DRAFT Revised: 9/30/05 File: Title.fm PN: HP-404161-001

#### **Notebook Tour**

Document Part Number: 404161-001

March 2006

This guide explains the computer hardware features.

DRAFT Revised: 11/9/05 File: 404161-001TOC.fm PN: HP-404161-001

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## **Components**

This chapter explains the hardware features of the computer.

To see a list of hardware installed in the computer:

- 1. Select **Start > My Computer**.
- 2. In the left pane of the System Tasks window, select **View system information**.
- 3. Select **Hardware** tab > **Device Manager**.

You can also add hardware or modify your device configurations using Device Manager.



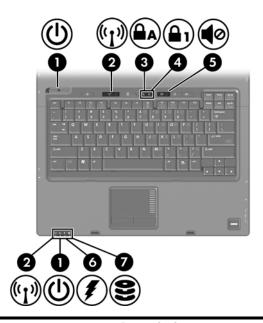
Components included with the computer may by region and by model. The illustrations in this chapter identify the standard external features included in most computer models.

## **Top components**

#### Lights



Refer to the illustration that most closely matches your computer.



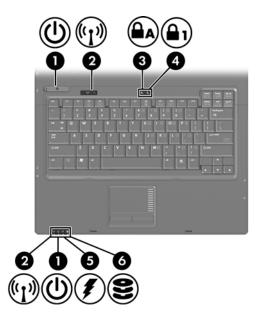
Component		Description
<b>1</b> Po	ower lights* (2)	Green: The computer is on. Blinking green: The computer is in standby.
		Blinking green rapidly: An HP Smart AC Adapter with a higher power rating should be connected.  Off: The computer is off or in hibernation.

(Continued)

Со	mponent	Description
2	Wireless lights <sup>†</sup> (2)	On: An integrated wireless device, such as a wireless local area network (LAN) device, wireless wide-area network (WAN), and/or a Bluetooth® device is turned on.
8	Caps lock light	On: Caps lock is on.
4	Num lock light	On: Num lock is on or the embedded numeric keypad is enabled.
6	Volume mute light	On: System sound is turned off.
6	Battery light	Amber: A battery pack is charging. Green: A battery pack is close to full charge capacity. Blinking amber: A battery pack that is the only available power source has reached a low-battery condition. When the battery reaches a <i>critical</i> low-battery condition, the battery light begins blinking more quickly. 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 is turned off until the battery reaches a low-battery condition.
•	IDE (Integrated Drive Electronics) drive light	Blinking: The hard drive or optical drive is being accessed.

<sup>\*</sup>There are 2 power lights. Both display the same information. The light on the power button is visible only when the computer is open; the other power light is always visible on the front of the computer.

<sup>&</sup>lt;sup>†</sup>There are 2 wireless lights. Both display the same information. The light on the wireless button is visible only when the computer is open; the other wireless light is always visible on the front of the computer.



Со	mponent	Description
0	Power lights* (2)	Green: The computer is on.
		Blinking green: The computer is in standby.
		Blinking green rapidly: An HP Smart AC Adapter with a higher power rating should be connected.
		Off: The computer is off or in hibernation.
2	Wireless lights <sup>†</sup> (2)	On: An integrated wireless device, such as a wireless local area network (LAN) device, wireless wide-area network (WAN), and/or a Bluetooth® device is turned on.
8	Caps lock light	On: Caps lock is on.
		(Continued)

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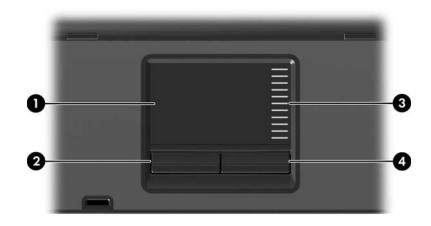
Со	mponent	Description
4	Num lock light	On: Num lock is on or the embedded numeric keypad is enabled.
6	Battery light	Amber: A battery pack is charging. Green: A battery pack is close to full charge capacity. Blinking amber: A battery pack that is
		the only available power source has reached a low-battery condition. When the battery reaches a <i>critical</i> low-battery condition, the battery light begins blinking more quickly.
		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 is turned off until the battery reaches a low-battery condition.
6	IDE (Integrated Drive Electronics) drive light	Blinking: The hard drive or optical drive is being accessed.

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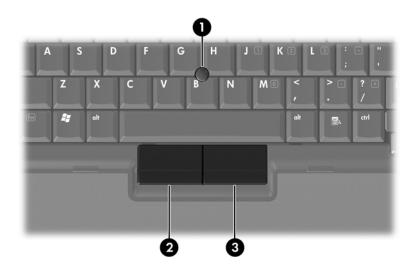
## **Pointing devices**

## TouchPad (select models only)



Со	mponent	Description
0	TouchPad	Moves the pointer and selects or activates items on the screen. Can be set to perform other mouse functions, such as scrolling, selecting, and double-clicking.
2	Left TouchPad button	Functions like the left button on an external mouse.
8	TouchPad scroll zone	Scrolls up or down.
4	Right TouchPad button	Functions like the right button on an external mouse.

#### Pointing stick (select models only)

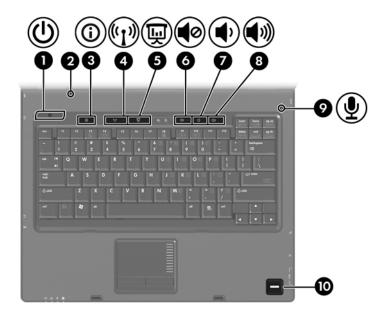


Component		Description
0	Pointing stick	Moves the pointer and selects or activates items on the screen.
2	Left pointing stick button	Functions like the left button on an external mouse.
6	Right pointing stick button	Functions like the right button on an external mouse.

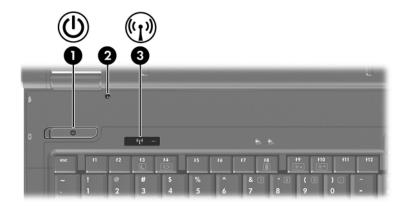
#### Buttons, switches, and readers



Refer to the illustration that most closely matches your computer.



Со	mponent	Description	
0	Power button*	When the computer is	
		Off, press to turn on the computer.	
		In standby, briefly press to exit standby.	
		In hibernation, briefly press to exit hibernation.	
		If the computer has stopped responding and Microsoft® Windows® shutdown procedures cannot be used, press and hold the power button for at least 5 seconds to turn off the computer.	
2	Display switch	Initiates standby if the display is closed while the computer is on.	
<b>③</b>	Info Center button	Launches Info Center, which enables you to open the following software solutions: Altiris Local Recovery, Contact HP, Help and Support, Accessories Product Tour (Options Demo), ProtectTools Security Manager, Software Setup, System Information, and Wireless Assistant.	
4	Wireless button	Turns the wireless feature on or off, but does not create a wireless connection.	
	To establish a wireless of already be set up.	connection, a wireless network must	
6	Presentation button	Starts the Presentation feature.	
6	Volume mute button	Mutes system sound.	
7	Volume down button	Decreases system volume.	
8	Volume up button	Increases system volume.	
9	Internal microphone	Records sound.	
0	Fingerprint reader	Allows a fingerprint logon to Windows instead of a password logon.	

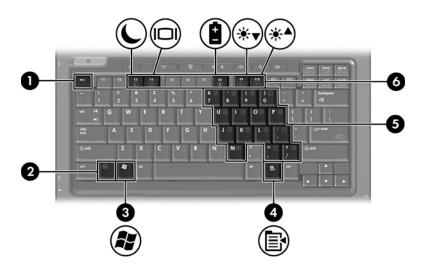


Component		Description
0	Power button*	When the computer is
		Off, press to turn on the computer.
		In standby, briefly press to exit standby.
		In hibernation, briefly press to exit hibernation.
		If the computer has stopped responding and Microsoft® Windows® shutdown procedures cannot be used, press and hold the power button for at least 5 seconds to turn off the computer.
0	Display switch	Initiates standby if the display is closed while the computer is on.
8	Wireless button	Turns the wireless feature on or off, but does not create a wireless connection.
	To establish a wire already be set up.	eless connection, a wireless network must

#### **Keys**



Your computer may look slightly different from the illustration in this section.



Component		Description	
0	esc key	Displays system information when pressed in combination with the <b>fn</b> key.	
2	fn key	Executes frequently used system functions when pressed in combination with a function key or the <b>esc</b> key.	
6	Windows logo key	Displays the Microsoft Windows Start menu.	
4	Windows applications key	Displays a shortcut menu for items beneath the pointer.	

(Continued)

Со	mponent	Description
6	Embedded 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 <b>fn</b> key.
	Refer to the table in "Hotkey quick reference" for a description of each hotkey.	

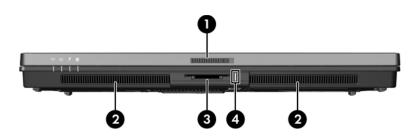
## Hotkey quick reference

To perform this function	Press
Initiate standby	fn+f3
Resume from standby	Power button
Alternate between computer display and external display	fn+f4
Display battery information	fn+f8
Clear battery information	fn+f8
Decrease screen brightness	fn+f9
Increase screen brightness	fn+f10
Display system information	fn+esc
Clear system information	fn+esc or press OK

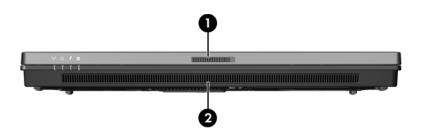
#### **Front components**



Refer to the illustration that most closely matches your computer.



Со	mponent	Description
0	Display release latch	Opens the notebook.
2	Speakers (2)	Produce system sound.
<b>③</b>	Digital Media Slot	Supports 7 optional digital card formats: SD (Secure Digital) Memory Card, MultiMediaCard, Memory Stick, Memory Stick Pro, Memory Stick Duo, SmartMedia card, and xD-Picture Card.
4	Digital Media Slot light	On: A digital card is being accessed.



Component		Description
0	Display release latch	Opens the notebook.
2	Speakers (2)	Produce system sound.

## **Rear components**



Refer to the illustration that most closely matches your computer.



Со	mponent	Description
0	Security cable slot	Attaches an optional security cable to the computer.
		signed to act as a deterrent, but may r from being mishandled or stolen.
2	Power connector	Connects an AC adapter.
8	Parallel port	Connects an optional printer.
4	S-Video-out jack	Connects an optional S-Video device such as a television, VCR, camcorder, overhead projector, or video capture card.

Notebook Tour 1–15

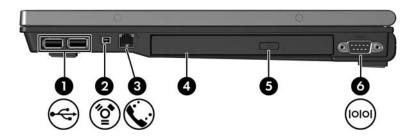


Co	mponent	Description
0	Security cable slot	Attaches an optional security cable to the computer.
	The security cable is designed to act as a deterrent, but may not prevent the computer from being mishandled or stolen.	
2	Power connector	Connects an AC adapter.

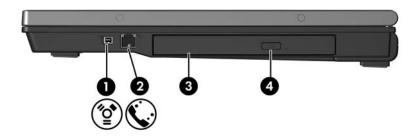
## **Right-side components**



Refer to the illustration that most closely matches your computer.



Component		Description
0	USB ports (2)	Connect optional USB devices.
2	1394 port	Connects an optional IEEE 1394 device, such as a camcorder.
0	RJ-11 (modem) jack	Connects a modem cable.
4	Optical drive	Reads an optical disc.
6	Optical drive button	Releases the media tray.
0	Serial port	Connects an optional serial device.

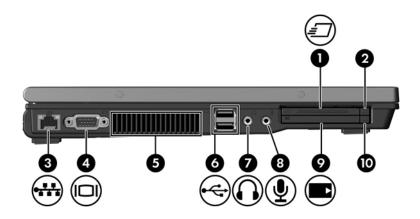


Со	mponent	Description
0	1394 port	Connects an optional IEEE 1394 device, such as a camcorder.
2	RJ-11 (modem) jack	Connects a modem cable.
8	Optical drive	Reads an optical disc.
4	Optical drive button	Releases the media tray.

## **Left-side components**



Your computer may look slightly different from the illustration in this section.



Component		Description
0	ExpressCard slot (select models only)	Supports optional ExpressCard/54 or ExpressCard/34 cards.
2	ExpressCard slot eject button	Ejects the ExpressCard from the ExpressCard slot.
6	RJ-45 (network) jack	Connects a network cable.
4	External monitor port	Connects an external monitor.

(Continued)

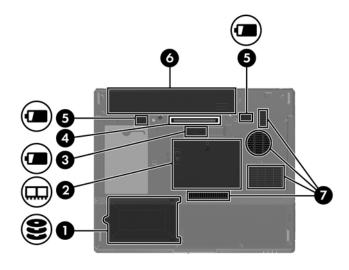
Notebook Tour 1–19

Со	mponent	Description
6	Vent	Provides airflow to cool internal components.
	only on a hard, flat surfa	do not obstruct vents. Use the computer ace. Do not allow another hard surface, stional printer, or a soft surface, such as clothing, to block airflow.
	components and prever	s up automatically to cool internal nt overheating. It is normal for the and off during routine operation.
6	USB ports (2)	Connect optional USB devices.
7	Audio-out (headphone) jack	Produces system stereo sound when connected to optional powered stereo speakers, headphones, ear buds, a headset, or television audio.
8	Audio-in (microphone) jack	Connects an optional headset microphone or a monaural microphone.
9	PC Card slot	Supports optional Type I, Type II, or Type III 32-bit (CardBus) or 16-bit PC Cards. Some models may be shipped with a smart card reader in the bottom card slot.
0	PC Card slot eject button	Eject the PC Card from the PC Card slot.

## **Bottom components**



Refer to the illustration that most closely matches your computer.



Component		Description
0	Hard drive bay	Holds the hard drive.
2	Expansion memory module and Mini Card compartment	Contains the expansion memory module slot and a wireless LAN device.
		To prevent an unresponsive system and the display of a warning message, replace with only a Mini Card device authorized for use in the computer by the governmental agency that regulates wireless devices in your country. If you replace a device and then receive a warning message, remove the device to restore computer functionality. Then contact Customer Care. To contact Customer Care, click Contact a Technician in the Help and Support Center.
0	Travel battery connector	Connects an optional travel battery.
4	Docking connector	Connects the computer to an optional docking device.
6	Primary battery pack release latches (2)	Release the primary battery pack from the battery bay.
6	Battery bay	Holds the primary battery pack.

(Continued)

Compo	nent	Description
<b>7</b> Ver	nts (4)*	Provide airflow to cool internal components.

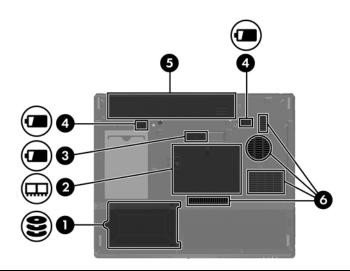


To prevent overheating, do not obstruct vents. Use the computer only on a hard, flat surface. Do not allow another hard surface, such as an adjoining optional printer, or a soft surface, such as pillows or thick rugs or clothing, to block airflow.



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.

<sup>\*</sup>Depending on your computer model, the vents on the computer may vary in number and location.



#### Component

#### Description

Hard drive bay

Holds the hard drive.

Expansion memory module and Mini Card compartment Contains the expansion memory module slot and a wireless LAN device.

 $\wedge$ 

To prevent an unresponsive system and the display of a warning message, replace with only a Mini Card device authorized for use in the computer by the governmental agency that regulates wireless devices in your country. If you replace a device and then receive a warning message, remove the device to restore computer functionality. Then contact Customer Care. To contact Customer Care, click Contact a Technician in the Help and Support Center.

(Continued)

Со	mponent	Description
8	Travel battery connector	Connects an optional travel battery.
4	Primary battery pack release latches (2)	Release the primary battery pack from the battery bay.
6	Battery bay	Holds the primary battery pack.
6	Vents (4)*	Provide airflow to cool internal components.



To prevent overheating, do not obstruct 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 thick rugs or clothing, to block airflow.



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.

<sup>\*</sup>Depending on your computer model, the vents on the computer may vary in number and location.

#### WLAN antennae (select models only)

Two wireless antennae inside the display enclosure send and receive wireless device signals over wireless local area networks (WLANs). These antennae are not visible from the outside of the computer. For optimal transmission, keep the areas immediately around the antennae free from obstructions.



Your computer may look slightly different from the illustration in this section.



#### WWAN antennae (select models only)

Two wireless antennae inside the display enclosure allow you to connect to a wireless wide-area network (WWAN), and then to the Internet, using the integrated HP Broadband Wireless module and service from a supported cellular network operator.

For more information on HP Broadband Wireless and how to sign up for service, refer to the *HP Broadband Wireless Getting Started* guide that shipped with your computer.



Your computer may look slightly different from the illustration in this section.



Notebook Tour 1–27

# Additional hardware components



Со	mponent	Description
0	AC adapter	Converts AC power to DC power.
0	Power cord*	Connects an AC adapter to an AC outlet.
8	Battery pack*	Powers the computer when the computer is not plugged into external power.
4	Modem cable*	Connects an internal modem to an RJ-11 telephone jack or to a country-specific modem adapter.

<sup>\*</sup>Modem cables, battery packs, and power cords vary in appearance by region and country.

#### 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 the product name, product number (P/N), and serial number (S/N) of your computer. Have this information available when you contact Customer Care. The service tag label is affixed to the bottom of the computer.
- Microsoft Certificate of Authenticity—Contains the Microsoft 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 to the bottom of the computer.
- 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 to the bottom of the computer.

Notebook Tour 1–29

■ Wireless certification labels—Provides information about optional wireless devices and the approval markings of some of the countries in which the devices have been approved for use. An optional device may be a wireless local area network (WLAN) device, a wireless wide-area network (WWAN) device, or an optional Bluetooth® device. If your computer model includes one or more wireless devices, one certification label per wireless device is included with your computer. You may need this information when traveling internationally. The WLAN and Bluetooth wireless certification labels are located inside the expansion memory module compartment. The WWAN certification label is located inside the battery compartment.

# **Specifications**

The following sections provide information on the operating environment specifications and power specifications of the computer.

#### **Operating environment**

The operating environment information in the following table may be helpful if you plan to use or transport the computer in extreme environments.

Factor	Metric	U.S.
Temperature		
Operating (not writing to optical disc)	0°C to 35°C	32°F to 95°F
Operating (writing to optical disc)	5°C to 35°C	41°F to 95°F
Nonoperating	-20°C to 60°C	-4°F to 140°F
Relative humidity (noncondensing)		
Operating	10% to 90%	10% to 90%
Nonoperating	5% to 95%	5% to 95%
Maximum altitude (unpressurized)		
Operating (14.7 to 10.1 psia*)	-15 m to 3,048 m	-50 ft to 10,000 ft
Nonoperating (14.7 to 4.4 psia*)	-15 m to 12,192 m	-50 ft to 40,000 ft
*Pounds per square inch absolute (psi altitude.	ia) is another unit of r	neasurement for

Notebook Tour 2–1

#### Rated input power

The power information in this section may be helpful if you plan to travel internationally with your computer.

The computer operates on DC power, which can be supplied by an AC or a DC power source. Although the computer can be powered from a stand-alone DC power source, it is strongly recommended that the computer be powered only with an AC adapter or a DC power cord supplied by or approved for an HP computer.

The computer is capable of accepting DC power within the following specifications.

Input Power	Rating
Operating voltage	18.5 V dc @ 3.5 A - 65 W
Operating current	3.5 A

This product is designed for IT power systems in Norway with phase-to-phase voltage not exceeding 240 V rms.

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PN: HP-404161-00

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DRAFT Revised: 9/30/05 File: Notice-Back.fm PN: HP-404161-001

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Notebook Tour First Edition March 2006 Document Part Number: 404161-001 DRAFT Revised: 9/30/05 File: Notice-Back.fm PN: HP-404161-001