



# ***EZPhone Cam USB***

## **User Manual**

## **FCC STATEMENT**

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. If not installed and used in accordance with the instructions, it 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 doing one or more of the following:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the receiver.
- Connect the equipment to a different power outlet other than the one where the receiver is connected.
- Consult a certified television or radio technician.

## **CAUTION**

To comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules, this device must only be installed on computer equipment certified to comply with the Class B limits.

## **WARRANTY**

In no event will Ezonics Corporation be liable for direct, special, incidental or consequential damages arising out of the use or inability to use this product or documentation even if advised of the possibility of such damages. In particular, Ezonics Corporation shall not have liability for any hardware, software or data stored or used with the product including any costs of repairing, replacing or recovering such hardware, software or data. Product names mentioned in this user guide are trademarks of their respective companies.

The limited warranty period should appear on your warranty card. If not, contact your retailer for information about the limited warranty.

The warranty does not apply nor is exclusive to:

- The damages or problems resulting from misuse, abuse, accident, alteration or incorrect electrical current or voltage.
- Any product without serial number or shipped without its warranty card.
- Any costs for shipping and handling the product to Ezonics Corporation for warranty purposes.
- Normal wear and tear.
- Use of the product outside the borders of the country intended for use.

**All specifications are subject to change without notice.**

## **EZONICS END-USER SOFTWARE LICENSE AGREEMENT**

This is a contract. By installing the Ezonics EZPhone Cam bundled software, you accept the terms and conditions of this license agreement.

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**2. Use of the Software:** **You may** (1) use the software program(s) on any single computer, provided that the software program(s) is in use on only one computer at a time. The software is "in use" on a computer when it is loaded into the temporary memory (i.e., RAM) or installed into the permanent memory (i.e., hard disk) of that computer; (2) make a single copy of the software program(s) for backup or archival purposes; and (3) permanently transfer all your rights to use the software program(s) to another person or legal entity provided that you transfer this Agreement, the software, and all accompanying written materials, provided that you retain no copies of the software program(s) or written materials and that the other party agrees to the terms of this License Agreement. **You may not** (1) make, or have made, any form of copy, whether digital, printed photographic or otherwise, of the software program(s), except insofar as such software program(s) may be incorporated by you into on-screen or printed material; (2) place, or have placed the software program(s) on an electronic bulletin board or other form of on-line service; (3) use, or have used, the software program(s) in any form of pornography, or in any matter which is in any way defamatory of any person or business entity in any such image, or which implies any form of endorsement by the software program(s), its suppliers, its licensors, or any individual or entity depicted in the software program(s); (4) reverse engineer, decompile or disassemble or otherwise attempt to discover the source code of the software program(s); (5) modify, adapt, translate, rent, lease, loan or create derivative works from the software program(s); or (6) export the software program(s) in any form without the appropriate United States and foreign government licenses.

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## **PRODUCT RETURNS**

If you must ship or mail the product to Ezonics Corporation for warranty service, you must prepay shipping/handling costs, insure the product and assume all risks of loss or damage in transit. Ezonics Corporation does not provide any refund policies for end-users. For return or refund policy, please refer to your retailer for more information.

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## Getting to Know Your EZPhone Cam™

### **FLASHING ANTENNA**

*Visually let's you know a friend wants to Video Chat. It's COOL!*

### **BUILT-IN MIC**

*Ensures crystal clear communications between you and your Video Chat buddies.*

### **ONE CALL BUTTON**

*With one simple click, you launch EZVideo Chat software to access your Photo Buddy List.*

### **ADJUSTABLE LENS**

*Allows you to adjust the focus for the best possible pictures - so you look GREAT.*

### **SNAPSHOT BUTTON**

*Works with many of the included software titles to let you snap a quick picture.*

### **SPEAKER**

*Rings when you receive a call. The EZPhone Cam is designed to make Video Chatting EZ.*



# Getting Started with EZPhone Cam™

**Congratulations!** You have just purchased Ezonics EZPhone Cam, the best-valued video USB camera around! The EZPhone Cam will change the way you communicate. It allows you to video chat and capture full motion video and still pictures, the EZ way. You will be amazed at the possibilities.

This EZPhone Cam manual introduces you to the EZPhone Cam and gets you up and running in just a few minutes. Please refer to the Quick Start EZ™ section of this manual for quick and easy-to-follow installation instructions.

Thank you for choosing the Ezonics EZPhone Cam. We hope this product will bring you years of joyful service. For information on our limited warranty, please see the warranty section of this manual.

Your Ezonics EZPhone Cam should come with the following:

- 1 EZPhone Cam USB Camera
- Bundled Software CD:
  - ✓ EZPhone Cam hardware drivers
  - ✓ Ezonics, EZVideo Chat
  - ✓ Ezonics, Greeting Cam Deluxe
  - ✓ Ezonics, EZSuite Interface
  - ✓ Live Express, Video Panel
  - ✓ Live Express, Composer
  - ✓ Live Express, Live Monitor
  - ✓ Live Express, Snapshot
  - ✓ Ulead, iPhoto Express

## Quick Start EZ™

# 1

## Installation of EZPhone Cam USB Camera

**IMPORTANT**: Be sure to install all bundled software and EZPhone Cam driver before plugging the EZPhone Cam to the USB port.

- Turn on your computer.
- Insert the Ezonics software CD.



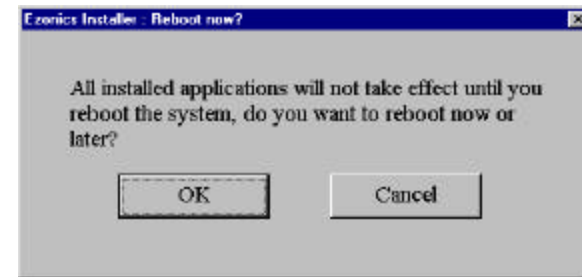
- Wait until Software Installer appears on your screen as shown.
- Click 'Install' to install bundled software and hardware driver.
- Follow the on-screen instructions to complete setup.

Note: In order to install EZPhone Cam properly, you must install the bundled EZVideo Chat software and the EZPhone Cam driver.



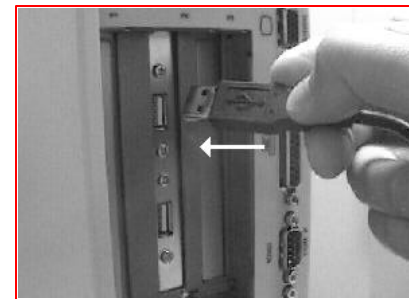


- Restart your system by clicking 'OK.'

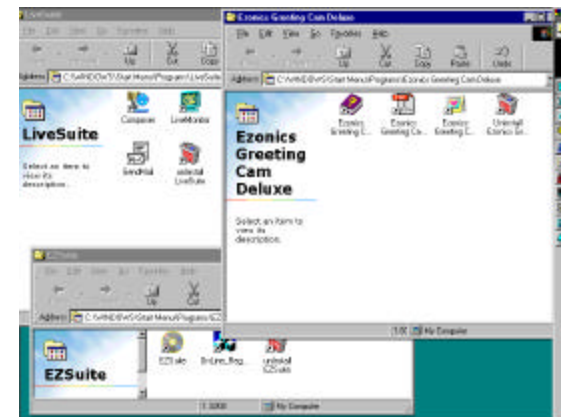


- Plug your EZPhone Cam to the USB port.
- Your EZPhone Cam will be installed automatically.

Note: EZPhone Cam is a USB device which can be plugged and unplugged (hot-swappable) during system start up. However, we recommend you to plug the camera into the USB port **before** or **after** Windows start up to prevent system conflicts.



- The computer will detect and automatically install your EZPhone Cam.
- Click Start>Settings>Control Panel>System>Device Manager under Imaging Device and you should find EZPhone Cam installed.
- Close all opened application windows on your desktop after system restarts.



- EZVideo Chat Connectivity Wizard appears.
- Click 'Continue' to register to our server.

Note: Contact your ISP (Internet Service Provider) if you have problems connecting to our server. EZVideo Chat requires a real IP address in order to function properly.

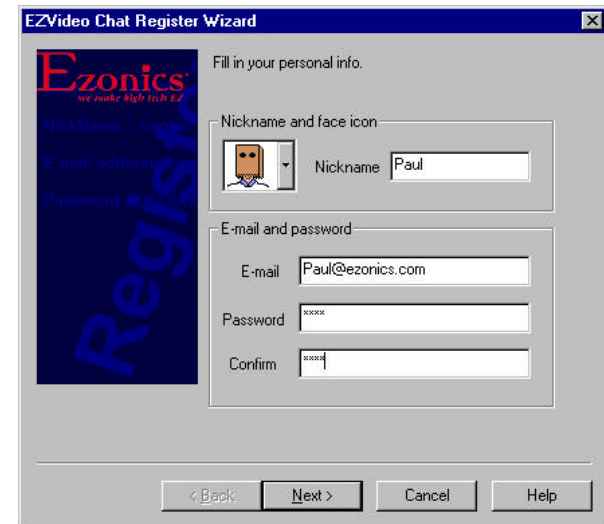


#### a. Register with EZChat Server

- Click the 'Register' to logon to our server for first time use. You will see this logon window when you logon the next time.

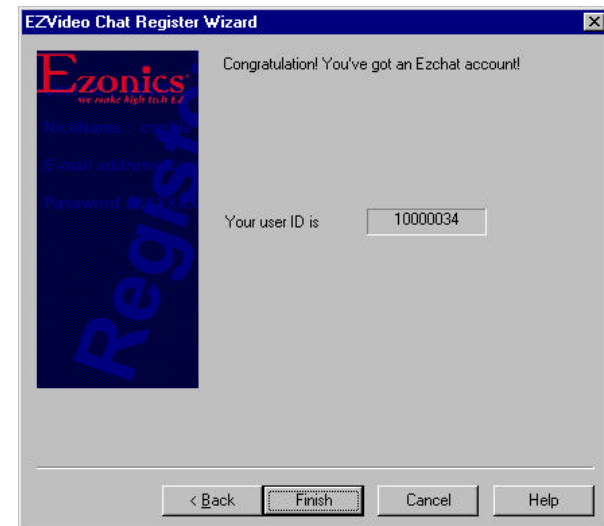


- Follow the on-screen installation instructions and input all fields. Store your password in a separate location for future reference. **You will need your password each time you wish to logon to our server.**



The screenshot shows the 'EZVideo Chat Register Wizard' window. On the left is a blue sidebar with the 'Ezonics' logo and the text 'we make high tech Ez' and 'Register'. The main area is titled 'Fill in your personal info.' and contains two sections. The first section, 'Nickname and face icon', has a dropdown menu showing a face icon and a text field for 'Nickname' containing 'Paul'. The second section, 'E-mail and password', has three text fields: 'E-mail' containing 'Paul@ezonics.com', 'Password' with masked characters 'xxxx', and 'Confirm' with masked characters 'xxxx'. At the bottom are four buttons: '< Back', 'Next >', 'Cancel', and 'Help'.

- Click 'Finish' to complete the registration.



The screenshot shows the 'EZVideo Chat Register Wizard' window at the final step. The sidebar is the same as in the previous screenshot. The main area is titled 'Congratulations! You've got an Ezchat account!'. Below this, it says 'Your user ID is' followed by a text field containing the number '10000034'. At the bottom are four buttons: '< Back', 'Finish', 'Cancel', and 'Help'. The 'Finish' button is highlighted with a dotted border.

- EZVideo Chat software will initialize and setup your server information for chatting.




## b. Start video chatting

- The EZVideo Chat user interface appears and you are now ready to use your EZPhone Cam to call a friend.









## 2

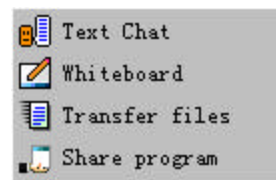
## Basics of Using EZVideo Chat Software



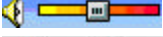
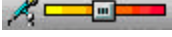
- To start using the EZVideo Chat software, click  to expand Video Window.
- Streaming video image capture from the EZPhone Cam will appear in the Video Panel as shown:










- To expand the EZVideo Chat Control Panel, click the  unfold button.

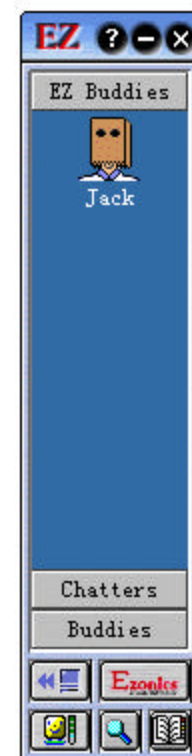
-  Welcome to EZVideo Chat!  
Ready Status Display Center
-  To start/end a call
-  To play/pause streaming video image
-  To enable/disable picture-in-picture
-  For additional features:



-  To send animation to a friend
-  To change video chat options
-  To change audio output volume
-  To change microphone input volume

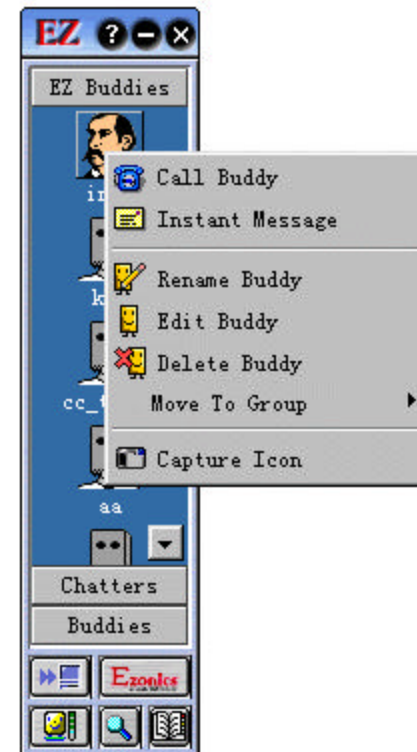
**a. On-line features make chatting more fun:**

-  To open PhoneBook option
-  To close Video Window
-  To access the Ezonic's web site
-  To search for a friend on-line
-  To stay on-line
-  To stay off-line
-  To enable 'Do Not Disturb' (this is to notify a friend that you are busy)




**You may also (by right clicking on the buddy):**

1. Call a buddy
2. Send an instant message
3. Rename a buddy's name
4. Edit a buddy's profile
5. Delete a buddy
6. Move a buddy to a group
7. Capture an icon using on-line still picture capture

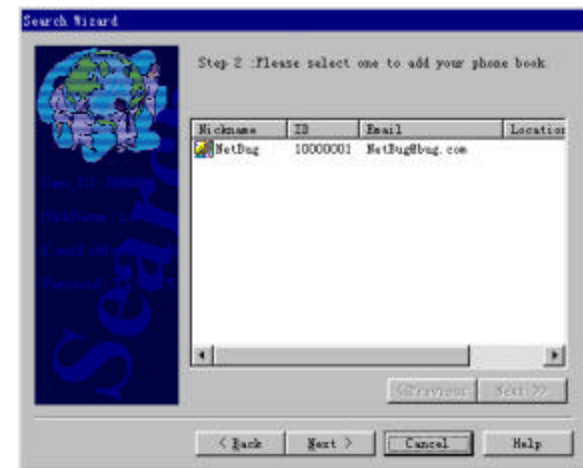


## b. Search for an on-line friend

- Click  to search for a friend on-line by User ID, Nickname or E-mail address.

 A screenshot of the 'Search Wizard' dialog box. The title bar says 'Search Wizard'. The main area has a blue background with a globe and the word 'Search' in large letters. On the right, there's a form titled 'Step 1 :Please select one field to search!'. Under 'Search option:', there are three radio buttons: 'User ID' (selected), 'Nickname', and 'E-mail'. Below 'User ID' is a text box containing '10000021' and the text '8 digits'. Below 'Nickname' is a text box and the text 'Max 50 characters'. Below 'E-mail' is a text box and the text 'Max 63 characters'. At the bottom are four buttons: '< Back', 'Next >', 'Cancel', and 'Help'.

- Click and highlight the buddy you wish to add. Then click 'Next' to continue.




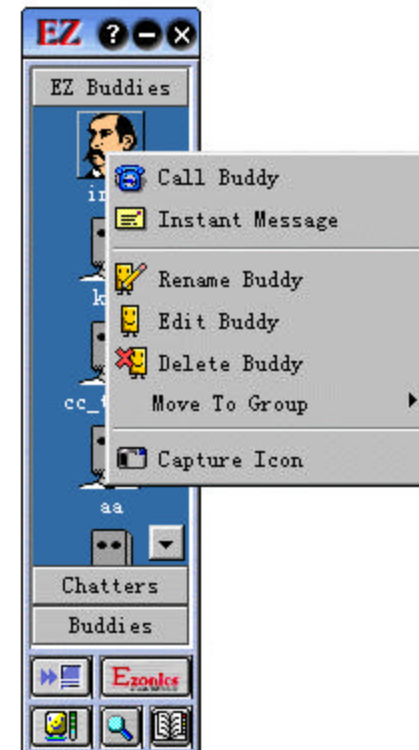
- Server will send your request to your friend and ask for his/her confirmation. Click 'Finish' to add your buddy on the chat list.







**c. Three ways to start a call:**

- Right click on the icon of your friend, then choose 'Call Buddy' from the pop-up menu
- Double click on the icon of your friend under the EZ Buddies list.
- Choose a buddy, then click the  Call/Hang Up button.






 You may access more information such as Instant messages, Video Settings, Edit Buddy and much more by clicking . This will bring you to the EZVideo Chat Help file.

# 3



## The Basics of Capturing and Sending Video E-mail Using Live Express Video Panel

- ❏ Defining your video display and capture settings
  - ❏ Using the control buttons
  - ❏ Recording audio and video files
  - ❏ Capturing an image frame
  - ❏ Installing your own PC microphone
  - ❏ Controlling audio recording
  - ❏ Controlling the sound output
  - ❏ Opening a video/audio file
  - ❏ Saving a video/audio file
  - ❏ Opening other Live Express programs
- 

### Defining your video display and capture settings

1. Click  to display the Video Options panel.
2. Drag the  video quality slider to adjust the level of compression to apply. Setting a high value produces better output display, but in effect, creates larger file sizes as you increase it.
3. Drag the  frame rate slider to specify how many frames to record per second when capturing.
4. Click to open the Video Format dialog box of your capture driver for specifying video compression, frame size, color channels and other settings. This dialog box varies depending on the type of capture driver and

device you have installed on your system.

5. Click  to open the Video Source dialog box for adjusting the colors of capture device, zoom level and other settings to improve capture and device display capabilities. This dialog box varies depending on the type of video capture driver and device you have installed on your system.
6. Click  again to hide the Video Options panel and switch back to the Capture Options panel.

### Using the control buttons



The control buttons are located below the Video Capture panel; they are the Record, Stop, Pause, and Play buttons, respectively. These are the controls you will need for capturing and/or viewing video files. Click the appropriate button to perform the desired action.


### Recording audio and video files



The Video Panel program allows you to choose whether to capture video, audio or both.

1. Check if you have the appropriate channel buttons of the data you wish to include.
2. Adjust your camera to the desired view. Check the display on the Video Capture panel.
3. When satisfied, click the Record button to start capturing.
4. Click the 'Stop' button when done.

## Capturing an image frame

1. Adjust the camera to the desired view. Check the display on the Video Capture panel.
2. Click the  Snapshot button on-screen or directly on the camera.
3. From the Snapshot dialog box, select where to send the captured image frame. Choose from the following options:
  - **Clipboard** copies image data onto the clipboard or memory.
  - **File** opens a dialog box for specifying where to save the captured image.
4. The capturing process starts after you have specified the necessary information in their related dialog boxes. If your captured image is not satisfactory, repeat from step 1.



## Installing your own PC microphone

1. Plug the microphone mini-plug to your sound card's microphone jack.
2. Make sure the microphone is working properly in the Video Panel by referring to the next sections.
3. If audio (sound) comes through the speakers, access Volume Control by clicking Start\ Programs\ Accessories\ Entertainment\ Volume Control\ to mute the microphone playback.
4. If you are experiencing recording difficulties, do the following:


Click Options\ Properties\ Adjust Volume for\ Recording\ to select microphone for recording if no audio is being recorded in the Video Panel.

If you're still experiencing recording difficulties, enable or disable AGC (Auto Gain Control) or boost control by accessing Options\ Properties\ Adjust Volume for\ Recording\ Microphone\ Advanced\.

### Controlling audio recording



1. Click and drag the  Microphone volume control to the desired level. This will determine the capability of your audio capture device's pick-up level while capturing.
2. Click the  Record button (with the Audio Channel active) to test audio capturing level. The sensitivity of your audio recording is reflected on the Audiometer located at the right hand side of the Video Capture panel. (Note: Set the Speaker volume control to mid level for manageable testing.)
3. Click the Play button to listen to the playback.
4. Start the actual recording when satisfied with the volume in the playback.

### Controlling the sound output

1. Click and drag the  Speaker volume control to the desired level.
2. Play an audio file to listen to the volume level. If you hear no sound when the Audiometer indicates audio data, try adjusting the volume control higher or check your speaker's connection.


### Opening a video/audio file

To preview previously saved audio and/or video files:

1. Click  the Open button.
2. Locate the file you wish to play back (\*.exe or \*.wav file).
3. Click Open. This closes the Open dialog box.
4. Click the  Play button.

## Saving a video/audio file

After you have recorded audio and/or video data, you may wish to save them to a file.

1. Click the  Save button.
2. In the Save As dialog box, locate the folder where you wish to save.
3. Specify a file name for the recorded clip.
4. Live Express will automatically detect the file format for saving. Video with audio data is saved to a self-executable file format (\*.exe) and audio data is saved to a wave file format (\*.wav). You may choose to the save a file as an avi file format (\*.avi).
5. Click Save to start the process.

## Opening other Live Express programs

Take advantage of quick access to different programs that are included in the Live Express package. Click the appropriate button to invoke the related program.

**Send Mail:** For sending messages online.

















**Composer:** For still and video image render.



# 4

## Troubleshooting

### Some common problems when installing EZPhone Cam

-  There is no response from Windows when I plug in the camera.
-  When installing the driver for the EZPhone Cam, I get the following message: "USB hardware may not be operational. You may need to enable your USB port in your PC BIOS."
-  When I open up Live Express, I get a "No GSM Support" message.
-  After installing Microsoft GSM 6.10 CODEC, I still get a "NO GSM Support" message.
-  Error message, "Failed sending mail" appears in Live Express Send Mail.
-  When installing EZPhone Cam, I get the following message: "USB Supplement needed" or "USB Supplement is obsolete."
-  I have a VIA Tech VT82C586B or VT82C596 USB port.
-  EZPhone Cam is loaded as an unknown device under 'Device Manager.'
-  My EZPhone Cam's microphone does not work.
-  Setup program executed successfully. However, the system prompts for Windows 98 CD-ROM when I install the camera.
-  The Ezonics EZPhone Cam CD-ROM disc does not automatically run when you insert the disc in the CD-ROM drive.
-  EZPhone Cam and system malfunction (crash) while in video chatting session.
-  After all bundled software are installed, EZVideo Chat software displays "EZVideo Chat did not detect Internet connection" message.
-  My audio and video starts breaking up.

## There is no response from Windows when I plug in the camera.

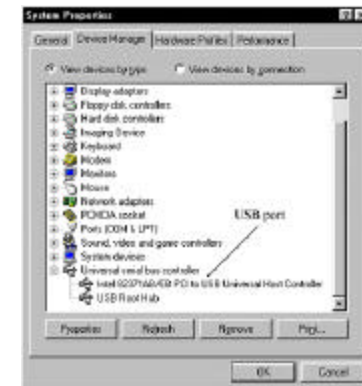
Make sure that your USB port(s) is working properly. **Warning:** You could damage your USB port(s), mainboard and the EZPhone Cam camera if you installed the USB port yourself. Always consult a certified PC technician and have the proper version of Windows 98. To check what version of Windows you have installed, right click on 'My Computer' and click on 'Properties.' You should get the following screen:



Make sure that the version number is 4.00.98 or higher.

Make sure that your USB port is working properly by right clicking on 'My Computer' and clicking 'Properties.' Click on device manager and the USB port should be at the bottom of the list of devices, as illustrated:

Check to make sure that the "USB universal host controller" is listed under the "Universal serial bus controller" category. If it is listed under "other devices" or shows up with a yellow exclamation point next to it, the USB port is not operational.





**When installing the driver for the EZPhone Cam, I get the following message: "USB hardware may not be operational. You may need to enable your USB port in your PC BIOS."**

If you receive this message, you need to contact your system integrator to ensure proper operation of the USB port.

**When I open up Live Express, I get a "No GSM Support" message.**

To correct this, do the following:

1. Go to your Control Panel.
2. Click on "Add New Hardware."
3. Choose **"No"** not to search.
4. At one point it will ask if you wish to choose a device from a list. Click **"yes."**
5. Choose "Sound video and game controller."
6. Under Manufacturers, select "Microsoft Audio CODECS."
7. Under models, select "GSM 6.10 Microsoft Audio CODECS."
8. Click enter and finish the installation procedure. Reboot your system.

**After installing Microsoft GSM 6.10 CODEC, I still get a "NO GSM Support" message.**

Do the following to confirm your GSM CODEC is functioning:

1. Go to your Control Panel.
2. Click on Multimedia.
3. Go to the Devices tab.
4. Find Audio Compression CODECS.
5. Double click on "Audio Compression CODECS."
6. Look for the Microsoft GSM 6.10 Audio CODECS.
7. Double Click on the "Microsoft GSM 6.10 Audio CODECS."
8. Make sure 'Use this audio device' radio button is enabled.
9. Change priority setting to number one then click settings and click Auto-Configure to set Compression and Decompression rate.

**Error message, "Failed sending mail" appears in Live Express Send Mail.**

Verify that Simple Mail Transfer Protocol (SMTP) provided by your Internet Service Provider (ISP) is correct and is in the mail server line of Live Express Send Mail setup.

\*AOL users: Required SMTP not available through American Online (AOL); the Send Mail function in Live Express may **not** be available.

AOL and all Live Express users having SMTP problems can send mail as file attachments by using other E-mail applications provided by the respective ISP.

**When installing EZPhone Cam, I get the following message: "USB Supplement needed" or "USB Supplement is obsolete."**

You need Windows 98, Windows ME or Windows 2000 to operate EZPhone Cam.

**I have a VIA Tech VT82C586B or VT82C596 USB port.**

Visit <http://www.viatech.com/drivers/index.htm> for the **USB Filter Driver** to enhance your USB hardware compliance.

**EZPhone Cam is loaded as an unknown device under 'Device Manager.'**

Check your USB ports under Start/Settings/Control Panel/System/Device Manager to check for your USB function, you may have a malfunctioned USB ports or your USB ports are not enabled. Contact your PC manufacturer for help.

**My EZPhone Cam's microphone does not work.**

Click Start>Programs>Accessories>Internet Tools>NetMeeting; go through the NetMeeting setup wizard and audio tuning wizard (NetMeeting will appear if you already have audio settings tuned). Click on 'Tools' on top of the NetMeeting user interface, then click 'Options' and choose the 'Audio' tab. Under the 'Advanced' button, check to see if your EZPhone Cam is using 'Omni Vision Composite input device.' You may also switch to use your regular microphone from your sound card.

**Setup program executed successfully. However, the system prompts for Windows 98 CD-ROM when I install the camera.**

This limitation is imposed by Microsoft to avoid version conflict and incompatibility issues. **DO NOT** ignore those files.

**The Ezonics EZPhone Cam CD-ROM disc does not automatically run when you insert the disc in the CD-ROM drive.**

The Windows 98 Auto Insertion Notification may not be enabled. Do the following to install the Ezonics bundled software:

1. Double click on the 'My Computer' icon on the desktop area.
2. Right click to your CD-ROM drive.
3. Click Autorun.
4. You should see title screen running.

**EZPhone Cam and system malfunction (crash) while in video chatting session.**

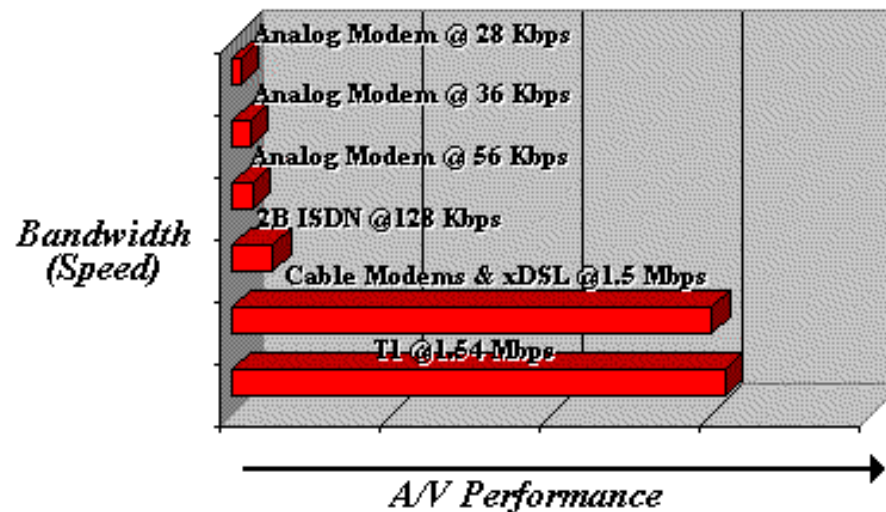
Your EZPhone Cam and Video Chat software utilizes state-of-the-art technologies combined with proven communication protocol and architecture from Microsoft NetMeeting. It is important that your ISP connection speed is at the optimal level for real-time A/V performance.

**After all bundled software are installed, EZVideo Chat software displays "EZVideo Chat did not detect Internet connection" message.**

Contact your ISP (Internet Service Provider) to confirm Internet connection. In order to initialize EZVideo Chat software and logon to Ezonics' server(s) properly, you will need a real IP address assigned by your ISP. For more information about real IP address, contact your Internet provider.

### **My audio and video start breaking up.**

EZVideo Chat Software utilizes the latest technology combining proven communication protocol and Microsoft NetMeeting Architecture to deliver the highest A/V chatting performance. However, performance is largely bandwidth dependent. Please view the following for bandwidth (network speed) comparison.



# 5

## Technical Support

Enjoy and thank you for choosing Ezonics. Should you encounter any technical issues concerning the EZPhone Cam, please visit our web site at **<http://www.ezonics.com>** customer support link for our troubleshooting walk-through.

To better serve you, we encourage you to use our on-line technical, troubleshooting walk-through or troubleshooting guide; there you will find answers to most of your technical issues. We also update our downloadable driver link to post fixes and drivers pertaining to our products.

You can also reach us by e-mail at **[rcenter@ezonics.com](mailto:rcenter@ezonics.com)**. Provide us with the product model, serial number, descriptions of your system and the problem that you are having. The normal turn-around time for e-mail service is 24 hours once the request is received by our technical support engineer.

For after-hours technical assistance, please visit our web site at **<http://www.ezonics.com>** customer support link. Then access our support walk-through service for immediate technical assistance.

For phone support, call us at toll-free 1.800.377.8688. Technical support is available 5 days a week, from 8:30 a.m. to 5:30 p.m., Pacific Standard Time. Toll-free phone support is available for one year from the date of purchase.

## 6

### System Requirements (minimum)

**Note:** *Incompatibility issues may arise due to your computer system's hardware and software configuration.*

- USB Equipped PC (required)
- IBM Compatible PC with 266 MHz (or greater) Intel Pentium CPU
- Minimum 32MB RAM memory (64 MB or better preferred)
- CD-ROM Drive (for drivers and software installation)
- SVGA or VGA monitor capable of displaying 256 colors or higher
- Windows 98, Windows ME or Windows 2000
- Sound Blaster or compatible sound card
- 28.8 Kbps Modem (56 Kbps or above connection for Video Chatting preferred)

## 7

### Lens Cleaning and Image Focusing

- The lens of the camera should rarely need cleaning, but if needed, a dry lint-free cloth is recommended.
- Use the lens focus dial for image focus.
- Use lens pivot module for angular adjustment.

**EZPHONE CAM TECHNICAL SPECIFICATION**

<b>Product type</b>	<b>EZPhone Cam</b>
<b>Interface:</b>	<b>2.0 Meter USB Cable</b>
<b>Sensor</b>	<b>320K pixels CMOS Image Sensor</b>
<b>Resolution</b>	<b>640 x 480 352 x 288 320 x 240 176 x 144 160 x 120</b>
<b>Graphical User Interface:</b>	<b>Multimedia graphical user interface</b>
<b>Lens</b>	<b>Manual focus from 10 cm to infinite</b>
<b>Refresh Rate</b>	<b>Up to 30 frames per second</b>
<b>Video Output</b>	<b>24 bits (RGB), 1420</b>
<b>Shutter Control</b>	<b>Software controlled button for controlling Shutter, changing Video Modes, and adjusting Contrast/Brightness</b>
<b>White Balance</b>	<b>Auto White Balanced</b>
<b>Power Source</b>	<b>5.0V DC @450ma provided via USB Port</b>
<b>Compatibility</b>	<b>TWAIN for acquiring still images Video for Windows and WDM for acquiring video</b>
<b>Operating System</b>	<b>Windows 98, ME, 2000</b>
<b>Dimensions</b>	<b>116 x 60 x 51 mm (H x W x D)</b>
<b>Weight</b>	<b>390 grams</b>
<b>Warranty</b>	<b>One Year (see warranty details)</b>
<b>Technical Support</b>	<b>One Year Toll-free phone support (from the date of purchase)</b>

**Design and specifications are subject to change without notice.**