Notebook Tour
User Guide

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Second Edition: February 2009

First Edition: December 2008

Document Part Number: 505486-002

Product notice

This user guide describes features that are common to most models. Some features may not be available on your computer.

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. Do not allow another hard surface, such as an adjoining optional printer, or a soft surface, such as pillows or rugs or clothing, to block airflow. Also, do not allow the AC adapter to contact the skin or a soft surface, such as pillows or rugs or clothing, during operation. The computer and the AC adapter comply with the user-accessible surface temperature limits defined by the International Standard for Safety of Information Technology Equipment (IEC 60950).

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1 Identifying hardware

To see a list of hardware installed in the computer, follow these steps:

1. Select **Start > Computer > System properties**.
2. In the left pane, 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. You may be prompted for your permission or password for tasks such as installing software, running utilities, or changing Windows settings. Refer to Help and Support for more information.

2 Components

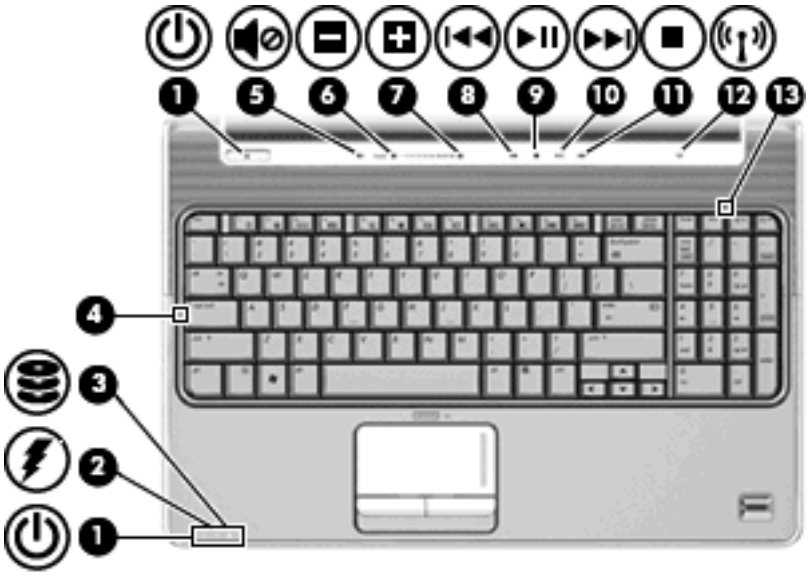
Top components

TouchPad

Component		Description
(1)	TouchPad light	• White: TouchPad is enabled. • Amber: TouchPad is disabled.
(2)	TouchPad*	Moves the pointer and selects or activates items on the screen.
(3)	Left TouchPad button*	Functions like the left button on an external mouse.
(4)	TouchPad on/off button	Enables/disables the TouchPad.
(5)	TouchPad vertical scroll zone	Scrolls up or down.
(6)	Right TouchPad button*	Functions like the right button on an external mouse.

*This table describes factory settings. To view and change TouchPad preferences, select **Start > Control Panel > Hardware and Sound > Mouse**.

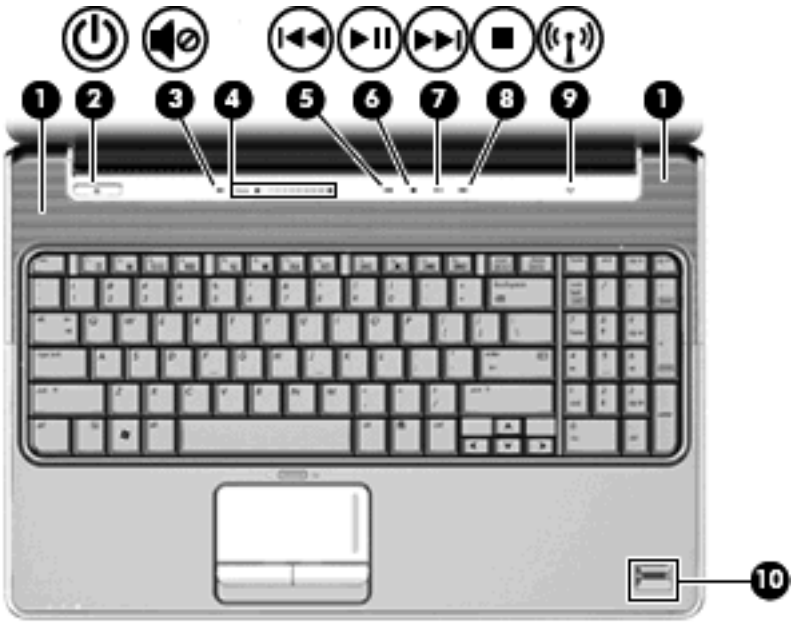
Lights



Component		Description
(1)	Power lights* (2)	• On: The computer is on. • Blinking: The computer is in the Sleep state. • Off: The computer is off or in Hibernation.
(2)	Battery light	• On: A battery is charging. • Blinking: A battery that is the only available power source has reached a low battery level. When the battery reaches a critical battery level, the battery light begins blinking rapidly. • Off: If the computer is plugged into an external power source, the light is turned off when all batteries in the computer are fully charged. If the computer is not plugged into an external power source, the light stays off until the battery reaches a low battery level.
(3)	Drive light	• Blinking: The hard drive or optical drive is being accessed. • Amber: HP ProtectSmart Hard Drive Protection has temporarily parked the hard drive.
(4)	Caps lock light	On: Caps lock is on.
(5)	Volume mute light	• White: Computer sound is turned on. • Amber: Computer sound is turned off.
(6)	Volume down light	On: The volume scroll zone is being used to decrease speaker volume.
(7)	Volume up light	On: The volume scroll zone is being used to increase speaker volume.
(8)	Previous/rewind light	On: The previous/rewind button has been pressed.
(9)	Play/pause light	On: The play/pause button has been pressed.

Component		Description
(10)	Next/fast forward light	On: The next/fast forward button has been pressed.
(11)	Stop light	On: The stop button has been pressed.
(12)	Wireless light	• Blue: An integrated wireless device, such as a wireless local area network (WLAN) device and/or a Bluetooth® device, is turned on. • Amber: All wireless devices are turned off.
(13)	Num lock light	On: The integrated numeric keypad is enabled, or num lock is enabled on a connected optional numeric keypad.
*The 2 power lights display the same information. The light on the power button is visible only when the computer is open. The power light on the front of the computer is visible whether the computer is open or closed.		

Buttons, speakers and fingerprint reader

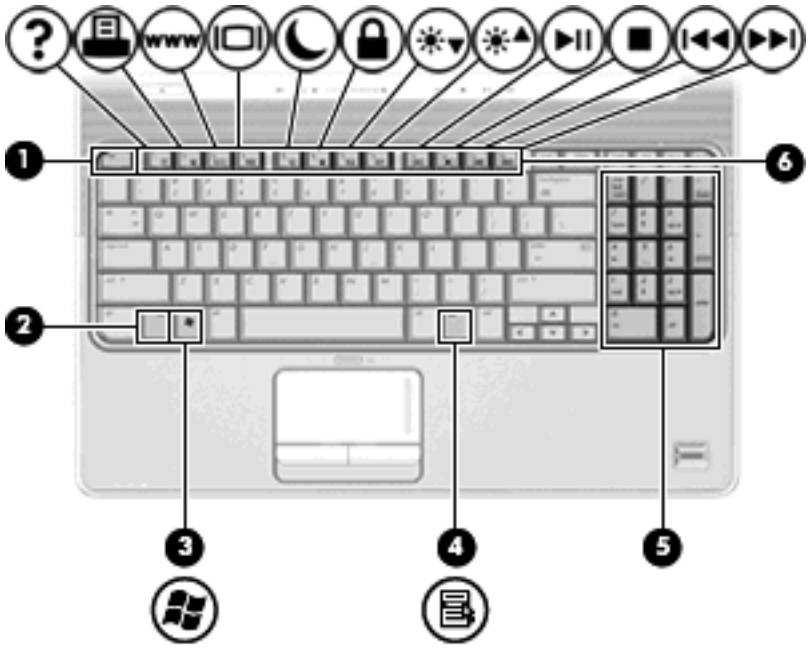


Component		Description
(1)	Speakers (2)	Produce sound.
(2)	Power button*	• When the computer is off, press the button to turn on the computer. • When the computer is on, press the button briefly to initiate Sleep. • When the computer is in the Sleep state, press the button briefly to exit Sleep. • When the computer is in Hibernation, press the button briefly to exit Hibernation.

Component		Description
		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 Maintenance > Power Options**.
(3)	Volume mute button	Mutes and restores speaker sound.
(4)	Volume scroll zone	Adjusts speaker volume. Slide your finger to the left to decrease volume and to the right to increase volume. You can also tap the minus sign (-) on the scroll zone to decrease volume, or tap the plus sign (+) on the scroll zone to increase volume.
(5)	Previous/rewind button	• Plays the previous track or chapter when the button is pressed once. • Rewinds media when the button is pressed simultaneously with the fn key.
(6)	Play/pause button	Plays or pauses media.
(7)	Next/fast forward button	• Plays the next track or chapter when the button is pressed once. • Fast forwards media when pressed simultaneously with the fn key.
(8)	Stop button	Stops playback.
(9)	Wireless button	Turns the wireless feature on or off, but does not create a wireless connection. **NOTE:** A wireless network must be set up in order to establish a wireless connection.
(10)	Fingerprint reader (select models only)	Allows a fingerprint logon to Windows, instead of a password logon.

*This table describes factory settings. For information about changing factory settings, refer to the user guides located in Help and Support.

Keys



Component		Description
(1)	esc key	Displays system information about your computer when pressed in combination with the fn key.
(2)	fn key	Executes frequently used system functions when pressed in combination with a function key or the esc key.
(3)	Windows logo key	Displays the Windows Start menu.
(4)	Windows applications key	Displays a shortcut menu for items beneath the pointer.
(5)	Integrated numeric keypad keys	Can be used like the keys on an external numeric keypad.
(6)	Function keys	Execute frequently used system functions when pressed in combination with the fn key.

Front components

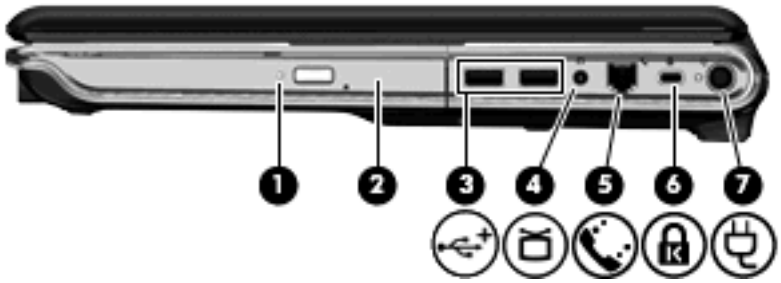
Component		Description
(1)	Power light	• On: The computer is on. • Blinking: The computer is in the Sleep state. • Off: The computer is off or in Hibernation.
(2)	Battery light	• On: A battery is charging. • Blinking: A battery that is the only available power source has reached a low battery level. When the battery reaches a critical battery level, the battery light begins blinking rapidly. • Off: If the computer is plugged into an external power source, the light is turned off when all batteries in the computer are fully charged. If the computer is not plugged into an external power source, the light stays off until the battery reaches a low battery level.
(3)	Drive light	• Blinking: The hard drive or optical drive is being accessed. • Amber: HP ProtectSmart Hard Drive Protection has temporarily parked the hard drive.
(4)	Consumer infrared lens	Receives a signal from the remote control.
(5)	Audio-in (microphone) jack	Connects an optional computer headset microphone, stereo array microphone, or monaural microphone.
(6)	Audio-out (headphone) jacks (2)	Produce sound when connected to optional powered stereo speakers, headphones, ear buds, a headset, or television audio.

NOTE: This table describes factory settings. For information about changing factory settings, refer to the user guides located in Help and Support.

Rear component

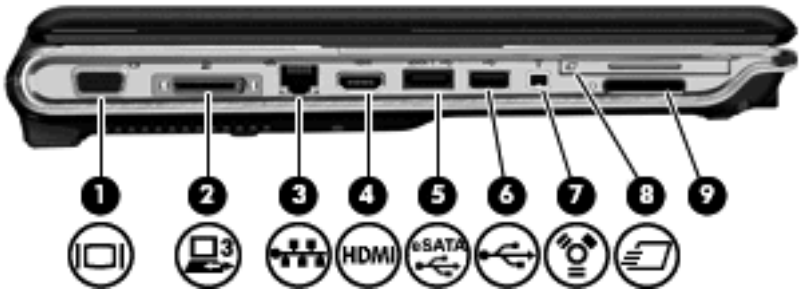
Component	Description
Vent	Enables airflow to cool internal components. **NOTE:** The computer fan starts up automatically to cool internal components and prevent overheating. It is normal for the internal fan to cycle on and off during routine operation.

Right-side components



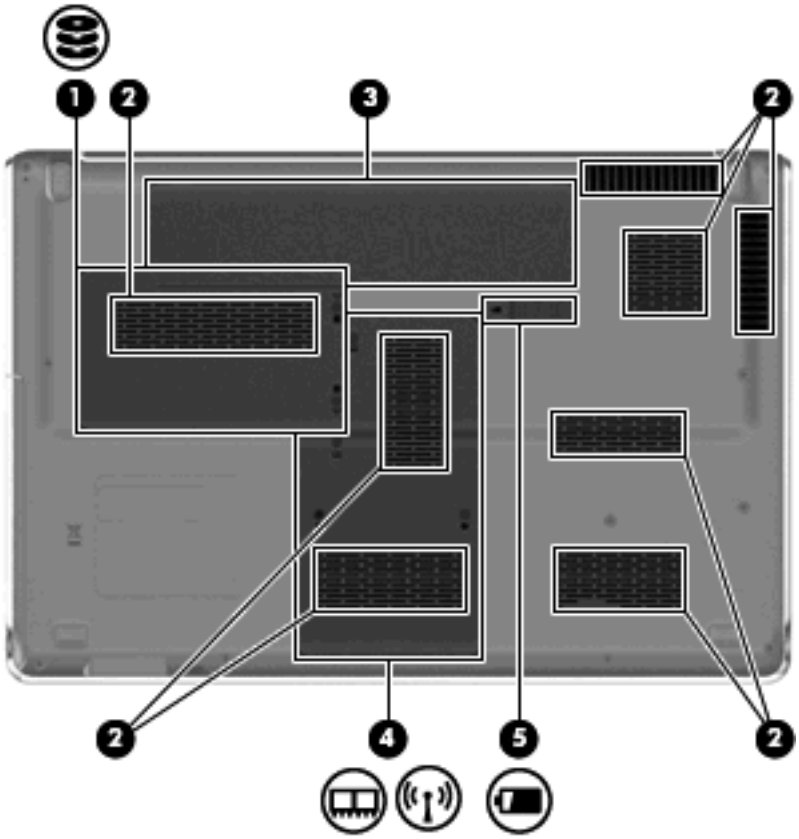
Component		Description
(1)	Optical drive light	Blinking: The optical drive is being accessed.
(2)	Optical drive	Reads optical discs and, on select models, also writes to optical discs.
(3)	USB ports (2)	Connect optional USB devices.
(4)	TV antenna/cable jack (select models only)	Connects a TV antenna, a digital cable device, or a satellite device that receives standard or high-definition TV broadcasts.
(5)	RJ-11 (modem) jack (select models only)	Connects a modem cable.
(6)	Security cable slot	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.
(7)	Power connector	Connects an AC adapter.

Left-side components



Component		Description
(1)	External monitor port	Connects an external VGA monitor or projector.
(2)	Expansion port 3	Connects the computer to an optional docking device or an optional expansion product. **NOTE:** The computer has only one expansion port. The term *expansion port 3* describes the type of expansion port.
(3)	RJ-45 (network) jack	Connects a network cable.
(4)	HDMI port	Connects an optional video or audio device, such as a high-definition television, or any compatible digital or audio component.
(5)	eSATA/USB port (select models only)	Connects an optional high-performance eSATA component, such as an eSATA external hard drive, or connects an optional USB device. **NOTE:** Depending on your computer model, the computer may include a USB port only.
(6)	USB port	Connects an optional USB device.
(7)	1394 port (select models only)	Connects an optional IEEE 1394 or 1394a device, such as a camcorder.
(8)	ExpressCard slot	Supports optional ExpressCard/54 cards.
(9)	Digital Media Slot	Supports the following optional digital card formats: • Memory Stick (MS) • Memory Stick Pro (MSP) • MultiMediaCard (MMC) • Secure Digital (SD) Memory Card • Secure Digital High Capacity (SDHC) Memory Card • xD-Picture Card (XD) • xD-Picture Card (XD) Type H • xD-Picture Card (XD) Type M

Bottom components



Component		Description
(1)	Hard drive bay	Holds the hard drive.
(2)	Vents (8)	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)	Battery bay	Holds the battery.
(4)	Memory module compartment	Contains the memory module slots. Also holds the WLAN module, TV tuner card (select models only), and the Intel Turbo Memory card (select models only). **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.
(5)	Battery release latch	Releases the battery from the battery bay.

Display components

Component		Description
(1)	Internal display switch	Turns off the display and initiates Sleep if the display is closed while the power is on.
(2)	Internal microphones (2)	Record sound.
(3)	Integrated webcam light	On: The integrated webcam is in use.
(4)	Integrated webcam	Records audio and video and captures still photographs.

Cleaning the display

△ **CAUTION:** To prevent permanent damage to the computer, never spray water, cleaning fluids, or chemicals on the display.

To remove smudges and lint, frequently clean the display with a soft, damp, lint-free cloth. If the screen requires additional cleaning, use premoistened antistatic wipes or an antistatic screen cleaner.

Wireless antennae (select models only)

On select computer models, at least 2 antennae send and receive signals from one or more wireless devices. These antennae are not visible from the outside of the computer.

NOTE: For optimal transmission, keep the areas immediately around the antennae 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.

Additional hardware components

Component		Description
(1)	Power cord*	Connects an AC adapter to an AC outlet.
(2)	AC adapter	Converts AC power to DC power.
(3)	Battery*	Powers the computer when the computer is not plugged into external power.

*Batteries and power cords vary in appearance by region and country.

3 Labels

The labels affixed to the computer provide information you may need when you troubleshoot system problems or travel internationally with the computer.

- Service tag—Provides important information including the following:

  - Product name **(1)**. This is the product name affixed to the front of your notebook.
  - Serial number (s/n) **(2)**. This is an alphanumeric identifier that is unique to each product.
  - Part number/Product number (p/n) **(3)**. This number provides specific information about the product's hardware components. The part number helps a service technician to determine what components and parts are needed.
  - Model description **(4)**. This is the number you use to locate documents, drivers, and support for your notebook.
  - Warranty period **(5)**. This number describes the duration (in years) of the warranty period for this computer.

  Have this information available when you contact technical support. The service tag label is affixed to the bottom of the computer.

- Microsoft® Certificate of Authenticity—Contains the Windows® Product Key. You may 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.
- Modem approval label—Provides regulatory information about the modem and lists the agency approval markings required by some of the countries in which the modem has been approved for use. You may need this information when traveling internationally. The modem approval label is affixed inside the memory module compartment.
- Wireless certification label(s) (select models only)—Provide information about optional wireless devices and the approval markings of some of the countries or regions in which the devices have been approved for use. An optional device may be a wireless local area network (WLAN) device or an optional Bluetooth® device. If your computer model includes one or more wireless devices,

one or more certification labels are included with your computer. You may need this information when traveling internationally. Wireless certification labels are affixed inside the hard drive bay.

- SIM (subscriber identity module) label (select models only)—Provides the ICCID (Integrated Circuit Card Identifier) of your SIM. This label is located inside the battery bay.
- HP Mobile Broadband Module serial number label (select models only)—Provides the serial number of your HP Mobile Broadband Module. This label is located inside the battery bay.

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