

User Guide

SUMMARY

This guide provides information about components, network connection, power management, security, backing up, and more.

PDF

Legal information

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Product notice

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

Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated, which is always enabled. High-speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com. If your product ships with Windows in S Mode: Windows in S Mode works exclusively with apps from the Microsoft Store within Windows. Certain default settings, features, and apps cannot be changed. Some accessories and apps that are compatible with Windows may not work (including some antivirus, PDF writers, driver utilities, and accessibility apps), and performance may vary, even if you switch out of S Mode. If you switch to Windows, you cannot switch back to S Mode. Learn more at Windows.com/SmodeFAQ.

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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 full refund subject to the refund policy of your seller.

For any further information or to request a full refund of the price of the computer, please contact your seller.

Safety warning notice

Reduce the possibility of heat-related injuries or of overheating the computer by following the practices described.

MARNING! 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 applicable safety standards.

Processor configuration setting (select products only)

Important information about processor configurations.

IMPORTANT: Select computer products are configured with an Intel® Pentium® N35xx/N37xx series or a Celeron® N28xx/N29xx/N30xx/N31xx series processor and a Windows® operating system. If your computer is configured as described, do not change the processor configuration setting in msconfig.exe from 4 or 2 processors to 1 processor. If you do so, your computer will not restart. You will have to perform a factory reset to restore the original settings.

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1 Getting started

This computer is a powerful tool designed to enhance your work and entertainment. Read this chapter to learn about best practices after you set up your computer and where to find additional HP resources.

After you set up and register the computer, HP recommends the following steps to get the most out of your smart investment:

TIP: To quickly return to the computer Start screen from an open app or the Windows desktop, press the Windows key on your keyboard. Pressing the Windows key again returns you to the previous screen.

- **Connect to the internet**—Set up your wired or wireless network so that you can connect to the internet. For more information, see <u>Network connections on page 19</u>.
- **Update your antivirus software**—Protect your computer from damage caused by viruses. The software is preinstalled on the computer. For more information, see <u>Using antivirus software on page 49</u>.
- **Get to know your computer**—Learn about your computer features. See <u>Components on page 3</u> and <u>Navigating the screen on page 24</u> for additional information.
- Find installed software—Access a list of the software preinstalled on the computer:

Select the **Start** button, and then select **All apps**.

– or –

Right-click the Start button, and then select Apps and Features.

- **Back up your hard drive**—Create recovery discs or a recovery USB flash drive to back up your hard drive. See <u>Backing up, restoring, and recovering on page 56</u>.
- Access HP Support Assistant app—For quick online support, open the HP Support Assistant app (select products only). HP Support Assistant optimizes computer performance and resolves problems using the latest software updates, diagnostic tools, and guided assistance. Select the Search icon in the taskbar, type support in the search box, and then select HP Support Assistant.

Finding information

To locate resources that provide product details, how-to information, and more, use this table.

Table 1-1	Additional information
-----------	------------------------

Resource	Con	tents
Setup Instructions	•	Overview of computer setup and features

Table 1-1 Additional information (continued)

Res	ource	Con	tents
ΗP	support	•	Online chat with an HP technician
For HP support, go to https://www.hp.com/support , and follow the instructions to find your product.		•	Support telephone numbers
		•	Replacement parts videos (select products only)
- 01	-	•	Maintenance and service guides
Sel sea	ect the Search icon in the taskbar, type support in the rch box, and then select HP Support Assistant .	•	HP service center locations
- 0			
Sel tas	ect the question mark icon (select products only) in the kbar.		
Saf	ety & Comfort Guide	•	Proper workstation setup
То а	access this guide:	•	Guidelines for posture and work habits that increase your comfort and decrease your risk of injury
•	Select the Search icon in the taskbar, type HP Documentation in the search box, and then select HP Documentation.	•	Electrical and mechanical safety information
- 01	·_		
•	Go to http://www.hp.com/ergo.		
	IMPORTANT: You must be connected to the internet to access the latest version of the user guide.		
Reg	ulatory, Safety, and Environmental Notices	•	Important regulatory notices, including information about Restrictions of Hazardous Substances (RoHS) and proper battery
Тоа	access this document:		disposal, if needed.
•	Select the Search icon in the taskbar, type HP Documentation in the search box, and then select HP Documentation.		
Lim	ited Warranty*	•	Specific warranty information about this computer
Тоа	access this document:		
•	Select the Search icon in the taskbar, type HP Documentation in the search box, and then select HP Documentation.		
- 01			
•	Go to http://www.hp.com/go/orderdocuments .		
	IMPORTANT: You must be connected to the internet to access the latest version of the user guide.		
*Yo son	u can find your HP Limited Warranty located with the user ne countries or regions, HP might provide a printed warra	r guid nty in	es on your product and/or on the CD or DVD provided in the box. In the box. For countries or regions where the warranty is not provided

in printed format, you can request a copy from <u>http://www.hp.com/go/orderdocuments</u>. For products purchased in Asia Pacific, you can write to HP at POD, PO Box 161, Kitchener Road Post Office, Singapore 912006. Include your product name, and your name, phone number, and postal address.

2 Components

Your computer features top-rated components. This chapter provides details about your components, where they are located, and how they work.

Locating hardware

Use these instructions to find out what hardware is installed on your computer.

 Select the Search icon in the taskbar, type device manager in the search box, and then select the Device Manager app.

A list displays all the devices installed on your computer.

For information about system hardware components and the system BIOS version number, press fn+esc (select products only).

Locating software

Use these instructions to find out what software is installed on your computer:

Right-click the Start button, and then select Apps and Features.

Right

Use the illustration and table to identify the components on the right side of the computer.



Table 2-1	Right-side com	ponents and t	heir descriptions
-----------	-----------------------	---------------	-------------------

Component			Description
(1)		microSD™ card reader	Reads optional memory cards that store, manage, share, or access information.
			To insert a card:
			1. Hold the card label-side up, with the connectors facing the computer.
			 Insert the card into the memory card reader, and then press in on the card until it is firmly seated.
			To remove a card:
			 Press in on the card, and then remove it from the memory card reader.
(2)	84-9	USB Type-C [®] power connector port, SuperSpeed 20 Gbps port, and DisplayPort™ output	Connects a USB device, provides high-speed data transfer, and (for select products) charges small devices (such as a smartphone) when the computer is on or in Sleep mode.
			NOTE: Use a standard USB Type-C charging cable or cable adapter (purchased separately) when charging a small external device.
			– and –
			Connects a display device that has a USB Type-C connector, providing DisplayPort output.
(3)	89-4	USB SuperSpeed 20 Gbps port with HP Sleep and Charge	Connects a USB device, provides high-speed data transfer, and charges small devices (such as a smartphone), even when the computer is off.
			NOTE: Use a standard USB Type-A charging cable or cable adapter (purchased separately) when charging a small external device.
(4)	Δ	Security cable slot	Attaches an optional security cable to the computer.
			NOTE: The security cable is designed to act as a deterrent, but it might not prevent the computer from being mishandled or stolen.

Left

Use the illustration and table to identify the components on the left side of the computer.



Component			Description
(1)		Battery light	When AC power is connected:
			• White: The battery charge is greater than 90%.
			• Amber: The battery charge is from 0 to 90%.
			• Off: The battery is not charging.
			When AC power is disconnected (battery not charging):
			 Blinking amber: The battery has reached a low battery level. When the battery has reached a critical battery level, the battery light begins blinking rapidly.
			• Off: The battery is not charging.
(2)	Ą	Power connector	Connects an AC adapter.
(3)	USB Type-C power connectors and Thunderbolt™ ports with HP Sleep and Charge (2)		Connect a USB device, provides high-speed data transfer, and charges small devices (such as a smartphone), even when the computer is off.
			NOTE: Use a standard USB Type-C charging cable or cable adapter (purchased separately) when charging a small external device.
			NOTE: Your computer might also support a Thunderbolt docking station.
			– and –
			Connect a display device that has a USB Type-C connector, providing DisplayPort output.
(4)	Q	Audio-out (headphone)/Audio-in (microphone) combo jack	Connects optional powered stereo speakers, headphones, earbuds, a headset, or a television audio cable. Also connects an optional headset microphone. This jack does not support optional standalone microphones.
			WARNING! To reduce the risk of personal injury, adjust the volume before putting on headphones, earbuds, or a headset. For additional safety information, see the <i>Regulatory, Safety, and Environmental Notices</i> .
			To access this guide:
			 Select the Search icon in the taskbar, type HP Documentation in the search box, and then select HP Documentation.
			NOTE: When a device is connected to the jack, the computer speakers are disabled.

Table 2-2 Left-side components and their descriptions

Display

Use the illustration and table to identify the display components.

Low blue light mode (select products only)

Your computer display is shipped from the factory in low blue light mode for improved eye comfort and safety. Also, blue light mode automatically adjusts blue light emissions when you are using the computer at night or for reading.

- Marking! To reduce the risk of serious injury, read the *Safety & Comfort Guide*. It describes proper workstation setup and proper posture, health, and work habits for computer users. The *Safety & Comfort Guide* also provides important electrical and mechanical safety information. The *Safety & Comfort Guide* is available on the web at http://www.hp.com/ergo.
- **NOTE:** Choose the illustration that matches your computer.



Table 2-3 Display components and their descriptions

Component		Description
(1)	Infrared (IR) LEDs (2)	On: Camera is operating.
(2)	Camera (IR)*	Allows you to video chat, record video, and record still images. To use your camera, see <u>Using a camera (select products only) on page</u> <u>28</u> . Some cameras also allow a facial recognition logon to Windows, instead of a password logon. For more information, see <u>Windows</u> <u>Hello (select products only) on page 48</u> . NOTE: Camera functions vary depending on the camera hardware and software installed on your product.
(3)	Camera (Web)	Allows you to video chat, record video, and record still images. To use your camera, see <u>Using a camera (select products only) on page</u> <u>28</u> . Some cameras also allow a facial recognition logon to Windows, instead of a password logon. For more information, see <u>Windows</u> <u>Hello (select products only) on page 48</u> . NOTE: Camera functions vary depending on the camera hardware and software installed on your product.
(4)	Webcam LED	On: Camera is operating.

Table 2-3 Display components and their descriptions (continued)

Component		Description
(5)	Ambient light sensor	Detects light levels in the environment to adjust the camera's noise reduction levels.
(6)	Antennas (2)**	Send and receive wireless signals to communicate with wireless local area networks (WLANs).

*The infrared camera and lenses are not visible from the outside of the computer.

**The antennas are not visible from the outside of the computer.

For wireless regulatory notices, see the section of the *Regulatory, Safety, and Environmental Notices* that applies to your country or region.

To access this guide:

Select the Search icon in the taskbar, type HP Documentation in the search box, and then select HP Documentation.



Table 2-4 Display components and their descriptions

Component		Description
(1)	Infrared LEDs (2)	On: Camera is operating.
(2)	Camera (IR)*	Allows you to video chat, record video, and record still images. To use your camera, see <u>Using a camera (select products only) on page</u> <u>28</u> . Some cameras also allow a facial recognition logon to Windows, instead of a password logon. For more information, see <u>Windows</u> <u>Hello (select products only) on page 48</u> . NOTE: Camera functions vary depending on the camera hardware and software installed on your product.

Table 2-4	Display	components and their descriptions	(continued)
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Component		Description
(3)	Camera (Web)	Allows you to video chat, record video, and record still images. To use your camera, see <u>Using a camera (select products only) on page</u> <u>28</u> . Some cameras also allow a facial recognition logon to Windows, instead of a password logon. For more information, see <u>Windows</u> <u>Hello (select products only) on page 48</u> . NOTE: Camera functions vary depending on the camera hardware and software installed on your product.
(4)	Web cam LED	On: Camera is operating.
(5)	Ambient light sensors (2)	Detect light levels in the environment to adjust the camera's noise reduction levels.
(6)	Antennas (2)**	Send and receive wireless signals to communicate with wireless local area networks (WLANs).

*The infrared camera and lenses are not visible from the outside of the computer.

**The antennas are not visible from the outside of the computer.

For wireless regulatory notices, see the section of the *Regulatory*, *Safety*, *and Environmental Notices* that applies to your country or region.

To access this guide:

Select the Search icon in the taskbar, type HP Documentation in the search box, and then select HP Documentation.

Keyboard area

Keyboards can vary by language.

NOTE: The keyboard, including the function keys and power key (select products only), is disabled in stand, tent, and tablet modes. To enable the keyboard, including the power key, change to the clamshell mode.

Touchpad

The touchpad settings and components are described here.

Touchpad settings

You learn how to adjust the touchpad settings and components here.

Adjusting touchpad settings

Use these steps to adjust touchpad settings and gestures.

- 1. Select the Search icon in the taskbar, type touchpad settings in the search box, and then press enter.
- 2. Choose a setting.

Turning on the touchpad

Follow these steps to turn on the touchpad.

1. Select the Search icon in the taskbar, type touchpad settings in the search box, and then press enter.

2. Using an external mouse, click the **Touchpad** button.

If you are not using an external mouse, press the Tab key repeatedly until the pointer rests on the **touchpad** button. Then press the spacebar to select the button.

Touchpad components

Use the illustration and table to identify the touchpad components.





Table 2-5 Touchpad components and their descriptions

Component		Description
(1)	Touchpad zone	Reads your finger gestures to move the pointer or activate items on the screen.
		NOTE: For more information, see <u>Using touchpad and touch</u> <u>screen gestures on page 24</u> .
(2)	Left touchpad zone	Functions like the left button on an external mouse.
(3)	Right touchpad zone	Functions like the right button on an external mouse.

Lights

Use the illustration and table to identify the lights on the computer.