



## About This Guide

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### Overview

The *PictureTel Live200 for Windows NT Product Guide* describes Live200 windows, toolbars, and menus. It also defines the key terms you need to know to use Live200 and contains information about the Live200 preferences and hardware and communications settings. Review this online product guide before accessing Live200 to familiarize yourself with the product before you use it.

Step-by-step instructions about using Live200 operations, commands, and menu options are in the online help. Access the online help while using Live200 to immediately obtain the instructions you need to complete tasks.

Click the following links for more detailed information about:

- [Audience](#)
- [Information Summary](#)
- [Using Online Help](#)
- [Reviewing the README File](#)

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### Audience

The audience for this guide is the person who uses PictureTel Live200 for video, audio, and data conferencing calls. You should have a working knowledge of Microsoft® Windows®NT and how to use applications within the Windows NT environment.

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# Information Summary

The *PictureTel Live200 for Windows NT Product Guide* includes the following information:

- [Live200 Components](#)
  - [Terminology](#)
  - [Live200 Calls](#)
  - [Navigation within Live200 Main Window](#)
  - [Navigation within Live200 Video Windows](#)
  - [Live200 Address Book Lists](#)
  - [Live200 Preferences](#)
  - [Troubleshooting](#)
  - [Hardware and Communication Settings](#)
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## Using Online Help

Live200 provides quick and easy access to information about operations, commands, and menu options. Step-by-step procedures on how to use all features of the Live200 system are documented in the PictureTel Live200 online Help, which is available by any of the following methods:

- Click the **Help** button in a window or dialog box.
  - Click your right mouse button on an item to access **What's This** Help. This type of help provides a brief pop-up window for a specific control or option in a window or dialog box.
  - Choose **Help Topics** from the Help menu in the Main toolbar to access the Live200 Help Topics window.
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## Reviewing the README File

The README file is an HTML file that you can view online or print. The README file documents changes that occurred in Live200 since the printing of this guide.

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# Introducing PictureTel Live200 for Windows NT

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## Overview

PictureTel Live200 for Windows NT is a personal videoconferencing system that you can use to conduct meetings and share data with users of any H.320-compliant videoconferencing system. Live200 for Windows NT offers full-color, full-motion, live video and audio communications, as well as interactive information sharing using Microsoft NetMeeting. When you are not in a videoconference, you can use the Live200 board to access the Internet and gain remote access to other systems at speeds of 64 kbps or 128 kbps.

Click on the following topics for a description of the PictureTel Live200 components and its compatibility with other desktop videoconferencing systems.

- [Software Component](#)
  - [Hardware Component](#)
  - [Video Camera](#)
  - [Audio Device](#)
  - [Optional Equipment](#)
  - [Compatibility](#)
- 

## Software Component

PictureTel Live200 software runs under Microsoft Windows NT 4.0. It uses toolbars, pull-down menus, keyboard shortcuts, and other standard features of Windows NT software. For step-by-step instructions on installing the software, see the *PictureTel Live200 for Windows NT Installation Guide*.

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## Hardware Component

The Live200 board gives your computer the specialized processing power it needs to send and receive live video images and audio signals. The Live200 board also provides the interface your computer needs to connect to a standard ISDN BRI (Basic Rate Interface) digital communication network.

For step-by-step instructions on installing hardware, see the *PictureTel Live200 for Windows NT Installation Guide*.

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## Video Camera

The Live200 video camera is a miniature color camera for the desktop environment. The camera mounts either on top of your computer monitor or on an overhead shelf, depending on your desktop requirements.

The camera has an up and down tilting base that lets you adjust its position.

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## Audio Device

The Live200 system can be used with the single earpiece that has an attached microphone or with the external microphone with multimedia speakers. You can also use the speakers and a microphone from another manufacturer.

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## Optional Equipment

You can connect optional equipment, such as a PictureTel speakerphone, to the Live200 system. You can also use the optional dual-input video cable to connect another video source, such as a document camera.

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## Compatibility

### Desktop Videoconferencing Systems

PictureTel Live200 is compatible with the following desktop videoconferencing systems:

- PictureTel Live50™
- PictureTel Live100™
- PictureTel Live200™ for Windows 95
- PictureTel LiveLAN™

### Group Videoconferencing Systems

Live200 is compatible with the following group videoconferencing systems:

- PictureTel System 1000™
- PictureTel System 4000™
- Venue 2000™
- Concorde 4500™
- SwiftSite™
- Data conferencing compatibility with PictureTel GroupShare using T.120 functionality.

**Note:** See the README file for the release version numbers of the PictureTel products.

You can also make video, audio, and data calls to other videoconferencing systems from various manufacturers based on the H.320 international standard.

# Live200 Calls

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## Overview

You can use Live200 to connect with other users of any H.320-compliant videoconferencing system to communicate interactively in real-time. Using Live200, you can conduct meetings and share data with the other participants in the call. You connect with other users by dialing numbers to make calls, just like you do when using a telephone; only with Live200 you can make different types of calls: video, audio and data; video and audio; and audio only.

Click the following links for more detailed information about:

- [Video Calls](#)
  - [Audio-Only Call](#)
  - [Answering a Call](#)
  - [Rejecting a Call](#)
  - [Adjusting your Ring Volume](#)
  - [Ending a Call](#)
  - [Call Log](#)
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## Video Calls

Video calls enable each participant in the call to see each other in a window on their computer, to carry on an audible conversation, and to share onscreen data. With Live200, you can make point-to-point video calls.

Point-to-point calls are between you and one other participant.

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## Audio-Only Call

An audio-only call does not send your video image to your calling partner but lets you talk back and forth. You make an audio-only call through the ISDN network transport.

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## Answering a Call

You can choose to manually or automatically answer a call.

To manually answer a call:

1. Click **Answer Call** in the Incoming Call dialog box.

To automatically answer a call:

1. Choose **Preferences** in the **Tools** menu.
2. Select **Auto answer incoming calls** in the Call tab of the Preferences window.

**Note:** If your system is set to automatically answer incoming calls, anyone can place a call to your site and interrupt a meeting in progress or look at equipment and whiteboard notes left in an empty room.

If the person calling you is listed in your address book list, the name of that person is identified in the Incoming Call dialog box (this is called Caller ID).

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## Rejecting a Call

If you do not want to answer a call, click **Reject Call** in the Incoming Call dialog box. The caller receives a message that you are not available to answer the call and the dialog box on your screen automatically closes when the caller hangs up.

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## Adjusting Your Ring Volume

Your computer notifies you by ringing when you have an incoming call. You can increase or decrease the volume of your computer's ring or turn it off.

If you set up your computer to manually answer a call, and you turn off the ringer, you are alerted that you have an incoming call by the Incoming Call dialog box. If you set up your computer to automatically answer a call and you turn off the ringer, you cannot be alerted that you have an incoming call.

**Note:** You can adjust the ringer volume for external speakers, such as the multi-media speakers or the earpiece, using the Call Preferences tab in the Preferences window, but not for speakers that are internal to the PC.

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# Ending a Call

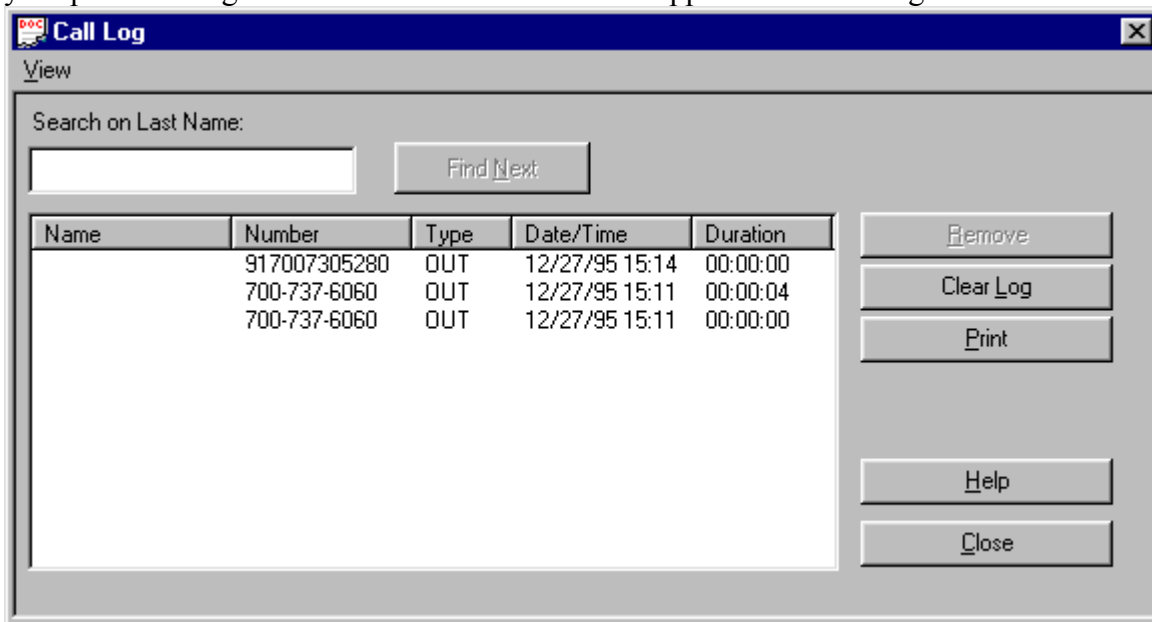
Click the **Hangup** button in the Remote Video window or choose **Hangup** in the Main toolbar to end a call with your calling partner. You can also wait until your calling partner hangs up. Once your calling partner is disconnected, the call ends.

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# Call Log

The call log list automatically keeps track of every incoming and outgoing call that you make with PictureTel Live200. It does not log calls that fail to connect. The call log list displays information from the call log database about your incoming and outgoing calls.

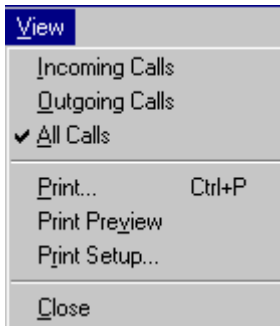
Use the call log list to retrieve ISDN numbers that you need and might have forgotten. You can also compare your phone bill against the call duration times that appear in the call log list.



The Call Log list displays the following information:

- Name of your calling partner
- ISDN number you dialed
- Type of call (incoming or outgoing)
- Date and time of the call
- Duration of the call in hours, minutes, and seconds

The **View** menu in the Call Log dialog box provides the following choices:



- **Incoming Calls** displays only calls that you have received.
- **Outgoing Calls** displays only calls that you have made.
- **All Calls** displays all calls that you received and made.
- **Close** exits the Call Log dialog box.
- **Print** opens the Print dialog box.
- **Print Preview** opens the document in the Print Preview window.
- **Print Setup** opens the Print Setup dialog box.

# Navigating Within the Main Window

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## Overview

You can navigate within the Live200 application by using the Main toolbar. The Main toolbar contains buttons and menu commands that you can use to immediately access all Live200 functions.

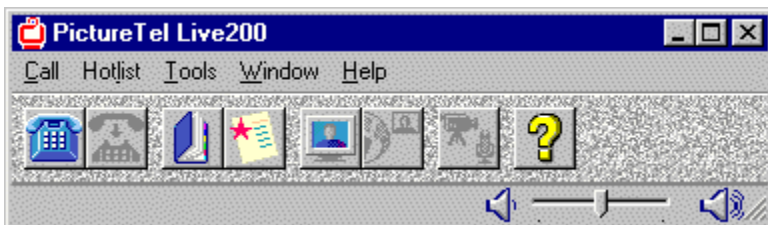
Click the following links for additional information:

- [Main Toolbar](#)
- [Main Toolbar Buttons](#)
- [Additional Main Toolbar Buttons](#)
- [Status Line](#)
- [Call Menu](#)
- [Hotlist Menu](#)
- [Tools Menu](#)
- [Window Menu](#)
- [Help Menu](#)

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## Main Toolbar

Once you start PictureTel Live200, the Main toolbar appears.



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## Main Toolbar Buttons

The buttons on the Main toolbar are set with the default button settings. You can change and customize the Main toolbar buttons at any time. See [Setting Preferences](#) or the online help for instructions on customizing the Main toolbar



The **Make Call** button lets you make audio, video and data calls over a phone line network connection.



The **Hang up** button disconnects audio, video and data calls.



The **Address Book** button opens the Address Book window, which provides flexible telephone directories for storing phone numbers and other information about other individuals.



The **Hotlist** button provides a speed-dialing list for your most frequently called phone numbers. It also contains the most recently dialed numbers.



The **Local Video** button opens the Local Video window, which displays the image that you are sending to your calling partner and brings it to the top.



The **Remote Video** button opens the Remote Video window, which displays the image that your calling partner is sending you and brings it to the top.



The **Audio/Video Mute** button turns off both the microphone and the camera so your calling partner cannot hear or see you. A red circle superimposed on the button means off.



The **Help** button opens the Help Contents window, which provides help on Live200 features.

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## Additional Main Toolbar Buttons

You can add the following buttons to the Main toolbar using the Toolbar tab in the Preferences dialog box. See the online help or [Setting Preferences](#) for more information.



The **Audio Off** button lets you turn off your microphone so that your calling partner cannot hear you or local conversations. A red circle superimposed on the button means off.



The **Video Off** button lets you turn off the video image so that your calling partner cannot see you. A red circle superimposed on the button means off.



The **Context-Sensitive Help** button turns your pointer into a help icon that you can use to get help on Live200 functions.



The **Hardware Settings** button opens the Hardware Settings window, which lets you change your audio, video, audio compression, video compression, network, and data rate settings. You can also view information about the Live200 board, such as revision levels.



The **Call Log** button opens the Call Log window, which provides historical information about incoming and outgoing calls.



The **Diagnostics** button opens the Diagnostics dialog box, which lets you test your software and view call statistics.



The **Communications** button opens the Communications window, which lets you enable or disable ISDN communications.



The **Preferences** button modifies various application features.

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## Status Line

The Status Line in the Main toolbar provides information about the current status of your Live200 system.

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## Call Menu

The **Call** menu provides the following options:

- **Make call** opens the Make Call dialog box, which lets you make an audio, video and data call.
- **Hang up** disconnects a video, audio, or data call.
- **Address Book** opens the Address Book window, which provides flexible telephone directories for storing phone numbers and other information about other individuals.
- **Exit** closes the Live200 application.

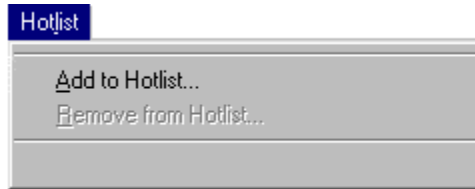


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## Hotlist Menu

The **Hotlist** menu lets you speed-dial a list of frequently-called phone numbers and access previously dialed numbers.

- **Add to Hotlist** adds a person's name and phone number to the Hotlist menu.
- **Remove from Hotlist** removes a person's name and phone number from the Hotlist menu. Most recently dialed numbers appear on this menu.



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## Tools Menu

The **Tools** menu provides the following options:

- **Preferences** lets you customize the Live200 working environment.
- **Communications** lets you change the type of protocol the ISDN transport uses.
- **Hardware Settings** let you change your audio, video, audio compression, video compression, network, and data rate settings. You can also view information on the Live200 board, such as revision levels.
- **Call Log** keeps a record of incoming and outgoing calls such as the name of the person, date, time, and duration of the call.
- **Diagnostics** lets you test your software and view call statistics.



## Window Menu

The **Window** menu provides the following options:

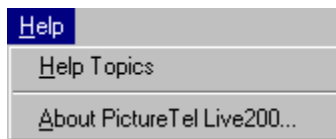
- **Local Video** lets you open the Local Video window, which displays the video image you are sending to your calling partner. If the window is already displayed, then it brings it to the front.
- **Remote Video** lets you open the Remote Video window, which displays the video image your calling partner is sending to you. If the window is already displayed, then it brings it to the front.



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## Help Menu

The **Help** menu lets you access online help for all Live200 functions, and provides the version number of the program.



# Navigating Within the Video Windows

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## Overview

You can navigate within the Live200 video windows by using the video windows' toolbars and menus. The toolbars contain buttons and menu commands that you can use to immediately access all Live200 video window functions.

Click the following links for additional information:

- [Local Video Window](#)
- [Local Video Camera](#)
- [WorldCam](#)
- [FlipCam](#)
- [Local Video Window Toolbar](#)
- [Snapshots](#)
- [Additional Local Video Window Toolbar Buttons](#)
- [Local Video Window Menus](#)
- [Remote Video Window](#)
- [Remote Video Camera](#)
- [Remote Video Window Toolbar](#)
- [Additional Remote Video Window Toolbar Buttons](#)
- [Remote Video Window Menus](#)
- [Arranging Your Video Windows](#)
- [Selecting the Video Source](#)
- [Turning Off Your Video Camera](#)
- [Adjusting Your Audio Level](#)

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## Local Video Window

The window that displays the video image you are sending to your calling partner is called the Local Video window. You can view the image that you are sending before and during a video call.



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## Local Video Camera

You send a video image to your calling partner by using the local video camera, like a WorldCam, FlipCam, or any other type of video camera. You can also use Live200's optional dual-input video cable to connect another video source, such as a document camera.

You can tilt the camera to center the image you are sending. If you are using a camera that does not have control buttons on it, you can increase or decrease the brightness level of your video image using the buttons in the Local Video window toolbar. You can also adjust the color and contrast levels by adding these buttons to the Local Video window toolbar or by adjusting their sliders using the Video tab of the Hardware Settings dialog box.

You can also make adjustments from the Windows NT Control Panel. See [Changing Your System Settings](#) in the online help for information.

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## WorldCam

If you are using the WorldCam camera, adjust the focus using the Focus knob on the camera. You increase or decrease the brightness level of the image using the Contrast buttons on the camera. It is recommended that you keep the brightness and contrast sliders in the Video Settings sheet at the default positions and adjust the video image using the controls on the WorldCam.

When you turn on the WorldCam, it powers up in manual exposure mode. For most videoconferencing situations, manual mode is preferred. However, you can switch the camera to automatic exposure mode by pressing the two Contrast buttons at the same time. Pressing the Contrast buttons switches the camera between manual and automatic mode. When the camera is in automatic mode, it compensates for large variations in lighting. However, this can slow down the video frame rate and decrease the quality of the video image. It is recommended that you operate the WorldCam in manual mode for the optimum video image.

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## FlipCam

If you are using the FlipCam camera, adjust the focus lever marked  to sharpen the focus. To widen or narrow the camera's field of view, adjust the zoom lever marked . When you change the zoom setting, you usually must refocus as well. To lighten or darken the picture, adjust the brightness (iris) lever, marked .

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## Local Video Window Toolbar

You can use the following buttons in the Local Video window toolbar to immediately access a feature. Each button is a shortcut way of choosing a menu item.

## Toolbar

## Description



The **Image Size** box lets you automatically resize the Local Video window. The choices are Small, Medium, and Large. If you manually resize this window by dragging the bottom right-hand corner, the video window dimensions are displayed in the box. You can also set the default sizes for Small, Medium, and Large in the Video Window sheet from the Preferences dialog box.



The **Increase Brightness** button increases the balance of light and dark shades of your image in the Local Video window.



The **Decrease Brightness** button decreases the balance of light and dark shades in the Local Video window.



The **Snapshot** button lets you take a still image, similar to an electronic photograph and displays it using the Windows Paint application.



The **Select Video Source** button lets you choose which local video source you want to send. For example, you might want to use another camera to focus in on the details of a document. This button lets you select the document camera as the video source.

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## Snapshots

A snapshot is a still image similar to an electronic photograph. You can take a snapshot from the Local and Remote Video windows and include the snapshot in the Address Book.

When you click the **Snapshot** button the current image in the window is captured as a still image and is displayed in the Windows NT Paint application. Each time you click the Snapshot button or choose Snapshot from the menu, a window appears displaying the new snapshot. You can edit the snapshot using the Paint editing tools.

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## Additional Local Video Window Toolbar Buttons

You can add the following buttons to the Local Video window toolbar using the Toolbar sheet in the Preferences dialog box. See the online help or [Setting Preferences](#) for more information.

## Toolbar

## Description



The **Increase Contrast** button increases the range between the lightest tones and the darkest tones of your image in the Local Video window.



The **Decrease Contrast** button decreases the range between the lightest tones and the darkest tones of your image in the Local Video window.



The **Increase Color** button increases the color mixture of your image in the Local Video window.



The **Decrease Color** button decreases the color mixture of your image in the Local Video window.

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# Local Video Window Menus

You can use the menu bar within the Local Video window to access the following menus:

## Menu

## Description

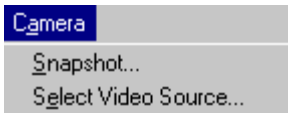
The **Image** menu provides the following options that let you change the size of the Local Video window:



- **Small**
- **Medium**
- **Large**

You can also change the size of the Local Video window by dragging the lower right-hand corner of the window border. Live200 provides an aspect ratio similar to your monitor's aspect ratio. The aspect ratio is the relationship between width and height.

The **Camera** menu provides the following options:



- **Snapshot** takes a snapshot of the image in the Local Video window.
- **Select Video Source** lets you select the video source to use during a call.

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## Remote Video Window

The window that displays the video image of your calling partner is called the Remote Video window. Once you are connected, and your calling partner answers your call, the Remote Video window appears on your PC.



You can change the size of the Remote Video window by dragging the lower right-hand corner of the window border.

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## Remote Video Camera

If you are calling a system that supports H.281 far end camera control, such as a PictureTel group system, you can adjust the remote camera, provided the camera has pan/tilt/zoom (PTZ) capabilities.

You can use the **Remote Camera Control Preset** buttons to associate the remote camera position with a button. For example, if you are in a call where you are using a whiteboard to present information, you can preset a button so that when it is clicked, the camera focuses on the whiteboard. This saves time since you do not have to adjust the camera in the middle of the call.

The preset locations are saved on the remote video camera, not on your PC. Therefore, it is possible for your calling partner to change the settings for a preset number that you might have set during the current call or a previous call. If you are in a call with a group system, it is also possible that your ability to change the remote camera's preset number buttons might be disabled. The Remote Camera Control Preset buttons do not appear in the Remote Video Window if the remote system does not support remote camera control or has disabled it. The Remote Camera Preset buttons need to be set on each system being used.

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## Remote Video Window Toolbar

You can use the following buttons in the Remote Video window toolbar to immediately access a feature. Each button is a shortcut to choosing a menu item.

## Toolbar

## Description



The **Image Size** box lets you automatically resize the Remote Video window. The choices are Small, Medium, and Large. If you manually resize this window by dragging the bottom right-hand corner, the window dimensions are displayed in the box. You can also set the default sizes for Small, Medium, and Large in the Video Window sheet from the Preferences dialog box.



The **Hang up** button disconnects a video, audio, or data call.



The **Audio Off** button lets you turn off the microphone so that your calling partner cannot hear you or local conversations. A red circle means off.



The **Video Off** button turns off the video image so that your calling partner cannot see you. When you turn off your video the image in the Local Video window is black. A red circle means off.



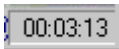
The **Snapshot** button takes a still image, similar to an electronic photograph and displays it using the Windows Paint application.



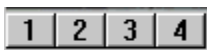
The **Remote Camera Control** button lets you pan, tilt, and zoom the remote camera when calling a remote system that supports remote camera control, such as a PictureTel group system. You can also use the mouse to control the remote camera.



The **Volume control slider** lets you adjust the volume of the audio that you are receiving from the your calling partner. Sliding the control to the left decreases the volume. Sliding the control to the right increases the volume.



The **Call duration counter** records the length of time of your call by displaying the hours, minutes, and seconds.



The **Remote Camera Control** preset buttons appear when the camera at the far end supports H.281 far end camera control. You can associate a remote camera position with a button. When you click a preset button the camera automatically focuses on the position that you set.

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## Additional Remote Video Window Toolbar Buttons

You can add the following buttons to the Remote Video window toolbar using the Toolbar sheet in the Preferences dialog box. See the online help or [Setting Preferences](#) for more information.

## Toolbar

## Description



The **Audio/Video Mute** button turns on/off both the microphone and the camera so that your calling partner cannot hear or see you.



The **Select Video Source** button lets you choose which remote video source you want to receive. For example, your calling partner might want to use another camera to focus in on the details of a document. This button lets you choose a document camera as the remote video source, if your calling partner has more than one connected.

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## Remote Video Window Menus

You can use the menu bar within the Remote Video window to access the following menus:

The **Call** menu provides the following options:



- **Hang up** disconnects a video, audio, or data call.
- **Audio Off** turns off the microphone so that your calling partner cannot hear local conversations.
- **Video Off** turns off the video image so that your calling partner cannot see you.

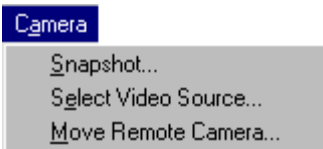
The **Image** menu provides the following options that let you change the size of the Remote Video window:



- **Small**
- **Medium**
- **Large**

You can also change the size of the Remote Video window by dragging the lower right-hand corner of the window border.

The **Camera** menu provides the following options:



- **Snapshot** takes a snapshot of the image in the Remote Video window and displays it in the Windows NT Paint application.
- **Select Video Source** lets you select the video source to use during a call.
- **Move Remote Camera** lets you adjust the remote camera, provided the camera supports H.281 far end camera control.

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## Arranging Your Video Windows

You can resize and save the position of the Local and Remote Video windows. You can automatically resize the windows by selecting either **Small**, **Medium**, or **Large** from the Image Size box in the Local Video or Remote Video windows. You can manually resize the windows by dragging the lower right-hand corner of the window border.

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## Selecting the Video Source

You can select the video source you want to use during a call by clicking the **Select Video Source** button or choosing **Select Video Source** from the Camera menu in the Local Video or Remote Video windows. When you are in the Local Video window, you can select the local video source. When you are in the Remote Video window, you can select the remote video source. For example, you might want to switch to a document camera during the call.

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## Turning Off Your Video Camera

You can turn off your video camera by clicking the **Video Off** button or choosing **Video Off** from the Call menu in the Remote Video window. If you are using the WorldCam or the FlipCam, you can also close the privacy shutter on the front of the camera so that the your calling partner cannot see your image.

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## Adjusting Your Audio Level

You can adjust the audio level you receive from your calling partner by clicking the volume control in the Remote Video window. You can turn off the audio you are sending by clicking the **Audio Off** button in the Remote Video window or by clicking **Audio Off** from the Call menu.

# Address Book Lists

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## Overview

Address book lists are flexible telephone directories that let you automatically make calls without having to manually dial numbers. You can create one or more address book list. Each list can contain entries that have an individual's name, address, phone number, and other connection information.

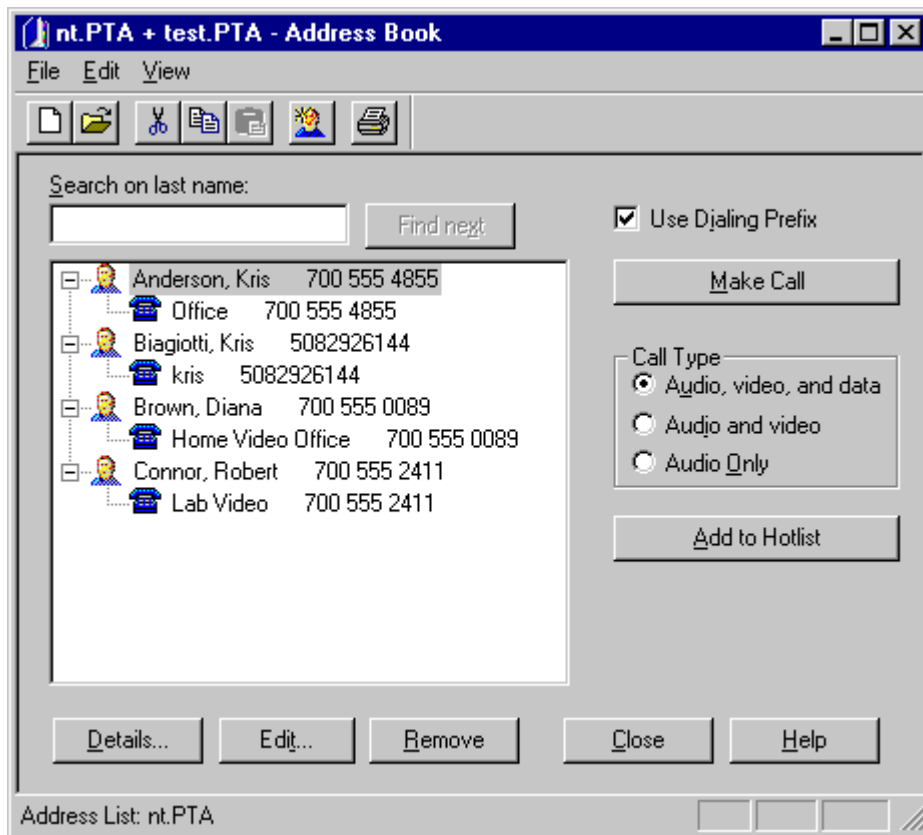
Click the following links for additional information:

- [Address Book Window](#)
- [Converting Live50/100 Address Book Lists](#)
- [Address Book Toolbar](#)
- [Add Person Window](#)
- [Connections Information](#)
- [Address Book List Dialog Box Toolbar](#)
- [Hotlists](#)

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## Address Book Window

The PictureTel Address Book window displays your first and last name, and ISDN number the first time you open it.



After you open the Address Book window, you can create an address book list and start adding entries. Information on a specific individual in an address book list is called an entry. Each address book list can have an unlimited number of entries. Address book lists are given a .PTA extension and are stored in the location you specify. If you want Caller ID to identify incoming calls, the number must be listed in an address book list. You can specify that you want to use dialing prefixes in either the Address Book window, the Make Call dialog box, or in the Call tab of the Preference dialog box.

You can store an address book list as a shortcut on your Windows NT desktop or on a shared network drive.

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## Converting Live50/100 Address Book Lists

You can convert address book lists from your Live50/100 systems to the Live200 format using the ABconverter program located in the \Program Files\PictureTelNT\LiveWare directory. Double-click the ABconverter icon and follow the instructions on the screen.

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## Address Book Toolbar

You can use the following buttons in the toolbar of the Address Book window to immediately access a feature. Each button is a shortcut way of choosing a menu item.



The **New** button creates a new address book list.



The **Open** button opens an existing address book list.



The **Cut** button lets you cut information to the clipboard. This information may be pasted in another location.



The **Copy** button lets you copy information from one location to another.



The **Paste** button lets you paste information that you have previously cut to the clipboard.



The **Add New Person** button lets you add a new entry to an address book list.



The **Print** button prints the contents of an address book list.

## Add Person Window

When you add a new person to your Address Book, you enter their information in the Add Person window. Because you can create or update an Address Book that you can also use on Live200 for Windows 95, you can load or paste an image into an Address Book. However, the images that you load or paste into an Address Book using Live200 for Windows NT do not appear in the Live200 for Windows NT Image bar during a conference.

**Add Person - nt.PTA**

Name | Connections

First Name:  Last Name:

Address:  Company:

Department:  Title:

Notes:

Load Image...  
Paste Image

Close New Person Save Help

---

## Connections Information

Although the primary purpose of the Address Book is to store numbers and to connect to your calling partner, you can also use it as your central telephone directory for all your contacts. An Address Book can contain information for connection types that might not be supported by PictureTel Live200 for Windows NT.

The connection type you choose determines the additional connection information you enter. For ISDN and modem connections you enter phone numbers. For TCP/IP, NetBIOS, or IPX connections, you enter addresses. You can add more than one connection per entry. For example, your caller might have a residential as well as a business ISDN line, or a local and overseas ISDN line. You might also want to add a connection using another network transport, such as TCP/IP.

**Add Person - New England Region.PTA**

**Kimberly Jones**

Name | **Connections**

Connection Name:

Type of Connection: **ISDN**

1st Phone Number:

2nd Phone Number:

Channel Mode

Clear (64k)

Restricted (56k)

Connection Names:

New Connection | Delete Connection

Most Commonly Used Connection:

Hints

A description of a connection is just a short phrase that reminds you of where the connection is located and what type it is.

Close | New Person | Save | Help

---

## Address Book List Dialog Box Toolbar

You can use the following buttons in the toolbar of the Create New and Open Address Book List dialog boxes to immediately access a feature. Each button is a shortcut to choosing a menu item.



The **Up One Level** button displays the directory level above the currently displayed level.



The **Create New Folder** button creates a folder in which you can

name for a folder.



The **List** button displays only the file names of address book lists in the Create and Open Address List dialog boxes.



The **Details** button displays the Size, Type, and Modified date of each address book list in the Create and Open Address List dialog boxes.

---

## Hotlists

You can create a list of your most frequently dialed numbers using the Hotlist menu. You can then automatically speed-dial a call to an individual by clicking the **Hotlist** button or choosing **Hotlist** from the Main toolbar and clicking the number from the hotlist. You can set the number of entries that appear in the Hotlist menu from the Call tab of the Preferences dialog box.

# Data Collaboration

---

## Overview

Live200 for Windows NT uses Microsoft NetMeeting 2.0 or greater to support T.120 point-to-point and multipoint data collaboration. Microsoft NetMeeting enables real-time communication and data collaboration providing windows-based audio, video, and multipoint data conferencing support. Users can share data through application sharing, electronic whiteboard, file transfer and text-based chat, all of which can be used in Live200 for Windows NT.

Click the following links for additional information:

- [Live200 and Microsoft NetMeeting](#)
  - [How to access Microsoft NetMeeting for use with Live200](#)
  - [Setting up and using Microsoft NetMeeting with Live200](#)
- 

## Live200 and Microsoft NetMeeting

Microsoft NetMeeting provides support for audio, video and data calls over a LAN, but does not support placing H.320 calls directly. The Live200 software provides an H.320 transport to allow NetMeeting to setup T.120 conferences over a Live200 H.320 call. To do this, PictureTel provides a new transport driver for NetMeeting called PictureTel Live. The Live200 application automatically configures NetMeeting to use this transport. When you place a call from the Live200 application, you can choose Audio/Video/Data in the Make Call dialog which will automatically trigger a NetMeeting T.120 connection over the H.320 call.

References to audio and video within NetMeeting are not used as part of the Live200 integration.

---

## How to access Microsoft NetMeeting for use with Live200

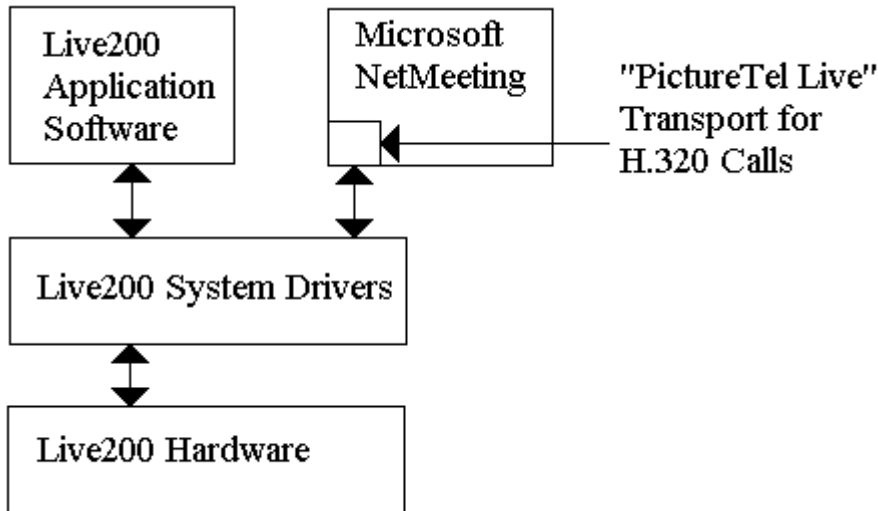
NetMeeting is available as a free software download from Microsoft. If you do not have NetMeeting installed already, you can download the latest release of Microsoft NetMeeting for Windows NT from the Microsoft web site, <http://www.microsoft.com>. Follow the instructions on the Microsoft web site to select the correct version for Windows NT.

---

## Using Microsoft NetMeeting with Live200

To host a NetMeeting application sharing session you must have the Windows NT Service Pack 3 (or later) installed. To find out if you have a service pack installed and which version it is, open Windows Explorer and select About Windows NT from the help menu. If a service pack has been installed, you will see it listed after the version and build number in the About Windows NT dialog box. You can access the latest service pack on the Microsoft web site, <http://www.microsoft.com>.

The following diagram illustrates the integration of Netmeeting and the Live200 for Windows NT.



# Setting Preferences

---

## Overview

PictureTel Live200 preference settings let you customize the applications's working environment. For example, you can customize toolbars by adding the buttons that you use the most. Once you select your preferences, they remain in effect from one calling session to the next, until you change them.

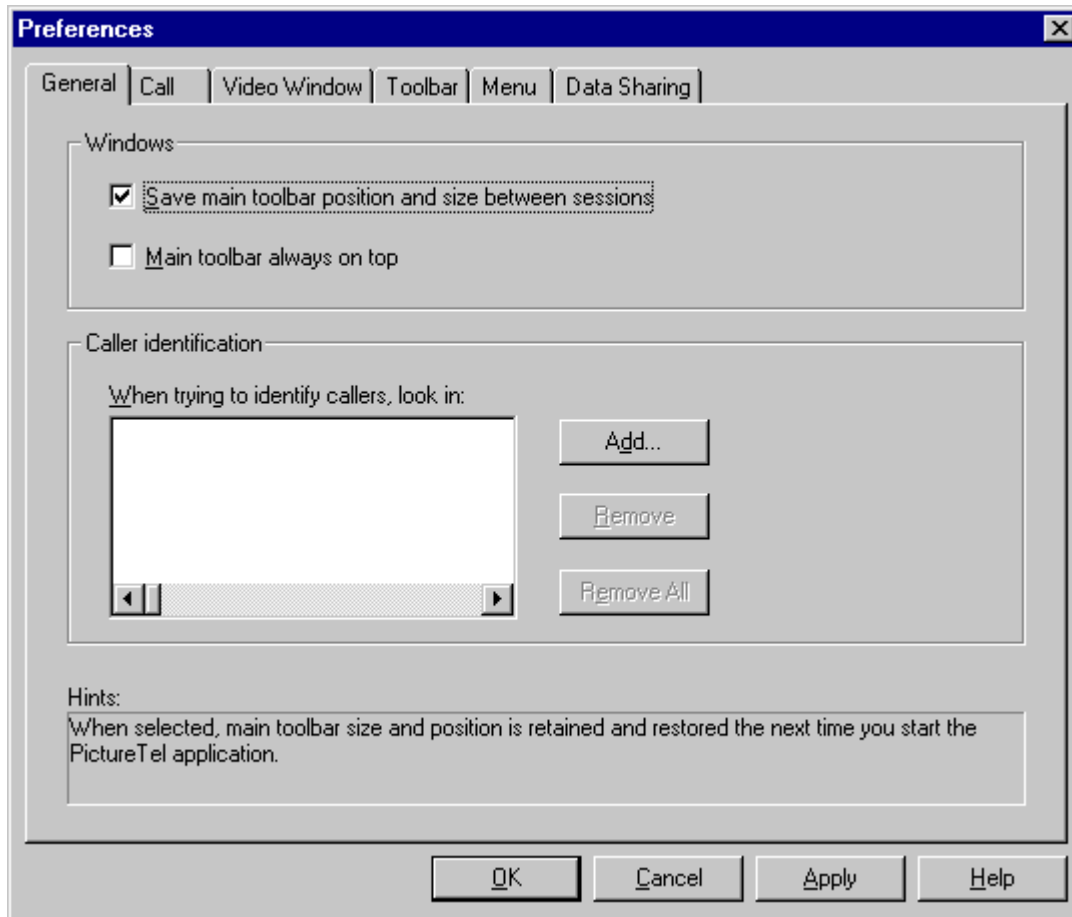
Click the following links for additional information:

- [Preferences Dialog Box](#)
- [General Preferences](#)
- [Call Preferences](#)
- [Video Window Preferences](#)
- [Toolbar Preferences](#)
- [Customizing the Toolbars](#)
- [Spacing between Toolbars](#)
- [Local Video Window Toolbar](#)
- [Remote Video Window Toolbar](#)
- [Menu Preferences](#)
- [Data Sharing](#)

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## Preferences Dialog Box

Choose Preferences for the Tools menu in the Main toolbar or click the Preferences button (if you added this button to the toolbar).



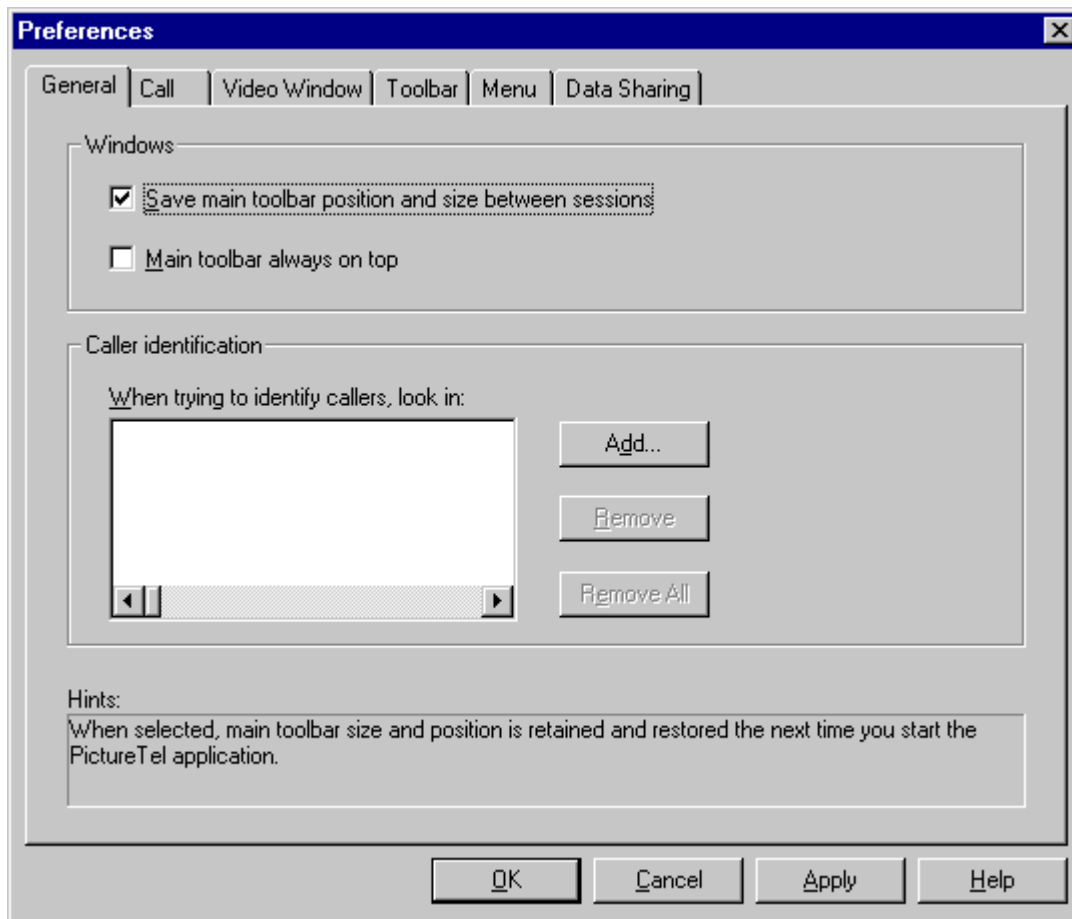
The Preferences dialog box provides access to the General, Call, Video Window, Toolbar, Menu, Data Sharing Preferences sheets.

---

## General Preferences

Click the **General** tab to display the General Preferences sheet. General preferences let you:

- Retain windows sizes and positions
- Position the PictureTel Live200 Main toolbar
- Set the preferences for Caller identification



The following General Preferences are available from the **Windows** group:

- **Save main toolbar position and size between sessions** lets you save the main toolbar and video window sizes and positions from the last time you accessed the Live200 application.
- **Main toolbar always on top** prevents other windows from covering the main toolbar. The default setting is Off.
- **Caller identification** identifies incoming calls with the name of the caller if the caller is listed in an Address Book list.

The following Caller identification preferences are available:

- The **Add** button opens a dialog box that lets you select an Address Book list to use for incoming calls. By searching an Address Book list, Live200 can provide you with the name and number of your caller before you answer the incoming call.
- The **Remove** button removes the Address Book lists that you highlight in the list box.
- The **Remove all** button removes all Address Book lists that appear in the list box.

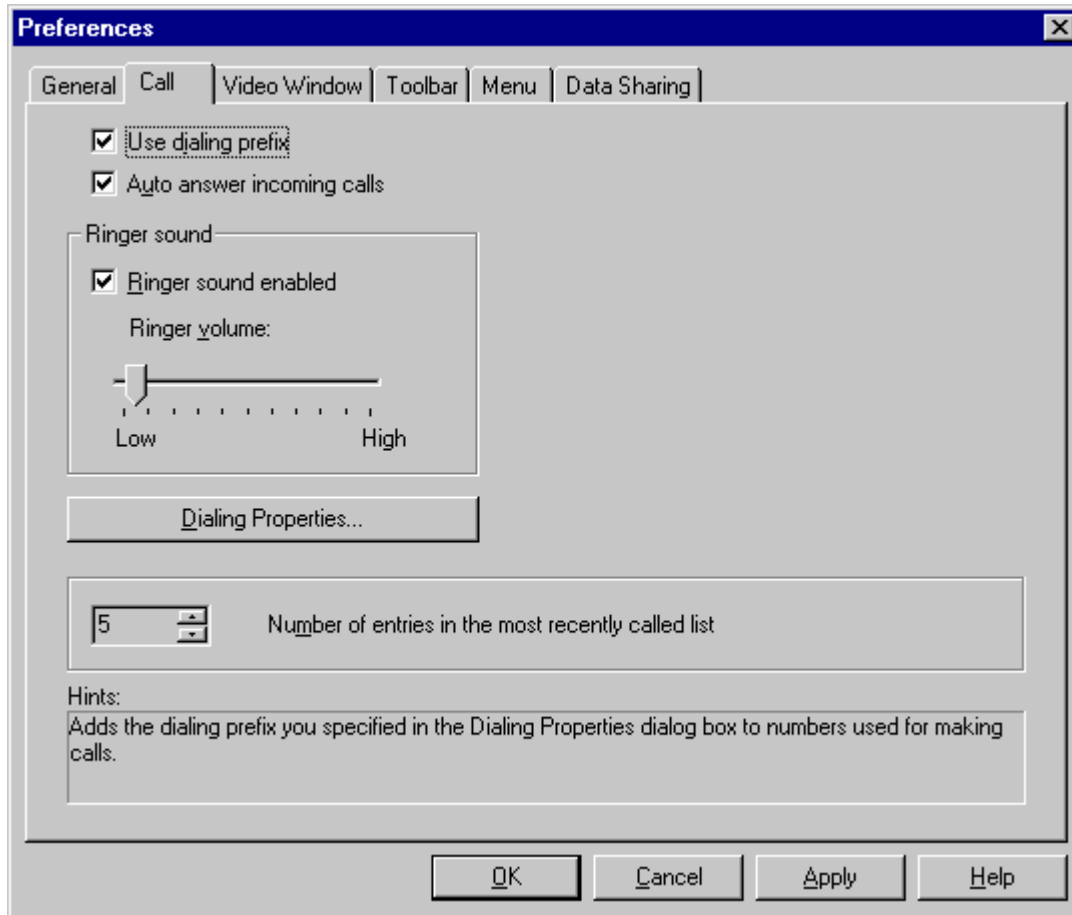
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## Call Preferences

Click the **Call** tab to display the Call Preferences sheet, which lets you:

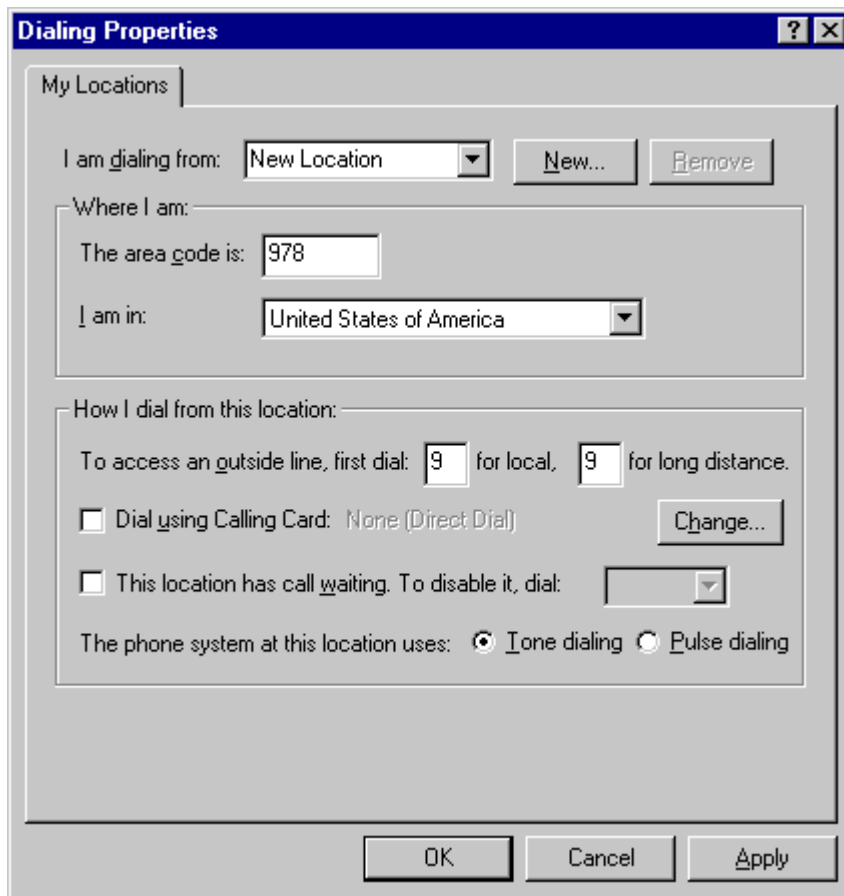
- Set a dialing prefix
- Set your computer to automatically answer incoming calls
- Set the ringer volume

- Set Dialing Properties
- Modify how many phone numbers you want listed in the Hotlist menu.



The following Call Preferences are available:

- The **Use dialing prefix** check box lets you add a number that is dialed before all phone numbers. If you enter that number as the phone number prefix, you do not have to manually dial it before each call.
- Click the **Dialing Properties** button to open the Dialing Properties dialog box, which lets you set and automate dialing prefixes.



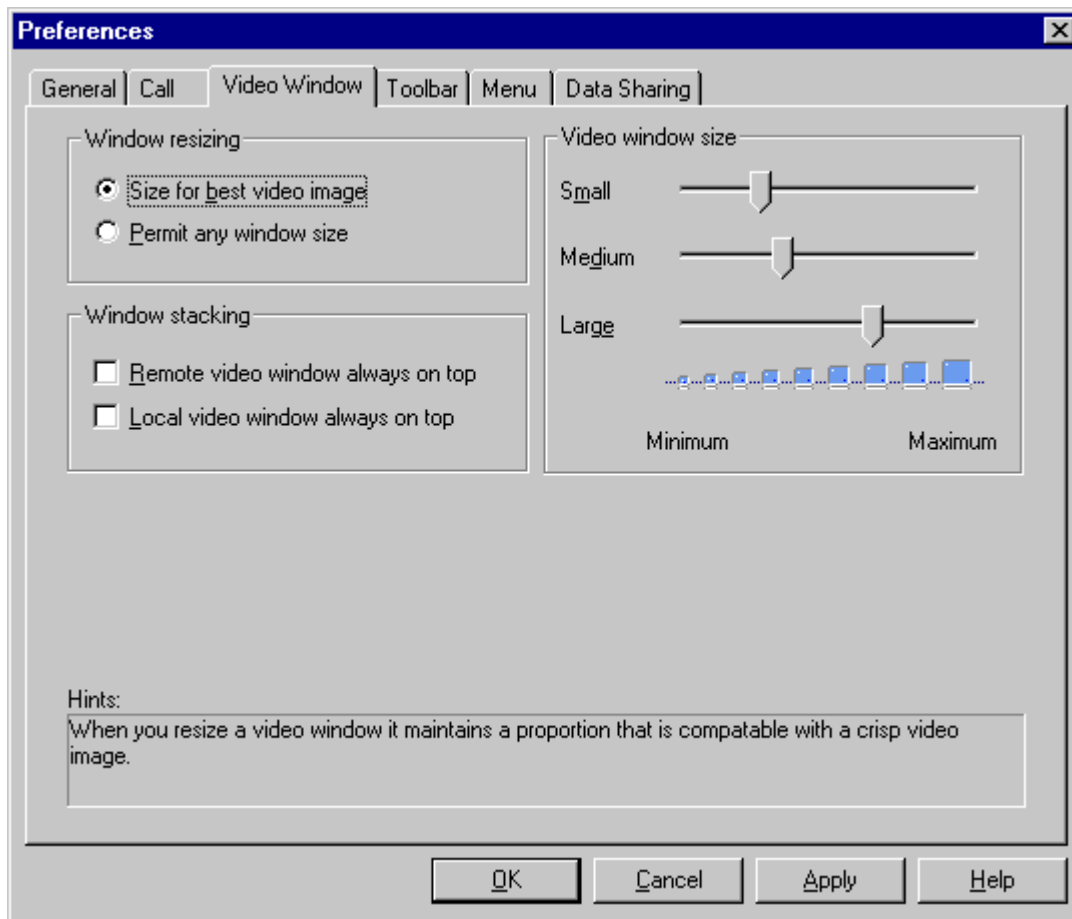
For example, you might have to dial a number, such as 9, before making a call. To use a dialing prefix, enter the prefix in the appropriate box. When you make a call, you just dial the 7-digit number and the prefix is automatically included. If you are using dialing prefixes, you do not need to enter them when you create an entry in an Address Book list.

- The **Auto answer incoming calls** check box lets your computer automatically answer all incoming calls, without you having to be present.
- The **Ringer sound enabled** checkbox lets you turn off the ringing signal that alerts you about an incoming call.
- The **Ringer volume** slider lets you increase or decrease the ringer volume, which rings when you have an incoming call. You can adjust the ringer volume for external speakers, such as the multimedia speakers or the earpiece, through the Call Preferences tab. You cannot adjust the ringer volume for speakers that are internal to the PC.
- The **Number of entries in the most recently called list** allows you to enter the number of recent calls displayed in the Hotlist menu. You can select a number from 1 to 10.

---

## Video Window Preferences

The **Video Window** Preferences sheet lets you automatically reposition and size the Local Video and Remote Video windows to optimize your videoconferencing desktop.



The following Video Window preferences are available from the **Window resizing** group:

- **Size for best video image** provides an aspect ratio similar to your monitor's aspect ratio for the Local or Remote Video windows. The aspect ratio is the relationship between width and height.
- **Permit any size window** allows any size for the Local or Remote Video windows. The maximum resolution of your video image is determined by the type of monitor you are using.

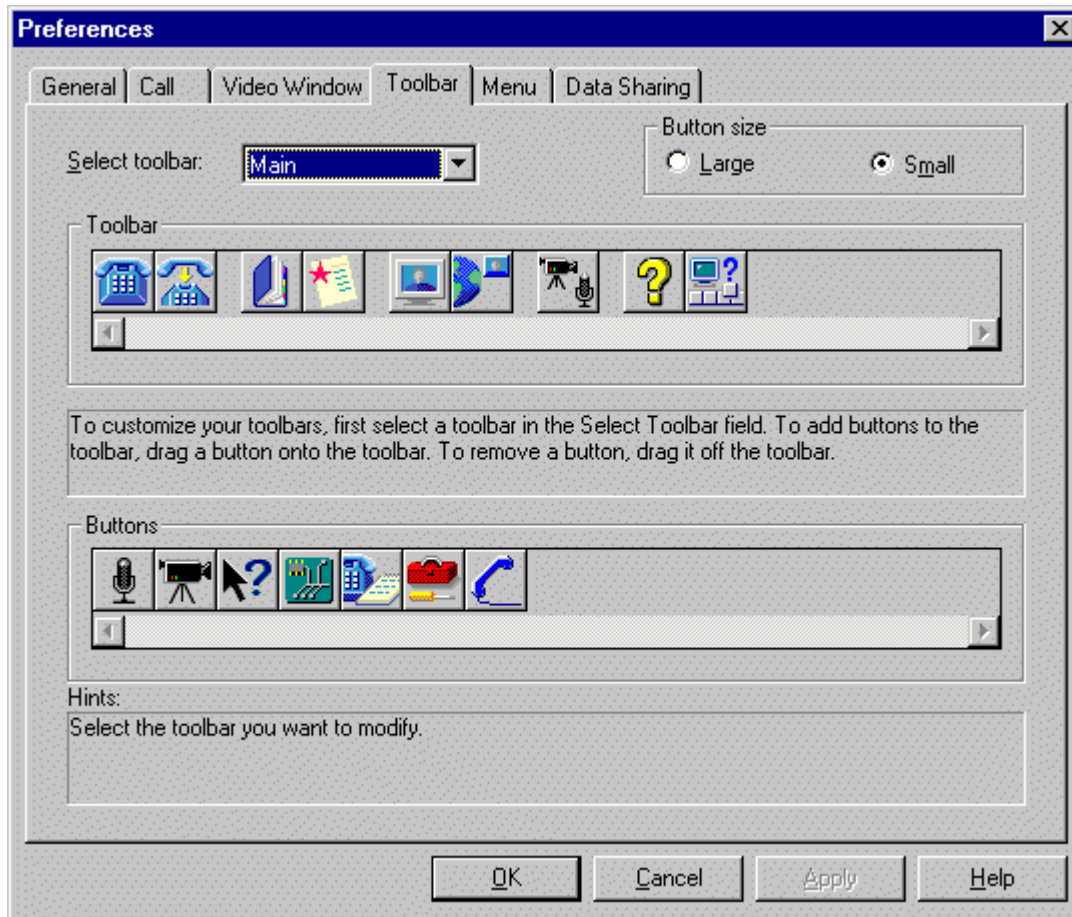
The following Video Window Preferences are available from the **Window stacking** group:

- **Remote video window always on top** keeps other windows from covering the Remote Video window.
- **Local video window always on top** keeps other windows from covering the Local Video window.

The **Video window size** group provides screen size sliders that let you customize the vertical and horizontal measurements of the **Small**, **Medium**, and **Large** selections from the Image listbox in the Local Video and Remote Video windows.

## Toolbar Preferences

The Toolbar Preferences sheet contains the **Main** toolbar preferences. It lets you create custom toolbars for the Main toolbar, the Local Video window toolbar, and the Remote Video window toolbar.



---

## Customizing the Toolbars

To customize the toolbar use the following functions:

- The **Select toolbar** listbox lets you select the toolbar to customize.
- The **Button size** option lets you determine the size of the toolbar buttons.
- The **Toolbar** group contains the buttons that are currently in the Main toolbar. You can add and remove these buttons by following the instructions in the next section.
- The **Buttons** group contains buttons that you can add to the Main toolbar by dragging and dropping them into the Toolbar group.

---

## Spacing between Toolbar Buttons

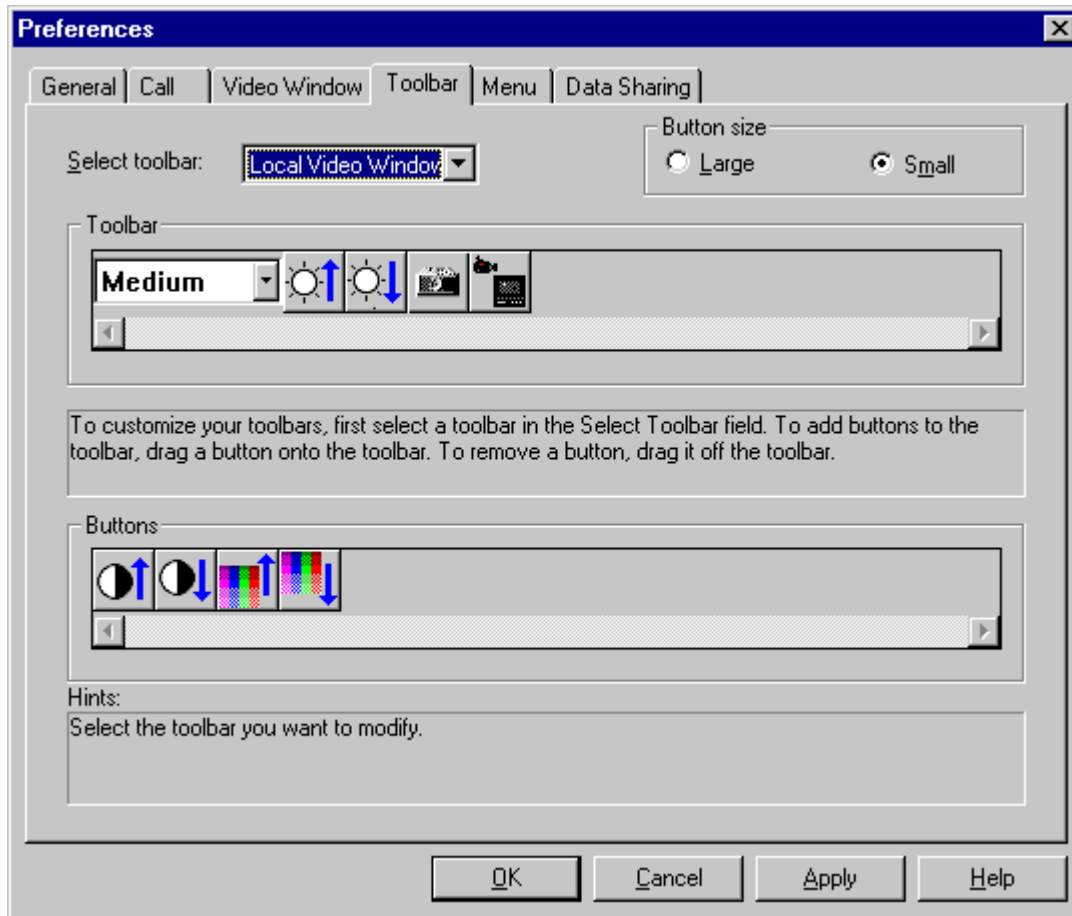
You can move, remove, and change the spacing between any buttons on a toolbar as follows:

- Move a button in the Toolbar group by dragging and dropping it to a new location and clicking **Apply**.
- Delete a button in the Toolbar group by dragging and dropping the button outside the group. It then appears in the Button group. Click **Apply** to save your changes.
- Add a space between toolbar buttons by dragging the button away from another button. Remove a space between toolbar buttons by dragging the button toward another button. Click **Apply** to save your changes.

---

## Local Video Window Toolbar

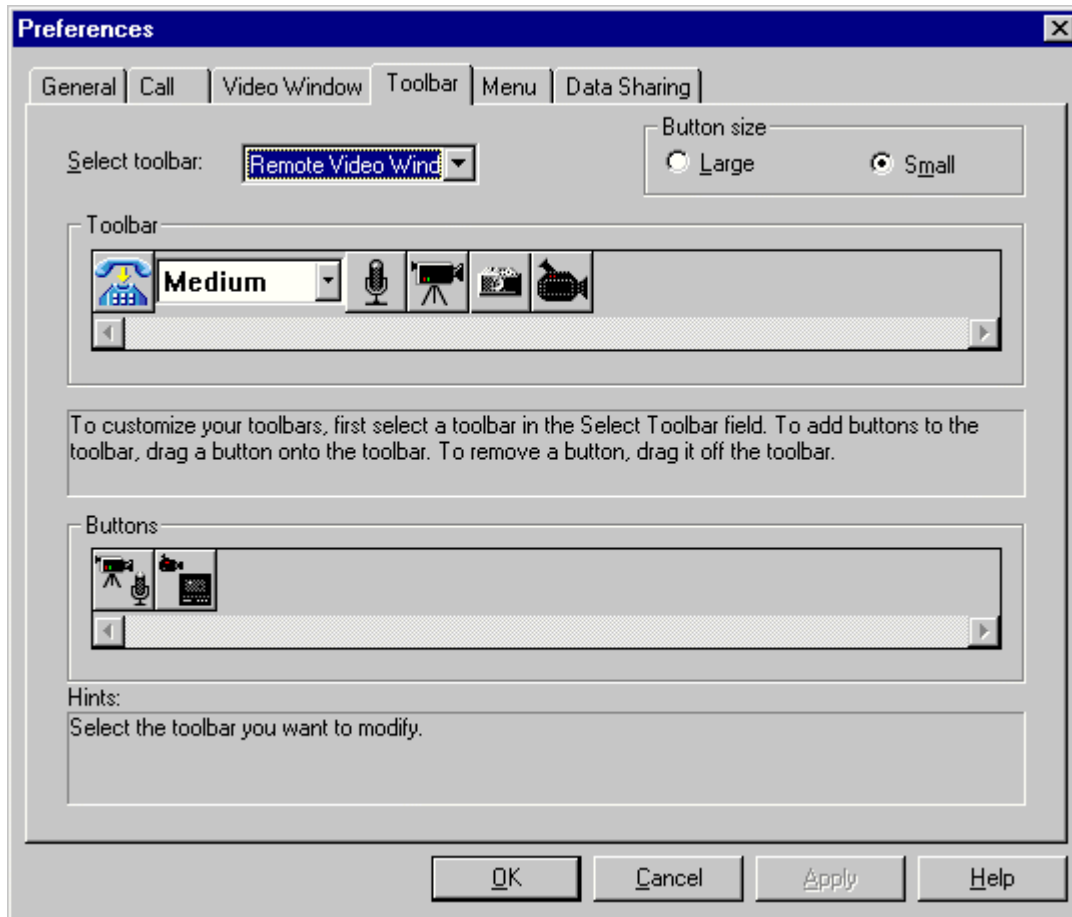
If you select **Local Video** from the Select Toolbar listbox the Local Video window toolbar buttons appear:



---

## Remote Video Window Toolbar

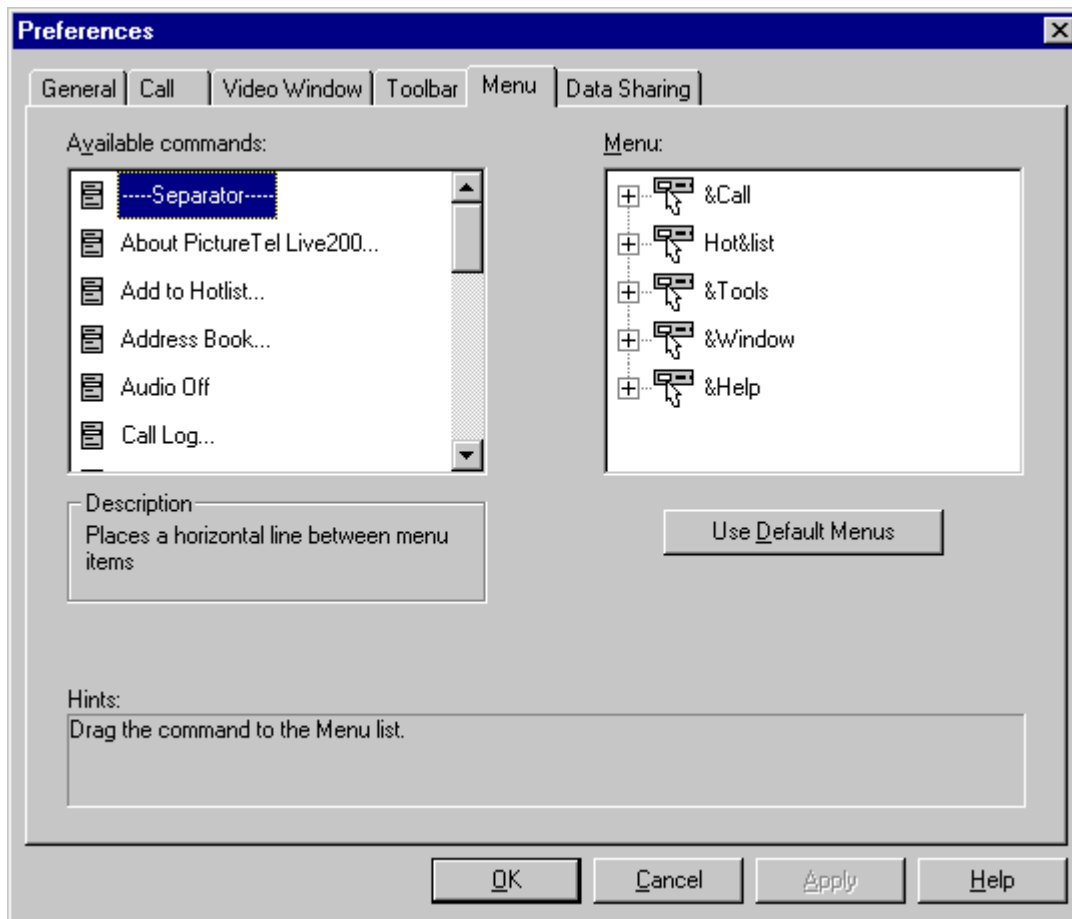
If you select **Remote Video** from the Select Toolbar listbox the Remote Video Window toolbar buttons appear.



---

## Menu Preferences

Click the **Menu** tab to display the Menu Preferences sheet. You can customize Live200 menus so that they contain the commands that you use most often.



The following options are available:

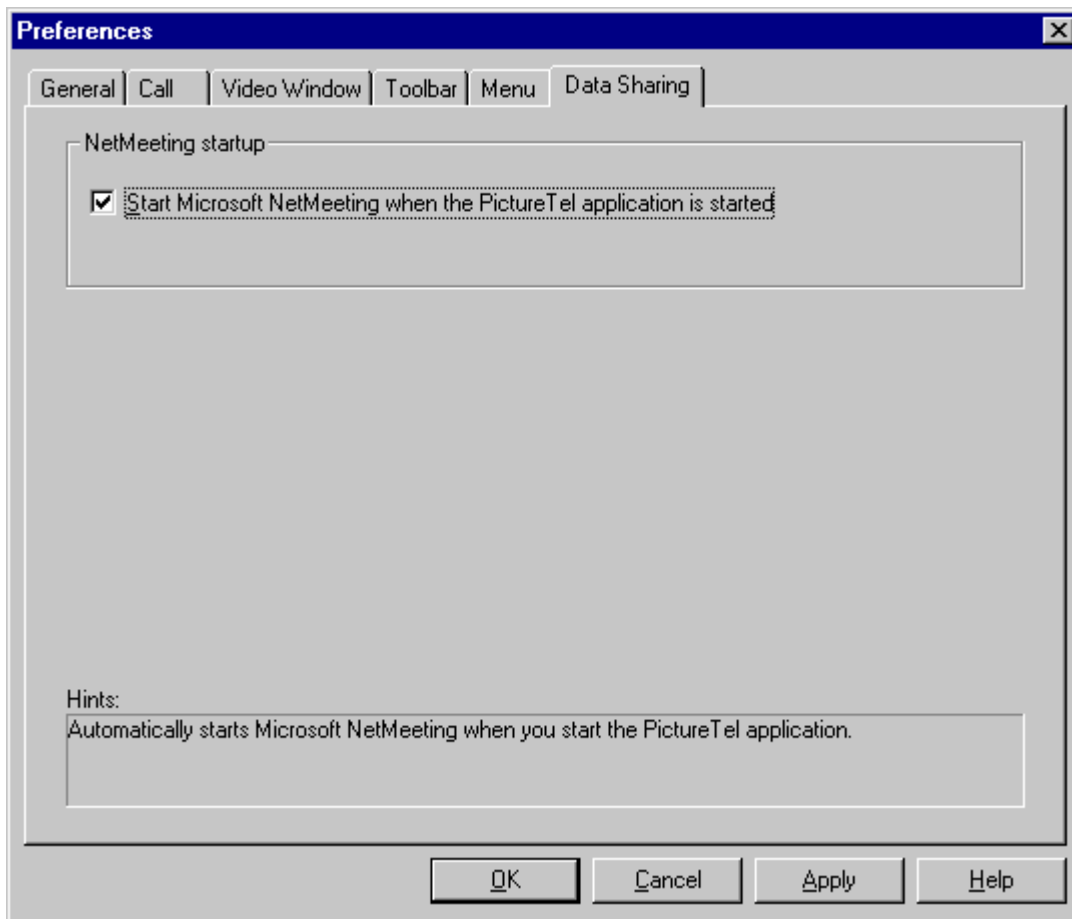
The **Available commands** group provides a listing of commands that you can assign to any menu listed in the Menu group. Commands can be assigned to more than one menu. The **Description** box gives you information about each command.

- To add a command to a menu, select an item and drag and drop it onto a menu in the **Menu** list.
- To remove a command from a menu, drag the selected command off the **Menu** list and drop it anywhere on the screen.
- Select the **Separator** to place a horizontal line between menu items. The **Menu** group provides a list of the Live200 Main toolbar menus.
- You can click on any menu in this listing and edit and rename its text. Click the + (plus) sign to expand the submenus.
- An **&** symbol (ampersand) indicates the placement of an underbar for a shortcut key. Positioning the ampersand to the left of a letter assigns the underbar to that letter.
- You can move any menu by dragging and dropping it.
- You can delete any menu by dragging and dropping it outside of the group.

---

## Data Sharing

Click the Data Sharing tab to display the Data Sharing Preferences sheet. Use these preferences to indicate that you want Microsoft NetMeeting to start automatically when you start the Live200 application.



**Start Microsoft NetMeeting when the PictureTel application is started** automatically starts NetMeeting when you start the Live200 application. Any changes to this option take effect the next time the Live200 application is started.

# Troubleshooting

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## Overview

You can troubleshoot your PictureTel Live200 system using the two types of diagnostic tools provided with the Live200 application:

- Use the [Diagnostics window](#) for viewing error logs, performing loopback tests, and getting statistical information about the PictureTel Live200 application's software.
- Use the [PictureTel LiveTest Hardware Diagnostic](#) application for testing major circuit elements of the videoconferencing hardware installed in your system.

The test results from these tools help your PictureTel service provider find a solution to a problem. For example, you might need a replacement board. You can also contact technical support using any of the methods described in the *Contacting Technical Support* section.

Step-by-step instructions about using Live200 operations, commands, and menu options are in the online help.

Click the following links for additional information:

- [Diagnostics Window](#)
- [Error Log](#)
- [Version](#)
- [Tests](#)
- [Statistics](#)
- [LiveTest Hardware Diagnostic Application](#)
- [Contacting Technical Support](#)

---

## Diagnostics Window

Choose **Diagnostics** from the Tools menu in the Main toolbar, or click the **Diagnostics** button (if you added this button to the toolbar) to access the Diagnostics dialog box. This dialog box lets you view errors, run a loopback test for testing your Live200 system, view statistics about your system, and check the versions of software you are running.

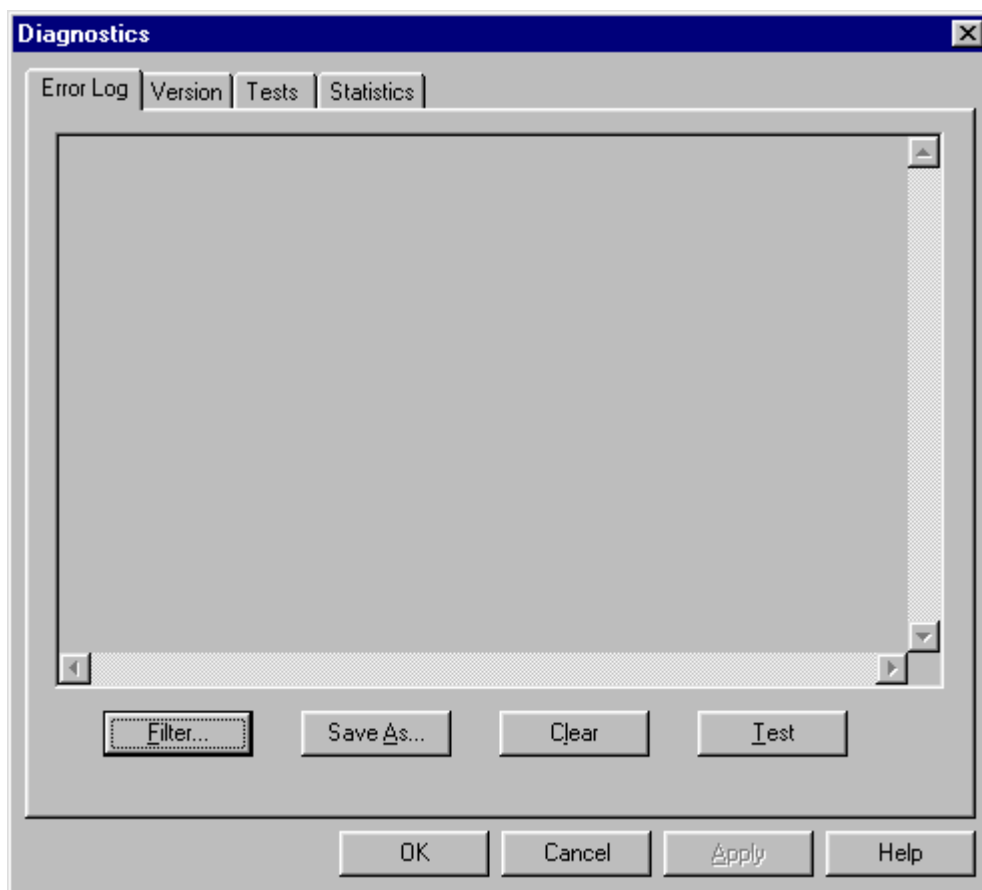
The functions from the Diagnostics dialog box do not test the major circuit elements in the PictureTel Live200 system. It tests the software elements. See the section entitled Using the Diagnostic Application for information about testing circuit elements.

---

## Error Log

An error log contains a chronological collection of errors that are useful when calling your PictureTel service provider. The information in the Error Log sheet is recorded in the ELOGCURR file, which is located in the LiveWare folder in the folder in which you installed PictureTel Live200. This file stores up to 100K of information. Once the 100K limit is reached, the information in the ELOGCURR file is copied to the ELOGPREV file. This action ensures space for new information in the ELOGCURR file.

You can print or view both of these files using the Windows NT Notepad or WordPad applications in the Accessories folder.



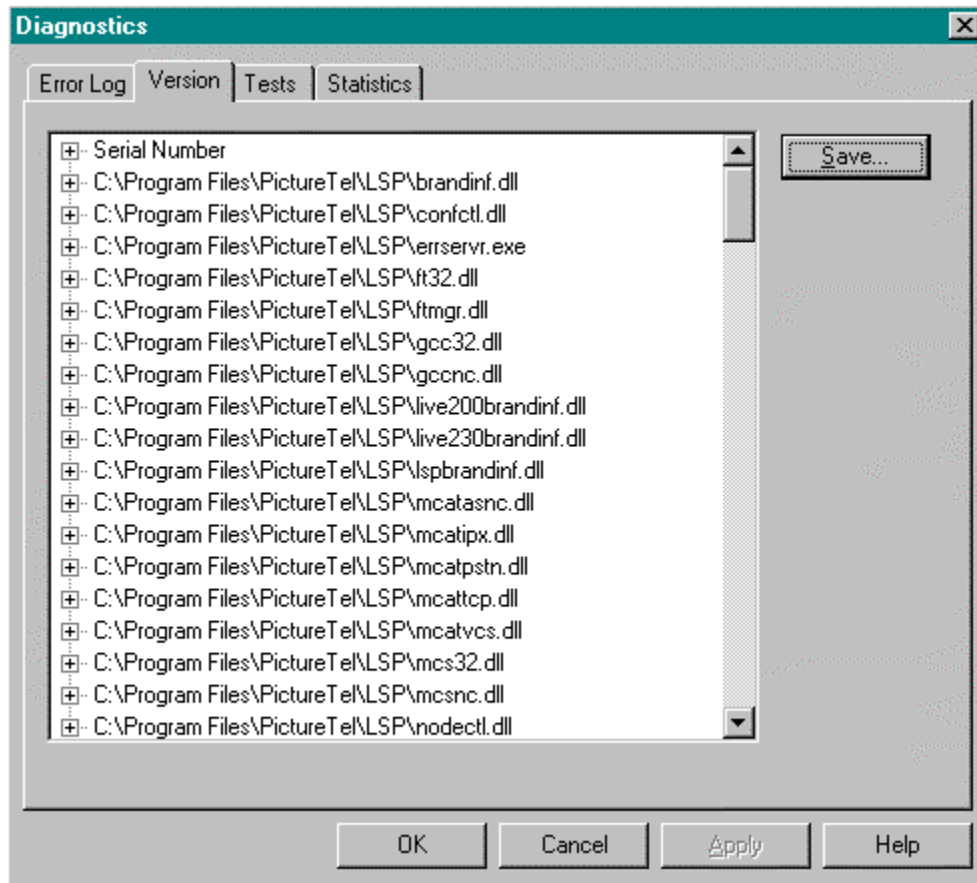
- **Filter** opens the Filter Error Messages dialog box, which lets you select the type of errors you want to display.
  - **Save As** saves the error log as a file.
  - **Clear** clears all messages in the error log.
  - **Test** runs a test to ensure that the error log is working properly.
-

## Version

You can get the serial number and version number of any file installed by PictureTel Live200 on your hard drive. This information is useful when calling your PictureTel service provider.

To get serial and version numbers for Live200 file:

Click the Version tab in the Diagnostics dialog box.



To save the version number information to a .TXT file:

Click the Save button in the Version sheet.

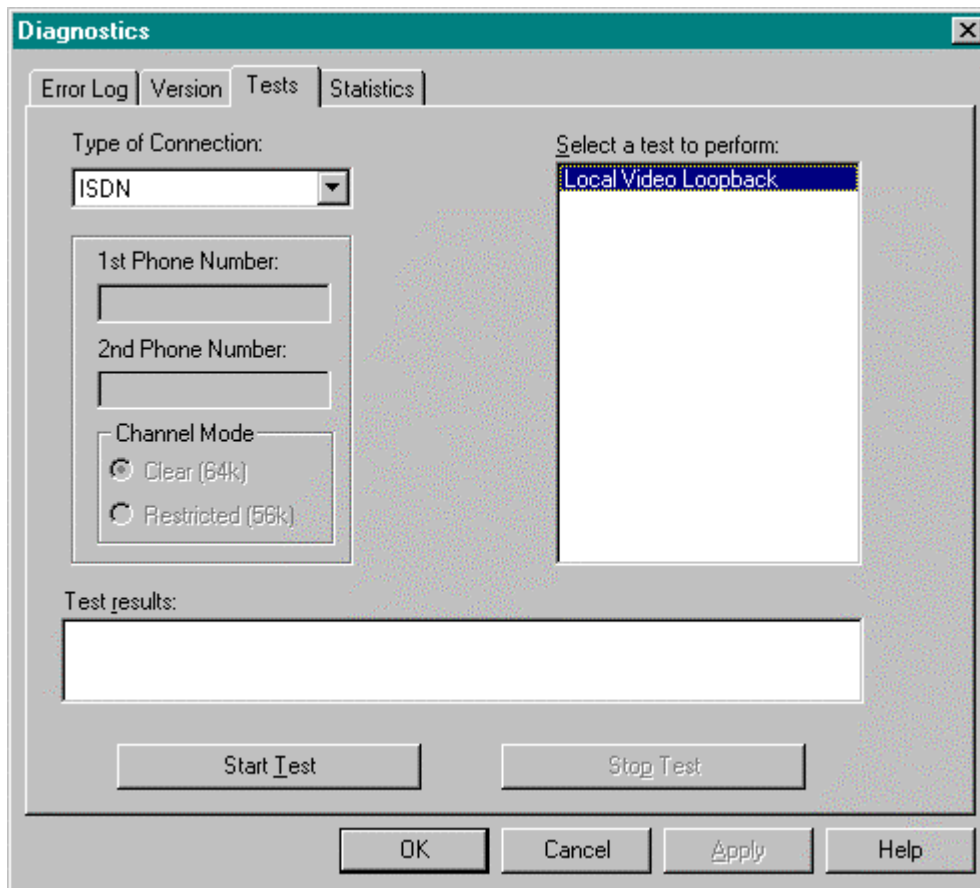
---

## Tests

You can use the Test sheet to make a video call to yourself, referred to as a loopback, for video, audio, and ISDN testing purposes.

To access the Test sheet:

Click on the Tests tab in the Diagnostics dialog box.

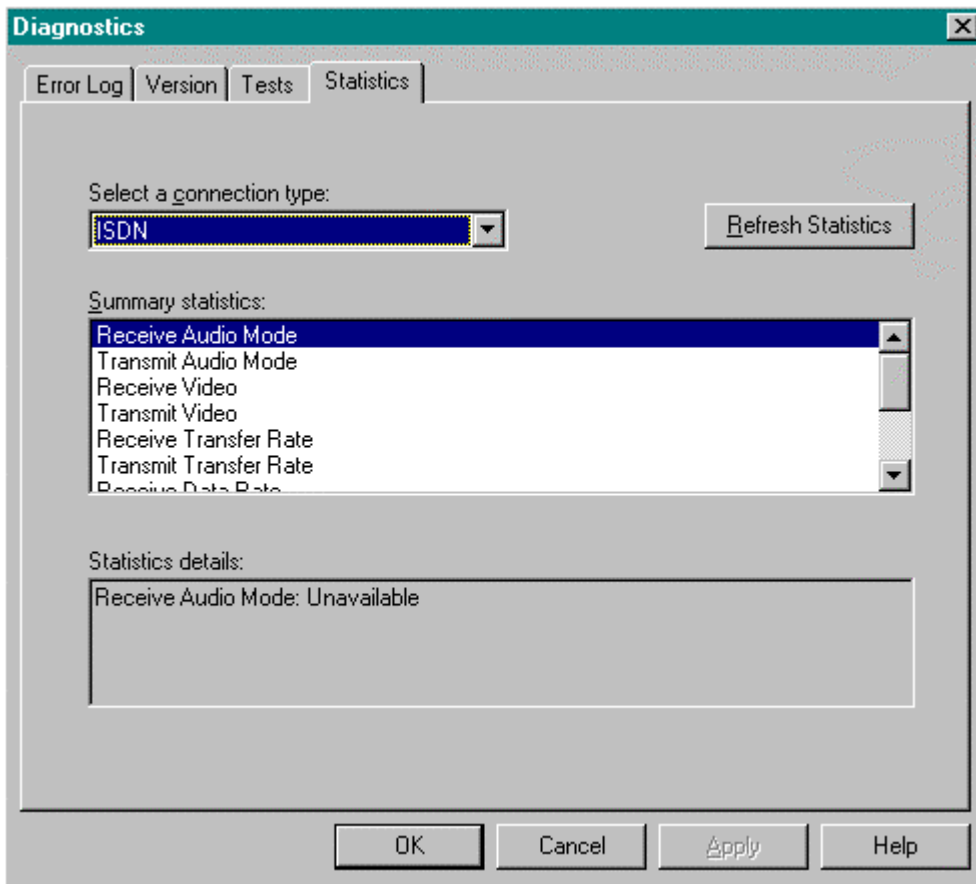


- **Select a connection type** lists the connections upon which you can run a loopback test.
- **Select a test to perform** lists the tests from which you can choose
- **Test Results** displays the outcome of the test you ran.
- **Start Test** runs the test that you selected.
- **Stop Test** stops the test you selected from running.

---

## Statistics

You can use the Statistics sheet to view statistics about your Live200 system. When you select an item from the list, the Summary statistics box displays the current call information. To refresh the statistic information after it has been displayed, click the **Refresh Statistics** button.



- **Select a connection type** lists the connections for which you can display statistics.
- **Summary statistics** displays a summary of the statistics for the connection type you chose.
- **Statistics details** displays the statistic details for the connection type you chose.
- **Refresh statistics** refreshes the statistics fields when you choose a new connection type.

---

## LiveTest Hardware Diagnostic Application

The PictureTel LiveTest Diagnostic application is a standalone Windows NT application that you can use to test major hardware elements. You can test the Live200 board for any problems. All data paths and components are tested by addressing, reading, and writing registers and memory locations. The physical and functional integrity of the PCI bus interface is also tested.

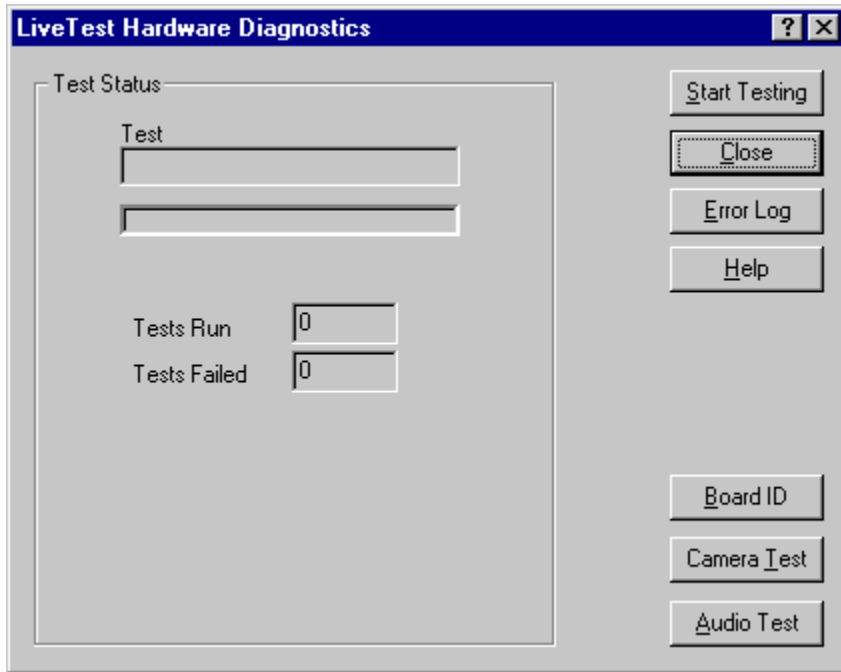
The LiveTest application does not test the PictureTel Live200 software or the attached ISDN network. To test your PictureTel Live200 software, see the section Diagnostics Window, earlier in this chapter.

The LiveTest application performs a pass or fail test of the Live200 board. While it runs, it records all messages in an error log file. You can provide your PictureTel service provider with a hard copy of this log should your Live200 board need repairing.

To run the LiveTest application:

1. Close all videoconferencing applications, including Live200 and NetMeeting.
2. Double-click the LiveTest.EXE file located in C:\Winnt\Live200\Diagnostics.

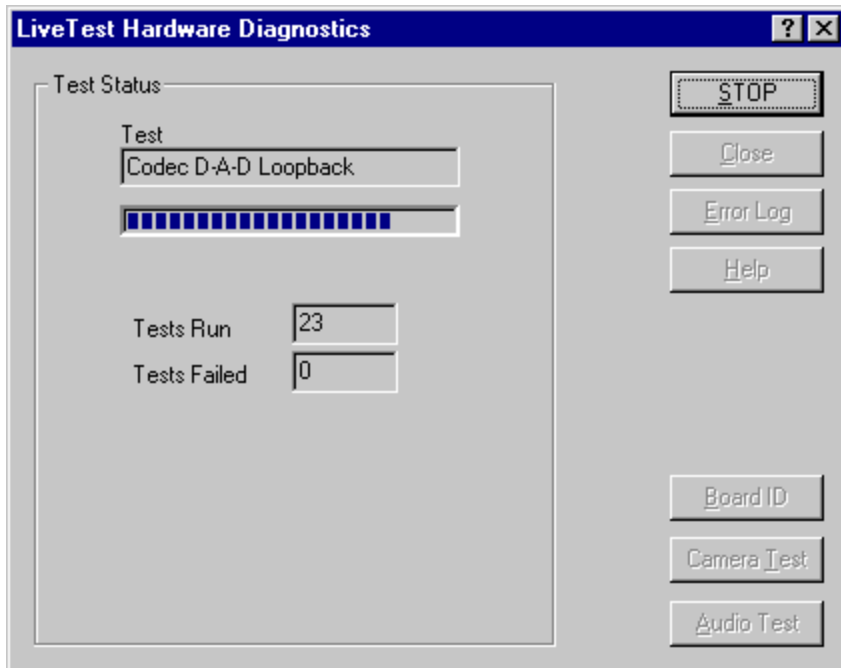
The LiveTest Hardware Diagnostics dialog box appears.



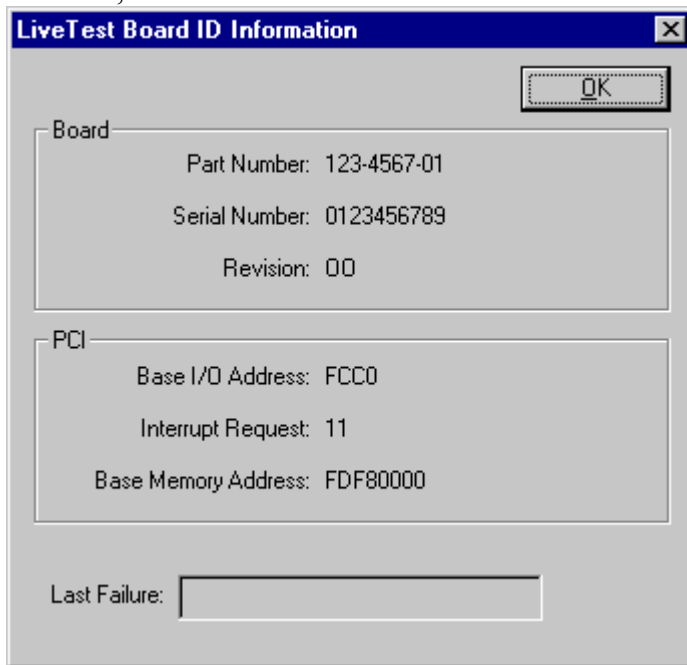
To run board tests:

3. Click the **Start Testing** button.

The diagnostic application tests the Live200 board. The Test Status box lists the name of the current test, and the progress indicator bar displays the approximate percentage of the tests completed. You can stop the test at any time by clicking the **STOP** button. When the tests are done, the Tests Failed count should be zero.



4. Click the **Board ID** button to get information on the board, such as the revision number, serial and part numbers, and last failure. This information is necessary when calling Customer Support.

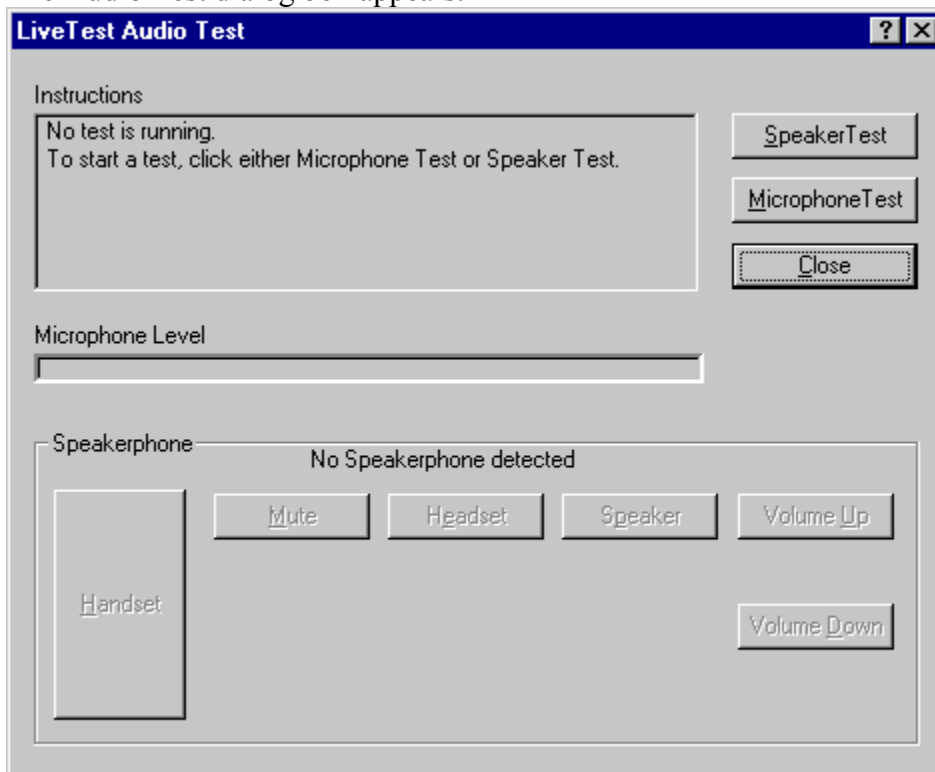


5. Click the **Camera Test** button to view the camera output. The Camera Test dialog box appears, where you can visually check the video image quality the camera is transmitting.

Click the **OK** button to close the Camera Test dialog box.

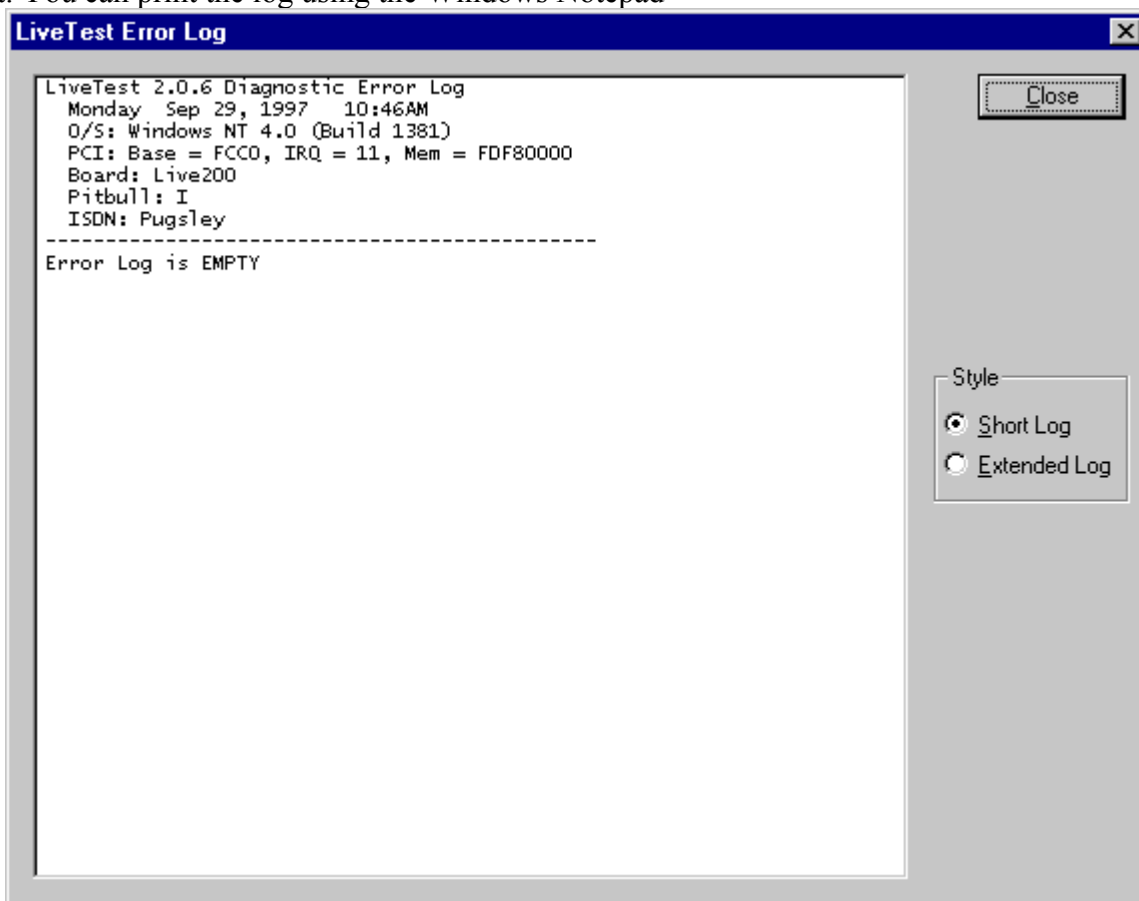
6. Click the **Audio Test** button to check the speaker and microphone or speakerphone if it is installed.

The Audio Test dialog box appears.



7. Click the **Error Log** button to view the error log. The log contains a sequential listing for each of the failed tests, including test name and the status of each test. The log is saved as a text file called

Errorlog.txt. You can print the log using the Windows Notepad



application.

## WARNING

After running the diagnostic program, you must reboot the computer before running any videoconferencing application. Otherwise, you will not be able to make a call.

---

## Contacting Technical Support

PictureTel's Web page includes information about the PictureTel corporation, products and user groups, as well as information about contacting Customer Service. You can also download software updates and patches from the web page. Point your browser to:

<http://www.picturetel.com>

## Customer Service BBS

PictureTel's Customer Service Bulletin Board (BBS) is a dial-in BBS that provides Customer Service information through a modem. Access the BBS to download files, to perform keyword searches on text or software files, and to exchange messages with the system operator.

## System Requirements to Access BBS

- PC
- Communication (terminal emulation) software

- Modem with a minimum 14.4 kbps transmission rate
- ANSI graphics
- Multiple transfer protocols

### **Accessing the BBS**

To access the PictureTel BBS:

1. Run the communication software.
2. Set terminal configuration to (8) data bits, No parity, (1) stop bit.
3. Dial the following modem number. (If calling from outside the US, add the country code of 1.)

978-292-3350

When the mode connects, the Welcome screen appears and prompts you for your full name.

### **FAX Back**

PictureTel's FAX Back service offers a wide variety of taxes with technical tips and troubleshooting information. With a touch-tone phone, call:

800-783-5411

Follow the voice prompts to order a FAX back document.

# Hardware and Communication Settings

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## Overview

You can change your video, audio, application sharing, and network settings and view board information, such as revision levels. Some of these settings are automatically set during installation. You can also enable, disable, and reconfigure network transports. You might need to consult your network provider when modifying network settings.

Click the following links for additional information:

- [Video Bandwidth](#)
- [Changing Hardware Settings from the Control Panel](#)
- [Changing Hardware Settings in PictureTel Live200](#)
- [Video Settings](#)
- [Video Compression Settings](#)
- [Audio Settings](#)
- [Audio Compression Settings](#)
- [Data Rate Settings](#)
- [Network Settings](#)
- [Board Info Settings](#)
- [Communication Settings](#)

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## Video Bandwidth

The amount of channel bandwidth that is allocated to video has a great impact on the video quality. The video transmit bandwidth is determined by the remaining bandwidth after the audio and data portions of the call are allocated. Thus, the audio and data bandwidth settings are important in controlling the video quality. You can select the audio compression and data rate formats through the Hardware Settings dialog box.

In a normal office situation, where you are sitting in one position and moving very little, leave the **SmartPick** setting on the Audio Compression sheet at the default setting of selected and leave the **Maximum Rate** setting on the Data Rate sheet at the default of **High** and the **Control Method** at the default of **Dynamic**. In a situation where there is motion, change the **Audio Compression** setting to **G.728** by clearing the **SmartPick** check box and selecting G.728 from the **Preferred Compression Scheme** and change the **Data Rate** setting to **Off**. Make sure that your calling partners' systems are also set to G.728.

---

## Changing Hardware Settings from the Control Panel

You can change your hardware settings before running PictureTel Live200 using the Live200 Hardware Settings applet in the Control Panel. Changes you make take effect when you restart PictureTel Live200 or when you reboot.

To open the Live200 Settings applet:

1. Click the **Start** button from the Windows NT desktop.
2. Click Settings from the Start menu.
3. Click Control Panel from the Settings menu.
4. In the Control Panel, click the Live200 applet .



The Live200 Settings dialog box appears.

---

## Changing Hardware Settings in PictureTel Live200

You can change your hardware settings when running PictureTel Live200. Changes you make take effect the next time you start PictureTel Live200 or in the next call.

To open the Hardware Setting dialog box in PictureTel Live200:

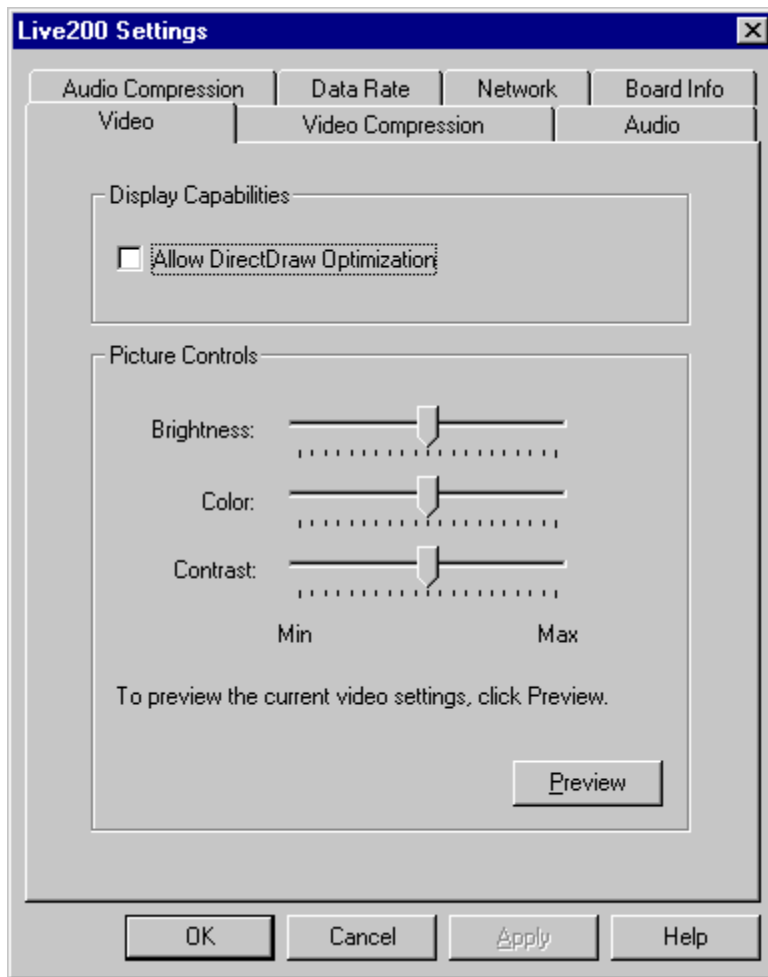
Choose Hardware Settings from the Tools menu in the Main toolbar or click the **Hardware Settings** button (if you added this button to the toolbar).

The Hardware Settings dialog box appears with the Video sheet displayed.

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## Video Settings

Click the **Video** tab to display the Video sheet. The controls in this sheet let you adjust your video camera settings, which you can preview in the Local Video window.



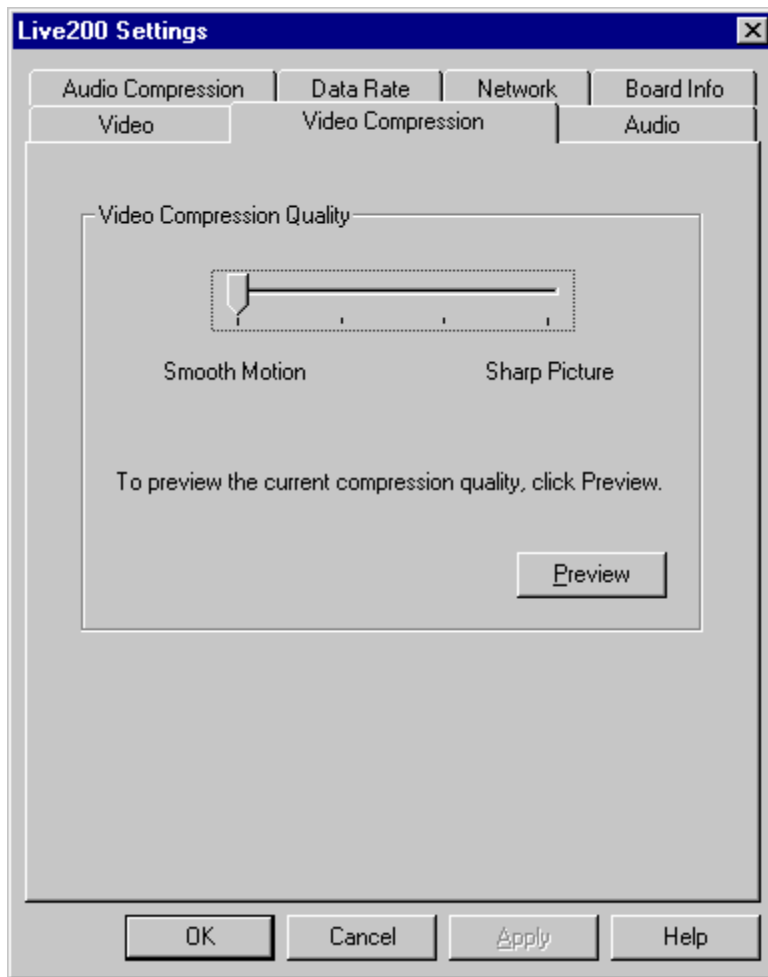
The following options are available in the Picture Controls group:

- The **Allow DirectDraw Optimization** specifies that DirectDraw optimization is used, if your system has a video card with DirectDraw capabilities that Live200 can work with.
- The **Brightness** control slider lets you adjust the balance of light and dark shades of your image in the Local Video window. You can adjust the brightness level during a video call.
- The **Color** control slider lets you adjust the color mixture of your image in the Local Video window. You can adjust the color level during a video call.
- The **Contrast** control slider lets you set the range between the lightest tones and the darkest tones of your image in the Local Video window. You can adjust the contrast level during a video call.
- The **Preview** button lets you temporarily see the changes you make by displaying the Local Video window.

---

## Video Compression Settings

Click the **Video Compression** tab to display the Video Compression sheet. PictureTel Live200 compresses video signals so that they can be sent over ISDN phone lines. The signals are decompressed at the receiving end and presented as motion video. Any changes you make to video compression take effect the next time you make a video call. For the settings to take effect immediately, adjust the **Video Compression Quality** slider before making a video call.



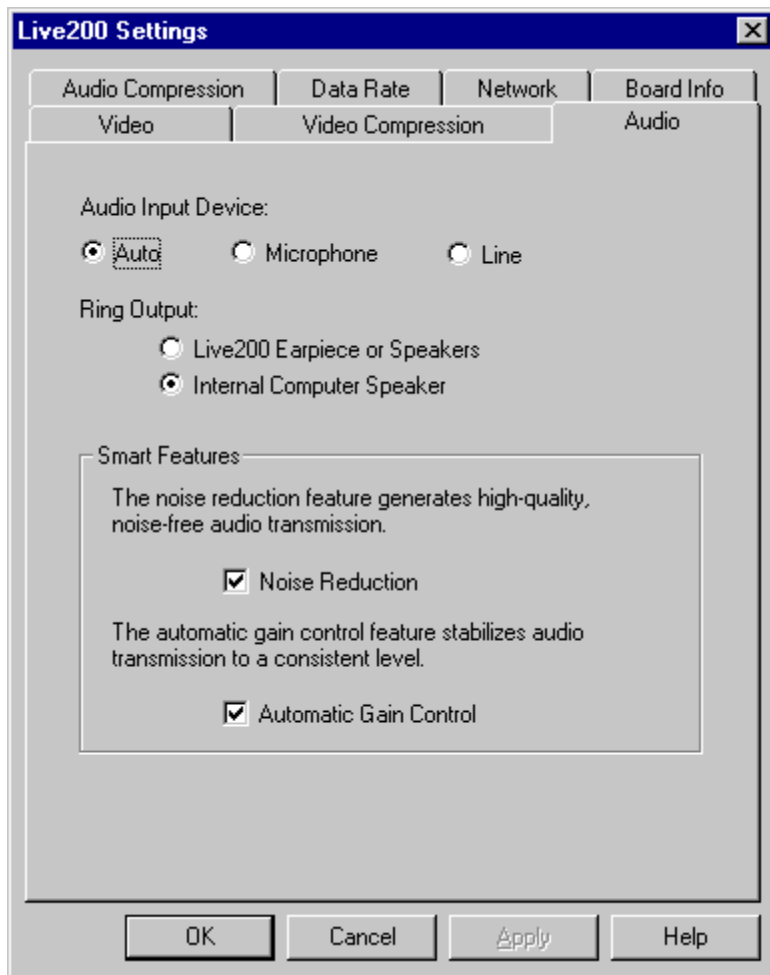
The settings for the **Video Compression Quality** slider determine the video quality that you transmit to other individuals. This control does not affect the video quality that you receive.

- Dragging the slider towards **Smooth Motion** increases the smoothness of the frame transmission rate for the video. When the slider is in the left two positions video is transmitted in Quarter Common Intermediate Format (QCIF). QCIF provides a video resolution of 176 by 144 lines.
- Dragging the slider toward **Sharp Picture** increases the detail in a single video frame, which sharpens the video resolution. When the slider is in the right two positions, video is transmitted in Common Intermediate Format (CIF). CIF provides a video resolution of 352 pixels in each of 288 non-interlaced lines.
- The **Preview** button lets you temporarily see the compression quality by displaying the compressed video in a window. When you click the Preview button, the message "Starting Preview" appears. The window appears with a preview of your image. When you are finished adjusting the compression settings, click the **Close** button to close the window.

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## Audio Settings

Click the **Audio** tab to display the Audio sheet. These settings affect the sound that your calling partner hears.



The **Audio Input Device** is initialized during installation. The default setting for this category is **Auto**.

- Click **Auto** to have the system automatically detect your audio device.
- Click **Microphone** if your audio input device is a microphone. For example, you can use the earpiece or external microphone that is packaged with PictureTel Live200, or a microphone from another manufacturer.
- Click **Line** if your audio input is not a microphone. For example, you can use the line-out connection from a PictureTel speakerphone, CD player, VCR, or cassette player.
- The **Ring Output** is initialized during installation. The default setting is **Internal Computer Speaker**.
- Click **Live200 Earpiece or Speaker** if you want the ringer to sound from the earpiece or multimedia speakers that are packaged with PictureTel Live200.
- **Internal Computer Speaker** sends the ringer to the internal speaker in your computer. This option does not support built-in multimedia speakers. You can adjust the ringer volume for external speakers, such as the multimedia speakers or the earpiece, through the Call Preferences tab. You cannot adjust ringer volume for speakers that are internal to the PC.

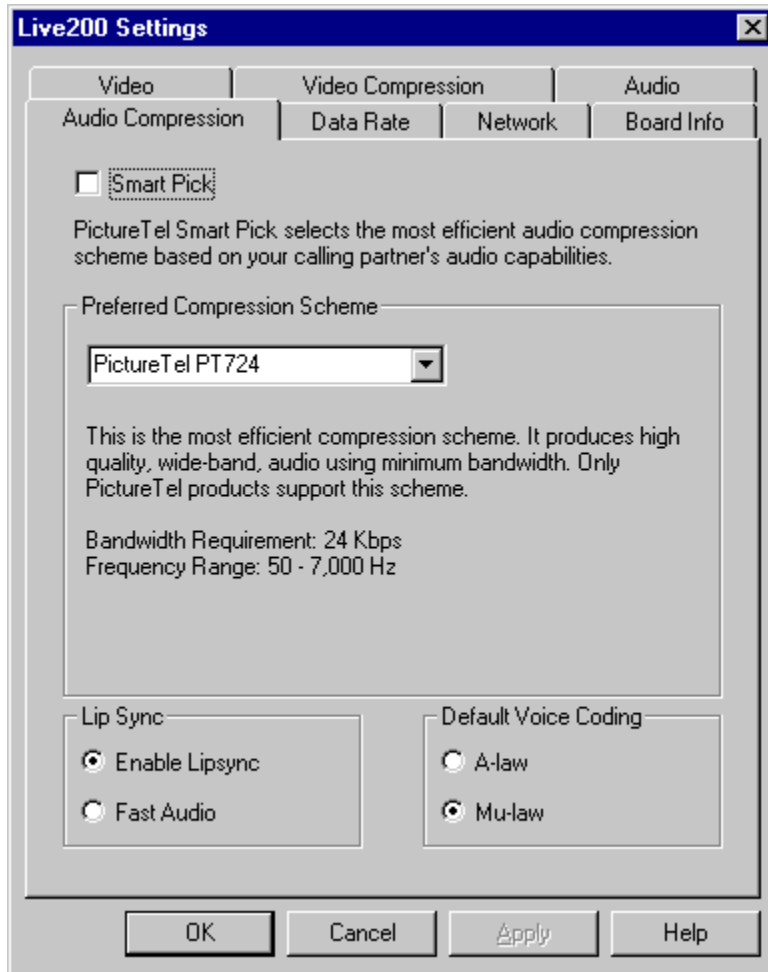
The following options in the **Smart Features** group are turned on by default:

- The **Noise Reduction** check box filters out certain background noises, such as the noise from air conditioners or ventilation systems.
- The **Automatic Gain Control** check box lets the system keep the input speech signals from the microphone at a constant level. For example, when you back away from the microphone, your calling partner detects no difference in volume.

# Audio Compression Settings

Click the **Audio Compression** tab to display the Audio Compression sheet.

PictureTel Live200 compresses audio signals so they can be sent over ISDN phone lines. The signals are decompressed at the receiving end and converted into sound.



The following options are available:

- Click the **Smart Pick** checkbox to have PictureTel Live200 use the best audio compression method based on your calling partner's audio configuration.
- If you want to select the compression method yourself, the **Preferred Compression Scheme** listbox provides the following choices:
- **PictureTel PT724** is a PictureTel standard scheme that can only be used with PictureTel products. It produces high-quality, wide-band audio using minimum bandwidth. The bandwidth requirement for this scheme is 24 kilobits per second. The frequency range is 50 to 7,000 Hz.
- **ITU-T Rec. G.728** is a standard that provides telephone-quality audio using the least amount of bandwidth. Not all videoconferencing systems support this scheme. The bandwidth requirement for this scheme is 16 kilobits per second. The frequency range is 300 to 3,400 Hz.
- **ITU-T Rec. G.722** is a standard that provides the highest quality wide-band audio. Not all videoconferencing systems support this scheme. The bandwidth requirement for this scheme is 48 to 56 kilobits per second. The frequency range is 50 to 7,000 Hz.
- **ITU-T (International Telecommunications Union - T) Rec. G.711 A-law** is a European standard that provides telephone-quality audio. The bandwidth requirement for this scheme is 64 kilobits per second. The frequency range is 300 to 3,400 Hz.

- **ITU-T Rec. G.711 Mu-law** is a **North America** standard that provides telephone-quality audio. The bandwidth requirement for this scheme is 64 kilobits per second. The frequency range is 300 to 3,400 Hz.

The **Lip sync** option lets you determine whether audio and video are synchronized. For example, there is usually a slight delay between the sound you hear and the image you see. If you choose **Enable Lip sync**, you hear the audio at the same time you see the image. If you choose **Fast Audio**, you hear the audio as soon as possible, even if it is out of sync with the video.

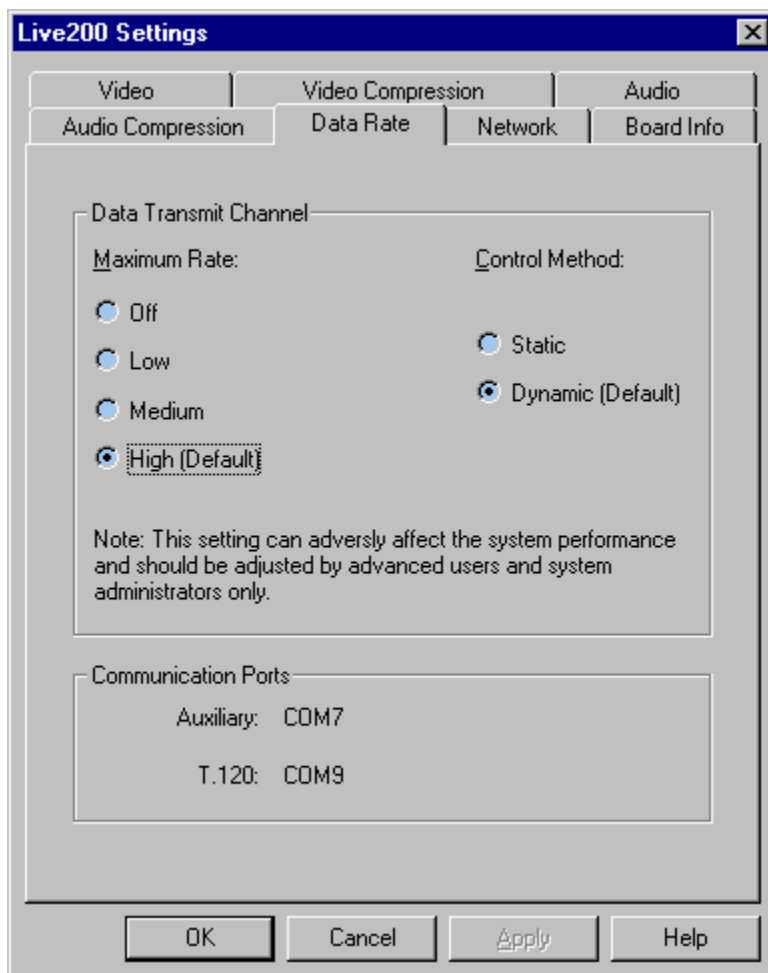
When you make an audio-only call, G.711 audio compression is used. The default voice coding is automatically set based upon the ISDN protocol being used. You can override the default by choosing one of the following **Default voice coding** options:

- **A-law** - This is the preferred mode for calling in most European countries. Typically, most countries using the PAL video standards use A-law.
- **Mu-law** - This is the preferred mode for calling in North America and some parts of Japan. Typically, most countries using the NTSC video standards use mu-law.

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## Data Rate Settings

Click the **Data Rate** tab to display the Data Rate sheet.



You determine how much bandwidth you want to use for the data sharing portion of your call and whether you want that bandwidth to be fixed or to change. If you allocate a high amount of bandwidth for data, there is a quick response in the data sharing portion of the call. However, the more bandwidth you allocate to data the less that is available for video, which affects the quality of the video image. If you do not use data sharing, set the rate to **Off**. If you are using data sharing, it is recommended that you keep the **Maximum Rate** at the default of **High** and the **Control Method** at the default of **Dynamic**.

The communication ports that are assigned to the Auxiliary port and the T.120 port appear on this sheet.

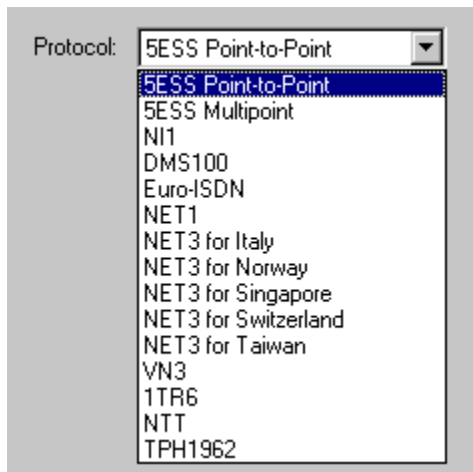
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## Network Settings

Click the **Network** tab to display your ISDN settings. Your network administrator or telephone company can provide you with the information needed for this sheet.



Select the ISDN protocol that you want to use in the **Protocol** listbox.



Your choices are as follows:

- **5ESS Point-to-Point** refers to the operation of one device on an ISDN line. With this service, only a single communications device is used for each BRI (Basic Rate Interface) line. This protocol is the default setting.
- **5ESS Multipoint** refers to the operation of multiple communications devices on an ISDN line. Service from a 5ESS Multipoint switch has one Service Profile Identifier (SPID) number.

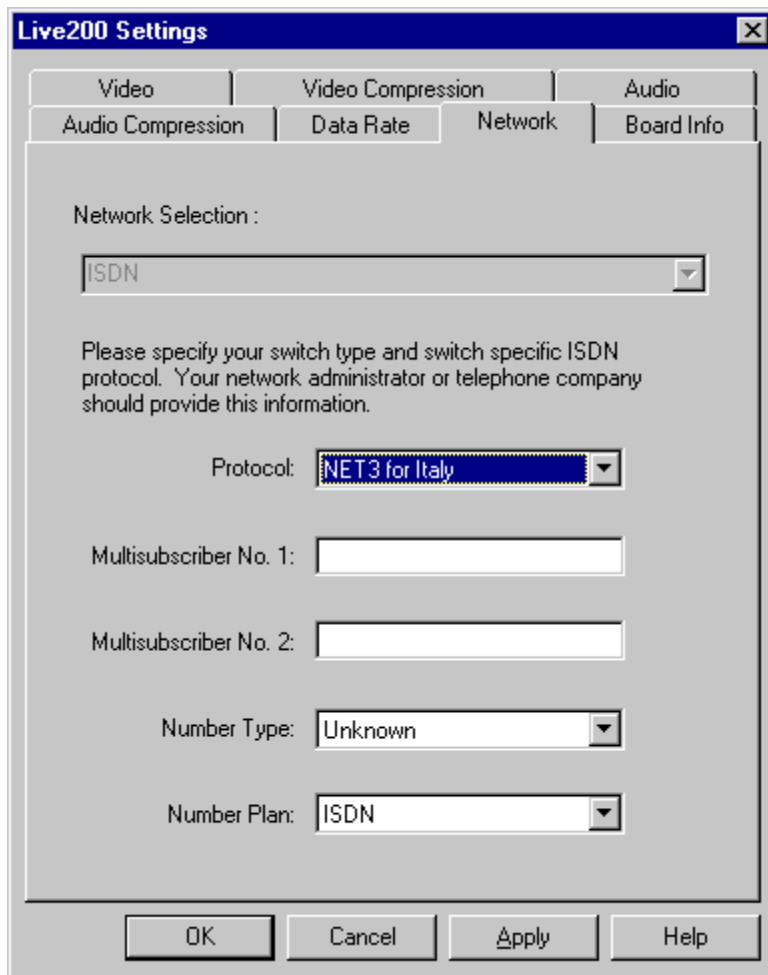
A SPID is a number assigned by your telephone company to each device connected to your ISDN line. SPIDs lets the telephone company know which ISDN services a given device can access.

When you choose this protocol, the **Channel One and Channel Two SPID** boxes appears. These SPIDs are used to identify a specific ISDN set when more than one set has been attached to the same central office (CO) line. Your ISDN service provider can give you the SPID number. Do not use punctuation or spaces between digits when you enter the SPID. Make sure that you enter the SPID numbers correctly or you cannot make or receive calls.

Select one of the following protocols if you are connected to a public network:

- Net-3 for Italy
- Net-3 for Norway
- Net-3 for Singapore
- Net-3 for Italy
- Net-3 for Switzerland
- Net-3 for Taiwan
- Euro-ISDN

When you select a Net-3 or Euro-ISDN protocol, the following sheet appears:



The following options are available:

The **Multisubscriber No. 1** and **Multisubscriber No. 2** (MSN) are for those switches outside the United States and Canada that permit multiple computers, each with a unique set of ISDN phone numbers, to be connected to a single line. To allow PictureTel Live200 to respond only to those incoming calls that are intended for your system, you must specify the MSNs that differentiate your system from other computers attached to the ISDN line.

Number Type provides Unused, International, National, Network Specific, and Subscriber selections.

Number Plan provides Unused, ISDN, Data (x.21), and Unknown selections.

- **NI1, DMS100**

If you choose NI1 or DMS100 the **Channel One SPID** and **Channel Two SPID** boxes appear. Service from these protocols have two Service Profile Identifier (SPID) numbers. The SPIDs are used to identify a specific ISDN set when more than one set has been attached to the same central office line. Your ISDN service provider can provide you with the SPID numbers. Do not use punctuation or spaces between digits when you enter the SPIDs. Make sure that you enter the SPID numbers correctly or you cannot make or receive calls.

- **NTT** (Nipon Telephone and Telegraph)

**Channel One MSN** and **Channel Two MSN** (Multiple Subscriber Number) boxes appear. MSNs are for those switches outside the United States and Canada that permit multiple terminals, each with a unique set of ISDN phone numbers, to be connected to a single line.

- TPH1962
- VN-3
- 1TR6

Select a number from the **Number Type** listbox. The numbering type is used for all calls. The type you choose is determined by the type of service you have. Your choices are as follows:

- Unknown
- International
- National
- Network Specific
- Subscriber
- Not used in listing

Select a number plan from the **Number Plan** listbox. The numbering plan is used for all calls. This plan is determined by the type of service you have. You can obtain this information from your ISDN service provider. Your choices are as follows:

- ISDN
- Data (x.121)
- Unknown
- Not used in listing

Select a number from the **Number Type** listbox. The numbering type is used for all calls. The type you choose is determined by the type of service you have. Your choices are as follows:

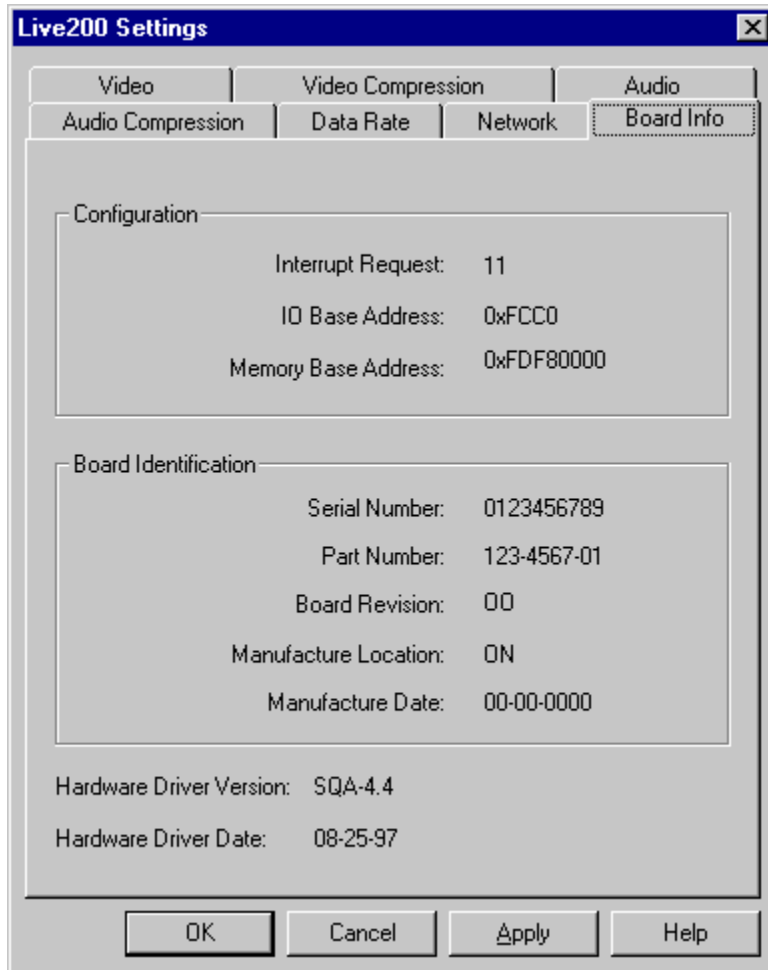
- Unknown
- International
- National
- Network Specific
- Subscriber
- Unused

Select a number plan from the **Number Plan** listbox. The numbering plan is used for all calls. This plan is determined by the type of service you have. You can obtain this information from your ISDN service provider. Your choices are as follows:

- ISDN
  - Data (x.121)
  - Unknown
  - Unused
-

## Board Info Settings

Click the **Board Info** tab to display the settings for your Live200 board. This information can be useful if you need to call your PictureTel service provider.



**Note:** The Serial Number and Part number may be unavailable.

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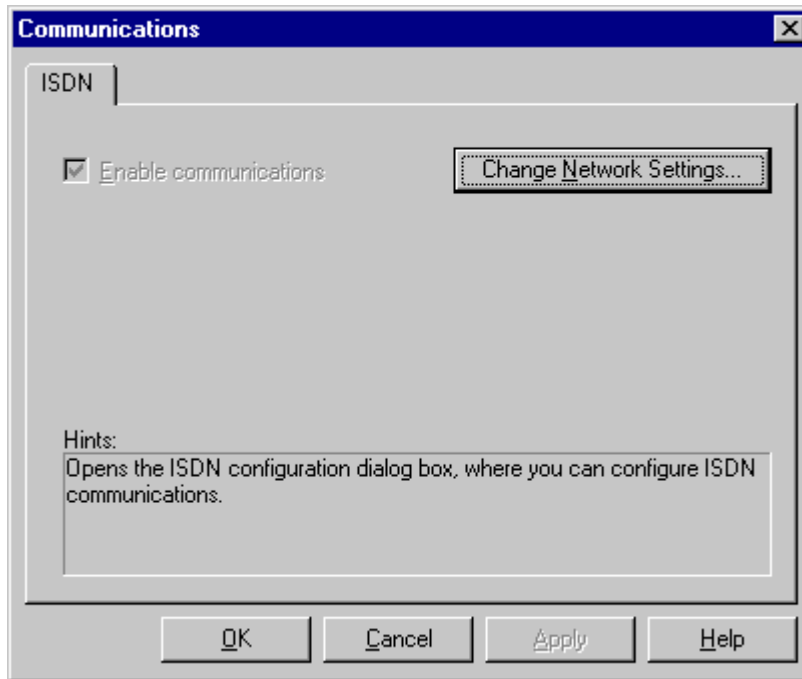
## Communication Settings

The Communications dialog box lets you reconfigure network transports.

To open the Communications dialog box:

Click Communications from the Tools menu in the Main toolbar or click the Communications button (if you added this button to the toolbar).

The Communications dialog box appears with the ISDN sheet displayed.



Make sure **Enable communications** is checked, so you can make video calls. When you click the **Change Network Settings** button, the Network sheet appears. See the section earlier in this chapter or the online help for more information on the Network settings sheet.

# Terminology

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## Overview

The following key terms explain the main aspects of Live200. The online glossary defines other terms that are useful in understanding Live200 functionality. You can access the online glossary from the online Help.

Click the following links for additional information:

- [Videoconference](#)
  - [Networks and Protocols](#)
- 

## Videoconference

- **Bridge** is a software-controlled switching device that interconnects multiple H.320-compliant videoconferencing systems. The term Multipoint Control Unit (MCU) is also used. To join a multipoint video conference, you and the other conference attendees dial into a bridge at a pre-arranged time.
  - **Local Video window** displays the image you are sending to your calling partner. You can adjust the brightness, contrast, and color of your image.
  - **Remote Video window** displays the image you are receiving from your calling partner.
  - **Address Book** lets you store, group (address book lists), and dial frequently called numbers.
  - **Address book list** is an individual database in the Address Book that contains names, phone numbers, and locations. You can share address book lists with others.
  - **Hotlist** lets you create a speed-dial list of your most-frequently dialed phone numbers.
  - **Call log** list lets you view a list showing the history of incoming and outgoing calls.
- 

## Networks and Protocols

- **Integrated Services Digital Network (ISDN)** is a telecommunication standard that is capable of sending digitally encoded voice, data, video, and other signals on the same lines.
- **Basic Rate Interface (BRI)** is an interface between a user and an ISDN switch. The BRI specifies two 64-kilobit per second (kbps) B channels (for voice and data) and one 16-kbps D channel (for customer and call information).
- **Internetwork Packet Exchange (IPX)** is a network layer protocol responsible for addressing and routing packets to nodes on other networks.
- **Local Area Network (LAN)** is a short-distance data communications network used to link together computers and peripheral devices, such as printers. Each computer on a LAN is equipped with a network adapter board and is connected to the network by a cable. A LAN allows users to share applications, data, and peripherals across the network.
- **Modem** is a communications device that transmits signals over analog or digital telephone lines.
- **Network Basic Input/Output System (NetBIOS)** is a network communications protocol that allows computer applications and devices to communicate over a LAN.

- **H.320** is an international standard published by the International Telecommunications Union (ITU) that defines how video, audio, and other data should operate over a switched digital network.
  - **T.120** is a collection of data-oriented conferencing specifications published by the ITU. These specifications, which have been under development for several years, enable vendors to create compatible products for multi-player gaming, multi-user applications, and multipoint data conferencing.
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