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You can read the recommendations in the user guide, the technical guide or the installation guide for COMPAQ PRESARIO NOTEBOOK PC. You'll find the answers to all your questions on the COMPAQ PRESARIO NOTEBOOK PC in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual COMPAQ PRESARIO NOTEBOOK PC**  
**User guide COMPAQ PRESARIO NOTEBOOK PC**  
**Operating instructions COMPAQ PRESARIO NOTEBOOK PC**  
**Instructions for use COMPAQ PRESARIO NOTEBOOK PC**  
**Instruction manual COMPAQ PRESARIO NOTEBOOK PC**

Compaq Presario Notebook PC  
User guide



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**Manual abstract:**

Microsoft and Windows are U.S. registered trademarks of Microsoft Corporation. The information contained herein is subject to change without notice.

HP shall not be liable for technical or editorial errors or omissions contained herein. First Edition: March 2010 Document Part Number: 610545-001 Product notice This user guide describes features that are common to most models. Some features may not be available on your computer. To obtain the latest information in the Notebook PC User Guide, go to the HP Web site at <http://www.hp.com/support>.

Safety warning notice **WARNING!** To reduce the possibility of heat-related injuries or of overheating the computer, do not place the computer directly on your lap or obstruct the computer air vents. Use the computer only on a hard, flat surface. Components ...

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*111 x 1 Features Identifying hardware To see a list of hardware installed in the computer, follow these steps: Select Start > Control Panel > System and Security. Then, in the System area, click Device Manager. You can also add hardware or modify device configurations using Device Manager. NOTE: Windows® includes the User Account Control feature to improve the security of your computer. @@Refer to Help and Support for more information. Identifying hardware 1 Components Top components TouchPad Component (1) TouchPad on/off indicator Description To turn the TouchPad on and off, quickly double-tap the TouchPad on/off indicator. NOTE: When the TouchPad is enabled, the light is off. (2) (3) (4) TouchPad zone\* Left TouchPad button\* Right TouchPad button\* Moves the pointer and selects or activates items on the screen. Functions like the left button on an external mouse. Functions like the right button on an external mouse.*

*\*This table describes factory settings. To view or change pointing device preferences, select Start > Devices and Printers. Then, right-click the icon representing your device, and select Mouse settings. There is an unmarked scroll zone inside the right edge of the TouchPad. To scroll up and down using the TouchPad vertical scroll zone, slide your finger up or down inside the right edge of the TouchPad. For more information about TouchPad features, refer to "Using the TouchPad" section later in this guide. 2 Chapter 1 Features Lights Component (1) TouchPad light Description Amber: The TouchPad is disabled. Off: The TouchPad is enabled. (2) (3) Caps lock light Power light On: Caps lock is on. On: The computer is on. Blinking: The computer is in the Sleep state. Off: The computer is off or in Hibernation. White: An integrated wireless device, such as a wireless local area*

*network (WLAN) device and/or a Bluetooth® device, is on. Amber: All wireless devices are off. (4) Wireless light Components 3 Button and speakers Component (1) (2) Speakers (2) Power button Description Produce sound.*



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When the computer is off, press the button to turn on the computer. When the computer is on, press the button briefly to initiate Sleep. When the computer is in the Sleep state, briefly press the button to exit Sleep. When the computer is in Hibernation, briefly press the button to exit Hibernation. If the computer has stopped responding and Windows shutdown procedures are ineffective, press and hold the power button for at least 5 seconds to turn off the computer.

To learn more about your power settings, select Start > Control Panel > System and Security > Power Options. 4 Chapter 1 Features Keys Component (1) (2) esc key fn key Description Displays system information when pressed in combination with the fn key. Displays system information when pressed in combination with the esc key. Press in combination with an Up, Down, Left, or Right arrow key to navigate a page or document. (3) (4) (5) (6) Windows logo key Windows applications key Navigation keys Action keys Displays the Windows Start menu. Displays a shortcut menu for items beneath the pointer. Navigate using the Up, Down, Left, and Right arrow keys. Execute frequently used system actions. Components 5 Display Component (1) (2) (3) Internal microphone Integrated webcam (select models only) Integrated webcam light (select models only) Description Records sound. Records video and captures still photographs.

On: The integrated webcam is in use. 6 Chapter 1 Features Front component Component Digital Media Slot Description Supports the following optional digital card formats: Memory Stick (MS) Memory Stick Pro (MSP) MultiMediaCard (MMC) Secure Digital (SD) Memory Card xD-Picture Card (xD) Components 7 Right-side components Component (1) (2) (3) (4) Optical drive light Optical drive USB ports (2) AC adapter/battery charging light Description Blinking: The optical drive is being accessed. Reads and writes to optical discs. Connect optional USB devices. White: The computer is connected to external power and the battery is fully charged. Blinking white: The computer is in the Sleep state. Amber: A battery is charging. Off: The computer is not connected to external power. (5) Power connector Connects an AC adapter. 8 Chapter 1 Features Left-side components Component (1) Security cable slot Description Attaches an optional security cable to the computer.

NOTE: The security cable is designed to act as a deterrent, but it may not prevent the computer from being mishandled or stolen. (2) Vent Enables airflow to cool internal components. NOTE: The computer fan starts up automatically to cool internal components and prevent overheating. It is normal for the internal fan to cycle on and off during routine operation. (3) (4) (5) (6) (7) (8) (9) External monitor port RJ-45 (network) jack HDMI port (select models only) USB port Audio-in (microphone) jack Audio-out (headphone) jack Drive light Connects an external VGA monitor or projector. Connects a network cable. Connects an optional video or audio device, such as a highdefinition television, or any compatible digital or audio component. Connects optional USB devices. Connects an optional computer headset microphone, stereo array microphone, or monaural microphone. Produces sound when connected to optional powered stereo speakers, headphones, earbuds, a headset, or television audio.

On: The hard drive or the optical drive is in use. Components 9 Rear component Component Vent Description Enables airflow to cool internal components. NOTE: The computer fan starts up automatically to cool internal components and prevent overheating. It is normal for the internal fan to cycle on and off during routine operation. 10 Chapter 1 Features Bottom components Component (1) (2) Battery bay Vents (6) Description Holds the battery. Enable airflow to cool internal components. NOTE: The computer fan starts up automatically to cool internal components and prevent overheating. It is normal for the internal fan to cycle on and off during routine operation. (3) (4) (5) Battery release latch Memory module compartment Hard drive bay Releases the battery from the battery bay. Contains 2 memory module slots.

Holds the hard drive and, on select models, the wireless LAN (WLAN) module. CAUTION: To prevent an unresponsive system, replace the wireless module only with a wireless module authorized for use in the computer by the governmental agency that regulates wireless devices in your country or region. If you replace the module and then receive a warning message, remove the module to restore computer functionality, and then contact technical support through Help and Support. Components 11 Wireless antennas At least 2 antennas send and receive signals from one or more wireless devices. These antennas are not visible from the outside of the computer. NOTE: For optimal transmission, keep the areas immediately around the antennas free from obstructions. To see wireless regulatory notices, refer to the section of the Regulatory, Safety and Environmental Notices that applies to your country or region. These notices are located in Help and Support. 12 Chapter 1 Features Additional hardware components Component (1) (2) (3) Power cord\* AC adapter Battery\* Description Connects an AC adapter to an AC outlet. Converts AC power to DC power.

Powers the computer when the computer is not plugged into external power. \*Batteries and power cords vary in appearance by country or region. Components 13 Labels The labels affixed to the computer provide information needed when troubleshooting system problems or traveling internationally with the computer. Service tag--Provides important information including: The service tag label is affixed inside the battery bay. When contacting technical support, have this information available.

Item (1) (2) (3) Component Product name Serial number Description This is the product name affixed to the front of the computer. This is an alphanumeric identifier that is unique to each product. This is an alphanumeric identifier that provides specific information about the hardware components. The product number helps a service technician to determine what components and parts are needed. The duration (in years) of the warranty period for this computer.

This is an alphanumeric identifier that you use to locate documents, drivers, and support for your computer. (4) (5) Warranty period Model description (select models only) Microsoft Certificate of Authenticity--Contains the Windows Product Key. You might need the Product Key to update or troubleshoot the operating system. This certificate is affixed to the bottom of the computer. Regulatory label--Provides regulatory information about the computer. The regulatory label is affixed inside the battery bay. Wireless certification label(s) (select models only)--Provides information about optional wireless devices and the approval markings of some of the countries or regions where the devices have been approved for use.



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An optional device might be a wireless local area network (WLAN) device or an optional Bluetooth device. If the computer model includes one or more wireless devices, one or more certification labels are included with the computer. You might need this information when traveling internationally.

Wireless certification labels are affixed inside the battery bay. 14 Chapter 1 Features 2 Networking Using wireless devices Wireless technology transfers data across radio waves instead of wires. Your computer may be equipped with one or more of the following wireless devices: Wireless local area network (WLAN) device--Connects the computer to wireless local area networks (commonly referred to as Wi-Fi networks, wireless LANs, or WLANs) in corporate offices, your home, and public places such as airports, restaurants, coffee shops, hotels, and universities. In a WLAN, each mobile wireless device communicates with a wireless router or a wireless access point. Bluetooth device (select models only)--Creates a personal area network (PAN) to connect to other Bluetooth-enabled devices such as computers, phones, printers, headsets, speakers, and cameras. In a PAN, each device communicates directly with other devices, and devices must be relatively close together--typically within 10 meters (approximately 33 feet) of each other. Computers with WLAN devices support one or more of the following IEEE industry standards: 802.11b, the first popular standard, supports data rates of up to 11 Mbps and operates at a frequency of 2.4 GHz. 802.

11g supports data rates of up to 54 Mbps and operates at a frequency of 2.4 GHz. An 802.11g WLAN device is backward compatible with 802.11b devices, so they can operate on the same network.

802.11a supports data rates of up to 54 Mbps and operates at a frequency of 5 GHz. NOTE: 802.11a is not compatible with 802.11b and 802.

11g. 802.11n supports data rates of up to 450 Mbps and may operate at 2.4 GHz or 5 GHz, making it backward compatible with 802.11a, b, and g. For more information on wireless technology, refer to the information and Web site links provided in Help and Support. Using wireless devices 15 Identifying wireless and network status icons Icon Name Wireless (connected) Description Identifies the location of the wireless light and the wireless action key (f12) on the computer. Also identifies the HP Wireless Assistant software on the computer and indicates that one or more of the wireless devices are on. Identifies the HP Wireless Assistant software on the computer and indicates that all of the wireless devices are off. Indicates that one or more network drivers are installed, and one or more network devices are connected to a wired network.

Wireless (disconnected) Wired network (connected) Wired network (disabled/ disconnected) Indicates that one or more network drivers are installed, but no network devices are connected (or all network devices are disabled in Windows® Control Panel). Indicates that one or more network drivers are installed, and one or more network devices are connected to a wireless network. Indicates that one or more network drivers are installed and wireless connections are available, but no network devices are connected to a wireless network. Indicates that one or more network drivers are installed, but no wireless connections are available (or all wireless network devices are disabled by the wireless action key (f12) or HP Wireless Assistant). Network (connected) Network (disconnected) Network (disabled/ disconnected) Using the wireless controls You can control the wireless devices in your computer using these features: The wireless action key (f12) HP Wireless Assistant software Operating system controls Using the wireless action key The computer has a wireless action key (f12), one or more wireless devices, and a wireless light. All of the wireless devices on your computer are enabled at the factory, so the wireless light is on (white) when you turn on the computer. The wireless light indicates the overall power state of your wireless devices, not the status of individual devices. If the wireless light is on (white), at least one wireless device is on. If the wireless light is amber, all wireless devices are off. Because the wireless devices are enabled at the factory, you can use the wireless action key (f12) to turn on or turn off the wireless devices simultaneously.

Individual wireless devices can be controlled through HP Wireless Assistant. 16 Chapter 2 Networking Using HP Wireless Assistant A wireless device can be turned on or off using HP Wireless Assistant. If a wireless device is disabled in Setup Utility, it must be reenabled in Setup Utility before it can be turned on or off using Wireless Assistant. NOTE: Enabling or turning on a wireless device does not automatically connect the computer to a network or a Bluetooth-enabled device. To view the state of the wireless devices, click the Show hidden icons icon, the arrow at the left of the notification area, and then position the mouse pointer over the wireless icon.

If the wireless icon is not displayed in the notification area, complete the following steps to change Wireless Assistant properties: 1. 2. 3. 4. 5.

6. Select Start > Control Panel > Hardware and Sound > Windows Mobility Center. Click the wireless icon in the Wireless Assistant tile, which is located in the bottom row of Windows® Mobility Center. Wireless Assistant opens. Click Properties. Select the check box next to HP Wireless Assistant icon in notification area. Click Apply. Click Close. For more information, refer to the Wireless Assistant software Help: 1. 2.

Open Wireless Assistant by clicking the wireless icon in Windows Mobility Center. Click the Help button. Using operating system controls Some operating systems also offer a way to manage integrated wireless devices and the wireless connection. For example, Windows provides the Network and Sharing Center that allows you to set up a connection or network, connect to a network, manage wireless networks, and diagnose and repair network problems. To access the Network and Sharing Center, select Start > Control Panel > Network and Internet > Network and Sharing Center. For more information, select Start > Help and Support. Using wireless devices 17 Using a WLAN With a WLAN device, you can access a wireless local area network (WLAN), which is composed of other computers and accessories that are linked by a wireless router or a wireless access point. NOTE: The terms wireless router and wireless access point are often used interchangeably. A large-scale WLAN, such as a corporate or public WLAN, typically uses wireless access points that can accommodate a large number of computers and accessories and can separate critical network functions. A home or small office WLAN typically uses a wireless router, which allows several wireless and wired computers to share an Internet connection, a printer, and files without requiring additional pieces of hardware or software.



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To use the WLAN device in your computer, you must connect to a WLAN infrastructure (provided through a service provider or a public or corporate network). Setting up a WLAN To set up a WLAN and connect to the Internet, you need the following equipment: A broadband modem (either DSL or cable) (1) and high-speed Internet service purchased from an Internet service provider (ISP) A wireless router (purchased separately) (2) The wireless computer (3) The illustration below shows an example of a wireless network installation that is connected to the Internet. As your network grows, additional wireless and wired computers can be connected to the network to access the Internet. For help in setting up your WLAN, refer to the information provided by your router manufacturer or your ISP. 18 Chapter 2 Networking Protecting your WLAN Because the WLAN standard was designed with only limited security capabilities--basically to foil casual eavesdropping rather than more powerful forms of attack--it is essential to understand that WLANs are vulnerable to well-

known and well-documented security weaknesses.

WLANs in public areas, or "hotspots," like coffee shops and airports may not provide any security. New technologies are being developed by wireless manufacturers and hotspot service providers that make the public environment more secure and anonymous. If you are concerned about the security of your computer in a hotspot, limit your network activities to noncritical e-mail and basic Internet surfing. When you set up a WLAN or access an existing WLAN, always enable security features to protect your network from unauthorized access. The common security levels are Wi-Fi Protected Access (WPA) Personal and Wired Equivalent Privacy (WEP).

Because wireless radio signals travel outside the network, other WLAN devices can pick up unprotected signals and either connect to your network (uninvited) or capture information being sent across it. However, you can take precautions to protect your WLAN: Use a wireless transmitter with built-in security Many wireless base stations, gateways, or routers provide built-in security features such as wireless security protocols and firewalls. With the correct wireless transmitter, you can protect your network from the most common wireless security risks. Work behind a firewall A firewall is a barrier that checks both data and requests for data that are sent to your network, and discards any suspicious items. Firewalls are available in many varieties, both software and hardware. Some networks use a combination of both types. Use wireless encryption A variety of sophisticated encryption protocols is available for your WLAN. Find the solution that works best for your network security: Wired Equivalent Privacy (WEP) is a wireless security protocol that encodes or encrypts all network data before it is transmitted using a WEP key. Usually, you can allow the network to assign the WEP key. Alternatively, you can set up your own key, generate a different key, or choose other advanced options.

Without the correct key, others will not be able to use the WLAN. WPA (Wi-Fi Protected Access), like WEP, uses security settings to encrypt and decrypt data that is transmitted over the network. However, instead of using one static security key for encryptions as WEP does, WPA uses "temporal key integrity protocol" (TKIP) to dynamically generate a new key for every packet. It also generates different sets of keys for each computer on the network. Using a WLAN 19 Connecting to a WLAN To connect to the WLAN, follow these steps: 1. 2. 3. 4. Be sure that the WLAN device is on. If it is on, the wireless light is white.

If the wireless light is amber, press the wireless action key (f12). Click the network icon in the notification area, at the far right of the taskbar. Select your WLAN from the list. Click Connect. If the network is a security-enabled WLAN, you are prompted to enter a network security key, which is a security code. Type the code, and then click OK to complete the connection. NOTE: If no WLANs are listed, you are out of range of a wireless router or access point. NOTE: If you do not see the network you want to connect to, click Open Network and Sharing Center, and then click Set up a new connection or network. A list of options is displayed. You can choose to manually search for and connect to a network or to create a new network connection.

After the connection is made, place the mouse pointer over the network icon in the notification area, at the far right of the taskbar, to verify the name and status of the connection. NOTE: The functional range (how far your wireless signals travel) depends on WLAN implementation, router manufacturer, and interference from other electronic devices or structural barriers such as walls and floors. More information about using a WLAN is available through the following resources: Information from your ISP and the user guides included with your wireless router and other WLAN equipment Information and Web site links provided in Help and Support For a list of public WLANs near you, contact your ISP or search the Web. Web sites that list public WLANs include Cisco Internet Mobile Office Wireless Locations, Hotspotlist, and Geektools. Check with each public WLAN location for cost and connection requirements. Roaming to another network When you move your computer within range of another WLAN, Windows attempts to connect to that network. If the attempt is successful, your computer is automatically connected to the new network. If Windows does not recognize the new network, follow the same procedure you used initially to connect to your WLAN. 20 Chapter 2 Networking Using Bluetooth wireless devices (select models only) A Bluetooth device provides short-range wireless communications that replace the physical cable connections that traditionally link electronic devices such as the following: Computers (desktop, notebook, PDA) Phones (cellular, cordless, smart phone) Imaging devices (printer, camera) Audio devices (headset, speakers) Bluetooth devices provide peer-to-peer capability that allows you to set up a personal area network (PAN) of Bluetooth devices. For information on configuring and using Bluetooth devices, refer to the Bluetooth software Help.

Bluetooth and Internet Connection Sharing (ICS) HP does not recommend setting up one computer with Bluetooth as a host and using it as a gateway through which other computers may connect to the Internet. When two or more computers are connected using Bluetooth, and Internet Connection Sharing (ICS) is enabled on one of the computers, the other computers may not be able to connect to the Internet using the Bluetooth network. The strength of Bluetooth is in synchronizing information transfers between your computer and wireless devices including cellular phones, printers, cameras, and PDAs. The inability to consistently connect two or more computers to share the Internet through Bluetooth is a limitation of Bluetooth and the Windows operating system.



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Using Bluetooth wireless devices (select models only) 21 Troubleshooting wireless connection problems Some possible causes for wireless connection problems include the following: Network configuration (SSID or security) has been changed. Wireless device is not installed correctly or has been disabled. Wireless device or router hardware has failed. Wireless device encountered interference from other devices. NOTE: Wireless networking devices are included with select computer models only. If wireless networking is not listed in the feature list on the side of the original computer package, you may add wireless networking capability to the computer by purchasing a wireless networking device.

Before working your way through the sequence of possible solutions to your network connection problem, be sure that device drivers are installed for all wireless devices. Use the procedures in this chapter to diagnose and repair a computer that does not connect to the network you want to use. Cannot connect to a WLAN If you have a problem connecting to a WLAN, confirm that the integrated WLAN device is properly installed on your computer: NOTE: Windows includes the User Account Control feature to improve the security of your computer. @@Refer to Help and Support for more information. 1.

2. 3. 4. Select Start > Control Panel > System and Security. In the System area, click Device Manager.

Click the arrow next to Network adapters to expand the list and show all adapters. Identify the WLAN device from the Network adapters list. The listing for a

WLAN device may include the term wireless, wireless LAN, WLAN, Wi-Fi, or 802.11. If no WLAN device is listed, either your computer does not have an integrated WLAN device, or the driver for the WLAN device is not properly installed. For more information on troubleshooting WLANs, refer to the Web site links provided in Help and Support. 22 Chapter 2 Networking Cannot connect to a preferred wireless network Windows can automatically repair a corrupted WLAN connection: If there is a network icon in the notification area, at the far right of the taskbar, right-click the icon, and then click Troubleshoot problems.

Windows resets your network device and attempts to reconnect to one of the preferred networks. If there is no network icon in the notification area, follow these steps: 1. 2.

Select Start > Control Panel > Network and Internet > Network and Sharing Center. Click Troubleshoot problems and select the network you wish to repair. Network icon is not displayed If the network icon is not displayed in the notification area after you configure the WLAN, the software driver is either missing or corrupted. A Windows "Device not Found" error message may also be displayed. The driver must be reinstalled. Get the latest version of the WLAN device software and drivers for your computer from the HP Web site at <http://www.hp.com>. If the WLAN device you are using was purchased separately, consult the manufacturer's Web site for the latest software. To get the latest version of the WLAN device software for your computer, follow these steps: 1.

2. 3. 4. Open your Web browser and go to <http://www.hp.com/support>.

Select your country or region. Click the option for software and driver downloads, and then type your computer model number in the search box. Press enter, and then follow the on-screen instructions. NOTE: If the WLAN device you are using was purchased separately, consult the manufacturer's Web site for the latest software.

Current network security codes are unavailable If you are prompted for a network key or a name (SSID) when connecting to a WLAN, the network is protected by security. You must have the current codes to make a connection on a secure network. The SSID and network key are alphanumeric codes that you enter into your computer to identify your computer to the network. For a network connected to your personal wireless router, review the router user guide for instructions on setting up the same codes on both the router and the WLAN device. For a private network, such as a network in an office or at a public Internet chat room, contact the network administrator to obtain the codes, and then enter the codes when prompted to do so. Some networks change the SSID or network keys used in their routers or access points on a regular basis to improve security. You must change the corresponding code in your computer accordingly. Troubleshooting wireless connection problems 23 If you are provided with new wireless network keys and SSID for a network, and if you have previously connected to that network, follow the steps below to connect to the network: 1. 2. Select Start > Control Panel > Network and Internet > Network and Sharing Center.

In the left panel, click Manage wireless networks. A list showing the available WLANs is displayed. If you are in a hotspot where several WLANs are active, several will be displayed. 3. Select the network in the list, right-click the network, and then click Properties. NOTE: If the network you want is not listed, check with the network administrator to be sure that the router or access point is operating. 4. 5. Click the Security tab and enter the correct wireless encryption data into the Network security key box. Click OK to save these settings.

WLAN connection is very weak If the connection is very weak, or if your computer cannot make a connection to a WLAN, minimize interference from other devices, as follows: Move your computer closer to the wireless router or access point. Temporarily disconnect devices such as a microwave, cordless phone, or cellular phone, to be sure that other wireless devices are not interfering. If the connection does not improve, try forcing the device to reestablish all connection values: 1. 2. Select Start > Control Panel > Network and Internet > Network and Sharing Center.

In the left panel, click Manage wireless networks. A list showing the available WLANs is displayed. If you are in a hotspot where several WLANs are active, several will be displayed. 3. Right-click a network, and then click Remove.

Cannot connect to the wireless router If you are trying to connect to the wireless router and are unsuccessful, reset the wireless router by removing power from the router for 10 to 15 seconds. If the computer still cannot make a connection to a WLAN, restart the wireless router. For details, refer to the router manufacturer's instructions. 24 Chapter 2 Networking Connecting to a local area network Connecting to a local area network (LAN) requires an 8-pin, RJ-45 network cable (purchased separately). If the network cable contains noise suppression circuitry (1), which prevents interference from TV and radio reception, orient the circuitry end of the cable (2) toward the computer. To connect the network cable: 1. 2. Plug the network cable into the network jack (1) on the computer. Plug the other end of the cable into a network wall jack (2).



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

Connecting to a local area network 25 3 Pointing devices and keyboard Using pointing devices Setting pointing device preferences Use Mouse Properties in Windows to customize settings for pointing devices, such as button configuration, click speed, and pointer options. To access Mouse Properties, select Start > Control Panel > Hardware and Sound > Mouse. Using the TouchPad Turning the TouchPad on and off The TouchPad is turned on at the factory. When the TouchPad is active, the light is off. To turn the TouchPad on and off, quickly double-tap the TouchPad on/off indicator. Navigating To move the pointer, touch and slide your finger across the TouchPad in the direction you want the pointer to go. Use the left and right TouchPad buttons like the corresponding buttons on an external mouse. To scroll up and down using the TouchPad, touch and slide your finger up or down over the TouchPad. 26 Chapter 3 Pointing devices and keyboard NOTE: If you are using the TouchPad to move the pointer, you must lift your finger off the TouchPad before starting to scroll. Selecting Use the left and right TouchPad buttons like the corresponding buttons on an external mouse.

Using pointing devices 27 Using TouchPad gestures The TouchPad supports a variety of TouchPad gestures. To activate the TouchPad gestures, place two fingers on the TouchPad at the same time as described in the following sections. NOTE: The TouchPad gestures feature is disabled at the factory. In order to use the TouchPad gestures feature, you must enable it using the instructions below. To enable or disable gestures, double-click on the Synaptics icon in the notification area, at the far right of the taskbar, and then check or uncheck Disable gestures.

To enable or disable a specific gesture, select Control Panel > Hardware and Sound > Mouse > Device settings > Settings, and then check or clear the check box next to the gesture you want to enable or disable. To enable, reenable, or disable TouchPad gestures: 1. 2. 3. 4.

Scrolling Scrolling is useful for moving up or down, or left or right, on a page or image. To scroll, place two fingers slightly apart on the TouchPad and drag them across the TouchPad in an up, down, left, or right motion. NOTE: Scrolling speed is controlled by finger speed. Double-click on the Synaptics icon in the notification area, at the far right of the taskbar, and then click the Device Settings tab. Select the device, and then click Settings. Select the gesture that you want to enable or disable. Click Apply, and then click OK. Pinching/Zooming Pinching allows you to zoom in or out on items such as PDFs, images, and photos. To pinch: Zoom in by placing two fingers together on the TouchPad, and then moving them apart to gradually increase the object's size. Zoom out by placing two fingers apart on the TouchPad, and then moving them together to gradually decrease the object's size.

28 Chapter 3 Pointing devices and keyboard Rotating The rotating gesture allows you to rotate objects such as a photo, a PDF file, or other selected object, in 90-degree increments. To rotate: 1. 2. 3. Place one finger down on the left "target" zone of the TouchPad, and keep it stationary. Place another finger down near the middle of the TouchPad. Slide the second finger in a circular motion around the first finger. Ensure that the space between the two fingers remains the same while making the circular motion. Slide clockwise or counterclockwise to rotate the selected object in the desired direction. Connecting an external mouse You can connect an external USB mouse to the computer using one of the USB ports on the computer.

Using pointing devices 29 Using the keyboard Using the action keys Action keys are customized actions that are assigned to specific keys at the top of the keyboard. The icons on the f1 through f12 keys represent the action key functions. To use an action key, press and hold this key to activate the assigned function. NOTE: The action key feature is enabled at the factory. You can disable this feature in Setup Utility.

If this feature is disabled in Setup Utility, you will need to press fn and an action key to activate the assigned function. Refer to the "Setup Utility (BIOS)" chapter for additional information. Action keys f1 Description Opens Help and Support, which provides information about your Windows operating system and computer, answers to questions and tutorials, and updates to your computer. Help and Support also provides automated troubleshooting and links to support specialists. f2 f3 f4 Decreases the screen brightness level incrementally when you hold down this key.

Increases the screen brightness level incrementally when you hold down this key. Switches the screen image among display devices connected to the system.

For example, if a monitor is connected to the computer, pressing this key alternates the screen image from computer display to monitor display to simultaneous display on both the computer and the monitor. Most external monitors receive video information from the computer using the external VGA video standard. The switch screen image key can also alternate images among other devices that are receiving video information from the computer. f5 f6 f7 Plays the previous track of a CD or the previous section of a DVD or a BD. Plays, pauses, or resumes a track of an audio CD or a section of a DVD or a BD. Stops playback. 30 Chapter 3 Pointing devices and keyboard Action keys f8 f9 f10 f11 f12 Description Plays the next track of an audio CD or the next section of a DVD or a BD. Decreases speaker volume incrementally when you hold down this key.

Increases speaker volume incrementally when you hold down this key. Mutes or restores speaker sound. Turns the wireless feature on or off. NOTE: This key does not establish a wireless connection. To establish a wireless connection, a wireless network must also be set up. Using the hotkeys Hotkeys are combinations of the fn key (1) and either the esc key (2) or one of the arrow keys (3). Icon Function Display system information. Scroll up. Scroll down. Go home.

Go to the end. Hotkey fn+esc fn+up arrow fn+down arrow fn+left arrow fn+right arrow Description Displays information about system hardware components and the system BIOS version number. Scrolls the page up. Scrolls the page down. Returns the cursor to the beginning of the line where the cursor is located or returns to the beginning of the document.

Places the cursor at the end of the line or scrolls to the end of the document. Using the keyboard 31 To use a hotkey command, follow either of these steps: Briefly press the fn key, and then briefly press the second key of the hotkey command. or Press and hold down the fn key, briefly press the second key of the hotkey command, and then release both keys at the same time.



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32 Chapter 3 Pointing devices and keyboard Cleaning the TouchPad and keyboard Dirt and grease on the TouchPad can cause the pointer to jump around on the screen. To avoid this, clean the TouchPad with a damp cloth, and wash your hands frequently when using the computer.

**WARNING!** To reduce the risk of electric shock or damage to internal components, do not use a vacuum cleaner attachment to clean the keyboard. A vacuum cleaner can deposit household debris on the keyboard surface. Clean the keyboard regularly to prevent keys from sticking and to remove dust, lint, and particles that can become trapped beneath the keys. A can of compressed air with a straw extension can be used to blow air around and under the keys to loosen and remove debris. Cleaning the TouchPad and keyboard 33 4 Multimedia Multimedia features Your computer includes multimedia features that allow you to listen to music, watch movies, and view pictures. Your computer may include the following multimedia components: Optical drive for playing audio and video discs Integrated speakers for listening to music Integrated microphone for recording your own audio Integrated webcam that allows you to capture and share video Preinstalled multimedia software that allows you to play and manage your music, movies, and pictures Multimedia action keys that provide fast access to multimedia tasks Your computer may not include all of the components listed. **NOTE:** The following sections explain how to identify and use the multimedia components included with your computer. 34 Chapter 4 Multimedia Identifying your multimedia components **NOTE:** Your computer may look slightly different from the illustration in this section. Component (1) (2) (3) (4) (5) (6) (7) (8) Internal microphone Webcam (select models only) Webcam light (select models only) Volume down action key (f9) Volume up action key (f10) Volume mute action key (f11) Speakers (2) Audio-out (headphone) jack

Description	Records sound. Records video and captures still photographs.
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Turns on when video software accesses the webcam. Decreases speaker sound. Increases speaker sound. Mutes and restores speaker sound. Produce sound. Produces sound when connected to optional powered stereo speakers, headphones, earbuds, a headset, or television audio. **WARNING!** To reduce the risk of personal injury, adjust the volume before putting on headphones, earbuds, or a headset. For additional safety information, refer to the Regulatory, Safety and Environmental Notices. **NOTE:** When a device is connected to the headphone jack, the computer speakers are disabled. (9) Audio-in (microphone) jack

Connects an optional computer headset microphone, stereo array microphone, or monaural microphone. Multimedia features 35 Adjusting the volume You can adjust the volume using the following controls: Computer volume action keys: To decrease volume incrementally, press the volume down action key (f9) (1). To increase volume incrementally, press the volume up action key (f10) (2). To mute or restore volume, press the volume mute action key (f11) (3). Windows volume control: a. b.

Click the Speakers icon in the notification area, at the far right of the taskbar. Increase or decrease the volume by moving the slider up or down. Click the Mute Speakers icon to mute the volume. or a. b.

Right-click the Speakers icon in the notification area, and then click Open Volume Mixer. In the Speakers column, increase or decrease the volume by moving the slider up or down. You can also mute the volume by clicking the Mute Speakers icon. If the Speakers icon is not displayed in the notification area, follow these steps to add it: a. b. Right-click the Show hidden icons icon (the arrow at the left side of the notification area). Click Customize notification icons. 36 Chapter 4 Multimedia c. d. Under Behaviors, select Show icon and notifications for the Volume icon.

Click OK. Program volume control Volume can also be adjusted within some programs. Using the media activity action keys The media activity action keys control the play of an audio CD or a DVD or BD (Blu-ray Disc) that is inserted into an optical drive. When an audio CD or a DVD or BD is not playing, press the play/pause action key (f6) (2) to play the disc. When an audio CD or a DVD or BD is playing, use the following action keys: To play the previous track of an audio CD or the previous section of a DVD or BD, press the previous track action key (f5) (1). To pause or resume playing the disc, press the play/pause action key (f6) (2). To stop the disc, press the stop action key (f7) (3). To play the next track of an audio CD or the next section of a DVD, press the next track action key (f8) (4). Multimedia features 37 Multimedia software Your computer includes preinstalled multimedia software that allows you to play music, watch movies, and view pictures. The following sections provide details about CyberLink PowerDVD and other preinstalled multimedia software. Using CyberLink PowerDVD software CyberLink PowerDVD turns your computer into a mobile entertainment center. With CyberLink PowerDVD, you can enjoy music and DVD movies. To start CyberLink PowerDVD, select Start > All Programs > CyberLink PowerDVD. For information on using CyberLink PowerDVD, refer to the software Help. Using other preinstalled multimedia software To locate other preinstalled multimedia software: Select Start > All Programs, and then open the multimedia program you want to use.

For example, if you want to use Windows Media Player to play an audio CD, click Windows Media Player. **NOTE:** Some programs may be located in subfolders. Installing multimedia software from a disc To install any multimedia software from a CD or DVD, follow these steps: 1. 2. 3. Insert the disc into the optical drive. When the installation wizard opens, follow the on-screen instructions. Restart the computer if you are prompted to do so. @@These instructions may be provided on disc, in the software Help, or on the manufacturer's Web site. 38 Chapter 4 Multimedia Audio Your computer enables you to use a variety of audio features: Play music using your computer speakers and/or connected external speakers Record sound using the internal microphone or connect an external microphone Download music from the Internet Create multimedia presentations using audio and images Transmit sound and images with instant messaging programs Stream radio programs (select models only) or receive FM radio signals Create or "burn" audio CDs Connecting external audio devices **WARNING!** To reduce the risk of personal injury, adjust the volume before putting on headphones, earbuds, or a headset. For additional safety information, refer to the Regulatory, Safety and Environmental Notices. To connect external devices such as external speakers, headphone, or a microphone, refer to the information provided with the device.



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For best results, remember the following tips: Be sure that the device cable is securely connected to the correct jack on your computer. (Cable connectors are normally color-coded to match the corresponding jacks on the computer.) Be sure to install any drivers required by the external device.

**NOTE:** A driver is a required program that acts like a translator between the device and the programs that use the device. Checking your audio functions To check the system sound on your computer, follow these steps: 1. 2. 3. 4. Select Start > Control Panel. Click Hardware and Sound. Click Sound. When the Sound window opens, click the Sounds tab. Under Program Events, select any sound event, such as a beep or alarm, and click the Test button.

You should hear sound through the speakers or through connected headphones. To check the record functions of the computer, follow these steps: 1. 2. 3. Select Start > All Programs > Accessories > Sound Recorder.

Click Start Recording and speak into the microphone. Save the file to your desktop. Open Windows Media Player or CyberLink PowerDVD, and play back the sound. Audio 39 **NOTE:** For best results when recording, speak directly into the microphone and record sound in a setting free of background noise. To confirm or change the audio settings on your computer, select Start > Control Panel > Hardware and Sound > Sound.

**Video** Your computer enables you to use a variety of video features: Watch movies Play games over the Internet Edit pictures and video to create presentations Connect external video devices Connecting an external monitor or projector The external monitor port connects an external display device, such as an external monitor or a projector, to the computer. To connect a display device, connect the device cable to the external monitor port. **NOTE:** If a properly connected external display device does not display an image, press f4 to transfer the image to the device. Repeatedly pressing f4 alternates the screen image between the computer display and the device. 40 Chapter 4 Multimedia Connecting an HDMI device (select models only) Select models include an HDMI (High Definition Multimedia Interface) port. The HDMI port connects the computer to an optional video or audio device, such as a high-definition television, or any compatible digital or audio component. The computer can support one HDMI device connected to the HDMI port, while simultaneously supporting an image on the computer display or any other supported external display. **NOTE:** To transmit video signals through the HDMI port, you need an HDMI cable (purchased separately), available from most electronic retailers. To connect a video or audio device to the HDMI port: 1. Connect one end of the HDMI cable to the HDMI port on the computer.

2. 3. Connect the other end of the cable to the video device, according to the device manufacturer's instructions. Press the f4 action key on the computer to switch the image between the display devices connected to the computer. Video 41 Configuring audio for HDMI (select models only) To configure HDMI audio, first connect an audio or video device, such as a high-definition TV, to the HDMI port on your computer. Then configure the default audio playback device as follows: 1. 2. 3. Right-click the Speakers icon in the notification area, at the far right of the taskbar, and then click Playback devices. On the Playback tab, click either Digital Output or Digital Output Device (HDMI).

Click Set Default, and then click OK. To return audio to the computer speakers, follow these steps: 1. 2. 3. Right-click the Speakers icon in the notification area, at the far right of the taskbar, and then click Playback devices.

On the Playback tab, click Speakers. Click Set Default, and then click OK. 42 Chapter 4 Multimedia Optical drive Your computer includes an optical drive that expands the functionality of the computer. Identify what kind of device is installed in your computer to see its capabilities. The optical drive allows you to read data discs, play music, and watch movies.

If your computer includes a Blu-ray Disc ROM Drive, then you can also watch high-definition video from disc. Identifying the installed optical drive Select Start > Computer. You will see a list of all the devices installed in your computer, including your optical drive. You may have one of the following types of drives: DVD±R and CD-RW SuperMulti Double-Layer Combo Drive DVD±R and CD-RW SuperMulti Double-Layer Combo Drive with LightScribe Blu-ray ROM DVD±R/RW SuperMulti Double-Layer Drive Blu-ray ROM with LightScribe DVD±R/RW SuperMulti Double-Layer Drive Some of the drives listed above may not be supported by your computer. **NOTE:** Optical drive 43 Using optical discs An optical drive plays optical discs. Your optical drive can read standard CD and DVD discs, and if it is a Blu-ray Disc ROM Drive, it can also read Blu-ray Discs (BDs). These discs store information, such as music, photos, and movies. DVDs have a larger storage capacity than CDs, and BDs have the largest capacity of all. **NOTE:** Some of the optical drives listed may not be supported by your computer. The listed drives are not necessarily all of the supported optical drives.

Some optical drives can also write to optical discs as described in the following table. Optical drive type Write to CD-RW Write to DVD±RW/R Write to DVD±R DL Write label to LightScribe CD or DVD±RW/R No DVD±R and CD-RW SuperMulti DL Combo Drive DVD±R and CD-RW SuperMulti DL Combo Drive with LightScribe Blu-ray ROM DVD±R/RW SuperMulti DL Drive Blu-ray ROM with LightScribe DVD±R/RW SuperMulti DL Drive Yes Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes **CAUTION:** To prevent possible audio and video degradation, loss of information, or loss of audio or video playback functionality, do not initiate Sleep or Hibernation while reading or writing to a disc. 44 Chapter 4 Multimedia Selecting the right disc An optical drive supports optical discs (CDs, DVDs, and BDs). CDs, used to store digital data, are also used for commercial audio recordings and are convenient for your personal storage needs. DVDs and BDs are used primarily for movies, software, and data backup purposes. DVDs and BDs are the same form factor as CDs, but DVDs have 6 to 7 times the storage capacity of CDs, and BDs have 5 to 6 times the storage capacity of DVDs. **NOTE:** The optical drive on your computer may not support all the types of optical discs discussed in this section. CD-R discs CD-R (write-once) discs are widely used for creating a permanent copy of data that can be shared as needed. Typical uses include the following: Distributing large presentations Sharing scanned and digital photos, video clips, and written data Making your own music CDs Keeping permanent archives of computer files and scanned home records Offloading files from your hard drive to free up disk space After data is recorded, it cannot be erased or written over.



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*CD-RW discs Use a CD-RW disc (a rewritable version of a CD) to store large projects that must be updated frequently.*

*Typical uses include the following: Developing and maintaining large documents and project files Transporting work files Making weekly backups of hard drive files Updating photos, video, audio, and data continuously DVD±R discs Use blank DVD±R discs to permanently store large amounts of information.*

*After data is recorded, it cannot be erased or written over. DVD±RW discs Use DVD±RW discs if you want to be able to erase or write over data that you saved earlier. This type of disc is ideal for testing audio or video recordings before you burn them to a CD or DVD that cannot be changed. Optical drive 45 LightScribe DVD+R discs Use LightScribe DVD+R discs for sharing and storing data, home videos, and photos.*

*These discs are read-compatible with most DVD-ROM drives and DVD video players. With a LightScribe-enabled drive and LightScribe software, you can write data to the disc and then add a designer label to the outside of the disc. Blu-ray Disc Also called BD, Blu-ray Disc is a high-density optical disc format for the storage of digital information, including high-definition video. A single-layer Blu-ray Disc can store 25 GB, over 5 times the capacity of a single-layer DVD at 4.7 GB.*

*A dual-layer Blu-ray Disc can store 50 GB, almost 6 times the capacity of a dual-layer DVD at 8.5 GB. Typical uses include the following: Storage of large amounts of data High-definition video playback and storage Video games NOTE: Because Blu-ray is a new format containing new technologies, certain disc, digital connection, compatibility, and/or performance issues may arise. These do not constitute defects in the product. Flawless playback on all systems is not guaranteed. Playing a CD, DVD, or BD 1. 2. 3. 4. Turn on the computer.*

*Press the release button (1) on the drive bezel to release the disc tray. Pull out the tray (2). Hold the disc by the edges to avoid touching the flat surfaces and position the disc label-side up over the tray spindle. NOTE: If the tray is not fully accessible, tilt the disc carefully to position it over the spindle. 46 Chapter 4*

*Multimedia 5. Gently press the disc (3) down onto the tray spindle until the disc snaps into place. 6. Close the disc tray. If you have not yet configured AutoPlay, as described in the following section, an AutoPlay dialog box opens. It prompts you to select how you want to use the media content.*

*NOTE: For best results, be sure that your AC adapter is plugged into an external power source while playing a BD. Optical drive 47 Configuring AutoPlay 1. 2. 3. 4.*

*Select Start > Default Programs > Change AutoPlay settings. Confirm that the Use AutoPlay for all media and devices check box at the upper left of the computer screen is selected. Click Choose a default, and then select one of the available options for each media type listed. Click Save. Choose CyberLink PowerDVD to play DVDs.*

*For more information about AutoPlay, refer to Help and Support. NOTE: NOTE: Changing 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. CAUTION: The region settings 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 DVD drive. The number of region changes remaining is displayed on the DVD Region tab. To change settings through the operating system: 1. Select Start > Control Panel > System and Security. Then in the System area, click Device Manager.*

*NOTE: Windows includes the User Account Control feature to improve the security of your computer. @@Refer to Help and Support for more information. 2.*

*3. 4. 5. @@@@Make the desired changes on the DVD Region tab. @@@Do not use this computer for such purposes. @@@@The write process is sensitive to vibration. @@@@2.*

*3. @@@Insert the disc you want to copy into the optical drive. Click Copy at the bottom right of the screen. @@@4. @@@@To burn video files to a CD or DVD, use MyDVD.*

*@@@@NOTE: You cannot create an audio DVD with CyberLink Power2Go. @@@@@@@@@@@@@@@@@@2. 3. Download or copy the source files into a folder on your hard drive. Insert a blank CD or DVD into the optical drive.*

*@@@@NOTE: Some programs may be located in subfolders. 4. 5. 6. 7. @@@@@@@@@@@@@@@@Observe the copyright warning. @@@@@2. @@@@@Hold the disc by the edges and avoid touching the flat surfaces. NOTE: If the tray is not fully accessible, tilt the disc carefully as you remove it. 3.*

*Close the disc tray and place the disc in a protective case. Optical drive 51 Webcam (select models only) Your computer may include an integrated webcam, located at the top of the display. The webcam is an input device that allows you to capture and share video. Preinstalled CyberLink YouCam software provides new features that expand the webcam experience. To access the webcam and CyberLink YouCam software, select Start > All Programs > CyberLink YouCam > CyberLink YouCam. NOTE: The first time you access the YouCam software, you may experience a brief delay as the software loads. Using YouCam as your webcam software enables you to experiment with the following features: Video--Record and play back webcam video. You can also e-mail or upload video to YouTube, using the icon on the software interface. Streaming video--When you open your instant message program, YouCam displays a floating toolbar that lets you add graphic effects. Special effects--Add frames, filters, and emoticons to your snapshots and video.*

*Snapshots--Take single frame or "burst" webcam shots in rapid succession. Connect--E-mail photos and video using the icon on the software interface. NOTE: For details about using webcam software, refer to the software manufacturer's instructions, which may be provided with the software, on disc, or on the manufacturer's Web site. Webcam tips For optimum performance, observe the following guidelines while using the webcam: Be sure that you have the latest version of an instant message program before starting a video conversation. The webcam may not work properly across some network firewalls.*

*NOTE: If you are having trouble viewing or sending multimedia files to someone on another LAN or outside your network firewall, temporarily disable the firewall, perform the task you want to perform, and then reenable the firewall. Security may be compromised during the period that the firewall is disabled. To permanently resolve the problem, reconfigure the firewall as necessary, and adjust the policies and settings of other intrusion detection systems. Whenever possible, place bright light sources behind the camera and out of the picture area. For details about using your webcam, click the Help menu in the webcam software.*



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