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Multimedia

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Adjusting Volume

Volume can be adjusted by using the audio buttons on the notebook or by using operating system or application volume control software. The mute button overrides all software volume settings.

To adjust volume using the audio buttons:

- To increase volume, press the increase volume button ❶.
- To decrease volume, press the decrease volume button ❷.
- To mute or restore volume, press the mute button ❸.

When volume is muted, the mute light ❹ turns on. When volume is restored, the mute light turns off.



Identifying the audio buttons and mute light

Using the Internal Speakers

The internal speakers play sound in stereo from applications, the operating system, games, drive media, the Internet, and other sources.

If an external device, such as a headset, is connected to the audio-out jack, the internal speakers are disabled.



Identifying the internal speakers

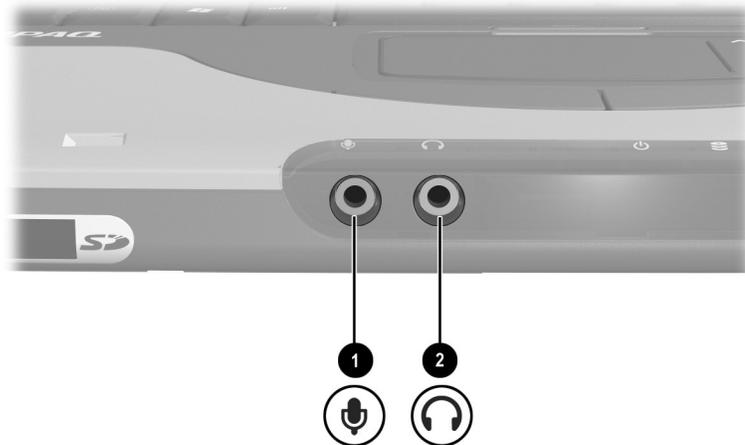
Connecting an Audio Device

WARNING: To reduce the risk of personal injury, adjust the volume before putting on headphones or a headset.

CAUTION: To prevent possible damage to an external device, do not plug a monaural (single sound channel) plug into the audio-out jack.

The notebook has 2 audio jacks:

- The microphone jack ❶ connects an optional monaural or stereo microphone. If a monaural microphone is connected, the same information is recorded on both channels.
- The audio-out jack ❷, sometimes called a *line-out* jack, connects headphones or powered external stereo speakers. The audio-out jack is also used to connect the audio functions of an audio/video device such as a television or VCR. When you connect a device to the audio-out jack:
 - ❑ Use only a 3.5-mm plug.
 - ❑ The internal speakers are disabled.



Identifying the audio jacks

Connecting an S-Video Device

Connecting the Audio

The S-Video jack supports video signals only.

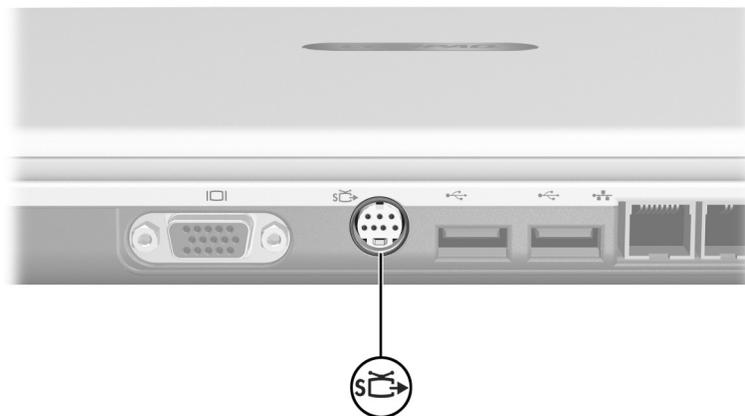
If you are setting up a configuration that combines audio and video functions, such as playing a DVD movie on your notebook and displaying it on your television, you will need a standard 3.5-mm audio cable available from most computer or electronics retailers.

Plug the stereo end of the audio cable into the notebook audio-out jack. Plug the other end of the cable into the audio *input* jack on the external device.

Connecting the Video

To transmit video signals through the S-Video jack, you will need a standard S-Video cable available from most computer or electronics retailers.

Plug either end of the S-Video cable into the notebook S-Video jack. Plug the other end of the cable into the S-Video *input* jack on the external device.



Identifying the S-Video jack

Turning a Video Device On and Off

To turn on a video device that is connected to the notebook, start or restart the notebook. Or, repeatedly press the **Fn+F4** hotkeys to switch the image. Pressing the **Fn+F4** hotkeys switches the image among the notebook display, any connected displays, and simultaneous display on the notebook and all connected displays.

- Switching the image to a connected video device turns on the video device.
- Switching the image to the notebook display only turns off the video device.

Changing the Color Television Format

Color television formats are modes by which television video signals are sent and received. To send signals between the notebook and a television, both the notebook and the television must be using the same color television format.

The NTSC format is common in the United States, Canada, Japan, and South Korea. The PAL format is common in Europe, China, Russia, and Africa, and the PAL-M format is common in Brazil. Other South American and Central American countries may use NTSC, PAL, or PAL-M.

Region-specific formats are set at the factory for most notebooks, but the region setting can be changed on any notebook.

Color television format settings are changed in the Setup utility. The Setup utility is not a Windows utility and does not support the TouchPad. For information about using the Setup utility, see the “Using the Setup Utility” section in Chapter 9.

Using Multimedia Software

Using Windows Media Player

Use Windows Media Player primarily for playing audio CDs. Although video CDs can be played using Windows Media Player, InterVideo WinDVD provides higher quality playback.

To open Windows Media Player, insert a CD into the optical drive, then close the tray. Wait several seconds. If Windows Media Player does not open, select Start > All Programs > Windows Media Player.

To play or stop the CD, use the on-screen Play button or Stop button, or use the media hotkeys described in the “Hotkeys” section of Chapter 3.

Using WinDVD

WinDVD is an application that enables you to play DVD movies or video CDs. If WinDVD is included with your notebook, the application is preinstalled.

Playing a DVD or Video CD

For best playback quality, save and close all files and software unrelated to playing the DVD or video CD.

If a DVD displays a Playback Of Content From This Region Is Not Permitted error message, stop the DVD, change the region setting, then restart the DVD. For information about changing the region setting, see “Managing DVD Region Settings” next in this chapter.

To play a DVD or video CD:

1. Insert the DVD or video CD into the optical drive.
2. Assign WinDVD to play the video:
 - ❑ If the Microsoft Windows XP AppPicker window is displayed, select Play Video By Using WinDVD.

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- ❑ If the Microsoft Windows XP AppPicker window is not displayed, select Start > All Programs > InterVideo WinDVD > InterVideo WinDVD.

3. Follow the instructions on the screen.

Managing DVD Region Settings

Most DVDs that contain copyrighted files also contain region codes. The region codes help protect copyrights internationally.

You can play a DVD containing a region code only if the region code on the DVD matches the region setting on your DVD drive.

If the region code on a DVD does not match the region setting on your drive, a Playback Of Content From This Region Is Not Permitted message is displayed when you insert the DVD. To play the DVD, you must change the region setting on your DVD drive.

 **CAUTION:** The region setting on your DVD drive can be changed only 5 times.

- The region setting you select the fifth time becomes the permanent region setting on the drive.
- The number of allowable region changes remaining on the drive is displayed in the Remaining Times Until Permanent field in the WinDVD window. The number in the field includes the fifth and permanent change.

To change the region setting on drive media:

1. Insert the DVD into the optical drive.
2. If WinDVD does not open after a short pause, select Start > All Programs > InterVideo WinDVD > InterVideo WinDVD.
3. Select the Properties icon in the lower right corner of the window.
4. Select the General tab.
5. Select the button for the region.
6. Select the OK button.

Using Easy CD Creator

Easy CD Creator is a data transfer utility that enables you to create or duplicate optical drive media. The utility is installed on select models and can be used with any CD or DVD supported by any optical drive in the system.

When Easy CD Creator is installed, a “Burn CD & DVDs with Roxio” icon is displayed at Start > All Programs > Start Menu.

Understanding Easy CD Creator Features

Easy CD Creator includes 2 applications: DirectCD and Easy CD Creator. The Easy CD Creator application includes CD Copier.

- Use DirectCD with Windows Explorer to drag-and-drop data files between your hard drive and a CD or DVD or between your hard drive and a network drive. DirectCD is often used to back up data files or to share them with other people. Although DirectCD can be used with most application data files, including Microsoft Office data files, it cannot be used with audio files such as MP3 files.
- Use Easy CD Creator, which includes CD Copier, to copy either data files such as Microsoft Office files, or audio files such as MP3 files, to a CD or DVD.
 - Use Easy CD Creator to copy individual audio files to a CD or DVD, for example, to create a CD containing only your favorites.
 - Use CD Copier to duplicate a CD or DVD.

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Preparing to Use Easy CD Creator



CAUTION: To prevent loss of work and damage to a CD or DVD:

- Before writing to a CD or DVD, connect the notebook to a reliable external power source. Do not write to a CD or DVD while the notebook is running on battery power.
 - Before writing to a CD or DVD, close all open applications (including screen savers and antivirus software) except Easy CD Creator Basic.
 - Do not copy directly from a CD or DVD to another CD or DVD or from a network drive to a CD or DVD. Instead, copy from a CD, DVD, or a network drive to your hard drive, then copy from your hard drive to the CD or DVD.
 - Do not type on the notebook keyboard or move the notebook while the notebook is writing to a CD or DVD. The write process is sensitive to vibration.
-

Choosing Recording Media

Compaq recommends using high-quality media that correspond to the maximum speed of the optical drive. The notebook can write or copy to CDs and DVDs which provide one-time, non-erasable recording or to CDs and DVDs which provide erasable recording.

Responding to the UDF Prompt

The first time you insert a CD or DVD into an optical drive, you may be prompted to install Universal Disk Format (UDF) Reader. When UDF Reader is installed, a CD or DVD created with DirectCD on your notebook can be used in another computer on which DirectCD is not installed.



Even if UDF Reader is installed on your notebook, a CD or DVD created with DirectCD software can be used in a compatible optical drive only if you select the Rearrange the Files option as you create the CD or DVD.

Formatting Recording Media

You can purchase optical drive media that either are or are not formatted for DirectCD.

- To use DirectCD, use a CD or DVD formatted for DirectCD.
- To use Easy CD Creator or CD Copier, do not use a CD or DVD formatted for DirectCD.

To erase DirectCD formatting from a CD or DVD so the CD or DVD can be used with Easy CD Creator or CD Copier:

1. Insert the CD or DVD into the optical drive.
2. Select Start > All Programs > Easy CD Creator Basic > CD-RW Eraser.
3. Select the Erase button.
4. Select the OK button.

Selecting Easy CD Creator Settings

To use DirectCD, Easy CD Creator, or CD Copier, the default settings shown in the following table must be selected. These settings are compatible; for example, the settings for DirectCD do not conflict with the settings for CD Copier.

Application	Required Settings
DirectCD	Enable Auto Insert Notification
Easy CD Creator	Disable Disk-at-Once and Enable Track-at-Once
CD Copier	Disable Disk-at-Once

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- Auto Insert Notification settings are selected through the operating system.
- To select Disk-at-once settings:
 1. Select Start > All Programs > Roxio Easy CD Creator 5 > Applications > CD Copier.
 2. Select the Advanced tab.
 3. Clear the Disk-at-Once check box.
 4. Select the Set as Default button.
- To select Track-at-once settings:
 1. Select Start > All Programs > Roxio Easy CD Creator 5.
 2. The fourth item on the status bar at the lower edge of the CD Project window indicates whether Track-at-Once or Disk-at-Once is selected.
 - ◆ If Track-at-Once is displayed on the status bar, Track-at-Once is already enabled.
 - ◆ If Disk-at-Once is selected, double-click Disk-at-Once to enable Track-at-Once.

7

Communications

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Modem

All notebook models include an RJ-11 telephone jack, and some models ship with a preinstalled modem. A modem cable with RJ-11 connectors at each end is included with select models.

You need a modem cable to connect a modem. If your model did not include a modem cable, a modem cable can be purchased from most computer or electronics retailers.

If you purchased a notebook with an internal modem in a country where RJ-11 telephone jacks are not standard, a country-specific modem adapter is included with the notebook.

An internal modem supports:

- All applications supported by the operating system.
- V.34 ITU (International Telecommunications Union) analog modem recommendations for speeds up to 33.6 Kbps.
- V.44 data compression algorithm.
- V.90/V.92 ITU digital/analog modem pair recommendations for speeds up to 56 Kbps.

The digital/analog modem pair rates allow faster downloads only from compliant digital sources. Maximum achievable download rates are currently unknown, may not reach 56 Kbps, and will vary with line conditions. Maximum achievable upload rates are limited to 48 Kbps, may not reach 48 Kbps, and will vary with line conditions.

Connecting the Modem

Selecting Connectors

A modem must be connected to an analog telephone line.

 **WARNING:** To reduce the risk of electric shock, fire, or damage to the equipment, do not plug a telephone cable into the RJ-45 network jack.

 **CAUTION:** Jacks for digital PBX systems may resemble RJ-11 telephone jacks, but are not compatible with the modem.

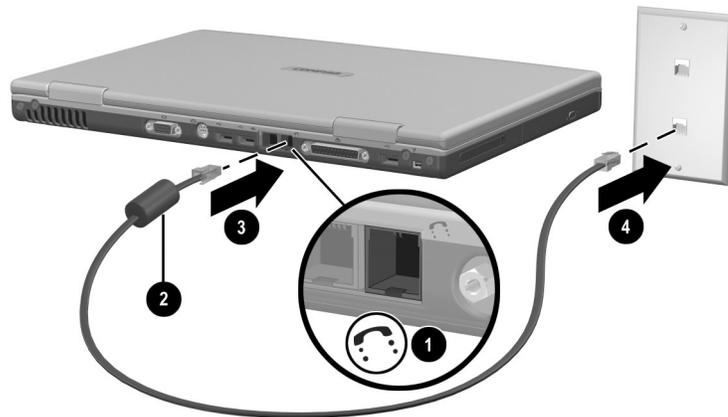
Jacks for analog telephone lines and procedures for connecting the modem vary by country:

- If you are connecting a modem in a country where RJ-11 telephone jacks are standard, follow the instructions in “Connecting a Modem to an RJ-11 Jack” next in this section.
- If you are connecting a modem in a country where RJ-11 telephone jacks are not standard, a modem adapter specific to the country in which you purchased the notebook is included with the notebook. Follow the instructions in “Connecting a Modem with an Adapter” later in this section.
- If you plan to use a modem outside the country in which you purchased the notebook, you can purchase adapters specific for the countries on your itinerary from most computer or electronics retailers. For information about using country-specific software configurations, see “Using the Modem While Traveling Internationally” later in this section.

Connecting a Modem to an RJ-11 Jack

To connect a modem to an analog telephone line that has an RJ-11 telephone jack:

1. Identify the RJ-11 **1** jack on the notebook.
2. If your modem cable has noise suppression circuitry **2**, which prevents interference with TV and radio reception, orient the circuitry end of the cable toward the notebook.
3. Plug the modem cable into the RJ-11 telephone jack (not the RJ-45 network jack) on the notebook **3**.
4. Plug the other end of the modem cable into an RJ-11 telephone jack (not into an RJ-45 network jack or a PBX jack) **4**.



Connecting a modem to an RJ-11 telephone wall jack (Telephone wall jacks vary in appearance by region and country.)

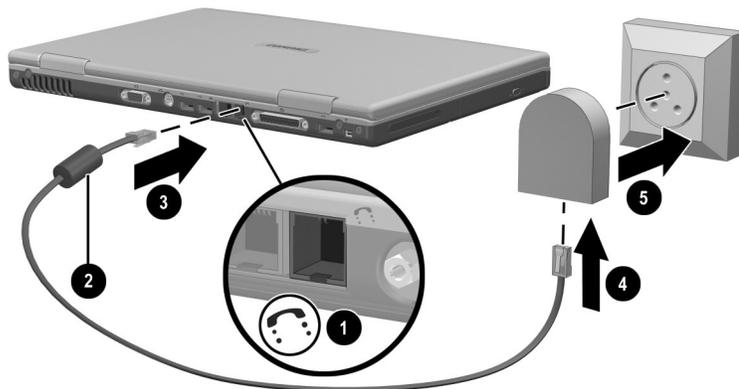


WARNING: To reduce the risk of electric shock, disconnect the modem from the telephone network before accessing an internal compartment of the notebook. Internal compartments include the memory compartment and the battery and hard drive bays.

Connecting a Modem with an Adapter

To connect a modem to an analog telephone line that does not have an RJ-11 telephone jack:

1. Identify the RJ-11 jack **1** on the notebook.
2. If the modem cable has noise suppression circuitry **2**, which prevents interference with TV and radio reception, orient the circuitry end of the cable toward the notebook.
3. Plug the modem cable into the RJ-11 telephone jack (not the RJ-45 network jack) on the notebook **3**.
4. Plug the modem cable into the country-specific modem adapter **4**.
5. Plug the country-specific modem adapter into the telephone jack **5**.



Connecting a modem with a modem adapter (Telephone wall jacks vary in appearance by region and country.)



WARNING: To reduce the risk of electric shock, disconnect the modem from the telephone network before accessing an internal compartment of the notebook. Internal compartments include the memory compartment and the battery and hard drive bays.

Using the Modem While Traveling Internationally

An internal modem is configured to function in, and meet the operating standards of, the country in which you purchased the notebook. To use an internal modem in other countries, you must add country-specific modem configurations.

Displaying the Current Country Configuration

To display the current country configuration, select Start > Control Panel > Date, Time, Language, and Regional Options category > Regional and Language Options icon > Regional Options tab. The current country configuration of the modem is displayed in the Location panel.

Adding a Country Configuration

 **CAUTION:** To prevent the loss of your current country configuration, do not delete or replace your current country configuration. Additional country configurations can be added without deleting the current configuration.

 **CAUTION:** To prevent modem malfunction and violation of telecommunications regulations and laws, use the modem only with the country configuration for the country in which you are using the modem.

To add a country configuration:

1. Select Start > Control Panel > Network and Internet Connections category.
2. From the See Also menu in the left column of the window, select Phone and Modem Options > Dialing Rules tab.
3. Select the New button, then type a name for the new location in the Location Name field.

4. Select a country or region for the new location from the Country/Region list.

If you select a country or region that is not supported by the modem, the country configuration defaults to USA or UK.

5. Select the OK button > OK button.

Solving Travel Connection Problems

If you experience connection problems while using a modem outside the country in which you purchased the notebook, the following suggestions may be helpful.

Before changing any settings, you may want to write down your current settings so you can quickly replace those settings when you return home.

Check the Line

A modem requires an analog, not a digital, telephone line. A line described as a PBX line is usually a digital line. A telephone line described as a data line, fax machine line, modem line, or standard telephone line is probably an analog line.

Check the Dialing Mode

Dial a few digits on the telephone, then listen for clicks or tones. Clicks indicate that the telephone line supports pulse dialing. Tones indicate that the telephone line supports tone dialing. To set an internal modem to support a dialing mode:

1. Select Start > Control Panel > Network and Internet Connections category.
2. From the See Also menu in the left column of the window, select Phone and Modem Options > Dialing Rules tab.
3. Select your location, then select the Edit button.
4. Select the Tone or Pulse radio button.
5. Select the OK button > OK button.

Check the Telephone Number

Dial the telephone number on the telephone, verify that the remote modem is answering, then hang up.

Check the Dial Tone

If a modem receives a dial tone it does not recognize, the modem will not dial and will display a No Dial Tone error message.

- To set the modem to ignore all dial tones before dialing:
 1. Select Start > Control Panel > Network and Internet Connections category.
 2. From the See Also menu in the left column of the window, select Phone and Modem Options > Modems tab.
 3. Select your modem > Properties button > Modem tab.
 4. Clear the Wait For Dial Tone Before Dialing check box.
 5. Select the OK button > OK button.
- If you continue to receive the No Dial Tone error message after clearing the check box:
 1. Select Start > Control Panel > Network and Internet Connections category.
 2. From the See Also menu in the left column of the Network and Internet Connections window, select Phone and Modem Options > Dialing Rules tab.
 3. Select your location, then select the Edit button.
 4. Select your location from the Country/Region list.

If you select a country or region that is not supported by the modem, the country configuration defaults to USA or UK.
 5. Select the OK button.
 6. In the Phone and Modem Options window, select the Modems tab.

7. Select your modem > Properties button > Modem tab.
8. Clear the Wait For Dial Tone Before Dialing check box.
9. Select the OK button > OK button.

Accessing Communication Software

To access preinstalled modem software, including software for terminal emulation and data transfer, select Start > All Programs > Accessories > Communications, then select an application, wizard, or utility.

Finding AT Command Information

It is not necessary to use AT commands with most modem software. If you prefer to use AT commands, refer on the *Documentation Library* CD to:

- *Modem Commands Guidelines (Advanced Users Only)* for information about accessing Hyperterminal, identifying the modem model in your notebook, and using AT commands.
- *The Lucent/Agere Command Set (Advanced Users Only)* guide for the AT commands supported by a Lucent/Agere modem. If your notebook shipped with an internal modem, that modem supports the Lucent/Agere command set. For command updates and supplementary information about your Lucent/Agere modem, visit:

<http://www.agere.com>

The Lucent/Agere command set guide is provided on the *Documentation Library* CD in English only.

Network

All notebook models ship with an RJ-45 network jack. A network cable with RJ-45 connectors at each end is included with select models.

The notebook can be connected to a network whether or not the internal modem is connected to a telephone line.

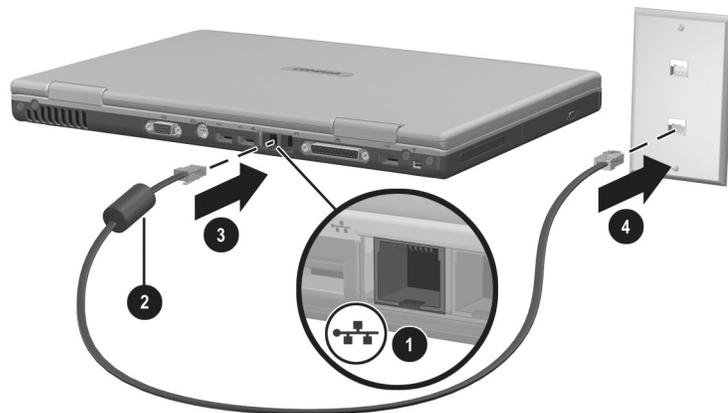
If your notebook is connected to a network, you may want to confer with your network administrator before changing network settings.

The notebook supports network speeds up to 10 Mbps when connected to a 10BaseT network and 100 Mbps when connected to a 100BaseTX network.

Connecting the Network Cable

A network cable has an 8-pin RJ-45 network connector at each end and may contain noise suppression circuitry, which prevents interference with TV and radio reception. To connect the cable:

1. Identify the RJ-45 network jack **1** on the notebook.
2. Orient the end of a network cable with noise suppression circuitry **2** toward the notebook.
3. Plug the network cable into the notebook RJ-45 network jack **3**.
4. Plug the other end of the cable into the network RJ-45 jack **4**.



Connecting a network cable



WARNING: To reduce the risk of electric shock, disconnect the network cable before accessing an internal compartment of the notebook. Internal compartments include the memory compartment and the battery and hard drive bays.

Turning a Network Connection Off and On

To conserve power, turn off a network connection you are not using.

- To turn off a network connection, log off the network, then disconnect the network cable.
- To turn on a network connection, connect the network cable, then log on to the network.

Accessing the Network at Startup

To connect the notebook to a PXE (Preboot eXecution Environment) server during startup, you must enable the internal NIC for startup, then respond to the Network Service Boot prompt each time you want to connect to the server.

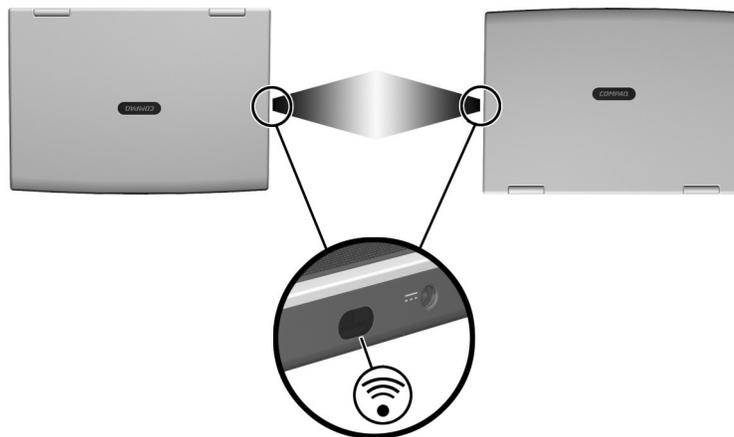
- To enable the NIC for startup and set the notebook to display the Network Service Boot prompt each time the notebook is started or restarted, set your preferences in the Setup utility. The Setup utility is not a Windows utility and does not support the TouchPad. For more information about using the Setup utility, refer to the “Using the Setup Utility” section in Chapter 9 of this guide.
- To respond to the Network Service Boot prompt, press **F12** while the prompt **F12 = Boot from LAN** appears very briefly in the lower left corner of the screen before Windows loads.

Infrared

The notebook is IrDA-compliant and can communicate with another infrared-equipped device that is also IrDA-compliant. The IrDA connection speed standard is 4 megabits per second (Mbps).

The infrared port supports low-speed connections up to 115 kilobits per second (Kbps) as well as high-speed connections up to 4 Mbps.

Infrared signals are sent through an invisible beam of infrared light and must have an unobstructed line of sight. Infrared performance may vary with the performance of infrared peripherals, the distance and angle between infrared devices, and the applications being used.



Linking to an infrared device

Setting Up an Infrared Transmission

For information about using infrared software and enabling or disabling infrared ports, refer to the operating system Help files and to the documentation included with the external infrared device.

To set up 2 infrared devices, such as the notebook and an optional printer, for optimal transmission:

- Position the devices so that their infrared ports face each other at a distance of no more than 3.3 feet (1 meter).
- Position the ports so that they face each other directly. The maximum capture angle is 30 degrees, so the ports must be aligned no more than 15 degrees off center vertically or horizontally.
- Shield the ports from direct sunlight, flashing incandescent light, and fluorescent light.
- Be sure that signals from a remote control or other wireless device (such as a cell phone, a headset, or an audio device) do not aim at either port.
- During the transmission, do not move either device and do not allow objects or movement to disrupt the beam.

Avoiding Standby While Using Infrared

Standby is not compatible with infrared transmission. If the notebook is in Standby, an infrared transmission cannot be initiated.

If Standby initiates *during* an infrared transmission, the transmission stops. To resume from Standby, briefly press the power button. The transmission resumes when the notebook resumes from Standby.