

visioneer. LX 200
2.0 Megapixel Digital Camera

User's Guide



www.visioneer.com

Technical Support

Visit Visioneer's web site at www.visioneer.com for technical support including help during installation, driver updates, spare parts and documentation.



Visioneer's 90-Day Limited Product Warranty (Upgradeable to 1 year)

If you find physical defects in the materials or the workmanship used in making the product described in this document, Visioneer will repair, or at its option, replace, the product at no charge to you, provided you return it (postage prepaid, with proof of your purchase from the original reseller) during the ***3-month period after the date of your original purchase of the product. Upon registration of the product with Visioneer at www.visioneer.com, the warranty is automatically extended for an additional 9 months for a total of 12 months.***

THIS IS VISIONEER'S ONLY WARRANTY AND YOUR EXCLUSIVE REMEDY CONCERNING THE PRODUCT, ALL OTHER REPRESENTATIONS, WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, WRITTEN OR ORAL, INCLUDING ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT, ARE EXPRESSLY EXCLUDED. AS A RESULT, EXCEPT AS SET OUT ABOVE, THE PRODUCT IS SOLD "AS IS" AND YOU ARE ASSUMING THE ENTIRE RISK AS TO THE PRODUCT'S SUITABILITY TO YOUR NEEDS, ITS QUALITY AND ITS PERFORMANCE.

IN NO EVENT WILL VISIONEER BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY DEFECT IN THE PRODUCT OR FROM ITS USE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

All exclusions and limitations in this warranty are made only to the extent permitted by applicable law and shall be of no effect to the extent in conflict with the express requirements of applicable law.

ENGLISH

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.

This manual has been written and formatted with depth and detail so that you can easily follow the instructions to maximize the features of your camera.

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IMPORTANT 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.

PRECAUTIONS

Be sure to observe the following precautions when using the camera:

- Do not open the case of the camera or attempt your own repairs. Always leave this service to authorized repair facilities.
- Keep the camera away from water and other liquids, and never let it get wet. Never use outdoors when it is raining or snowing.
- Should foreign matter or water get into the unit, immediately turn the power off and contact your local authorized service center.
- Physical damage and malfunction of this unit can cause the image data stored in its memory to be deleted. Be sure to always keep backup copies of data by transferring them to a personal computer.
- Under the environment with electrostatic discharge, the camera may malfunction and require the user to reset the camera.
- Shielded cables must be used with this unit to ensure compliance with the Class B FCC limits.
- Do not leave the camera in places subject to extremely high temperatures, such as in a closed vehicle or in direct sunlight.
- Remove the battery when camera is not used for long periods of time.
- Use 2x AA LR6 batteries only.
- Dispose of the batteries in a manner that complies with applicable laws.
- Do not place the camera in unstable locations where the camera may fall and be damaged.
- Do not press on the lens.
- Do not unplug the camera from the TV or computer while the camera is in operation; otherwise, the memory may be corrupted.
- Do not turn the power off or open the battery compartment when the LED is blinking or lit up; otherwise, the image may not be stored.

Camera Features

- Stores approximately 8 Fine, 15 Normal or 27 Economy (1600 x 1200 pixels) mode photos with 7MB internal memory
- Virtually unlimited storage using the removable MultiMediaCard (MMC) or Secure Digital (SD). (MMC/SD memory cards are sold separately).
- 1.6" Color LCD
- USB connection and cable
- TV connection (NTSC and PAL)
- Built-in automatic flash
- Focus free from 3.9 feet (1.2 meters) to infinity
- 1600 x 1200 pixel output (2.0 Megapixels)
- TV On Screen Display (OSD) menu
- Up to 4X Digital Zoom
- EV Compensation
- Preset Scene Selection
- Video Clip Mode
- Web Camera (Windows only)
- Mass Storage Driver
- Self-timer
- Tripod socket
- Multi-language support

System Requirements

PC:

- Microsoft Windows 98/ME/2000 and XP
- IBM PC/AT or compatible, 200 Mhz or higher
- Minimum 32MB RAM (64MB recommended)
- USB Port
- 640 x 480 monitor, minimum 16 bit color (1024 x 768 24 bit color recommended)
- 175MB free hard disk space
- 56K or faster modem, ISDN or LAN connection (for the Web Camera feature only)
- CD-ROM drive

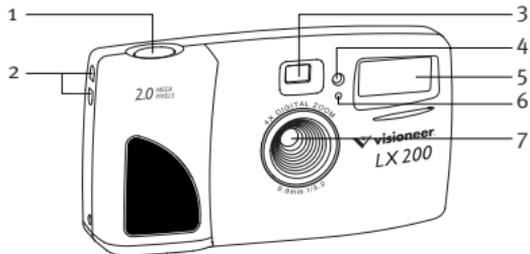
Macintosh:

- Mac OS 9 or higher
- Macintosh Power PC or higher, Minimum 64MB of RAM
- USB Port
- 100MB of available Hard Disk Space
- Storage device only

1. The Camera

Overview of Your Visioneer LX 200

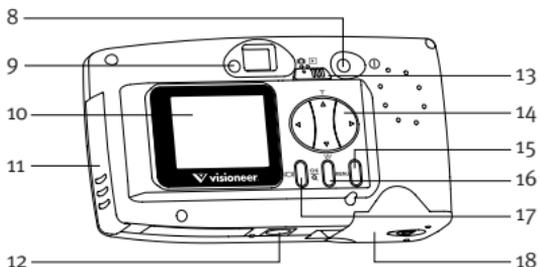
FRONT/TOP



1. Shutter Button
2. Lug for Neck / Wrist Strap
3. Viewfinder
4. Self-timer LED
5. Flash
6. Flash Sensor
7. Ir Filter and Lens

8. Power Button
9. Camera Ready LED
10. LCD
11. Cable Connection Panel
12. Tripod Socket
13. Mode Switch
14. Navigation Button
15. Menu Button
16. OK Button
17. LCD On/Off Button
18. Battery & Memory Card Door

BACK/BOTTOM



Loading the Batteries

The Visioneer LX 200 uses 2x AA LR6 batteries.

Loading the Batteries:

1. Locate the Battery & Memory Card Door on the bottom of the camera.
2. Slide the button on the Battery & Memory Card Door towards the center of the camera. (fig.1.1)
3. Lift the Battery & Memory Card Door to open.
4. Insert the batteries with the positive terminal toward the + sign, and the negative terminal toward the – sign. (fig.1.2)
5. Close the Battery & Memory Card Door.

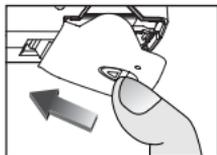


fig.1.1

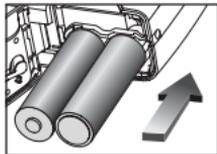


fig.1.2

Note: Remove the batteries from the Visioneer LX 200 if the camera will not be used for an extended period of time to prevent corrosion or battery leaks.

Checking the Batteries

The camera has a battery indicator that shows the current battery level.



FULL

*Batteries are full
and ready to use.*



LOW

*Batteries are low
and need to be
replaced soon.*

Turning the Camera on and off

When the camera is turned on, the camera ready LED on the back of the camera blinks and the LCD will display the default settings.

Turning the Camera on and off:

1. Press the **Power** button to turn the camera on.
(fig.1.3)
2. The camera is ready for picture taking when the camera ready LED stops blinking. (fig.1.4)
3. To turn the camera off, press the **Power** button for a few seconds.

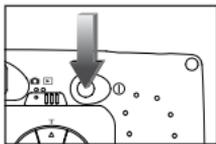


fig.1.3

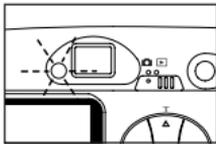
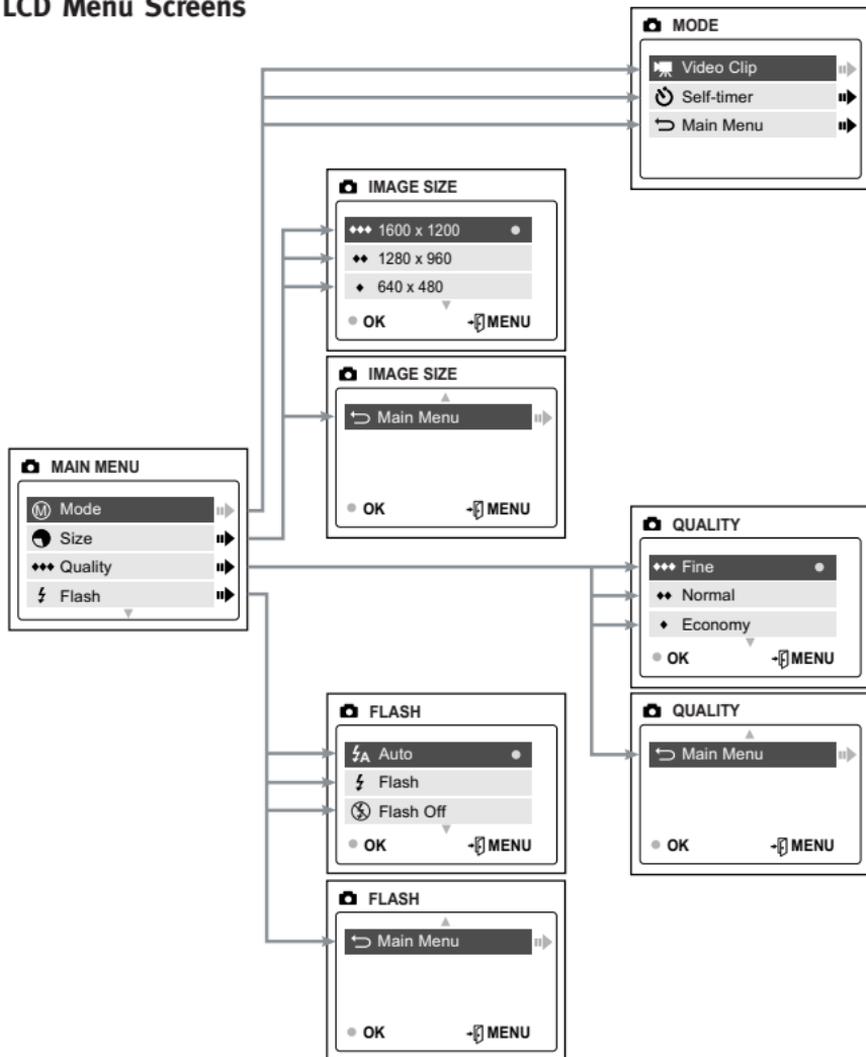
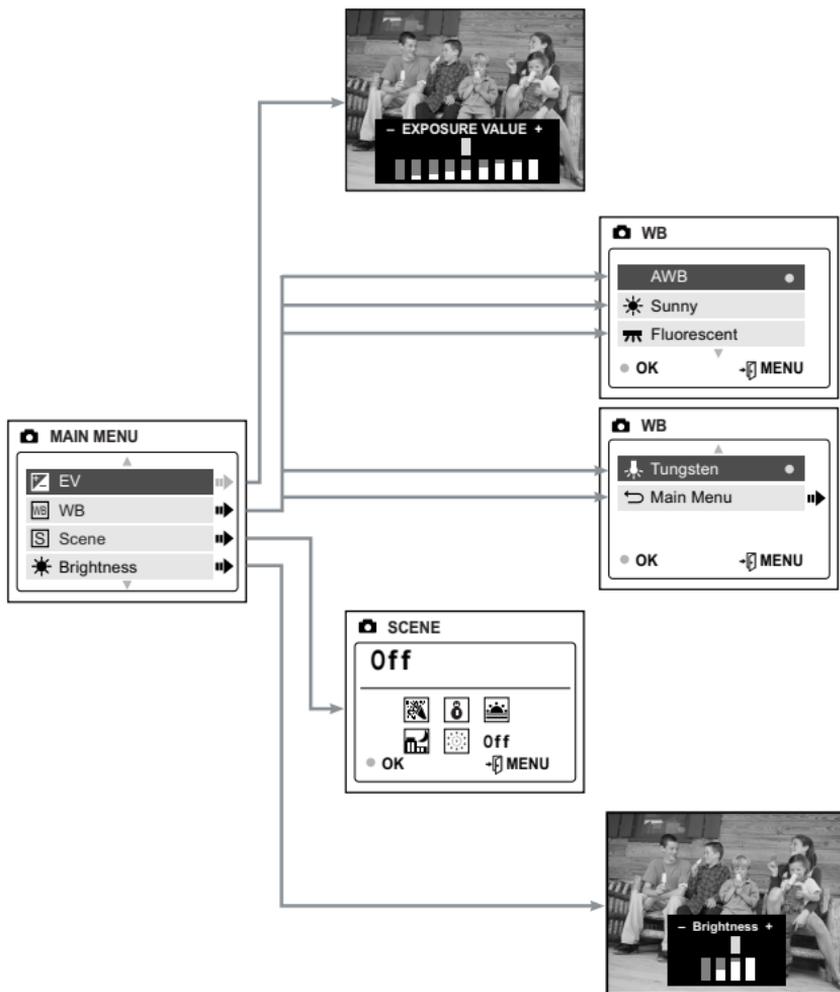


fig.1.4

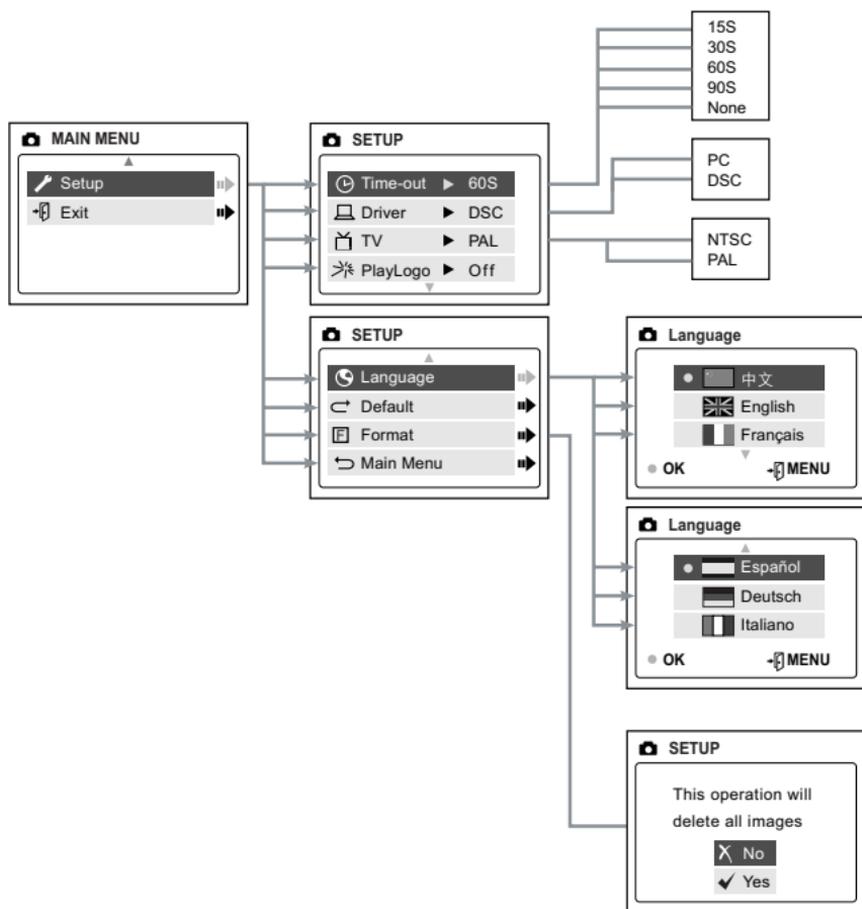
LCD Menu Screens



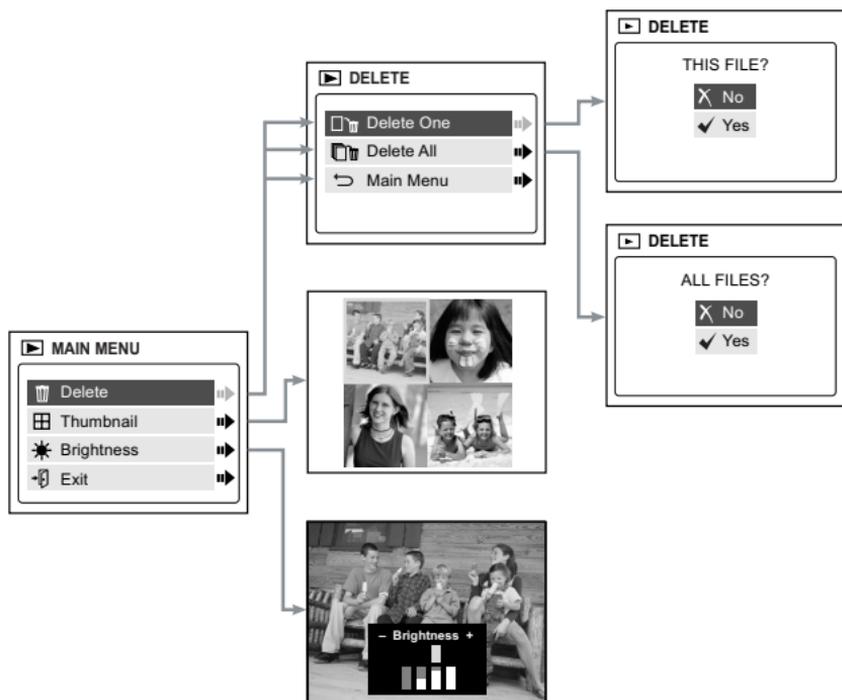
LCD Menu Screens



LCD Menu Screens



LCD Menu Screens



LCD Status Messages

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

1. MEMORY CARD IS FULL:

The memory card is full.



2. INTERNAL MEMORY IS FULL:

The internal memory is full.



3. ERROR:

The camera's internal memory or the MMC/SD may be corrupted. Please format the memory. (P.32)



Turning the LCD On and Off

By default, the LCD automatically turns on when the camera is powered on. Press **DISP** to turn the LCD on or off.

Using the **DISP** Display ON/OFF Button:

1. Press once to turn the LCD icons off.
2. Press **DISP** again to turn the LCD off.
3. Press **DISP** to turn the LCD on.



Camera Ready LED Status

When the Camera Ready LED is:

1. Steady

The camera is in capture mode. Please hold the camera steady during this time; otherwise, the image may come out blurry. (fig.1.5)

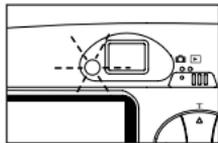


fig.1.5

2. Blinking

The flash is recharging or the camera is in storage mode. You may move the camera in this mode. (fig.1.5)

Note: Do not open the Battery & Memory Card Door or turn the power off while the Camera Ready LED is steady or blinking; otherwise, the images or video clips in the camera may be damaged.

Camera Memory

The Visioneer LX 200 can store files in one of two ways using either the camera's 7MB internal memory or the removable MMC/SD. Memory cards are sold separately and can be purchased from major electronic or computer retailers.

When the MMC/SD is inserted, the images and video clips stored in the internal memory will be transferred automatically onto the memory card.

LCD	Default Memory
	MMC/SD
No 	Internal Memory (7MB)

Note: If a MMC/SD with insufficient memory is inserted, there will only be a partial transfer and the memory card will be filled. Please insert a memory card with sufficient memory, or delete images. Please refer to the Deleting Files section for instruction. (P. 35) The files that were not transferred will remain in the internal memory.

When the camera's internal memory or the MMC/SD is full, you will need to delete images to continue to take pictures, or insert a new MMC/SD memory card. Please refer to the Deleting Photos section for instructions.

Note: There may be available storage space by using a lower photo quality setting. Refer to the QUALITY section to select a lower quality setting on P. 23.

Inserting the MMC/SD

Inserting the MMC/SD:

1. Locate the Battery & Memory Card Door on the bottom of the camera.
2. Slide the button on the Battery & Memory Card Door towards the center of the camera and lift the door.
3. Insert the MMC/SD as indicated by the arrow.
(fig.1.6)
4. Close the Battery & Memory Card Door.

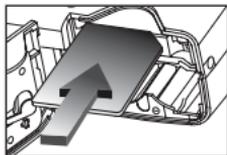


fig.1.6

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

2. 📷 Camera Mode

Taking Images:

1. Set the camera to Camera Mode by moving the Mode Switch to 📷 .
2. Position the subject in the viewfinder OR the LCD. (fig.2.1)
3. Gently press the **Shutter** button (fig.2.2) and keep the camera still until the camera ready LED next to the viewfinder flashes. (fig.2.3)
4. When the image has been captured, the camera ready LED next to the viewfinder begins to blink. This indicates that the image is being processed.
5. A preview of the image will be displayed on the LCD for 1 second and the file counter number displayed in the LCD will be updated.



fig.2.1

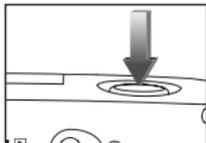


fig.2.2

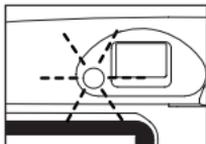
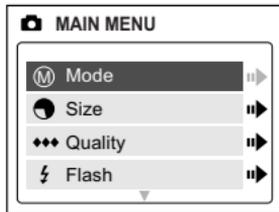


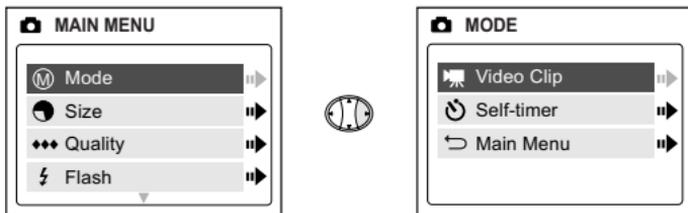
fig.2.3

📷 MAIN MENU

1. In Camera Mode, press **MENU**.
 2. Press ▲ or ▼ to toggle between the options.
 3. Press ► to view the sub-menu of the selected option.
 4. If you would like to exit any menu, press ▼ until Main Menu is highlighted and press ► to return to the Main Menu.
- OR
5. Press **MENU** to return to picture taking mode.



MODE - VIDEO CLIPS



Taking Video Clips:

1. When Video Clip is highlighted in the MODE menu, press ►.
2. Press the **Shutter** button to begin recording a continuous video clip. (fig.2.4)
3. Press the **Shutter** button again to stop recording. (fig.2.5)

OR

4. The camera will continue recording until the memory is almost full.
5. When the recording is completed, the camera will return to still picture taking mode.



fig.2.4



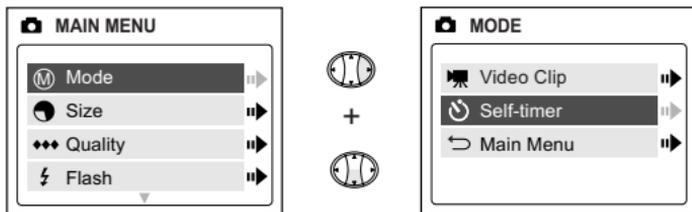
fig.2.5

Note: To view your video clips on your computer, please complete all the steps in the Software Installation section. (P. 38)

Note: The camera ready LED will blink rapidly when the camera is storing the video clip. Do not open the Battery & Memory Card Door or turn the camera off while the LED is blinking, or the video clip may not be stored.

Note: To exit video clip mode before beginning to record, press **MENU** to return to the Main Menu.

MODE - SELF-TIMER



Self-timer:

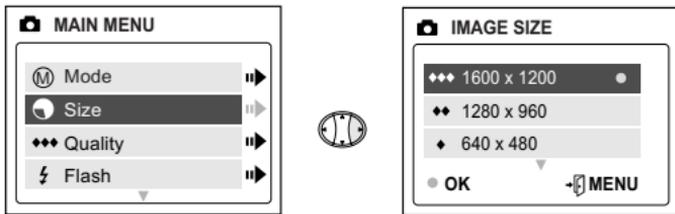
1. Highlight Self-timer in the MODE menu, then press ► . (fig.2.6)
2. Use the ▲ and ▼ to highlight Off or On.
3. Press **OK** to select.
4. Position the subject in the viewfinder or LCD.
5. Press the **Shutter** button.
6. The camera ready LED and the self-timer LED will blink for 10 seconds and then the image will be captured.



fig.2.6

Note: The self-timer is automatically deactivated once the image is taken.

SIZE

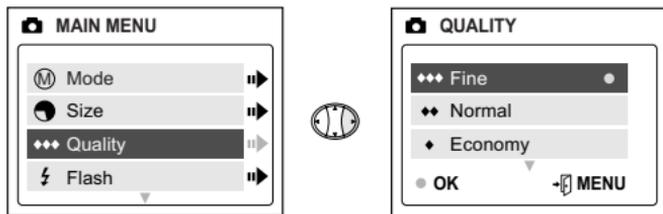


1. In the SIZE menu, press ▲ or ▼ to toggle between 1600 x 1200, 1280 x 960 and 640 x 480 pixels.
2. Press **OK** to select the size and press **MENU** to return to picture taking mode.

Image Quality	Images taken with 7MB (approx.)		
	1600 x 1200	1280 x 960	640 x 480
Fine	8	14	28
Normal	15	33	66
Economy	27	56	114

Note: The selected option will be marked by (●).

QUALITY

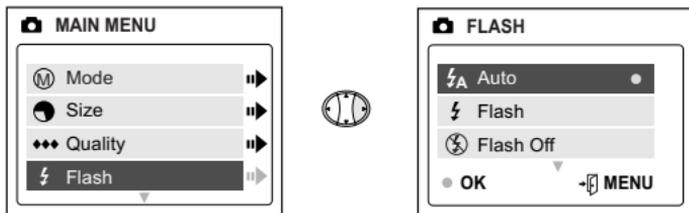


1. In the QUALITY menu, press ▲ or ▼ to toggle between Fine, Normal and Economy.
2. Press **OK** to select the quality mode and press **MENU** to return to picture taking mode.

	Fine	Normal	Economy
Image Size	1600 x 1200	1280 x 960	640 x 480
JPEG ratios	5.1:1	12:1	24:1

Note: The selected option will be marked by (•).

FLASH



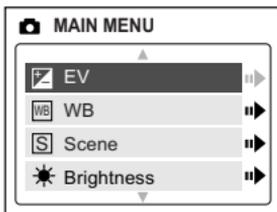
1. In the FLASH menu, press ▲ or ▼ to choose between Auto (⚡_A), Flash (⚡), and Flash Off (⚡_⊗).
2. Press **OK** to select the flash mode and press **MENU** to return to picture taking mode.

Flash Status	Distance from subject
Auto (⚡ _A)	3.9ft (1.2m) to 8.5ft (2.5m)
Flash (⚡)	3.9ft (1.2m) to 8.5ft (2.5m)
Flash OFF (⚡ _⊗)	3.9ft (1.2m) to infinity

Note: The selected option will be marked by (●).

Note: The flash may need time to recharge between images. While it is charging the camera ready LED blinks. When it stops blinking you are ready to take another picture. If the batteries are low, the flash will not work. Please insert fresh batteries.

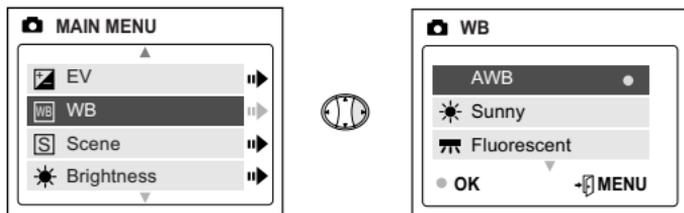
EV - EXPOSURE VALUE



1. In the EV menu, press ◀ or ▶ to toggle between -2.0, -1.5, -1.0, -0.5, 0, +0.5, +1.0, +1.5 and +2.0.
2. Press **MENU** to exit.

(+)	Use this setting for scenes with low light conditions.
(-)	Use this setting for scenes with bright light conditions.

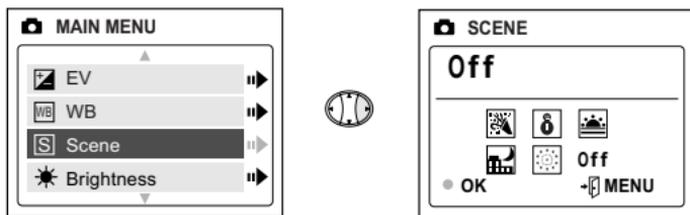
WB (WHITE BALANCE)



1. In the WB (WHITE BALANCE) menu, press ▲ or ▼ to choose between AWB, Sunny, Fluorescent or Tungsten.
2. Press **OK** to select the white balance mode and press **MENU** to exit.

White Balance Option	Explanation
Auto White Balance	The camera will automatically choose the white balance setting.
Sunny	To be used outdoors with sufficient sunlight.
Fluorescent	To be used indoors with fluorescent light conditions.
Tungsten	To be used indoors with tungsten light conditions.

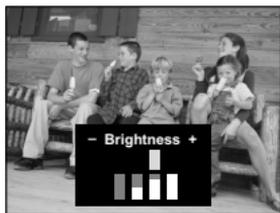
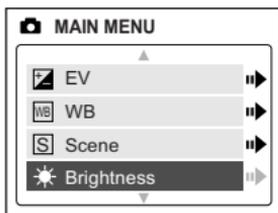
PRESET SCENE SELECTION



1. In the Scene menu, press ▲ or ▼ to choose between Party/Indoor, Beach/Snow, Sunset, Night Landscape, Fireworks and Off.
2. Press **OK** to select the scene mode and press **MENU** to exit.

 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	<p>A slow shutter speed is used to capture the lights in night scenes.</p> <p>Photography Tip: With the slow shutter speed there is a possibility of subject blur due to camera movement. To reduce blurring, you may do the following:</p> <ol style="list-style-type: none">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.4. Press the shutter button.
 Sunset	This mode captures the deep hues and color variations in sunsets and sunrises.
 Fireworks	<p>Use this mode to capture the burst of light from fireworks with a slower shutter speed.</p> <ul style="list-style-type: none">- Due to the slower shutter speed, place the camera on a tripod for better picture quality.

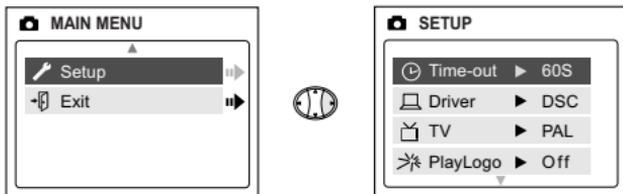
BRIGHTNESS



Use this option to change the LCD brightness.

1. In the BRIGHTNESS menu, press ◀ or ▶ to toggle between the options.
2. Press **MENU** to exit.

SETUP



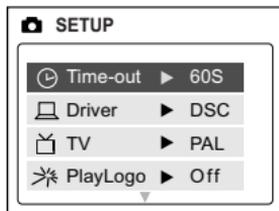
Using the SETUP menu:

1. Use ▲ or ▼ to toggle between the options.
2. When the option is highlighted, use ► to change the setting.
3. Press ▼ to select and scroll to the next option or press **MENU** to exit.

Setup Option	Selection Options	Explanation
Time-out	15, 30, 60, 90	Sets the automatic power off option.
	None	Deactivates the automatic power off option.
Driver	PC	WDM/TWAIN Driver. Use this mode when using ArcSoft PhotoImpression, NetMeeting or other video conferencing software.
	DSC	Mass Storage mode. Use this mode to view your images and video clips using the Mass Storage driver.
TV	NTSC	Sets the mode the camera needs to adapt to your TV.
	PAL	
Play Logo	On/Off	Turns the start up animation on or off.
Language	中文, English, Français, Español, Deutsch, Italiano	Sets the language in your camera.
Default		Sets all camera settings to the factory default.
Format		Formats the internal memory or the MMC/SD by deleting all files.

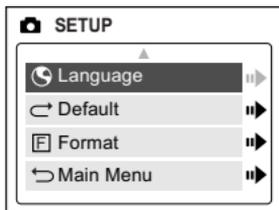
TIME-OUT

To extend battery life, the camera will automatically power off after 60 seconds of inactivity. Use this option to change the default setting.



DRIVER

Please refer to the Transferring Files to the Computer section on P. 38 for further information.



TV

Please refer to the TV Mode section on P. 46 for further information.

PLAY LOGO

Use this option to activate or deactivate the animation that appears on the LCD when the camera is powered on.

LANGUAGE

Use this option to change the language setting in your camera. All menus and messages will be displayed in the selected language.

1. Press ▼ to highlight Language.
2. Press ► to enter its submenu.
3. Press ▲ or ▼ to highlight the language of your choice.
4. Press **OK** to select.
5. Press ▲ or ▼ to highlight No or Yes.
6. Press **OK** to select and to return to the Main Menu.

DEFAULT

To set your camera to its default settings:

1. When the Default option is highlighted, press ► .
2. The camera will reset to the factory defaults.
3. Press **MENU** to exit.

Mode	Default Setting
Size	1600 x 1200
Quality	Fine
EV	0 ()
White Balance	AWB
Scene	Off
Brightness	3 ()
Time-out	60
Driver	DSC
TV	NTSC
Play Logo	Off
Language	English

Note: The default version for TV mode will vary depending on the country where the camera was purchased.

FORMAT

Formatting deletes all files. Use this option to format the internal memory or the MMC/SD.

To format the:

- Internal memory – The MMC/SD card must not be in the camera.
 - MMC/SD – Insert the MMC/SD into the camera.
1. When the Format option is highlighted, press ► to enter its submenu.
 2. Press ▲ or ▼ to highlight No or Yes.
 3. Press **OK** to select.
 4. If Yes is selected, ALL FILES will be deleted.
 5. If No is selected, no change will be made, and you will return to the  Main Menu.

Note: If ERROR! is displayed on the LCD screen, this means that the internal memory or the memory in the MMC/SD is corrupted. Please format the memory to continue.

Digital Zoom

The camera can use up to 4x Digital Zoom to take images.

Using the Digital Zoom:

1. In Camera mode, press (T) to zoom into the subject.
2. Press (W) to zoom out and to return to normal mode.

Size	Max. Zoom
1600 x 1200	4x
1280 x 960	4x
640 x 480	No Zoom

3. REVIEW MODE

In review mode, you can review your captured images and video clips through the LCD.

Using REVIEW mode:

1. Slide the Mode Switch towards .
2. Press  or  to scroll through each file.

File Type	Format
Image	JPG
Video Clip	AVI

Enlargement (JPG)

When viewing images, you may use enlargement to zoom into the stored image.

To use Enlargement:

1. While viewing a JPG file, press **OK** to view the file in 2x Enlargement Mode.
2. Press **OK** to enter 4x Enlargement mode.
3. Press **OK** to return to normal viewing mode.



Note: In 2x and 4x enlargement mode, press  to navigate in the image.

Size	Max. Enlargement
1600 x 1200	4X
1280 x 960	4X
640 x 480	No Enlargement

Viewing Video Clips (AVI)

To view video clips:

1. Press **OK** to play the video clip.



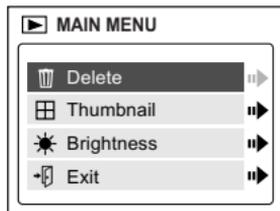
▶ MAIN MENU

To use the MAIN MENU in Review Mode:

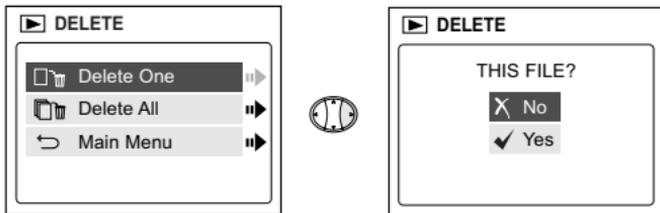
1. Press **MENU** to enter the MAIN MENU.
2. Use ▲ or ▼ to toggle between the options.
3. When the option is highlighted press ▶ to enter its submenu.
4. If you would like to exit any menu, press ▼ until Exit or Main Menu is highlighted to return to the previous menu.

OR

5. Press **MENU** to exit.



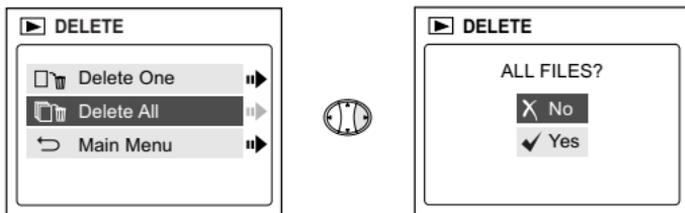
DELETE



To delete one file from the internal memory:

1. When Delete One is highlighted in the DELETE menu, press ▶ .
2. The next screen will read " This File?" Press ▲ or ▼ to highlight No or Yes. Press **OK** to select.
3. If Yes is selected, the file will be deleted.
4. If No is selected, no change will be made, and you will return to the ▶ Main Menu.

DELETE



To delete ALL files from the internal memory:

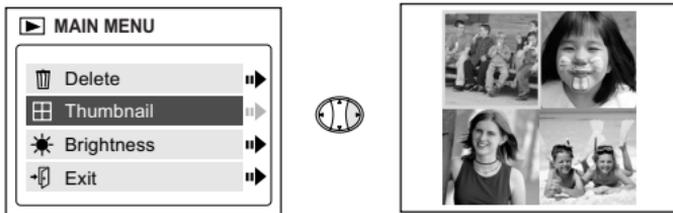
1. When Delete All is highlighted in the DELETE menu, press ► .
2. The next screen will read "All Files?" Press ▲ or ▼ to highlight No or Yes. Press **OK** to select.
3. If Yes is selected, ALL FILES will be deleted.
4. If No is selected, no change will be made, and you will return to the  Main Menu.

To Delete Files from the MMC/SD:

1. Insert the MMC/SD into the camera.
2. Follow the steps above.

Note: Once images have been deleted, you will not be able to recover them.

THUMBNAIL



To view files in Thumbnail mode:

1. When Thumbnail is highlighted in the Main Menu, press to enter the Thumbnail mode.
2. Use to navigate between all of the stored files.
3. Press **OK** to view the selected file.

BRIGHTNESS

Please refer to the Brightness section on P. 28.

4. Software Installation

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

Installing the Camera Drivers and ArcSoft Applications:

1. Insert the CD-ROM included in your camera's packaging into your computer's CD-Rom drive.
2. The installation screen will appear on the computer monitor. Follow the software installation instructions on your screen to install the software.
3. When the CD-Rom installation is finished, set the camera to PC driver mode and connect your camera to the computer to complete the camera driver installation. (P. 40)

Note for Windows 98 First Edition Users:

A "Script" error may be encountered while upgrading DirectX from the Microsoft Web page, if using Internet Explorer version 4.0 or earlier. Please select the "No" option if these errors occur. Please reboot the computer after completing the DirectX update. You may then connect the camera to the computer using the USB cable provided. You may encounter the following message multiple times. (fig 4.1) Please select "Yes" and continue to follow the on screen instructions.

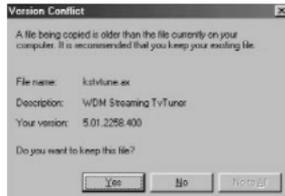


fig.4.1

Note for Windows 2000 Users:

When this window appears (fig 4.2), click [Yes] to continue installation. (This message will also appear for "Universal Serial Bus controllers" and "Visioneer LX200 Video Capture". Click [Yes] to continue the installation.)



fig.4.2

Note for Windows XP Users:

When this window appears (fig 4.3), click [Continue Anyway] to continue installation. (This message will also appear for "Universal Serial Bus controllers", "Visioneer LX200 Mass Storage" and "Visioneer LX200 Video Capture". Click [Continue Anyway] to continue the installation.)



fig.4.3

4. Follow the on-screen instructions to complete the installation.
5. Reboot your computer before transferring files.

NOTE: If your computer has the CD-ROM automatic installation disabled, click on START. Select MY COMPUTER and locate the CD-ROM Drive. Double click on the CD-ROM Drive icon to show its contents. Double-click on the file named SETUP.EXE and follow the instructions on your screen.

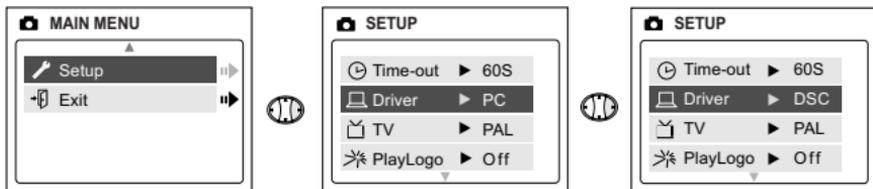
Note for Mac users: It is not necessary to install the software in the CD-Rom. Please refer to p.43-44 for instructions on how to use the Mass Storage feature.

NOTE: Windows 98 first edition users select only PC mode.

5. Transferring Files to the Computer

You can view and store the files you have captured with the camera using your PC. **To download the files for viewing, you must first install the software that comes with your camera.**

Connecting the Camera to the Computer:



1. Select either PC (Windows Only) or DSC in the Setup Menu.
 - Set the Mode switch to .
 - Press the **MENU** button. Use the **▼** button until Setup is highlighted.
 - Press **▶** to enter the Setup menu.
 - In the Setup menu, press **▼** until Driver is highlighted.
 - Press **▶** to select DSC or PC.
2. Connect your camera to the computer using the USB cable provided.
3. Plug the rectangular end of the USB cable that is included with the Visioneer LX 200 into your PC's USB port. Please refer to your computer's documentation for more information on the location of the USB port. (fig.5.1)
4. Open the Cable Connection panel on the camera, by sliding the door in the downward direction, then lift the door.
5. Plug the square end of the USB cable into the USB connector located inside the Cable Connection panel.
6. **When the camera is connected to the computer for the first time, the camera's driver installation will begin. Please follow the on-screen instructions to complete the installation.**

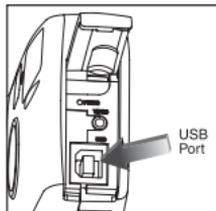


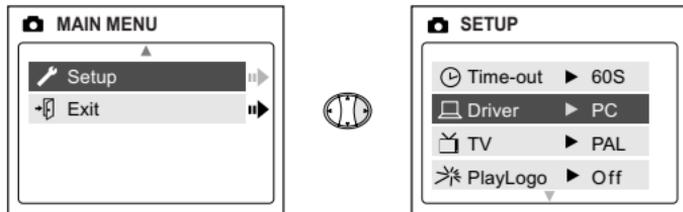
fig.5.1

Windows Only

Using the PC Driver Mode

You may use this mode to view your images with ArcSoft PhotImpression.

This mode allows you to take video clips on your computer and to use the camera as a web camera.



Setting PC Mode in your camera

1. Turn the camera on.
2. In the Setup menu, press ► until Driver is highlighted.
3. Press ► to change the setting to PC.
4. Turn the camera off.
5. Connect the camera to the computer.
6. Launch ArcSoft PhotImpression software by clicking on Start-Programs-ArcSoft Camera Suite and choose PhotImpression from the application list on your screen. (fig.5.2)
7. Click on the [Camera/Scanner] button. (fig.5.2 a)
8. Click on the drop-down list under SELECT SOURCE and choose Visioneer LX200 DC Memory. (fig.5.2 b)



fig.5.2

9. Click on the Camera/Scanner Icon. (fig.5.2 c) A second window will appear showing the contents (pictures) of your camera's memory, and options on how to handle them. (fig.5.2 d)
10. Select the picture(s) you want to retrieve, by pressing the Ctrl key on your keyboard and clicking once on each thumbnail.

OR

Click on Edit-Select All.

Click on Acquire and all pictures will be transferred. (fig.5.2 e)

OR

Click on Edit-File Transfer.

The pictures just retrieved will be placed as thumbnails on the bottom of your application window. To open them, double-click on the thumbnail. (fig.5.2 f)

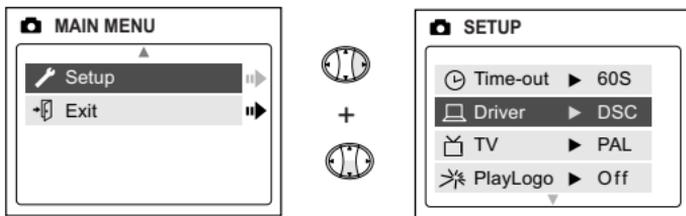
You are now ready to print, store or further enhance your pictures. Refer to ArcSoft's Software Guide for a tutorial on all the features PhotoImpression offers.

NOTE: Windows 98 first edition users select only PC mode.

Note for Windows users: If switching between PC and DSC mode, please unplug your camera from the computer first.

Using the Mass Storage (DSC)

This mode allows the camera to become an external hard disk drive (DSC) and you may view or download images and video clips stored in your camera's internal memory or MMC/SD memory card onto your computer.



Setting Mass Storage in your camera:

1. Turn the camera on.
2. In the Setup menu, press ▼ until Driver is highlighted.
3. Press ► to change the setting to DSC.
4. Turn the camera off.
5. Connect the camera to the computer.
6. Open My Computer to locate the removable disk drive that contains the files in your camera's internal memory or MMC/SD.
7. You may view or download files.

NOTE: Please refer to your computer's documentation for more information on the location of the USB port.

Note: To view your video clips in your computer please complete all the steps in the Software Installation section on p. 38.

Note: If an AVI file cannot be viewed on a computer that does not have the camera drivers installed, please download and install DirectX from www.microsoft.com.

For Mac Users:

1. Set your camera to DSC Mode.
2. Connect your camera to the computer.
3. After a few moments, the external hard drive will appear on the desktop.
4. Open the “untitled” removable drive that is on your desktop and open DCIM to view your files.
5. Click on the file that you would like to view.

Unplugging the camera from the computer

For Windows ME/2000/XP:

1. Click once on the "Unplug or Eject Hardware" icon on the right hand side of your task bar. (fig.5.3)
2. If the camera is in PC Driver mode, select "Stop Visioneer LX 200 USB Driver V 0.1."



fig.5.3

OR

- If the camera is in DSC Driver mode, select "Stop Visioneer LX 200 USB Mass Storage Device."
3. Click [OK] in the "Safe to Remove Hardware" prompt.
4. Unplug the USB from the camera. (fig.5.2)

For Mac:

1. Drag the “untitled” removable drive icon on the desktop to the Trash.
2. Unplug the USB cable from the camera.

Note for Mac users: For better performance, please use the USB port located in the back of your computer.

6. Other Features

Windows Only

Web Camera (PC Mode)

You may also use the Visioneer LX 200 as a web camera and a video conferencing camera. It will work with many popular video conferencing software titles.

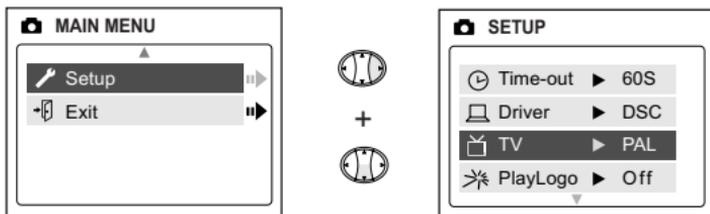
Using the camera as a Web Camera:

1. Follow the steps from the Connecting the camera to the computer section.
2. Launch Microsoft NetMeeting software.
3. To start the video, click on the start video icon.
4. Follow the NetMeeting on-screen instructions, or refer to NetMeeting's Help section.

NOTE: If you do not have NetMeeting already installed on your computer, please visit www.microsoft.com for instructions on how to obtain a copy.

TV Mode

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. In the Setup menu press **▼** until TV is highlighted
2. Press **▶** to change the setting to NTSC or PAL.

Connecting to the television:

1. Connect the AV 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 pressing the **Power** button.
5. Connect the other end of the cable into the **VIDEO** port located underneath the cable connection panel. (fig.6.1)

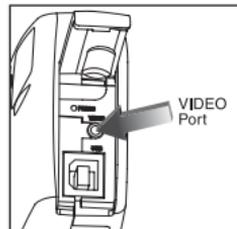


fig.6.1

Using TV Mode

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.

Using the TV Menu:

1. In TV Mode, slide the Mode Switch to .
2. Press **MENU** to view the TV MENU.

FW Version

This will display the Firmware Version that your camera is using.

Delete One

1. When you are viewing a file, press **MENU**.
2. Press  to highlight Delete One.
3. Press **OK** and the file that is in the background will be deleted.

Thumbnail

1. In the TV MENU, press  to highlight Thumbnail.
2. Press **OK** to view all your files in Thumbnail mode.
3. In Thumbnail mode, use  to navigate through your files.

Note: Press **OK** to play a video clip in this mode.

Language

1. In the TV MENU, press  to highlight Language.
2. Press  to change the Language setting.

Time-out

1. In the TV MENU, press ▼ to highlight Time-out.
2. Press ► to change the Time-out setting.

Save

1. In the TV MENU, press ▼ to highlight Save.
2. Press **OK** to Save your changed settings.

Default

1. In the TV MENU, press ▼ to highlight Default.
2. Press **OK** to set the camera to its default settings.

7. Camera maintenance

Cleaning the camera:

Clean the outside of the camera by wiping it with a clean, soft and dry cloth.

Cleaning the lens, viewfinder and LCD:

1. Blow gently on the lens and/or viewfinder to remove dust and dirt.
2. Wipe the lens and/or viewfinder gently with a soft, lint-free cloth or an untreated lens-cleaning tissue.

Note: Do not use cleaning solutions unless they are designed specifically for camera lenses. Do not wipe the camera lens, viewfinder or LCD with chemically treated eyeglass lens tissues as it may scratch.

8. Tips and Troubleshooting

SYMPTOM	POSSIBLE CAUSE	POSSIBLE SOLUTION
POWER		
Cannot turn on the camera.	The battery was not installed correctly.	Install the battery correctly using the direction indicators on the inside of the battery cover.
	Battery is dead or weak.	Replace the battery.
	Battery compartment was not closed correctly.	Close the battery compartment properly.
VIEWING VIDEO CLIPS (.AVI FILES) ON A COMPUTER		
The following message appears on the computer screen when opening an AVI file: "Cannot play back the video stream: no suitable decompressor could be found."	The video stream decompressor is not installed.	Complete all the steps in the installing the software section on page 38. OR Install DirectX from www.microsoft.com
WEB CAMERA		
The video quality is poor.	The video quality setting needs to be changed.	Go to Tools-Options-Video. In the Video Quality section, move the arrow towards Better quality or Faster video for better results.
The video is too slow.		

Tips and Troubleshooting

SYMPTOM	POSSIBLE CAUSE	POSSIBLE SOLUTION
WEB CAMERA/PICTURES/VIDEO CLIPS		
Web camera video/picture/video clip has poor quality.	Poor lighting.	Take web camera/picture/video clip in better lighting.
	Lens is dirty.	Clean lens with a soft cloth. See the Camera maintenance section.
	Subject is too close.	Stand at least 3.9ft (1.2m). away from the subject.
TAKING PICTURES		
Flash picture taken is too light.	Subject is too close.	Move subject further away.
Flash picture taken is too dark.	Subject is too far away.	Move subject closer.
	Flash is not on.	Turn flash on.
Flash did not work	There was sufficient light for the shot and the flash was not needed.	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 on Automatic Flash.
	Flash did not charge.	Verify that the LED has stopped blinking before taking the picture.
	Battery is empty.	Replace the battery.
Picture taken has poor quality.	Subject or camera moved as picture was taken.	Hold camera steady until picture is taken.

Tips and Troubleshooting

SYMPTOM	POSSIBLE CAUSE	POSSIBLE SOLUTION
TAKING PICTURES/VIDEO CLIPS		
Daylight picture/video clip taken is too dark.	The subject is in front of bright light.	Change the subject's position.
Cannot take a picture/video clip.	Memory is full.	Delete all pictures and continue shooting.
		Download photos to your PC and delete photos from the camera's memory.
		Insert a MMC/SD with available memory space.
	Camera is not set to picture/video clip taking mode.	Set the unit to picture/video clip taking mode.
	Power is off.	Turn power on.
	Camera is in "Auto Power Off" mode.	Turn power on.
Image 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.

Tips and Troubleshooting

SYMPTOM	POSSIBLE CAUSE	POSSIBLE SOLUTION
TAKING PICTURES/VIDEO CLIPS		
Camera is not responding during image capture.	The battery level is low and the camera doesn't have enough power to complete the image capture.	Replace batteries.
WHITE BALANCE		
There is something wrong with the color of the captured image.	White Balance is not set properly.	Reset White Balance.
LCD		
The LCD monitor is not clear.	The LCD plastic monitor cover is dirty.	You should clean the LCD monitor cover.
The LCD is not displaying anything.	LCD is turned off.	Turn on the LCD by pressing ⏻ .
	The battery level is low.	Replace batteries.
DOWNLOADING PICTURES TO PC		
Camera is not responding during image downloading to PC.	The operating system may not be allocating adequate resources to download the image.	Reset the camera by opening and closing the Battery & Memory Card Door. Reset the computer.
	There is a TWAIN driver (PC Mode) conflict with other pre-installed devices.	If you have any problems using PC mode, please use Mass Storage (DSC Mode) to download your stored files. (P. 43)

9. Camera Specifications

Lens	9.9 mm f/3.2 glass lens, 5 elements in 5 groups, (Equivalent to 48mm lens on 35mm format)
Focusing	Focus free 1.2m to infinity
Image Sensor	CMOS (1600 x 1200 active pixel), Pixel Pitch 4.2um x 4.2um, 8.4mm array Diagonal.
Image Size	6.72 x 5.04 mm
Image Quality/Image Size	Nine different image qualities to be selected by user. Images are defined with Fine, Normal and Econ with 3 different JPEG compression ratios

	Fine	Normal	Economy
Image Size	1600 x 1200	1280 x 960	640 x 480
JPEG ratios	5:1:1	12:1	24:1

Sensor Output	1600 x 1200 pixels and 30-bit color depth output (aspect ratio is 4 : 3)
Sensitivity	Sensitivity ISO 100 Silver Halide Film
Exposure	Auto exposure, Auto white balance
EV compensation	Menu selection on +/- 2EV in 0.2 steps
Digital Zoom	Digital Zoom up to 4X in 0.2 steps
Image Storage	

Image Quality	Images taken with 7MB (approx.)		
	1600 x 1200	1280 x 960	640 x 480
Fine	8	14	28
Normal	15	33	66
Economy	27	56	114

Preset Scene Selection	Party/Indoor, Beach/Snow, Sunset, Night Landscape, Fireworks and Off
Removable Storage	MMC/SD card slot

Camera Specifications

Output file format	JPEG compression, AVI
Optical Viewfinder	Reversed Galilean type with 85% coverage and 0.45x magnification
Image Review	On 1.6" TFT LCD (resolution 312 x 230) with white LED back lighting and continuous enlargement capability up to 4X
On Screen Display (OSD)Menu on LCD	Display: Frame counter, Battery status User selectable: Flash mode, self-timer, image quality, NTSC/PAL TV mode, image delete indicator, camera live view mode and review mode, video clip, white balance (AWB, Sunny fluorescent tungsten), brightness (4 steps), timeout period, PC driver selection (TWAIN/WDM and Mass storage), Format memory, digital zoom (Continuous up to 4X), multi-language selection, EV Compensation, selection for pre-defined exposure shooting for such as Party/Indoor, Beach/Snow, Sunset, Night Landscape, Fireworks and Off.
Frame Counter	Shown on LCD
Multi Language Support	User selectable UI on LCD OSD menu. The language included Spanish, Italian, German, English, French, Simplified Chinese and Japanese.
Self-timer	Approx. 10s delay with blinking red LED
Flash Unit	<ul style="list-style-type: none">- Flash-off-mode- Auto Flash- Always Flash (for user use in backlight condition)- When USB is plugged-in, strobe charging is disabled- 2.7m maximum distance.- Charge time is less than 7 seconds at room temperature when using new 2x AA alkaline batteries included- Variable Flash output control by photo-diode to allow user to take picture at close distant

Camera Specifications

Power Source	3V 2x AA LR6 batteries
Battery Life	Up to 120 Pictures (approx.)
Power Management	Auto-power-off after 15, 30, 60, 90 seconds or no auto time out (User Programmable) without activity
Dimensions	110 x 62 x 35.9mm
Weight	116.2g (without battery and MMC/SD card)
Connectivity	USB 1.1 connector direct to PC or Mac MMC/SD connector connects to MMC/SD card reader Video connector direct to TV (NTSC / PAL)
Web Camera	WDM for mini port stream driver
Video Mode	PAL or NTSC selectable
System Connectivity	TWAIN Driver, WDM Driver and Mass Storage Driver for Windows 98, Me, 2000, XP Mass Storage Driver for Mac OS 9.x or above
PC Software	Arcsoft PhotoImpression
Image Refresh Rate for Web Camera	22fps
Video Resolution	QVGA, Record & Playback
Accessories	CD-Rom <ul style="list-style-type: none">- Camera Drivers and ArcSoft software- Multilingual User's Guide TV Cable USB Cable Wrist Strap 2x AA Alkaline Batteries Pouch Multilingual User's Guide Multilingual Quick Start Guide

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