

#### 4. Software Installation

***Installing the Camera Drivers and ArcSoft Applications:***

1. Insert the CD-ROM included in your Concord Eye-Q Duo LCD box.
2. The installation screen appears on the computer's monitor. Follow the software installation instructions on your screen to install the software.

**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.

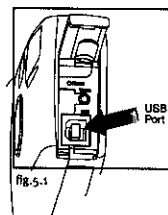
**NOTE:** Do not connect the camera to your computer before the camera drivers and software installation is completed.

## 5. Transferring Photos to the Computer

You can view and store the photos you have captured with the Concord Eye-Q Duo LCD camera using your PC. To download the pictures for viewing, you must first install the software that comes with your camera. (P).

### **Connecting the Camera to the Computer:**

1. Plug the rectangular end of the USB cable that is included with the Concord Eye-Q Duo LCD 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)
2. Open the Cable Connection panel on the Concord Eye-Q Duo LCD, by sliding the door in the downward direction, then lift the door.
3. Plug the square end of the USB cable into the USB connector located inside the Cable Connection panel.



### **TWAIN/WDM Drivers (PC Mode)**

This mode allows you to view images and to take video clips on your computer. Please refer to the Special Features section for more information. (P.)

### **Using PC Mode:**

1. Set your camera to PC Mode. Refer to P. for more instructions.
2. Plug the rectangular end of the USB cable that is included with the Concord Eye-Q Duo LCD into your PC's USB port. (fig.5.1)
3. Open the cable connection panel on your camera by sliding the door outward and then lift the door.
4. Plug the small rectangular end of the USB cable into the USB port in your camera.

### **Mass Storage (HDD)**

This mode allows you to view images and video clips stored in your camera's internal memory or MMC.

#### ***Using the Mass Storage mode to view your files:***

1. Set your camera to HDD Mode. Refer to P. for more instructions.
2. Plug the rectangular end of the USB cable that is included with the Concord Eye-Q Duo LCD into your PC's USB port. (fig.5.1)
3. Open the cable connection panel on your camera by sliding the door outward and then lift the door.
4. Open My Computer to locate the removable disk drive that contains the files in your camera's internal memory or MMC memory card.
5. Click on the file you would like to see and windows will automatically open the file with the required software. (eg. Microsoft Photo Editor, Windows Media Player, etc.)

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

### Using Software to view images (PC Mode only)

1. Launch ArcSoft PhotoImpression software by clicking on Start . Programs-ArcSoft Camera Suite and choose PhotoImpression from the application list on your screen. (fig.5.2)
  2. Click on the [Camera/Scanner] button. (fig.5.2 a)
  3. Click on the drop-down list under SELECT SOURCE and choose Concord EYE-Q Duo LCD. (fig.5.2 b)
  4. 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)
  5. Select the picture(s) you want to retrieve, by pressing the Ctrl key on your keyboard and clicking once on each thumbnail.
- OR
6. Click on Edit-Select All.
  7. Click on Acquire and all pictures will be transferred. (fig.5.2 e)
- OR
8. Click on Edit-File Transfer.
  9. 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 )

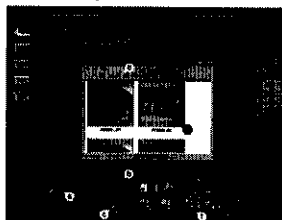


fig.5.2

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:** For better viewing performance use VideoImpression to view videos. See the PC Video Clips section.

## 6. Special Features

### PC Video Clips (PC Mode only)

The Concord Eye-Q Duo LCD has the ability to capture live video clips on your computer by using the ArcSoft VideoImpression software.

#### *To Capture Video Clips on the Computer:*

1. Follow the steps from the Connecting the Camera to the computer sections.
2. Launch the ArcSoft VideoImpression software by clicking on Start-Programs-ArcSoft Camera Suite and choose VideoImpression from the application list on your screen.
3. Click on the NEW icon.
4. Click on the CAPTURE icon.

**Note:** If the video is not being displayed, select "Concord Eye-Q Duo LCD Video Clips" in the Driver List and click on the Live icon to view live video.

#### *Recording Video Clips:*

1. Follow steps 1-4 above.
2. Click on the RECORD icon. To stop recording, press the ESC button on your keyboard or click the PAUSE icon on your screen.

To save your video, simply click on the SAVE icon and follow the on-screen instructions.

To edit, manipulate or create video clips using all the features that VideoImpression offers, refer to ArcSoft's software guide for further instructions.

### Web Camera

You may also use the Concord Eye-Q Duo LCD 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](http://www.microsoft.com) for instructions on how to obtain a copy.

#### *Unplugging the Camera From the Computer (Windows 2000 only)*

1. Click once on the "Unplug or Eject Hardware" icon on the right hand side of your task bar.
2. Select "Stop Concord Eye-Q Duo LCD USB Driver V 0.1".
3. Click [OK] in the "Safe to Remove Hardware" prompt.
4. Unplug the USB from the camera.



fig. 4.2

### TV mode

The Concord Eye-Q Duo LCD camera allows you to view individual photos on the television. To begin, check your television documentation to determine what video standard you should set your camera to, either NTSC or PAL. (Please refer to P. for further information on setting this option.)

#### Connecting to the television:

1. Connect the AV cable supplied with your camera 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) The Main Menu will automatically appear
6. Use the **Menu** button on the back of the camera to scroll through the Main Menu on the television screen. Use the **Shutter** button to confirm your selection.

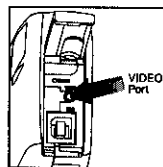


fig.6.1

**Note:** In North America, the TV standard is NTSC.

### Using the Main Menu

In the Main Menu (fig.6.2), use the **Menu** button to scroll through the list and press the Shutter button to select the mode.



fig.6.2

#### > REVIEW

The Review mode allows the user to review the images and video clips stored in the camera's internal memory and MMC. The images and video clips will be displayed from last to first.

#### *To review pictures and video clips in the internal memory:*

1. Press the **Shutter** button to enter the Review mode and the last image or video clip in the memory will be displayed.
2. Press the **Menu** button to scroll through each file.

#### *If the file is an image:*

1. Press the Shutter button to see the options menu in the upper left hand corner of the screen.
2. Press the Menu button to toggle between DELETE and DONE and press the Shutter button to select.

#### > DELETE

1. Press the **Menu** button to toggle between OK and Cancel and press the **Shutter** button to select. If you press OK, the image will be deleted and the next image or video clip will be displayed. If you press Cancel the image will not be deleted and you will return to the image.
2. Press **Menu** to view the next file.

#### > DONE

1. Press the **Shutter** button to select Done.
2. press the **Menu** button to view the next file.



***If the file is a video clip:***

1. The video clip will play automatically until it finishes. Press the Menu button to view the next file.
2. After viewing all images and video clips, DONE will appear on the screen. Press the **Shutter** button to return to the Main Menu.

***To review the contents of your MMC***

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

**Note:** You cannot delete video clips in this mode. Video clips can only be deleted by deleting all the files. Please refer to the ›DELETE ALL section in TV Mode.

**› SLIDE SHOW**

The Slide Show mode allows the user to view all images and video clips in a slide show. The slide show begins with the last image or video clip in the memory and automatically reviews each image or video clip stored.

***To view a Slide Show:***

1. Press the **Shutter** button to see the slide show.
2. When the slide show ends, DONE will appear on the center of the TV screen. Press the **Shutter** button to return to the Main Menu.

**› DELETE ALL**

This mode deletes ALL images and video clips in the memory. Once pictures are deleted, they cannot be restored.

***To Delete All Images and Video Clips from the Internal Memory:***

1. Press the **Shutter** button to enter the Delete mode.
2. Use the **Menu** button to toggle between OK and CANCEL. If you press OK, all images and video clips will be deleted and you will return to the Main Menu. If you press CANCEL, you will return to the Main Menu.

**To Delete All Images and Video Clips from the MMC:**

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

**› INFO**

This mode shows the current batteries and memory information in the camera.

**To go into the Info mode:**

1. Press the **Shutter** button to enter the mode and to review the information.
2. The cursor will be next to Done at the bottom left hand corner of the screen. Press the **Shutter** button to exit.

**Note:** No information can be updated in this mode. This mode is for information purposes only.

**› QUALITY**

In this mode, you can change the default Photo Quality setting of your camera.

**To change the Photo Quality setting:**

1. Press the **Shutter** button to highlight the option.
2. Press the **Menu** button to toggle between, FINE, NORMAL and ECONOMY.
3. Press the **Shutter** button to save.

› **LANG**

English is currently the only language in this mode.

› **TIMEOUT**

The automatic power off time of your camera can be changed or turned off by using the Timeout mode.

*To Adjust the Automatic Power Off Option:*

1. Press the **Shutter** button to highlight the option.
2. Press the **Menu** button to toggle between 15, 30, 60, 90 (seconds) or None.
3. Press the **Shutter** button to save.

› **RESTORE DEFAULTS**

This mode returns the camera to its default settings. It changes the photo quality setting to FINE and the Timeout setting to 60 seconds.

*To Restore Defaults:*

1. Press the Shutter button.
2. The defaults will be updated automatically.

› **SAVE**

When you have made your changes, you must save it in order for the camera to keep your settings. If you do not save your settings, the camera will not update your new settings.

*To Save Your Settings:*

1. Press the **Shutter** button and your new settings will be saved.

*Ending Your TV Mode Session:*

1. Turn the camera off.
2. Disconnect the camera from the TV.

### Interchangeable Face Plates

The Concord Eye-Q Duo LCD comes with an extra removable face plate that allows you to change the look of your camera.

#### *Changing the face plate:*

1. Open the Cable Connection panel by sliding the door in the downward direction and then lifting it until it is open, as displayed in fig.6.3
2. Push down on the **Press** tab and gently lift the face plate to remove. (fig.6.3)
3. Insert the face plate by aligning its tabs with the grooves on the camera as indicated in the illustration and snapping it into place. (fig.6.4)

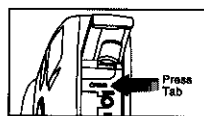


fig.6.3

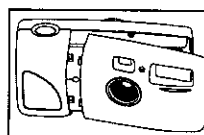


fig.6.4

## 7. Camera maintenance

### ***Cleaning the Concord Eye-Q Duo LCD:***

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

### ***Cleaning the lens and Viewfinder***

1. Blow gently on the lens and/or viewfinder to remove dust and dirt.
2. Breathe lightly on the lens and/or viewfinder to moisten them.
3. 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 or viewfinder with chemically treated eyeglass lens tissues as it may scratch.

## 8. Tips and Troubleshooting

SYMPTOM	POSSIBLE CAUSE	POSSIBLE SOLUTION
<b>POWER</b>		
Cannot turn on the camera.	Batteries were not installed correctly.	Install batteries correctly using the direction indicators on the inside of the battery cover.
	Batteries are dead or weak.	Replace batteries.
	Battery compartment was not closed correctly.	Close the battery compartment properly.
<b>WEB CAMERA</b>		
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
<b>WEB CAMERA/PICTURES/VIDEO CLIPS</b>		
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.
Cannot take a web camera video/picture/video clip.	Batteries are dead or weak.	Replace batteries.
<b>TAKING PICTURES</b>		
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
<b>TAKING PICTURES/VIDEO CLIPS</b>		
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 an MMC card 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.
	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
<b>TAKING PICTURES/VIDEO CLIPS</b>		
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.
<b>DOWNLOADING PICTURES TO PC</b>		
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 door. Reset the computer.

## 9. Getting Help

If you need help with your camera, refer to the Troubleshooting section of this manual. If you still cannot find the solution, visit our Web site at **[www.support.concordcam.com](http://www.support.concordcam.com)**. Most support issues are answered in the Frequently Asked Questions (FAQ) section.

Toll Free in the US and Canada:

- (866) 522-6372

Toll Free in Europe:

- UK: 0800-1696482
- Germany: 0800-1800563
- France: 0800-917599
- Spain: 900-973195
- Italy: 800-781883

Toll:

- 31-53-4829779

For Software Technical Support, 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

E-mail: [support@arcsoft.com](mailto:support@arcsoft.com)

Web: [www.arcsoft.com](http://www.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](mailto:europe@arcsoft.com)

## 10. Camera Specifications

<b>Lens</b>	9.9 mm f/3.2 glass lens, 5 elements in 5 groups, (Equivalent to 44mm lens on 35mm format)
<b>Focusing</b>	Focus free 3.9ft. (1.2m) to infinity
<b>Image Sensor</b>	CMOS sensor (1280 x 960 pixel)
<b>Image Size</b>	7.7 x 5.8 mm
<b>Image Quality</b>	All images are 1280 x 960 (1.3MP) with 3 different JPEG ratios. Fine - 5:5:1 Normal - 12:1 Economy - 24:1
<b>Sensor Output</b>	1288 x 968, 24 bit color depth output
<b>Sensitivity</b>	Equivalent to ~ ISO100 Silver Halide Film
<b>Exposure Range</b>	1/14 seconds to 1/1000 seconds with auto exposure and auto balance
<b>Storage Capacity</b>	8 MB internal flash or NOR type flash memory (for camera firmware storage), 16 Fine, 32 Normal or 60 Economy images can be stored, <b>PLUS</b> virtually unlimited storage capacity with additional MMC cards (sold separately)
<b>Output file format</b>	JPEG compression
<b>Shutter</b>	Electronic variable speed
<b>Viewfinder</b>	Reversed Galilean type with 85% coverage and 0.4x magnification
<b>Status LCD</b>	Frame Counter, Battery status, Flash Mode, Self-timer, Photo Quality, NTSC/PAL TV Mode, Video Clip Mode, Storage, Delete indicator, 2X Digital Zoom
<b>Frame Counter</b>	LCD Counter

### Camera Specifications

<b>Self-timer</b>	10s delay with blinking red LED (7s slow and 3s fast)
<b>Flash Unit</b>	Auto Flash and Flash-off mode
<b>Power Source</b>	3V 2x LR6 AA
<b>Battery Life</b>	Up to 160 Pictures (approx.)
<b>Power Management</b>	Automatic Power off after 60 seconds without activity (User Programmable to 15, 30, 60, 90 seconds or none)
<b>Size</b>	110 x 62 x 30 mm
<b>Weight</b>	112g (without battery and MMC card)
<b>Connectivity</b>	USB connector connects to the PC MultiMediaCard (MMC) connects to the MMC connector Video connector connects to the TV (NTSC/PAL)
<b>Min. System Requirements</b>	Windows 98/ME/2000/XP, Pentium PC with USB port
<b>PC Software</b>	TWAIN Driver, WDM Driver
<b>Accessories</b>	CD ROM Including Multilingual User Manual in PDF format USB Cable Video Cable Wrist Strap 3V 2 AA or LR6 Alkaline battery Pouch Multilingual User Manual Multilingual Quick Start Guide Warranty Card

## 11. Warranty Information

### LIMITED WARRANTY

The manufacturer warrants your Concord Eye-Q Duo LCD camera for a period of 1 year from the date of purchase to be free from defects in material and workmanship. The warranty period shall be extended accordingly if applicable mandatory legislation in effect on the date of purchase requires a longer warranty period. The manufacturer, at its option, will repair or replace or have repaired or replaced, at a location selected by the manufacturer, each product which is proven to the satisfaction of the manufacturer to be defective in material or workmanship. This warranty shall be limited to the camera for defects which were not caused by misuse, abuse, improper handling, tampering or attempts to repair by the owner or any unauthorized repair service or repair man. This warranty is limited solely to the above and applies only for the period set forth. We will not be liable for any loss or damage, incidental or consequential of any kind, whether based on warranty, contract or negligence arising in connection with the sale, use or repair of the product. Our maximum liability shall not in any case exceed the sale price. This warranty is for the benefit of the original purchaser only. This warranty gives you specific legal rights and may vary from jurisdiction to jurisdiction. The manufacturer makes no representation or warranties with regard to the contents of the User's Guide and Quick Start Guide. Non-Concord brand equipment and software and the Concord Eye-Q Duo LCD TWAIN driver distributed with your Concord Eye-Q Duo LCD camera are sold "as is" and without warranty of any kind from Concord, including any implied warranty regarding merchantability, fitness for a particular purpose, and non-infringement of third party rights, and all such warranties are disclaimed. The sole warranty, if any, for non-Concord branded items, if any, is given by the manufacturer or producer thereof.

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