



User Guide

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Product notice

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

Software terms

By installing, copying, downloading, or otherwise using any software product preinstalled on this computer, you agree to be bound by the terms of the HP End User License Agreement (EULA). If you do not accept these license terms, your sole remedy is to return the entire unused product (hardware and software) within 14 days for a refund subject to the refund policy of your place of purchase.

For any further information or to request a full refund of the computer, please contact your local point of sale (the seller).

Safety warning notice


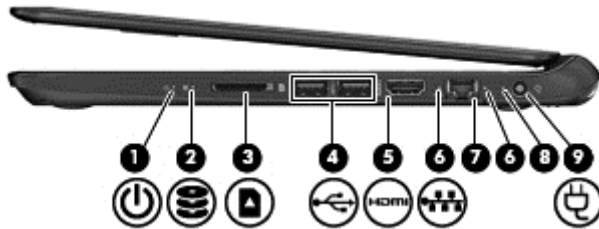
 **WARNING!** To reduce the possibility of heat-related injuries or of overheating the computer, do not place the computer directly on your lap or obstruct the computer air vents. Use the computer only on a hard, flat surface. Do not allow another hard surface, such as an adjoining optional printer, or a soft surface, such as pillows or rugs or clothing, to block airflow. Also, do not allow the AC adapter to come into contact with 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 Getting to know your computer

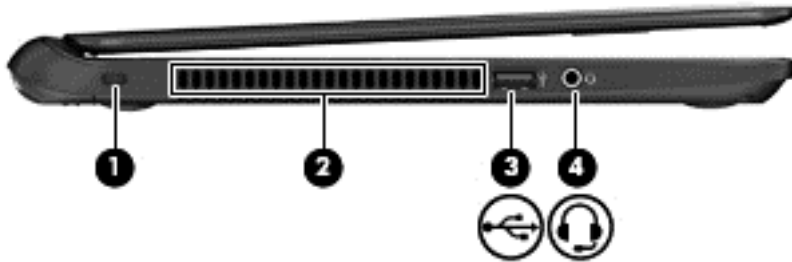
Right side





| Component | Description |
|---|---|
| (1)  Power light | <ul style="list-style-type: none"> White: The computer is on. Blinking white: The computer is in the Sleep state, which is an energy-saving mode. The computer shuts off power to the display and other unneeded components. Off: The computer is off. |
| (2)  Drive light | <ul style="list-style-type: none"> Blinking white: The drive is being accessed. |
| (3)  Digital Media Slot | Supports the following digital card formats: <ul style="list-style-type: none"> Secure Digital (SD) Memory Card Secure Digital High Capacity (SDHC) Memory Card Secure Digital Extended Capacity (SDxC) Memory Card MultiMediaCard (MMC) |
| (4)  USB 2.0 ports (2) | Connect optional USB 2.0 devices and provide enhanced USB power performance. |
| (5)  HDMI port | Connects an optional video or audio device, such as a high-definition television, or any compatible digital or audio device. |
| (6)  RJ-45 (network) jack lights | <ul style="list-style-type: none"> White: Computer is connected to a network. Blinking amber: Data is being transferred. <p>NOTE: When both lights are off the computer is not connected to a network.</p> |
| (7) RJ-45 (network) jack | Connects a network cable. |

| Component | Description |
|---|---|
| (8) AC adapter light | <ul style="list-style-type: none"> White: The AC adapter is connected and the battery is charged. Blinking white: The battery has reached a low battery level. Amber: The AC adapter is connected and the battery is charging. Off: The computer is using DC power. |
| (9)  Power connector | Connects an AC adapter. |

Left side



| Component | Description |
|---|--|
| (1) Security cable slot | <p>Attaches an optional security cable to the computer.</p> <p>NOTE: The security cable is designed to act as a deterrent, but it may not prevent the computer from being mishandled or stolen.</p> |
| (2) Vent | <p>Enables airflow to cool internal components.</p> <p>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.</p> |
| (3)  USB 2.0 port | Connects an optional USB 2.0 device. |
| (4)  Audio-out (headphone) jack/Audio-in (microphone) jack | <p>Produces sound when connected to optional powered stereo speakers, headphones, earbuds, a headset, or television audio. Also connects an optional headset microphone. The jack does not support optional microphone-only devices.</p> <p>WARNING! To reduce the risk of personal injury, adjust the volume before using headphones, earbuds, or a headset. For additional safety information, see the <i>Regulatory, Safety and Environmental Notices</i>.</p> <p>NOTE: When a device is connected to the jack, the computer speakers are disabled.</p> <p>NOTE: Be sure that the device cable has a 4-conductor connector that supports both audio-out (headphone) and audio-in (microphone).</p> |

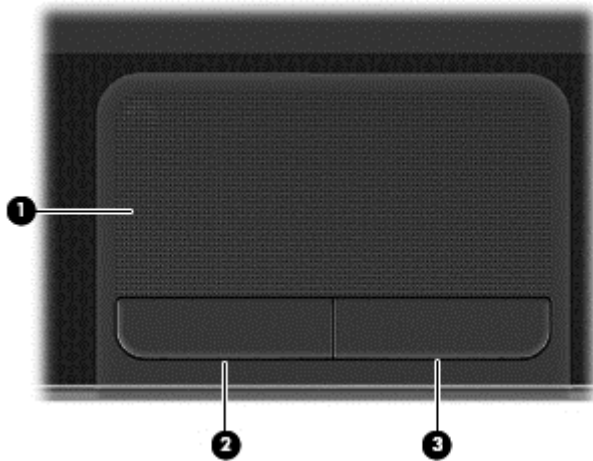
Display



| Component | Description |
|-----------------------------|--|
| (1) WLAN antennas (2)* | Send and receive wireless signals to communicate with wireless local area networks (WLANs). |
| (2) Webcam light | On: The webcam is in use. |
| (3) HP TrueVision HD Webcam | Records video, captures still photographs, and allows you to video conference and chat online using streaming video. |
| (4) Internal microphone | Records sound. |

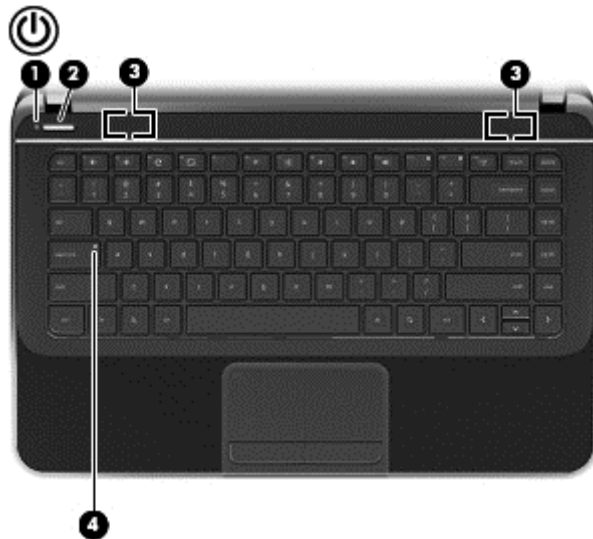
*The antennas are not visible from the outside of the computer. For optimal transmission, keep the areas immediately around the antennas free from obstructions. For wireless regulatory notices, see the section of the *Regulatory, Safety and Environmental Notices* that applies to your country or region.


TouchPad



| Component | Description |
|---------------------------|---|
| (1) TouchPad zone | Moves the on-screen pointer and selects or activates items on the screen. |
| (2) Left TouchPad button | Functions like the left button on an external mouse. |
| (3) Right TouchPad button | Functions like the right button on an external mouse. |

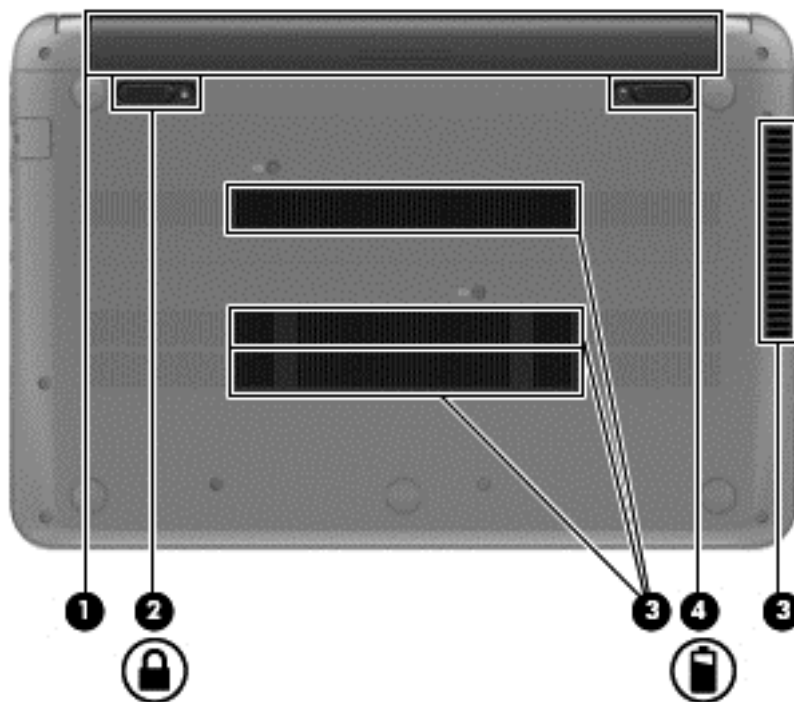
Lights, buttons, and speakers





| Component | Description |
|---|---|
| (1)  Power light | <ul style="list-style-type: none">• White: The computer is on.• Blinking white: The computer is in the Sleep state, which is an energy-saving mode. The computer shuts off power to the display and other unneeded components.• Off: The computer is off. |

| Component | Description |
|---------------------|---|
| (2) Power button | <ul style="list-style-type: none"> When the computer is off, press the button to turn on the computer. When the computer is in the Sleep state, press the button briefly to exit Sleep. When the computer is on and you want to lock the screen, briefly press the power button until you see the sign-in screen appear. Pressing the power button during screen lock mode will turn off the computer. When computer is on and you want to turn off the computer, press and hold the power button until it turns off. |
| (3) Speakers (2) | Produce sound. |
| (4) Caps lock light | White: Caps lock is on, which switches the keys to all capital letters. |

Bottom




| Component | Description |
|--|----------------------|
| (1) Battery bay | Holds the battery. |
| (2)  Battery lock | Unlocks the battery. |

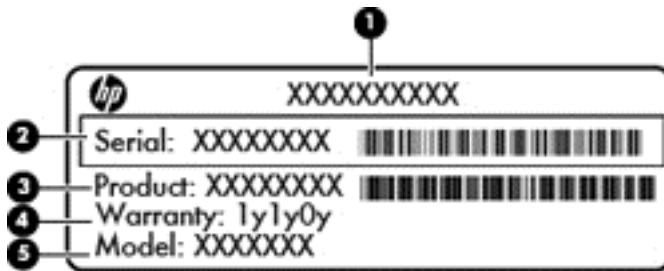
| Component | Description |
|---|---|
| (3) Vents (4) | Enable airflow to cool internal components. NOTE: The computer fan starts up automatically to cool internal components and prevent overheating. It is normal for the internal fan to cycle on and off during routine operation. |
| (4)  Battery release latch | Releases the battery from the battery bay. |

Labels

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

- Service label—Provides important information, including the following:

 **NOTE:** Your label may look slightly different from the illustration in this section.




| Component |
|--|
| (1) Product name |
| (2) Serial number |
| (3) Product number |
| (4) Warranty period |
| (5) Model description (select models only) |

Have this information available when you contact support. The service label is located on the bottom of your computer.

- Regulatory label—Provides regulatory information about the computer. The regulatory label is located on the bottom of your computer.
- Wireless certification label or labels—Provide information about wireless devices and the approval markings of some of the countries or regions in which the devices have been approved for use. 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 located on the bottom of your computer.

2 Using TouchPad gestures

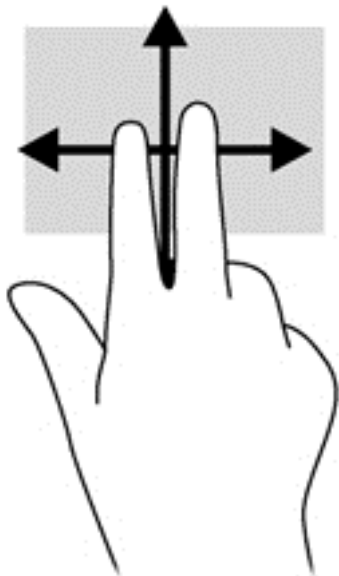
A TouchPad allows you to control the pointer on the screen using your fingers.

 **TIP:** Use the left and right buttons on the TouchPad as you would use the corresponding buttons on an external mouse.

Scrolling

Scrolling is useful for moving up, down, or sideways on a page or image.

- Place two fingers slightly apart on the TouchPad zone and then drag them up, down, left, or right.



Tapping

To make an on-screen selection use the tap function on the TouchPad.


- Point to an item on the screen, and then tap one finger on the TouchPad zone to make a selection. Double-tap an item to open it.

You can also make text selections using the tap and drag function.

- Use one finger to tap quickly, and then in the same place immediately tap and hold again for 1/2 second or longer. You can then move your finger without lifting it to select the text you want.



3 Using the action keys

| Icon | Key | Description |
|---|--------|---|
|  | F1 | Go to the previous page in your browser history. |
|  | F2 | Go to the next page in your browser history. |
|  | F3 | Reload your current page. |
|  | F4 | Open your page in full-screen mode. |
|  | F5 | Switch to your next window. |
|  | F6 | Decreases the screen brightness incrementally as long as you hold down the key. |
|  | F7 | Increases the screen brightness incrementally as long as you hold down the key. |
|  | F8 | Mutes or restores speaker sound. |
|  | F9 | Decreases speaker volume incrementally as long as you hold down the key. |
|  | F10 | Increases speaker volume incrementally as long as you hold down the key. |
|  | F13 | Turns the wireless feature on or off. NOTE: A wireless network must be set up before a wireless connection is possible. |
|  | Search | Search your apps and the web from your apps list. |

Recovery mode key combination

Press and hold the **esc** +  (F3) +  to force the system into Recovery Mode.

4 Charging the battery

- ⚠ WARNING!** To reduce potential safety issues, use only the user-replaceable battery provided with the computer, a replacement battery provided by HP, or a compatible battery purchased from HP.
- ⚠ CAUTION:** Removing a user-replaceable battery that is the sole power source for the computer can cause loss of information. To prevent loss of information, save your work before removing the battery.

1. Connect the AC adapter to the computer.
2. Verify the battery is charging by checking the AC adapter light. This light is located on the computer's right side, next to the power connector.

| AC adapter light | Status |
|------------------|--|
| White | The AC adapter is connected and the battery is charged. |
| Amber | The AC adapter is connected and the battery is charging. |
| Blinking white | The AC adapter is not connected or is not working properly, and the battery has reached a low battery level. |
| Off | The AC adapter is not connected or is not working properly, and the computer is using battery power. |


3. Once the battery is charging, keep the AC adapter connected until the AC adapter light turns white.

If the battery will not charge, follow these steps:

1. Shut down the computer.
2. Remove the battery from the computer.
 - a. Turn the computer upside down on a flat surface.
 - b. Slide the battery lock **(1)** to unlock the battery.
 - c. Slide the battery release latch **(2)** to release the battery.

- d. Slide the battery (3) from the middle to remove it from the computer.



 **NOTE:** The battery release latch automatically returns to its original position. The battery lock will remain in the unlocked position.

3. Connect the AC adapter to the computer, and then plug it into an AC outlet.
4. Turn on the computer, and verify that the AC adapter is working by checking the power light. This light is located at the front of the right side of the computer:


| Power light | Status |
|-------------|--------|
|-------------|--------|



| | |
|----|-------------------------------------|
| On | The AC adapter is working properly. |
|----|-------------------------------------|

| | |
|-----|--|
| Off | The AC adapter is not working. Check the connection from the AC adapter to the computer and the connection from the AC adapter to the AC outlet to make sure the connections are secure. If the connections are secure and the power light remains <i>off</i> , the AC adapter is not functioning and should be replaced. Contact customer support for information on obtaining a replacement AC power adapter. |
|-----|--|

5. If the AC adapter is working properly, re-insert the battery.

 **CAUTION:** Do not slant the battery as you insert it. Slide the battery in straight.

If the battery still will not charge, contact customer support for information on obtaining a replacement battery.

5 More HP resources

You have already used *Setup Instructions* to turn on the computer and locate this guide. To locate product details, how-to information, and more, use this table.

| Resource | Contents |
|--|---|
| <i>Setup Instructions</i> | <ul style="list-style-type: none">• Overview of computer setup and features. |
| Help and Support For U.S. support, go to http://www.hp.com/go/contactHP . For worldwide support, go to http://welcome.hp.com/country/us/en/wwcontact_us.html . | <ul style="list-style-type: none">• A broad range of how-to information and troubleshooting tips. |
| <i>Safety & Comfort Guide</i> Go to http://www.hp.com/ergo . | <ul style="list-style-type: none">• Proper workstation setup.• Guidelines for posture and work habits that increase your comfort and decrease your risk of injury.• Electrical and mechanical safety information. |
| Worldwide support web page To get support in your language, go to http://welcome.hp.com/country/us/en/wwcontact_us.html . | <ul style="list-style-type: none">• Online chat with an HP technician.• Email support.• Find support telephone numbers.• Locate HP service center locations. |
| <i>Regulatory, Safety and Environmental Notices</i> This guide is provided in the box. | <ul style="list-style-type: none">• Important regulatory notices, including proper battery disposal information. |
| <i>Limited Warranty</i> This guide is provided in the box, or go to http://www.hp.com/go/orderdocuments . | <ul style="list-style-type: none">• Specific warranty information about this computer. |

6 Electrostatic Discharge

Electrostatic discharge is the release of static electricity when two objects come into contact—for example, the shock you receive when you walk across the carpet and touch a metal door knob.

A discharge of static electricity from fingers or other electrostatic conductors may damage electronic components. To prevent damage to the computer, damage to a drive, or loss of information, observe these precautions:

- If removal or installation instructions direct you to unplug the computer, unplug it after being properly grounded and before removing a cover.
- Keep components in their electrostatic-safe containers until you are ready to install them.
- Avoid touching pins, leads, and circuitry. Handle electronic components as little as possible.
- Use nonmagnetic tools.
- Before handling components, discharge static electricity by touching an unpainted metal surface of the component.
- If you remove a component, place it in an electrostatic-safe container.

If you need more information about static electricity or assistance with component removal or installation, contact support.

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