot is highlighted, then press the **OK** button to enter the mode.
3. Frame the subject in the LCD screen and press the **shutter** button half-way to activate the focus until the green AF LED lights up.
4. Press the **shutter** button fully to capture the pictures.
 - The camera will capture images at approximately 3 images per second for a maximum of 7 images in the 1600x1200 resolution setting.

Note:

- In continuous shooting mode the flash is disabled as the recharging time will slow it down.
- The camera will only capture the pictures in the 1600 x 1200 resolution setting in this mode.

IMAGE RESOLUTION

Image Resolution determines the size of a captured image. Higher resolution images contain more details and have larger file sizes.



Images Stored on 16MB memory (approx.):

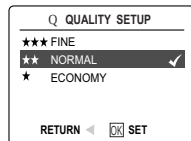
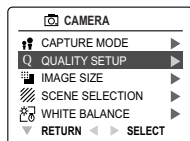
Resolution Quality	4MP (2272 x 1704)	3.1MP (2048 x 1536)	2MP (1600 x 1200)	1.2MP (1280 x 960)	VGA (640 x 480)
Fine	20	23	34	50	138
Normal	51	63	89	127	308
Economy	75	88	128	177	430

How to change the resolution:

1. When Resolution is highlighted in the () Main Menu, press the joystick → to enter the () Resolution submenu.
2. Press the joystick ↑ or ↓ until the desired setting is highlighted.
3. Press the **OK** button to select the mode
4. Press the **MENU** button to return to picture taking mode.

IMAGE QUALITY

The Image Quality setting determines the amount of compression used to reduce the size of the stored image file in order to economize the space in memory card.



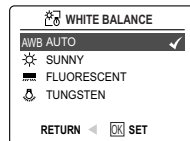
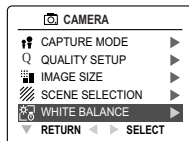
Quality	JPEG Compression Ratio	Description
Fine	5:1	Fine image quality can be used for making prints.
Normal	11:1	Normal image quality can be used for general purpose pictures.
Economy	17:1	Economy image quality can be used for pictures that will be sent via e-mail.

How to change the quality:

1. When (**Q**) Quality is highlighted, press the joystick → to enter the (**Q**) Quality Setup submenu.
2. Press the joystick ↑ or ↓ until the desired setting is highlighted.
3. Press the **OK** button to select the Quality mode.
4. Press the **MENU** button to return to picture taking mode.

WHITE BALANCE

By default the camera uses Auto White Balance to best reproduce colors under different lighting conditions. For mixed lighting conditions you can use the Auto White Balance.



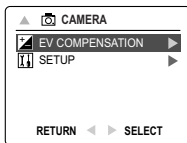
White Balance Mode	Description
[A] Auto	The camera will automatically choose the white balance setting. Use this setting in variable conditions.
Sunny	Use outdoors with sufficient sunlight.
Fluorescent	Use indoors with fluorescent or ambient light conditions.
Tungsten	Use indoors with tungsten light conditions.

How to change the White Balance:

1. When White Balance is highlighted, press the joystick → to enter its submenu.
2. Press the joystick ↑ or ↓ until the desired setting is highlighted.
3. Press the **OK** button to select the White Balance mode.
4. Press the **MENU** button to return to picture taking mode.

EXPOSURE COMPENSATION

The camera uses Auto Exposure to give you well exposed pictures under most conditions. If the main subject turned out too light or too dark, you can use the Exposure Compensation feature to improve the result.



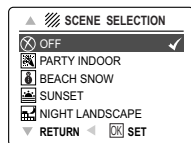
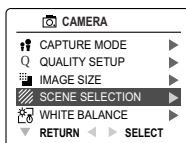
Exposure Compensation Mode	Description
+	Increasing the Exposure in pictures that are too dark, will make the picture lighter.
-	Decreasing the Exposure in pictures that are too light will make the picture darker.

How to use Exposure Compensation:

1. Press the joystick $\downarrow$ in the Main Menu until () Exposure Compensation is highlighted.
2. Press the joystick $\rightarrow$ to display the Exposure Compensation bar on the LCD.
3. Press the joystick $\leftarrow \rightarrow$ to change the Exposure Compensation between - 1.8 to +1.8.
4. Press the **OK** button to select the desired value
 - The camera will return to picture taking mode automatically after selecting.

SCENE SELECTION

The default options in the camera can be used in most settings. The scene modes are helpful to quickly optimize the various settings to best capture specific scenes.



Preset Scene	Description
Off	No Scene Selection (default).
Party/Indoor	Use this mode in to capture the details of candlelit scenes or other indoor background light conditions.
Beach/Snow	Use this mode to capture the details in high glare scenes such as snow or shining water.
Night Landscape	A slow shutter speed is used to capture the lights in night scenes. Photography Tip: With the slow shutter speed there is a possibility of getting blurry images due to camera movement. To reduce blurring, you may do the following: 1. Set your camera to Night Landscape mode. 2. Place your camera on a tripod or sturdy surface area. 3. Set the camera to Self-Timer mode, and press the shutter button.
Sunset	This mode captures the deep hues and color variations in sunsets and sunrises.
Fireworks	Use this mode to capture the burst of light from fireworks with a slower shutter speed.
Night Portrait	Use this mode to capture a subject illuminated with the lights in a night scene with a slow shutter speed. - Due to the slow shutter speed, place the camera on a tripod for better picture quality.

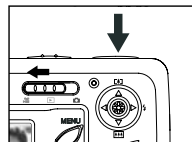
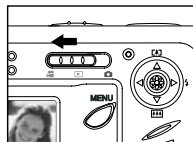
How to set the scene selection:

1. When Scenes menu is highlighted, press the joystick → to enter its submenu.
2. In the Scene menu, press joystick ↑ ↓ to choose between the options.
3. Press the **OK** button to select the Scene mode.
4. Press the **MENU** button to return to picture taking mode.

Note: Any change of the flash setting will cancel the scene selected in Scene Selection.

TAKING VIDEO CLIPS

The camera can capture video clips without sound.



To record a video clip:

1. Slide the Mode Switch to () Video Clip Mode.
2. Position the subject in the LCD.
3. Press the Shutter Button fully to capture a continuous video clip.
4. To stop recording, press the **shutter** button again.

Note: There is a time limit for each video clip. The time will vary depending on the amount of available memory space. The allotted amount of recording time will appear on the top right hand corner of the screen. The video clip capture will stop automatically when it reaches its time limit.

Video Clip Information

Resolution: QVGA (320 x 240)

Frame rate: 30fps

File Format: AVI (Motion Picture)

Note: The Flash Ready LED will turn red when the camera is storing the video clip. Do not open the battery door or turn the camera off while recording, or the video clip may not be stored.

Note:

- Higher capacity memory cards can take longer video clips.
- The Flash, Menu and LCD on/off buttons are deactivated in this mode.
- The focus and the digital zoom cannot change during recording.

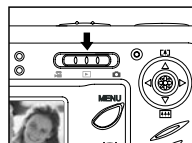
REVIEWING YOUR FILES

Using Review Mode

In () review mode, you can review your stored pictures and video clips through the LCD.

Using REVIEW mode:

1. Slide the Mode Switch towards () .
2. Press the joystick  or  to scroll through each file.
 - The file type can be found in the upper left hand corner of the LCD.



File Indication	File Type
JPEG	Still Picture
AVI	Video Clip

0001/0003

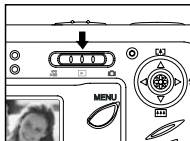
Number of the total pictures/video clips

Number of the current pictures/video clips

REVIEWING VIDEO CLIPS

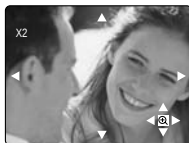
How to review a video clip:

- In () Review Mode, press the joystick  and  to scroll through the stored pictures and video clips.
 - Only the first image of the video clip is shown.
- When a video clip icon () is displayed on the LCD, press the **OK** button to play.

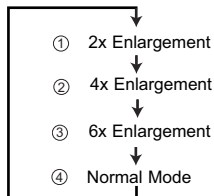


ENLARGING STORED PICTURES

In () Review Mode, you can enlarge a section of your stored picture to take a closer look at the subject on the LCD. This feature is for viewing purposes only and it will not enhance the stored picture.

**How to enlarge:**

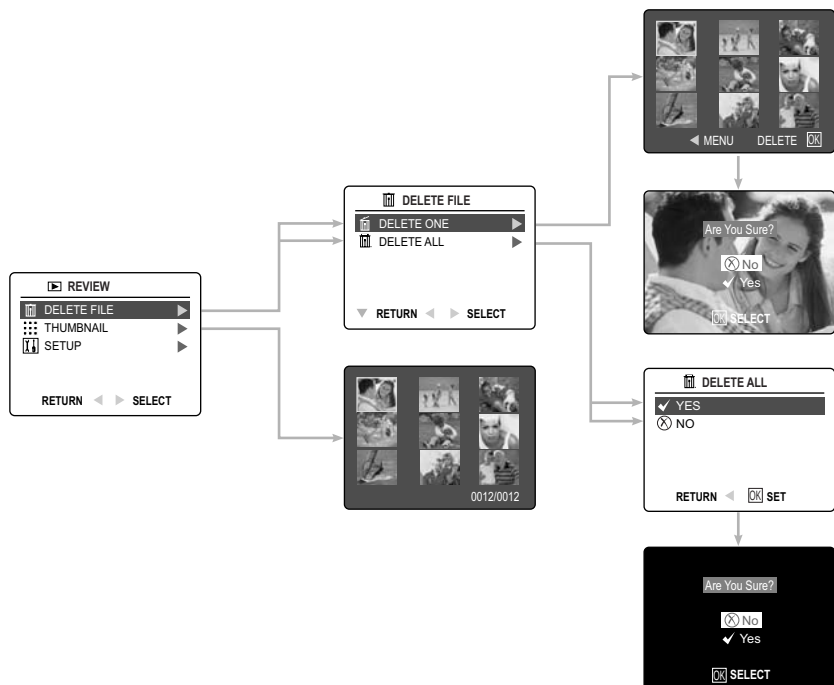
- In () Review Mode, press the joystick  or  to scroll through the stored pictures and video clips.
- While viewing a stored still image, press the **OK** button to use the "Enlargement" feature. Press the **OK** button again to get different magnifications in the following order.



- In 2x, 4x and 6x mode you may press the joystick , , ,  to navigate in the picture.

Resolution	Maximum Enlargement
2272 x 1704	6x
2048 x 1536	6x
1600 x 1200	4x
1280 x 960	4x
640 x 480	2x

USING THE DELETE MENU

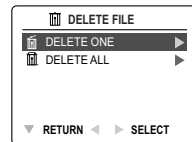
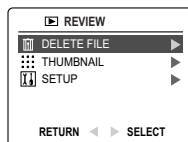
**Using the Delete Menu in Review mode:**

1. Turn the camera on.
2. Set the Mode Switch to ().
3. Press the **MENU** button to display the main menu.
4. Press the joystick to enter the Delete submenu.
5. To exit the menu, press the joystick .
6. Press the **MENU** button to return to the () Main Menu.

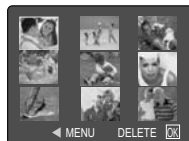
DELETING YOUR FILES

Delete One

 Once a file is deleted, it cannot be recovered.

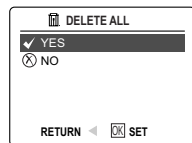
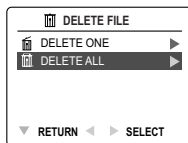


1. When Delete File is highlighted, press the joystick → to enter the Delete File submenu.
2. In the Delete File menu, press the joystick → when Delete One is highlighted.
3. The next screen will display the stored pictures and video clips as thumbnails. Press the joystick ↑, ↓, ←, → to highlight the file you want to delete.
4. Press the OK button to select.
5. The next screen will read "Are You Sure?" press the joystick ↑ or ↓ to highlight No or Yes.
6. Press the OK button to select.
 - If No is selected, no change will be made, and you will return to the Delete One thumbnail view.
 - If Yes is selected, the selected file will be deleted.
 - Press the Menu button to exit Delete Mode.



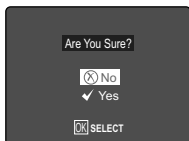
Delete All

 Once all files are deleted, they cannot be recovered.

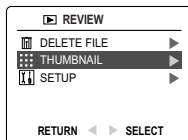


How to delete all files:

1. Press the joystick → when Delete File is highlighted to enter the Delete File submenu.
2. In the Delete File menu, press the joystick → when Delete All is highlighted.
3. The next screen will read "DELETE ALL?" press the joystick ↑ or ↓ to highlight No or Yes.
4. Press the OK button to select.
 - If No is selected, no change will be made, and you will return to the Delete File Menu.
 - If Yes is selected, the next screen will read, "Are you sure?"
5. Press the joystick ↑ ↓ to select No or Yes. Press OK to select.
 - If No is selected, no change will be made, and you will return to the Delete File Menu.
 - If Yes is selected, **ALL FILES** will be deleted.

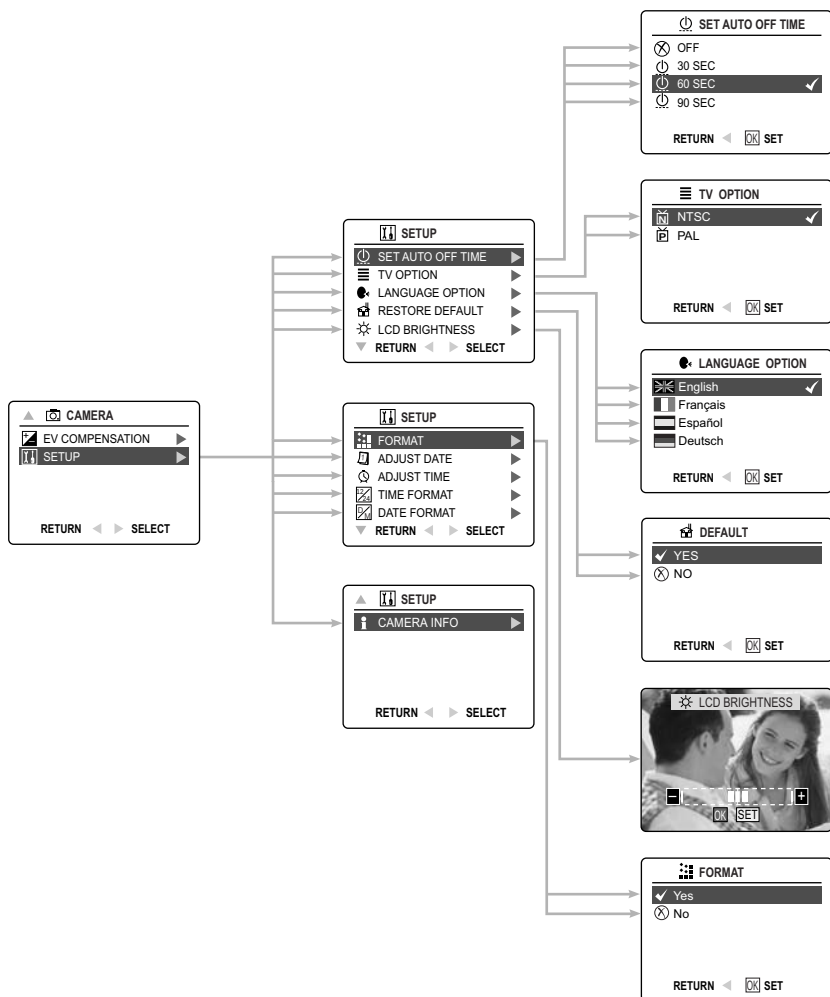


USING THUMBNAIL MODE

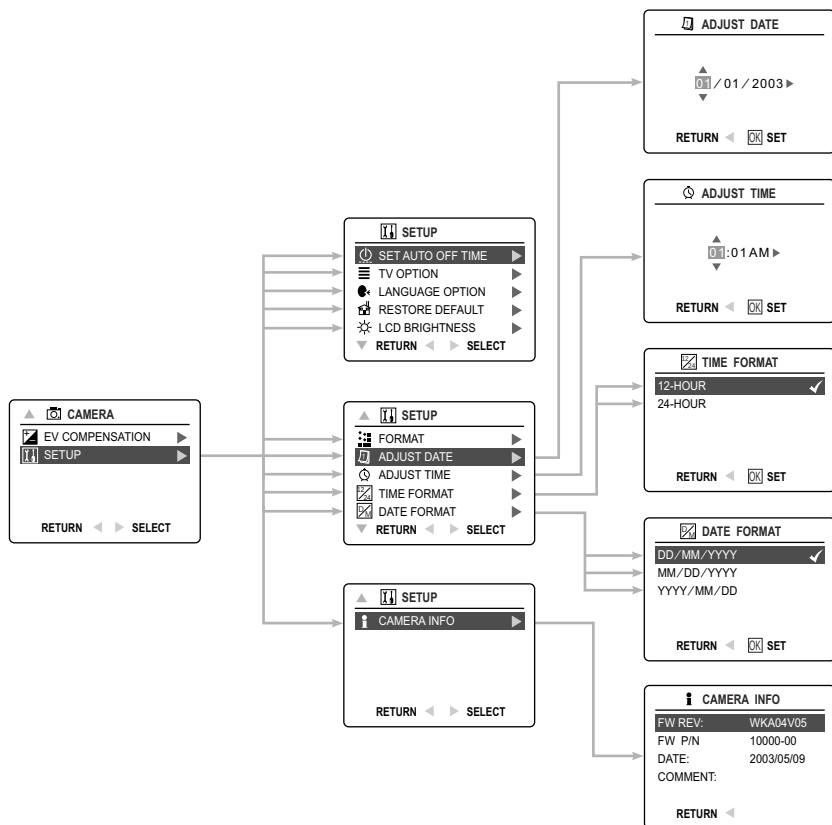
**How to view your files:**

1. When the thumbnail menu is highlighted in the () Review Mode, press the joystick  button to have nine thumbnail images or video clips appear at once on the LCD display.
2. Press the joystick   to highlight a picture or video clip.
 - When the joystick is pressed up in the top row of thumbnails, the previous 9 files will be displayed
 - When the joystick is pressed down in the bottom row of thumbnails, the next 9 files will be displayed.
3. Press the **OK** button to view the enlarged picture or video clip.

CUSTOMIZING THE CAMERA SETTINGS



CUSTOMIZING THE CAMERA SETTINGS



Using the Setup menu:

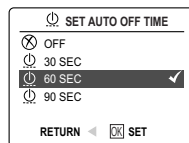
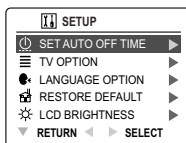
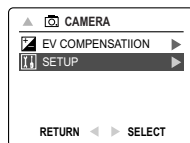
1. Turn the camera on.
2. Set the mode switch to () or ().
3. Press the **MENU** button to display the main menu.
4. Press the joystick  until Setup is highlighted.
5. Press the joystick  to enter the Setup submenu.
6. In the Setup menu, press the joystick   to highlight the option you wish to customize.
7. Press the joystick  to enter the submenu of the highlighted option.
8. Use the joystick to adjust the setting and press the **OK** button to select.
9. Press the joystick  to return to the previous menu **OR** press the **MENU** button to exit.

Setup Menu and Features

Setup Setting	Options	Description
 Set Auto Off Time	2 min, 3 min	This feature enables the camera to automatically turn off when it is idle.
 TV Option	NTSC, PAL	Sets the mode the camera needs to adapt to your TV. (Page 47)
 Language Option	English Français Español Deutsch Italiano Nederlands	Sets the language in your camera. (Page.30)
 Restore Default	Yes/No	Sets all camera settings to the factory default. (Page 33)
 LCD Brightness		Sets the LCD brightness level. (Page 31)
 Format	Yes/No	Formats the internal memory or the memory card by deleting all files. (Page 32)
 Camera Info	FW Version FW Part No. Date Comment	Displays the camera version information. This is for information purposes only.
 Adjust Date	Month, Day, Year	Changes the date in your camera.
 Adjust Time	Hour, Minute, AM or PM	Changes the time in your camera.
 Time Format	12-hour 24-hour	Changes the time format to a 12-hour or 24-hour format. The time display is fixed to 24-hour format in () Review Mode.
 Date Format	DD/MM/YYYY, MM/DD/YYYY, YYYY/MM/DD	Changes the date display. The date display is fixed to YYYY/MM/DD format in () Review Mode.

CUSTOMIZING THE CAMERA SETTINGS

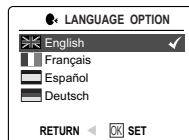
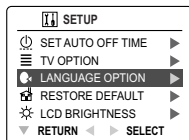
SETTING THE AUTO OFF TIME



Notes:

- The default setting is 1 minute for LCD off (cannot be changed) and 2 minutes for camera off to conserve battery power.
- Turn the camera back on by pressing the shutter button.

SETTING THE LANGUAGE

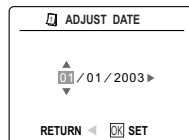


To set the Language:

1. In the Setup menu, press the joystick ↓ until Language is highlighted.
2. Press the joystick → to enter the Language submenu.
3. Press the joystick ↑ ↓ to highlight the desired language.
4. Press the OK button to set.

SETTING THE DATE

1. In the Setup menu, press the joystick ↓ until Adjust Date is highlighted.
2. Press the joystick → to enter the options.
3. Press the joystick → to highlight the month (MM), date (DD) or year (YYYY).
 - The selection will blink when it is highlighted.
4. Press the joystick ↑ ↓ to change the data in the blinking position until you reach the desired setting then press OK.

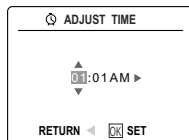


Note:

- The date can be displayed in MM/DD/YYYY; DD/MM/YYYY or YYYY/MM/DD in ([REVIEW]) Review Mode, the date display is fixed to YYYY/MM/DD. Please go to page 28 to change this setting.
- If the battery is removed for more than 4 minutes, the date will return to its default setting.
- Set Date/Time! will appear on the LCD when the camera is turned on. Press the Shutter button slightly to turn the reminder off.

SETTING THE TIME

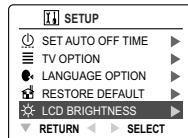
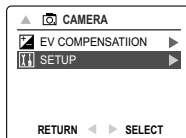
1. In the Setup menu, press the joystick $\downarrow$ until Adjust Time is highlighted.
2. Press the joystick $\rightarrow$ to enter the options.
3. Press the joystick $\rightarrow$ to highlight the hour (HH), minutes (MM) or AM/PM.
 - The selection will blink when it is highlighted.
4. Press the joystick $\uparrow \downarrow$ to change the data in the blinking position until you reach the desired setting then press **OK**.



Note:

- The time can be displayed in a 12-hour or 24-hour format. In ($\blacktriangleright$) Review Mode, the time display is fixed to 24-hour format. Please go to page 28 to change this setting.
- If the battery is removed for more than 4 minutes, the time will return to its default setting.
- Set Date/Time! will appear on the LCD when the camera is turned on. Press the **Shutter** button slightly to turn the reminder off.

SETTING THE LCD BRIGHTNESS



How to set the LCD Brightness:

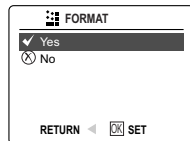
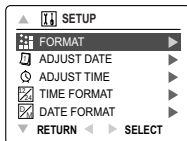
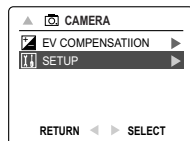
1. In the Setup menu, press the joystick $\downarrow$ until LCD Brightness is highlighted.
2. Press the joystick $\rightarrow$ to display the LCD Brightness bar on the LCD.
3. Press the joystick $\rightarrow / \leftarrow$ to adjust the brightness.
4. Press the **OK** button to select.
 - The camera will return to picture taking mode or review mode.

FORMATTING THE INTERNAL MEMORY OR THE MEMORY CARD

CAUTION:



1. Formatting deletes all pictures and video clips from the memory.
2. Removing the card during formatting may damage the card.
3. Selecting the formatting feature while there is no memory card in the camera, will cause the internal memory to format. All pictures and video clips on the internal memory will be lost.



1. In the Setup menu, press the joystick $\downarrow$ until Format is highlighted.
2. Press the joystick $\rightarrow$ to enter the Format submenu.
3. Press the joystick $\uparrow \downarrow$ to highlight No or Yes.
4. Press the **OK** button to select.
If No is selected, no change will be made, and you will return to the Main Menu.
If Yes is selected, **ALL FILES** will be deleted.

Note: If MEMORY ERROR! is displayed on the LCD screen, this indicates that the internal memory or the memory card is corrupted. Please format the memory to continue.

RESTORE THE CAMERA TO FACTORY DEFAULT SETTINGS

To restore the default settings in your camera:

1. Press the joystick → when Restore Default is highlighted in the camera.
2. Press the joystick ↑ ↓ to select No or Yes.
 - When No is selected, no change is made.
 - When Yes is selected, the Default settings will be restored. Please refer to the table below for the default settings.

OPTION	DEFAULT STATUS
 Flash	Auto Flash
 Quality	Normal
 Resolution	2272 x 1704
 Scene Selection	OFF
 White Balance	Auto
 Exposure Compensation	0
 Auto Off	2 min
 LCD Brightness	Center
 Time Format	12 HOURS 24 HOURS

Note: After the camera is set to default, the Language, Date and Time menus will appear when the camera is turned on.

SOFTWARE INSTALLATION GUIDE

The software that comes with the JD 4.0 LCD includes driver, reader, and photo editor programs. These programs transfer the pictures or video clips from your camera to your computer, and enable you to view them on your computer screen. The following are the computer system requirements for these programs to be installed.

Computer System Requirements

Windows

- 133MHz Pentium MMX processor or equivalent (300MHz Pentium II or better recommended)
- Microsoft Windows 98/98SE, Windows Me, Windows 2000 Professional, Windows XP Home / Professional / Media Center
- 275MB free hard disk space (extra 30MB for Adobe Acrobat Reader 5 and 65MB for Microsoft DirectX 9.0 if required)
- 64MB of RAM (128MB or more recommended)
- Minimum 800 x 600 display with 16-bit color (1024 x 768 with 24-bit color or better recommended)
- USB Port
- CD-ROM Drive

Macintosh

- Mac OS 9.0, 9.1, 9.2 & X 10.1 or higher Compatible
- Power PC-based
- 32MB of RAM
- 640 x 480 display with Thousands of colors (Millions of colors recommended)
- Built-In USB Port

Installation Requirements

The installer will automatically detect which software applications need to be installed or if they are not necessary. Please read the installation requirements before proceeding with the installation process.

System	Windows 98/98SE	Windows Me	Windows 2000	Windows XP	Macintosh
Install Camera Driver	X				
Install DirectX 9	X		X		
Install ArcSoft PhotolImpression	X	X	X	X	
Install Adobe Acrobat Reader 5					
Camera automatically detected by the computer (no driver installation required)		X	X	X	X

USING THE INSTALLER SPLASH SCREEN

The installer will automatically detect which software applications need to be installed or if they are not necessary. This will be indicated by the buttons on the splash screen that appears when the CD-ROM is inserted into the computer:

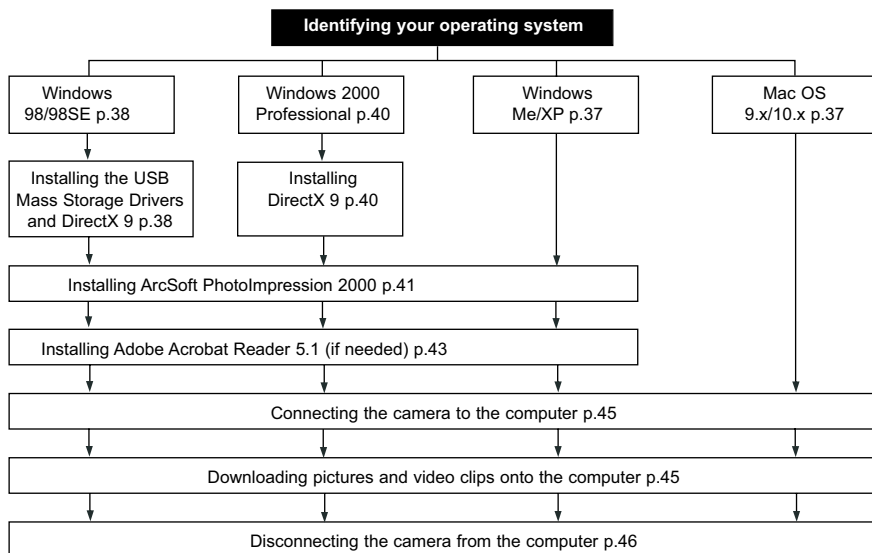
Color	Description
Yellow (●)	Required or highly recommended to install.
Gray (●)	Already installed or not necessary



Option	Description
Camera Drivers	The USB Mass Storage camera drivers enable the camera to become an external drive on your computer.
Microsoft DirectX 9	DirectX 9 enables the movie playback applications on your computer to playback video clips that are captured with the camera.
ArcSoft PhotoImpression 2000	This photo software enables you to edit and enhance pictures.
Adobe Acrobat Reader 5	Adobe Acrobat Reader enables you to view the electronic version of the User's Guide.
User's Guide	Direct link to the electronic version of the User's Guide in different languages. (All User's Guides are saved in PDF format.)
Jenimage.com	Direct link to our camera support website. Please establish an internet connection before clicking on the link.

FLOW DIAGRAM FOR SOFTWARE INSTALLATION

To transfer the pictures and video clips from the memory card, the camera must be connected to a computer with the provided Mini-USB cable. Additional setup maybe required by some operating systems before connecting the camera to the computer for the first time.



Data transfer may not function correctly if you have one of the operating systems listed below or you are using an add-on USB adapter or USB hub.

- Windows 95
- Windows NT 3.51/4.0
- Mac OS 8.6 or lower
- Home built computer systems or computer systems without a factory installed operating system
- Home installed operating system or upgrade to the operating system.

IDENTIFYING YOUR OPERATING SYSTEM

Windows

1. Right click the **My Computer** icon on your desktop, and go to Properties.
2. The System Properties Box will appear.
The information about your computer is listed under the system area.
3. Confirm that your computer is running one of the following operating systems and proceed to the page in the chart for installation instructions:



System	Proceed to page
Windows 98, Windows 98 Second Edition	Page 38
Windows 2000	Page 40
Windows Millennium Edition, Windows XP Home Edition, Windows XP Professional Edition, Windows XP Media Center Edition	Page 41

4. Press **OK** to close the window

For Windows 98/98SE/Me/2000, if the **My Computer** icon is not on your desktop, click **Control Panel** icon from the Start Menu and double click on the **System** icon to open the System Property Box.

For Windows XP, if the My Computer icon is not on your desktop, click Control Panel icon from the Start Menu and click on the Performance and Maintenance icon, then click on the System icon to open the System Property Box.

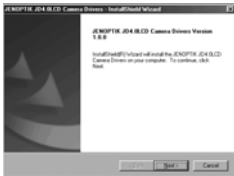
Macintosh

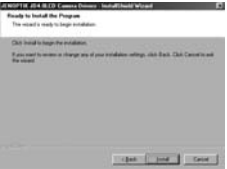
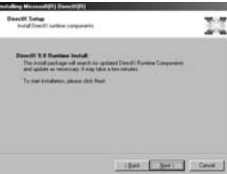
1. In the Apple Menu on the Menu bar, select **About this Computer**.
2. A window will appear with the computers operating system version. Confirm that your computer is version 9 or higher.

No installation of software is necessary for Macintosh users, please go to Page 45 to connecting your camera to the computer.

INSTALLING THE DRIVER AND DIRECTX 9 – WINDOWS 98/98SE

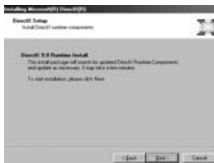
NOTE: Do not connect the camera to your computer before the camera drivers and Microsoft DirectX 9 installation is completed.

Step 1	Make sure your camera is powered off and not connected to the computer.
Step 2	Make sure the computer is powered on and Windows 98 or 98SE is running.
Step 3	Close any other applications or software you may be running.
Step 4	Insert the CD-ROM included in your camera's packaging into your computer's CD-ROM Drive. NOTE: If the installer does not start automatically within 30 seconds after the CD-ROM has been inserted, click on "My Computer" either on the Desktop or in the Start Menu and locate the CD-ROM Drive. Double click on the CD-ROM Drive icon for installation and proceed to Step 5.
Step 5	Select the language. Click [OK] 
Step 6	The installation screen will appear. Click on Install Camera Drivers 
Step 7	Click [Next >]. 
Step 8	The next dialog will prompt you to select the components that will be installed. USB Mass Storage Driver and DirectX 9 will be preselected. The files will be saved in the shown directory automatically. OR You may change the default folder by clicking [Browse...] and selecting a different folder in your computer. Click [Next >] 

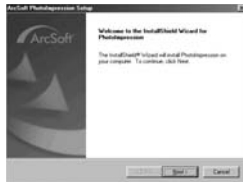
Step 9	Click [Install]	
Step 10	Install progress bar	
Step 11	The next screen will begin the DirectX setup. Select " I accept the agreement " then click [Next >] .	
Step 12	Click [Next >]	
Step 13	Click [Finish] Your computer will automatically reboot.	

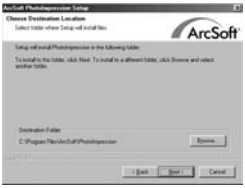
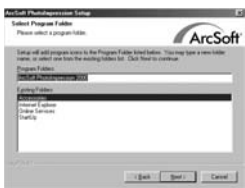
INSTALLING DIRECTX 9- WINDOWS 2000

Step 1	Make sure your camera is powered off and not connected to the computer.
Step 2	Make sure the computer is powered on and Windows 2000 is running.
Step 3	Close any other applications or software you may be running.
Step 4	Insert the CD-ROM included in your camera's packaging into your computer's CD-ROM Drive. NOTE: If the installer does not start automatically within 30 seconds after the CD-ROM has been inserted, click on "My Computer" either on the Desktop or in the Start Menu and locate the CD-ROM Drive. Double click on the CD-ROM Drive icon for installation and proceed to Step 5.
Step 5	Select the language. Click [OK]
Step 6	The installation screen will appear, click on Install Microsoft DirectX 9.0
Step 7	The next screen will begin the DirectX setup. Click [Next >]
Step 8	Click [Next >]
Step 9	Click [Finish] Your computer will automatically reboot.



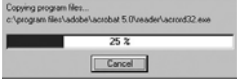
INSTALLING ARCISOFT PHOTOIMPRESSION – ALL WINDOWS USERS

Step 1	Make sure your camera is powered off and not connected to the computer.
Step 2	Make sure the computer is powered on and Windows is running.
Step 3	Close any other applications or software you may be running.
Step 4	Insert the CD-ROM included in your camera's packaging into your computer's CD-ROM Drive. NOTE: If the installer does not start automatically within 30 seconds after the CD-ROM has been inserted, click on "My Computer" either on the Desktop or in the Start Menu and locate the CD-ROM Drive. Double click on the CD-ROM Drive icon for installation and proceed to Step 5.
Step 5	Select the language. Click [OK] 
Step 6	The installation screen will appear. Click on Install ArcSoft PhotoImpression 2000 
Step 7	Click [Next >] 
Step 8	Click [Yes] 

Step 9	Click [Next >]	 The screenshot shows the 'ArcSoft PhotoImpression Setup' window. It has a title bar and the ArcSoft logo. The main text says 'Choose Installation Location' and 'Select folder where Setup will install files.' Below this, it says 'Setup will install PhotoImpression in the following folder:' and 'To install in this folder, click Next. To install in a different folder, click Browse and select another folder.' At the bottom, there is a 'Destination Folder' field showing 'C:\Program Files\ArcSoft\PhotoImpression' and a 'Browse...' button. At the very bottom are 'Back', 'Next >', and 'Cancel' buttons.
Step 10	Make sure all two applications are checked and then click [Next >]	 The screenshot shows the 'ArcSoft PhotoImpression Setup' window. It has a title bar and the ArcSoft logo. The main text says 'Select Components' and 'Choose the components Setup will install.' Below this, there is a list of components with checkboxes. 'PhotoImpression' and 'PhotoImpression Components' are both checked. To the right of the list is a 'Description' box. At the bottom, there is a 'Select Components' button. At the very bottom are 'Back', 'Next >', and 'Cancel' buttons.
Step 11	Click [Next >]	 The screenshot shows the 'ArcSoft PhotoImpression Setup' window. It has a title bar and the ArcSoft logo. The main text says 'Select Program Folder' and 'Please select a program folder.' Below this, it says 'Setup will add program icons to the Program Folder listed below. This step type a new folder name, or select one from the existing folder list. Click Next to continue.' At the bottom, there is a 'Program Folder' field showing 'C:\Program Files\ArcSoft\PhotoImpression' and a 'Browse...' button. At the very bottom are 'Back', 'Next >', and 'Cancel' buttons.
Step 12	The screen will show the status of the installation	 The screenshot shows the 'ArcSoft PhotoImpression Setup' window. It has a title bar and the ArcSoft logo. The main text says 'Setup Status' and 'PhotoImpression Setup is performing the requested operation.' Below this, it says 'Installing Copying PhotoImpression files...' and 'C:\Program Files\ArcSoft\PhotoImpression\CIW_01'. At the bottom, there is a progress bar showing 100% completion. At the very bottom is a 'Cancel' button.
Step 13	Click [Finish]	 The screenshot shows the 'ArcSoft PhotoImpression Setup' window. It has a title bar and the ArcSoft logo. The main text says 'InstallShield Wizard Complete' and 'Setup has finished installing PhotoImpression on your computer.' At the bottom, there are 'Finish' and 'Cancel' buttons.

INSTALLING ADOBE ACROBAT READER 5- ALL WINDOWS USERS (OPTIONAL)

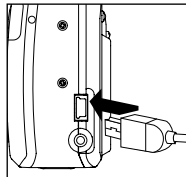
Step 1	Make sure your camera is powered off and not connected to the computer.
Step 2	Make sure the computer is powered on and Windows is running.
Step 3	Close any other applications or software you may be running.
Step 4	Insert the CD-ROM included in your camera's packaging into your computer's CD-ROM Drive. NOTE: If the installer does not start automatically within 30 seconds after the CD-ROM has been inserted, click on "My Computer" either on the Desktop or in the Start Menu and locate the CD-ROM Drive. Double click on the CD-ROM Drive icon for installation and proceed to Step 5.
Step 5	Select the language. Click [OK] 
Step 6	The installation screen will appear, Click on Install Adobe Acrobat Reader 5 
Step 7	Status bar. 
Step 8	Click [Next >]. 

Step 9	The files will be saved into C:\Program Files\Adobe\Acrobat 5 automatically. OR You may change the default folder by clicking [Browse...] and selecting a different folder in your computer. Click [Next >]	
Step 10	Installation progress	
Step 11	Select Yes, to restart the computer or No, to restart the computer later. Click [Finish >]	

CONNECTING THE CAMERA TO THE COMPUTER

Note for Windows 98 and 98SE users: Do not connect the camera to your computer before the camera drivers and Microsoft DirectX 9 installation is completed.

1. Power the camera on.
2. Connect the camera to the computer with the Mini-USB cable provided.
 - Plug the larger end of the Mini-USB cable that is included with the camera into your PC's USB port. (Please refer to your computer's documentation for more information on the location of the USB port.)
 - Plug the small end of the Mini-USB cable into the USB port located in the Cable Connection panel on the side of the camera.
3. When the camera is connected to the computer for the first time, the camera USB Mass Storage driver installation will begin. Please follow the on-screen instructions to complete the installation.



DOWNLOADING PICTURES AND VIDEO CLIPS ONTO YOUR COMPUTER

Note: Windows 98/98SE users must install the camera driver first. (Page 38)

Note: Windows 2000 users must install DirectX 9 to view video clips on the computer. (Page 40)

Downloading files from the camera:

- Internal memory: Do not insert the memory card.
- Memory Card: Insert the memory card.

Caution: Do not attempt to open the battery/memory door to insert or remove the memory card and/or batteries when the camera is connected to the computer.

FOR WINDOWS USERS

Downloading Pictures and Video Clips onto your computer:

1. Connect the camera to the computer.
2. Double-click on My Computer.
3. Double-click Removable Disk.
4. Double-click DCIM.
5. Double-click 100_JD40.
 - The stored pictures (JPG) and video clips (AVI) stored in the memory card will be displayed.
6. Click and drag the files into a directory in your computer to save them.
 - To select all files, click Edit > Select all.

FOR MACINTOSH USERS

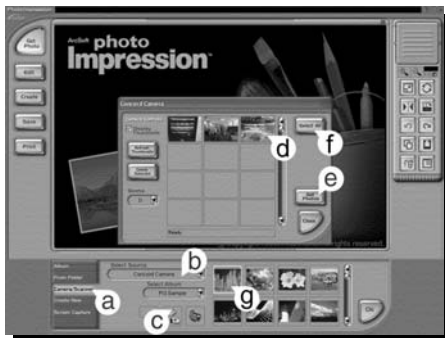
1. Connect the camera to the computer.
 - After a few moments, the external hard drive will appear on the desktop.
2. Double-click the "untitled" removable drive that is on your desktop.
3. Double-click DCIM.
4. Double-click 100_JD40.
 - The stored pictures (JPG) and video clips (AVI) stored in the memory card will be displayed.
5. Drag and drop the image you want to save in the computer.
 - To select all files, click Edit > Select all.

Note: You may also transfer the stored pictures and video clips on your memory card onto your computer by using a memory card reader (sold separately.)

USING ARCSOFT PHOTOIMPRESSION

Windows Only

1. Connect the camera to the computer. (p.45)
2. Launch ArcSoft PhotolImpression software by clicking on Start-Programs-ArcSoft Camera Suite and choosing PhotolImpression from the application list on your screen.
3. When the Application opens.
4. Click on the [Camera/ Scanner] button.(a)
5. Click on the drop-down list under Select Source and choose JD 4.0 LCD.(b)
6. Click on the Camera/ Scanner Icon. (c)
 - A second window will appear showing the contents (pictures) in the memory card, and options on how to handle them. (d)
7. Select the picture you would like to view, edit or save by clicking on it. The selected image will be highlighted by a border. You may also click on Select All (f) to choose all pictures.
8. Click on Get Photos (e).
9. The pictures will then be added to your album at the bottom of the application (g). To access these, click CLOSE on the Camera Controls windows. Double-click on the thumbnail to open.
10. You may now edit, save, print or further enhance your pictures using the buttons on the left hand side of the screen. Please refer to ArcSoft's Software help section for a tutorial on all the features PhotolImpression offers.



UNPLUGGING YOUR CAMERA FROM THE COMPUTER

Windows 98/98SE:

1. Double-click on My Computer
2. Right-click on Removable Disk to display the menu.
3. Click on Eject in the menu.
4. Unplug the Mini-USB from the camera.

Windows ME/2000/XP:

1. Turn the camera off.
2. Click once on the "Unplug or Eject Hardware" icon on the right hand side of your task bar. (fig.1.1)
3. Select "Stop USB Mass Storage Device"
4. Click [OK] in the "Safe to Remove Hardware" prompt.
5. Unplug the Mini-USB from the camera. (fig.1.2)



fig. 1.1

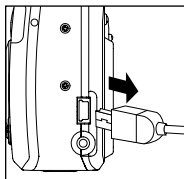


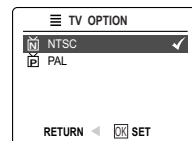
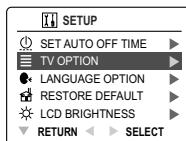
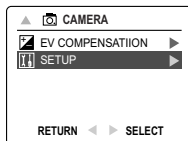
fig. 1.2

Macintosh:

1. Drag the "untitled" removable drive icon on the desktop to the Trash.
2. Unplug the Mini-USB cable from the camera.

TV MODE - VIEWING AND DELETING YOUR FILES ON TV

The camera allows you to view individual files and record clips on the television. To begin, check your television documentation to determine what video standard you should set your camera to either NTSC or PAL.



Changing the TV Mode setting:

1. Slide the Mode Switch to ().
2. Press the **MENU** button to view the () Main Menu.
3. Press the joystick until Setup is highlighted.
4. Press the joystick to enter the Setup menu.
5. In the Setup menu press the joystick until TV is highlighted
6. Press the joystick to enter the TV submenu.
7. Press the joystick to change the setting to NTSC or PAL and press **OK**.
8. Press the **MENU** button to exit.

CONNECTING THE CAMERA TO THE TELEVISION

Connecting the camera to the television:

1. Connect the TV-Out cable into the jack marked **VIDEO** or **VIDEO IN** on your television.
2. Turn on your television.
3. Set the television to video mode according to the instructions in the owner's manual. (This is usually channel 3, 4 or AV).
4. Turn the camera on by sliding the On/Off Switch ().
5. Connect the other end of the cable into the VIDEO port located in the cable connection panel. (fig.1.1)

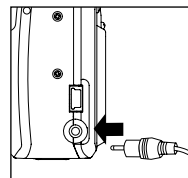


fig.1.1

Using the TV as a Live Viewfinder:

1. Connect the camera to the TV.
2. Turn the camera on.
3. Slide the Mode Switch to ().
4. The TV will become a live viewfinder.

Note: You may record your TV Mode session by using your VCR. Please refer to your VCR documentation to learn more about recording.

Reviewing pictures and video clips on your TV:

1. In TV Mode, slide the Mode Switch to ().
2. Press the joystick to scroll through the saved pictures and video clips.
3. To customize your camera settings and to view more options, press the **MENU** button to display the TV Menu on the TV screen.
 - The TV menu will display the same Delete menu and Setup menu used in the camera. Please refer to pages 24 and 27 for further information.

Viewing video clips:

1. When an AVI file is displayed on the TV, press the **OK** button to view.

ERROR MESSAGES



Error Messages on the LCD indicate if the memory is full or if there is a problem with the memory.

Note: If the internal memory or the memory card is corrupted, the LCD will read ERROR! The memory needs to be formatted. Please format all files to continue. (Page.32)

TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	POSSIBLE SOLUTION
CAMERA		
Cannot turn on the camera.	Batteries were not installed correctly.	Install batteries correctly using the direction indicators on the edge of the top of the battery compartment.
	Batteries are dead or weak.	Replace batteries.
	Battery compartment door was not closed correctly.	Close the battery compartment properly.
The camera/buttons do not work.	The camera needs to be reset.	Press the reset button on the back of the camera with a pointed object such as a pen, then power the camera off then on.
The camera turns off during usage.	The batteries are drained of power.	Replace the batteries with new ones.
	The Auto time off setting is too short.	Your camera comes with an Auto Time Off setting, so if the camera is inactive for a certain amount of time, it powers off to conserve battery power. Please refer to the Time-Out section on page 30 to set your time limit.
PICTURES/VIDEO CLIPS		
Picture/Video clip has poor image quality.	Poor Lighting.	Increase the lighting in the surrounding area when taking picture and video clips.
	Lens is dirty.	Clean the lens with a soft cloth. See the Camera Maintenance section.
	Subject too close.	Stand at least 3.3 ft. (1m) for the Distant Mode away from the subject. And at Macro Mode stand 0.66ft (20cm) away from the subject.
TAKING PICTURES		
Flash picture taken is too light.	Subject is too close.	Move the subject further away from the camera.
	The flash is not needed.	Change the camera setting to Auto Flash. See p.13.
	Lighting condition is too bright.	Decrease exposure compensation. See p.20.
Flash Picture taken is too dark.	The subject is too far away for the flash to be effective.	Move the subject closer to the camera, or move the camera closer to the subject.
	Flash is not on.	Turn the flash On.
	The subject is in front of a bright light.	Change the subject's position.
	Lighting condition is too dark.	Increase the exposure compensation. See p.20.
Flash did not work.	There was sufficient flash for the picture and the flash did not fire. This happens when the camera is set to Auto Flash.	This is normal as your camera's electronic light sensor is programmed to only fire the flash when needed.
	Camera's flash has been turned off.	Turn the flash to Auto flash.
	Flash did not charge.	Verify that the Ready LED has stopped blinking before taking a picture.

SYMPTOM	POSSIBLE CAUSE	POSSIBLE SOLUTION
Picture taken is blurry.	Subject or camera was moved as the picture was taken.	Hold camera steady until picture is taken.
	The focus was not locked before taking the picture.	Before taking a picture, press the shutter button half-way to lock the focus, and press the shutter button fully to capture the picture. (p.12)
There is something wrong with the color of your photographs.	White balance is not set properly.	Reset the white balance feature to Auto, or for the specific lighting in the surrounding area.
Cannot take a picture or a video clip.	Memory is full.	Delete all pictures and continue shooting.
		Download the stored files to your PC and delete the files from the camera internal memory or memory card.
		Insert a memory card with sufficient memory available.
	Camera is not set in picture/video clip taking mode.	Set the camera to the proper mode for recording video clips, or taking photographs.
	Power is off.	Turn the power on.
	Camera is in Auto Power off mode.	Turn the power on.
Cannot take a picture or a video clip when using an SD memory card.	The SD card is locked or write protected.	Remove the SD card from the card slot and slide the lock switch to off.
Picture is blurred when looking through the viewfinder.	Viewfinder is dirty.	Clean the viewfinder with a soft cloth or cotton swab. See the Camera maintenance section.
Part of the picture/ video clip is missing.	Something was blocking the lens when taking the picture.	Keep hands, fingers, etc. away from the lens when taking a picture.
	The picture was not centered correctly in the viewfinder.	Leave space around the subject when centering the picture in the viewfinder.
Camera is not responding during picture capture.	The battery level is low and the camera does not have sufficient power to complete picture capture.	Replace batteries.
The shutter button does not work.	The camera is not turned on.	Turn the camera on.
	The camera is processing a picture; the ready LED light is still blinking.	Wait until the light stops blinking before attempting to take another picture.
LCD		
The LCD display is dark.	Protective plastic film still in place on the camera.	Make sure the protective plastic film covering the LCD during shipment, has been removed.
	The LCD brightness level is set too low.	Increase the brightness level on your LCD to meet your personal needs. See p.31 for setting the brightness.
The LCD screen looks milky and/or scratched.	Protective plastic film still in place on the camera.	Make sure the protective plastic film covering the LCD during shipment, has been removed.
The LCD is not displaying anything.	LCD is turned off.	Turn the LCD on, by pressing ().
	The battery level is low.	Replace the batteries.

SYMPTOM	POSSIBLE CAUSE	POSSIBLE SOLUTION
VIEWING VIDEO CLIPS ON THE COMPUTER (WINDOWS 98/98SE/2000)		
Cannot playback stored video clips on the computer.	Video playback files are missing.	Install Microsoft DirectX 9. (p.38)
INSTALLING SOFTWARE AND DRIVERS		
Camera is not responding during picture download to the PC.	The operating system may not be allocating adequate resources to download the pictures.	Reset the camera by pressing the reset button with a pointed object such as a pen. Reboot the computer.
	The Mini-USB cable is not plugged into the camera.	Check that the Mini-USB cable is plugged into the camera.
	The Mini-USB cable is not plugged into the computer.	Check that the USB cable is plugged into the computer.
	The computer is not powered on.	Turn your computer on.
Cannot transfer pictures to the computer. The New Hardware Wizard cannot locate drivers. (Windows 98/98SE)	The Software is not installed on the computer.	Disconnect the Mini-USB cable from the camera and the computer. Install the camera software and drivers. (p.38)
	Software is not fully or correctly installed on the computer.	Disconnect the Mini-USB cable from the camera and the computer. Uninstall the software: Start-Settings-Control Panel-Add/ Remove Programs. Re-install the camera drivers. (See p.38)
SD CARDS		
The camera does not recognize your SD Card.	The card may not be SD certified.	Purchase a certified SD card.
	The card may be corrupted.	Reformat the card. Caution: Formatting erases all pictures on the card. p.31
	No card is inserted in the camera.	Insert a card into the card slot. See p.9

GETTING HELP

You can get help from our troubleshooting section, FAQ on our website or by contacting a customer support representative.

Troubleshooting Section

If you need help with your camera, refer to the Troubleshooting section of this manual on page 49.

Customer Support

Before You E-mail or Call us

If you have questions concerning the operation of the camera or software installation, you can speak to or e-mail a customer service representative. Please have the following information available:

Camera Information:

Name of camera model
Camera Serial Number
Camera Info in camera (page 29):
 FW Version
 FW Part Number
 Date
 Comment

Computer Information:

Operating System
Processor Speed (MHz)
Computer Make and Model
Amount of memory
Exact Error message received
CD-ROM Part Number

For Camera Support please contact our hotline:

US and Canada:

• (866) 522-6372
Monday – Friday 8:00am – 8:00pm
Saturday: 9am – 5pm
Sunday: 12pm – 4pm

Europe:

• UK: 0800-1696482
• Spain: 900-973195
• Italy: 800-781883
• France: 0800-917599

Deutschland:

Tel./Fax: 0180-5780003
Montag bis Donnerstag: 8 Uhr bis 17 Uhr
Freitag: 8 Uhr bis 16 Uhr
Internet: www.jenimage.com
E-Mail: service@jenimage.com

For ArcSoft Technical Support on Photo Editing Software, please contact:

In the USA and Canada:

ArcSoft, Inc.
46601 Fremont Blvd.
Fremont, CA 94538
Monday – Friday
8:30AM - 5:30PM (PST)
Tel: (510) 440-9901
Fax: (510) 440-1270
Web: www.arcsoft.com
E-mail: support@arcsoft.com

In Europe:

Arcsoft, Inc.
Unit, Shannon Industrial
Estate
Shannon, Co. Clare, Ireland
Tel: +353 (0) 61 702087
Fax: +353 (0) 61 702001
E-mail: europe@arcsoft.com

Note: Working hours are subject to change without prior notice.

CAMERA SPECIFICATIONS

Sensor	4 Megapixels (2272 x 1704 resolution)					
Image Resolution	2272 x 1704	4 Megapixels				
	2048 x 1536	3.1 Megapixels				
	1600 x 1200	2 Megapixels				
	1280 x 960	1.2 Megapixels				
	640 x 480	VGA				
Lens	10.0 mm (equivalent to 48mm on 35mm format) f/3.0 – f/6.0, 4 groups, 5 elements all glass					
Zoom	6x Digital Zoom					
Focusing Range	Auto focus from 3.3 ft (1m) to infinity, macro from approx. 0.66 ft (20cm)					
Exposure	Auto exposure and auto white balance with manual presets					
Internal Memory	16 MB non-volatile memory					
Storage Capacity (Approx. with 16MB of memory)	Resolution Quality	4MP (2272 x 1704)	3.1MP (2048 x 1536)	2MP (1600 x 1200)	1.2MP (1280 x 960)	VGA (640 x 480)
	Fine	20	23	34	50	138
	Normal	51	63	89	127	308
	Economy	75	88	128	177	430
Removable Storage	SD memory card slot					
LCD	1.5" TFT display with LED backlight, live viewfinder with 30 fps					
Output Picture File Format	JPG/EXIF					
Viewfinder	Optical reversed Galilean type with 80% coverage					
Self-Timer	Approximately 10 seconds with blinking red LED					
Flash Unit	Flash off, auto flash, fill-in flash, auto red-eye reduction and night mode					

Battery Life	100 photos with LCD monitor turned off
Flash Distance	1m (3.28 ft) to 3m (9.84 ft)
Power Source	2x AA Batteries
Connectivity	Mini-USB connection direct to PC or Mac SD connection to SD card reader Video connection direct to TV (NTSC/PAL)
System Compatibility	Windows 98, 98SE, 2000, ME, XP and Mac OS 9 and higher
Video Clips	QVGA resolution, 30fps, AVI (Motion JPEG) format
Dimensions	100 x 61 x 38 mm
PC Software	ArcSoft PhotoImpression, Adobe Acrobat Reader 5
Accessories	CD-ROM for Windows: – Camera Drivers – Microsoft DirectX 9 – ArcSoft PhotoImpression 2000 – Adobe Acrobat 5 – Multilingual User's Guide in PDF format Multilingual User's Guide Mini-USB Cable TV Cable Wrist Strap Pouch 2x AA Batteries

SAFETY TIPS AND MAINTENANCE

Cleaning the camera body:

1. Please use a soft dry cloth to clean the camera.

Cleaning the lens, viewfinder and LCD:

1. Blow off dirt or dust with a blower or canned air.
2. Gently wipe the lens, viewfinder and/or LCD with a micro-fiber cloth.
3. To remove dirt or residue, moisten the cloth with lens cleaning fluid and gently wipe the lens, viewfinder and/or LCD.

CAUTION: Do not apply the fluid directly onto the lens, viewfinder or LCD.

SAFETY TIPS

Precautions for the camera:

- Do not attempt to modify this camera in any way. This may cause a fire or electric shock or severe damage to the camera.
- Do not use the flash in close proximity to people or animals.
- When taking photographs, never point the lens of the camera directly into very strong light.
- Please do not use this product in close proximity to flammable or explosive gases as this could increase the risk of explosion.
- For safety reasons keep this product and accessories out of reach of children or animals to prevent accidents.
- Do not swallow batteries or small camera accessories.
- Keep the camera away from water and other liquids, and never let it get wet. Do not use outdoors when it is raining or snowing.
- Should any form of liquid enter the camera, do not use it. Switch the camera off, and then remove the batteries. Do not continue to use the camera as this may cause a fire or electric shock.
- Do not insert or drop metallic or inflammable foreign objects into the camera through access points e.g. card slot and battery chamber. This may cause a fire or electric shock.
- Do not operate this camera with wet hands. This could pose a risk of electric shock.
- Under the environment with electrostatic discharge, the camera may malfunction and require the user to reset the camera.
- Under the environment with electrical fast transients (EFT), the camera may lose function and require user to reset the camera.
- Shielded cables must be used with this unit to ensure compliance with the Class B FCC limits.
- Please avoid using the camera in high or low temperature. Operation temperature range 32°F - 104°F (0°C - 40°C).
- It is normal that the temperature of the camera body rises after being in use for a long period.
- Do not leave this camera in places subject to extremely high temperatures such as in a sealed vehicle, direct sunlight or other places with extreme variances in temperature. Exposure to extreme temperatures may adversely affect the camera's internal components and could cause a fire.
- Always use the camera and its accessories in a well-ventilated area.

Precautions for batteries:

- Use 2x AA batteries only.
- Dispose of the batteries in a manner that complies with applicable laws.
- Leakage, overheating, or burst batteries could result in fire or injury.
- Do not short circuit, heat or dispose of batteries in fire.
- Do not use old batteries with new ones, or mix brands of batteries.
- Ensure the batteries are positioned correctly with regard to polarity (+/-).
- Allowing dust to accumulate in the camera over a long period is hazardous and in extreme circumstances may cause a fire. It is best to clean your camera prior to seasonal periods of high humidity.
- Batteries may lose power if kept inside the camera for a long time without using. Please remove the batteries while the camera is not in use.
- Do not use manganese batteries as they cannot supply sufficient power to support the camera's operations. Batteries may not work normally under 32°F (0°C).

Precautions for SD Memory Cards:

- In the event of malfunction or damage, it is possible that data may be lost. JENIMAGE Europe is not responsible in any way for such data loss.
- Do not touch the terminals with hands or metal objects.
- Keep dust, water and foreign objects away from the terminal section.
- Avoid heat, liquid and direct sunlight when using and for storage.
- Do not open the battery/card cover or remove the SD Memory Card while data is being read or written.
- Do not dismantle or modify.
- The recorded data may be lost if the card is affected by strong static electricity or electrical shock, or during card repair or malfunction.
- When using SD Memory Cards do not change the attributes (read-only, etc.) of the files (pictures (JPEG) or video clips (AVI) on the card. Doing so may prevent the camera from working properly when deleting, etc.
- Do not change the file names or the directory name of the pictures or video clips using a computer or save files other than pictures or video clips taken by this camera onto the SD memory card. Pictures or video clips that have been edited or added to the SD memory card with the computer may not play back and it may cause the camera to malfunction.
- The SD Memory Card includes a write-protect switch. Sliding this switch downward prevents data from being written to the card and pictures and video clips saved on the card are protected.
- Please note that pictures and video clips cannot be taken or deleted when the write-protect switch is on.
- When using a large-capacity card, writing, reading and deletion may take some time.
- Do not store the card in places with high humidity, dusty places or where static electricity or electromagnetic fields are likely to occur.
- Images stored in the memory card may be ruined or damaged if you turn off the camera while it is in process of reading, writing or formatting etc.
- SD cards are delicate electronic devices. Please do not bend or drop them.
- Please do not place the SD card in or near to an environment of strong electronic or magnetic fields such as loud speakers or TV receivers.
- Please keep the SD card in its bag or case when not in use.
- It's normal that the SD card is warm after use.
- Please make sure you switch off the camera before you remove the SD card.
- Do not open the battery/memory card door or remove the SD Memory Card while the camera is reading, writing or formatting the card.

REGULATORY INFORMATION

FCC INFORMATION

FCC WARNING: This equipment meets the limits for a Class B digital device, pursuant to Part 15 of FCC rules. Only the cable supplied with the camera should be used. Operation with other cables is likely to result in interference to radio and TV reception and could void the user's authorization to operate this equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

***Tested to comply
with FCC standards
for HOME OR OFFICE USE***

Changes or modifications not expressly approved by the manufacturer may void the user's authority to operate this equipment.

USER INFORMATION

NOTE: This equipment has been tested and found to comply with the limits for a 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 on and off, 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 connected.
- Consult the dealer or an experienced radio/TV technician for help.

VCCI INFORMATION

This is a Class B product, to be used in a domestic environment, based on the Technical Requirement of the Voluntary Control Council for Interference (VCCI) from Information Technology Equipment. If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Please install and use the equipment according to this instruction manual.

CE - This product is in conformity with Directive 89/336/EEC.

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