

User Guide

SUMMARY

This guide provides technical specifications and information about monitor features, setting up the monitor, and using the monitor.

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Product notice

This guide describes features that are common to most models. Some features may not be available on your product. To access the latest user guide, go to <u>http://www.hp.com/support</u>, and follow the instructions to find your product. Then select **Setup & User Guides**.

To help us improve this document, please send any suggestions, comments, or errors to <u>mailto:hp.doc.feedback@hp.com</u>. Include the document part number when submitting your feedback.

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1 About this guide

This guide provides technical specifications and information about monitor features, setting up the monitor, and using the software. Depending on the model, your monitor may not have all the features included in this guide.

- MARNING! Indicates a hazardous situation that, if not avoided, **could** result in serious injury or death.
- ▲ CAUTION: Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.
- IMPORTANT: Indicates information considered important but not hazard-related (for example, messages related to property damage). Warns the user that failure to follow a procedure exactly as described could result in loss of data or in damage to hardware or software. Also contains essential information to explain a concept or to complete a task.
- **NOTE:** Contains additional information to emphasize or supplement important points of the main text.
- TIP: Provides helpful hints for completing a task.

2 Getting started

Read this chapter to learn about safety information and where to find additional HP resources.

Important safety information

An AC adapter and power cord might be included with the monitor. If you use another cord, use only a power source and connection appropriate for this monitor. For information about the correct power cord set to use with the monitor, see the *Product Notices* provided in your documentation kit.

MARNING! To reduce the risk of electric shock or damage to the equipment:

- Plug the power cord into an AC outlet that is easily accessible at all times.
- If the power cord has a three-pin attachment plug, plug the cord into a grounded (earthed) threepin outlet.
- Disconnect power from the monitor by unplugging the power cord from the AC outlet. When unplugging the power cord from the AC outlet, grasp the cord by the plug.

For your safety, do not place anything on power cords or cables. Take care to route all cords and cables connected to the monitor so that they cannot be stepped on, pulled, grabbed, or tripped over.

To reduce the risk of serious injury, read the *Safety & Comfort Guide* provided with your user guides. 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 also available on the web at http://www.hp.com/ergo.

IMPORTANT: For the protection of the monitor and the computer, connect all power cords for the computer and its peripheral devices (such as a monitor, printer, scanner) to a surge protection device such as a power strip or uninterruptible power supply (UPS). Not all power strips provide surge protection; the power strip must be specifically labeled as having this capability. Use a power strip whose manufacturer offers a damage replacement policy so that you can replace the equipment if surge protection fails.

Use the appropriate and correctly sized furniture designed to properly support your monitor.

- ▲ WARNING! Monitors that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests, or carts could fall over and cause personal injury.
- **WARNING!** Stability hazard: The device might fall, causing serious personal injury or death. To prevent injury, securely attach the monitor to the floor or wall in accordance with the installation instructions.
- MARNING! This equipment is not suitable for use in locations where children are likely to be present.
- NOTE: This product is suitable for entertainment purposes. Consider placing the monitor in a controlled luminous environment to avoid interference from surrounding light and bright surfaces that might cause disturbing reflections from the screen.

More HP resources

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

Resource	Contents
Setup Instructions	Overview of monitor setup and features
HP support	For HP support or to resolve a hardware or software problem, go to http://www.hp.com/support , and follow the instructions to find your product.
	- or -
	Select the Search icon in the taskbar, type <code>support</code> in the search box and then select HP Support Assistant .
	- or -
	Select the question mark icon in the taskbar.

Table 2-1 Additional information

NOTE: Contact customer support to replace the power cord, the AC adapter (select products only), or any other cables that shipped with your monitor.

Preparing to call technical support

Use this information if you have to troubleshoot an issue.

If you cannot solve a problem using <u>Support and troubleshooting on page 40</u>, a call to technical support can provide additional help. Have the following information available when you call.

- Monitor model number
- Monitor serial number
- Purchase date on invoice
- Conditions under which the problem occurred
- Error messages received
- Hardware configuration
- Name and version of the hardware and software that you are using

Getting to know your monitor

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

Features

Depending on the model, your monitor might include the following features:

Display features

- 68.6 cm (27 in) diagonal viewable screen area with a 2560 × 1440 resolution (QHD) or 3840 × 2160 resolution (UHD), plus full-screen support for lower resolutions; includes custom scaling for maximum image size while preserving original aspect ratio
- Liquid crystal display (LCD) with active matrix and in-plane switching (IPS) Black Technology
- Wide color gamut to provide coverage of sRGB, Display P3, and BT.709 color spaces
- Nonglare panel with an LED backlight
- Wide viewing angle to allow viewing from a sitting or standing position, or moving from side to side
- Tilt, swivel, and height adjustment capabilities
- Pivot capability to rotate the monitor head from landscape to portrait orientation
- Internal speakers up to 76 dB @ 200 Hz bass roll-off (camera model only)
- Dual Picture-in-Picture (PiP) and Picture-by-Picture (PbP) functionality to enable the USB Type C[®] Thunderbolt[™], DisplayPort[™], or HDMI inputs to be viewed where one image is overlaid onto another (PiP) or where one image is positioned adjacent to another (PbP)
- Five on-screen display (OSD) buttons, four that you can reconfigure to quickly allow selection of the most commonly used operations
- On-screen display (OSD) adjustments in several languages for easy setup and screen optimization
- Color space presets for Display P3 or Neutral (select products only)
- Pantone Validated
- Plug and Play capability, if supported by your operating system
- Energy saver feature to meet requirements for reduced power consumption
- Security cable slot on the rear of the monitor for an optional security cable
- Cable management feature for placement of cables and cords

Connectors

- DisplayPort video input/output (cable included for select products only)
- High-Definition Multimedia Interface (HDMI) video input (cable included for select products only)
- USB Type-C Thunderbolt port (cable included)
- USB Type-C Thunderbolt output
- USB hub with one USB Type-C port that connects to the computer (upstream) and six USB ports that connect to USB devices (downstream) (USB Type-C-to-USB Type-A cable included for select products only)
- RJ-45 (network) jack

Monitor stand

- Removable stand for flexible monitor head mounting solutions
- HP Quick Release 2 device to quickly attach the monitor head to the stand with a simple click, and then remove it with the convenient sliding tab release
- VESA® mounting bracket for attaching the monitor head to a wall-mount device or swing arm
- Support for a mounting bracket to attach the monitor to a Mini Desktop or Mini Workstation
- NOTE: For safety and regulatory information, see the *Product Notices* provided in your documentation kit. To access the latest user guide, go to http://www.hp.com/support, and follow the instructions to find your product. Then select Setup & User Guides.

Front components

To identify the components on the front of the monitor, use this illustration and table.



	Component	Description
(1)	Power button	Turns the monitor on or off.
		NOTE: When applicable HP products are connected to the USB Type-C Thunderbolt port, pressing the power button on the display turns on/off your notebook, or puts it to sleep based on your power setting (Performance mode).
(2)	Power LED	Indicates that the monitor is powered on or off.
(3)	Ambient light sensor	Adjusts the display brightness according to lighting conditions in the environment.

Camera components (camera model)

To identify the components on the camera, use this illustration and table.

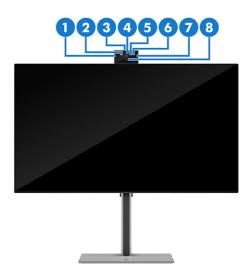


Table 2-3 Camera components (Select products only)

	Component	Description
(1)	Microphone	Features active noise cancellation.
(2)	Webcam LED	Indicates that the webcam is powered on.
(3)	Ambient light sensor (top)	Adjusts the display brightness according to lighting conditions in the environment.
(4)	Webcam	Transmits your image during a video conference.
(5)	Infrared webcam	Allows you to use Windows Hello for facial recognition and provides better operation in low-light situations.
(6)	Infrared LED	Indicates the status of the infrared webcam.
(7)	Microphone	Features active noise cancellation.
(8)	User proximity sensor	Uses the Auto Lock and Awake feature to monitor your presence in front of the computer to save power and add security. When you step away from the computer, the proximity sensor puts the computer into the Sleep state. When you return to the computer, your computer recognizes you and wakes the computer automatically. Auto Lock and Awake is turned on by default. If you also want to set up facial recognition login for Auto Lock and Aware, see <u>Setting up Auto Lock and Awake (camera model) on page 32</u> .

Rear components

To identify the components on the rear of the monitor, use this illustration and table.

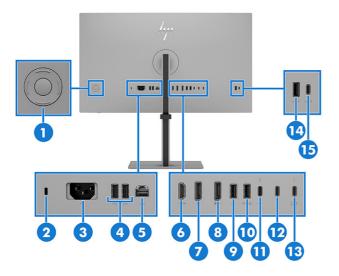


Table 2-4 Rear components and their descriptions (QHD and UHD models)

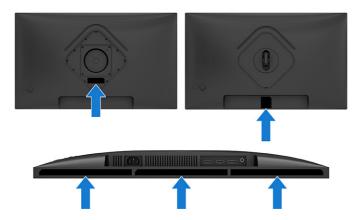
	Component	Description
(1)	Joypad	Press to open the OSD settings.
(2)	Security cable slot	Connects an optional security cable.
(3)	Power connector	Connects a power cord.
(4)	USB Type-A ports (2)	Connect a USB cable to a peripheral device, such as a keyboard, mouse, or USB hard drive.
(5)	RJ-45 (network) jack	Network (RJ-45) data rate via USB Type-C max speed is 1000 Mbps
		• Green (left): The network is connected.
		• Amber (right): Activity is occurring on the network.
		NOTE: Supports Wake on Lan (WOL) Out-of-band, Mac Address Passthrough (MAPT) Out-of-band (HP models only), and PXE boot. The functionality may vary with PC settings.
		NOTE: This network port is fully energy efficient according to IEEE standards (IEEE 802.3az-2010), as long as all connected devices support this feature.
(6)	HDMI port	Connects the HDMI cable to a source device such as a computer.
(7)	DisplayPort	Connects a DisplayPort cable to a source device such as a computer.
(8)	DisplayPort OUT connector	Connects the monitor to another monitor for multistreaming.
		NOTE: If you need to remove the DisplayPort cable from the DisplayPort OUT connector, you should remove the cables in the following order:
		1. HDMI cable (if connected)
		2. DisplayPort cable from the DisplayPort IN port (if connected)
		3. DisplayPort cable from the DisplayPort OUT port
(9)	USB Type-A port	Connects a USB cable to a peripheral device, such as a keyboard, mouse, or USB hard drive.
		NOTE: This port also serves as the dedicated port for the Text-to-Speech (TTS) adapter (camera model only).

	Component	Description
(10)	USB Type-A port (includes KVM connection)	Connects a USB cable to a peripheral device, such as a keyboard, mouse, or USB hard drive, and charges peripheral devices. This is the dedicated USB Type-A port for KVM functions. It supports the KVM hot-key function on a keyboard that is connected to this port.
(11)	USB Type-C port 2 (upstream)	Connects a second PC to the monitor through the USB Type-C port (data only).
(12)	USB Type-C Thunderbolt output port	Connects the monitor to another monitor for multistreaming.
(13)	USB Type-C Thunderbolt port 1 (upstream)	Connects a Thunderbolt or USB Type-C cable to a source device such as a computer or game console. This Thunderbolt port can function as a DisplayPort input or as a USB 3.0 connection. It can also be used to deliver up to 100 W of power to a device. Power outputs are 5 V/ 9 V/ 12 V/ 15 V/ 20 V to achieve a 100 W output. This port also enables the USB Type-A ports to perform their functions.
(4.4)		
(14)	USB Type-A port	Connects a USB cable to a peripheral device, such as a keyboard, mouse, or USB hard drive.
(15)	USB Type-C port (downstream)	Connects a USB cable to a peripheral device, such as a keyboard, mouse, or USB hard drive.

Table 2-4 Rear components and their descriptions (QHD and UHD models) (continued)

Locating the serial number and product number

Depending on the product, the serial number and product number are located on a label on the rear of the monitor or on a label under the front bezel of the monitor head. You might need these numbers when you contact HP for support.



Setting up the monitor

This section describes attaching the monitor stand or wall mount and the options for connecting your monitor to a PC, notebook, gaming console, or similar device.

▲ WARNING! 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.

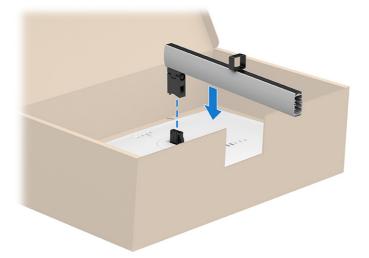
- **IMPORTANT:** To prevent damage to the monitor, do not touch the surface of the LCD panel. Pressure on the panel can cause nonuniformity of color or disorientation of the liquid crystals. If this occurs, the screen will not recover to its normal condition.
- IMPORTANT: To prevent the screen from getting scratched, defaced, or broken and to prevent damage to the control buttons, position the monitor facedown on a flat surface covered with protective sheet foam or a nonabrasive cloth.

Attaching the monitor stand (flat screen monitor)

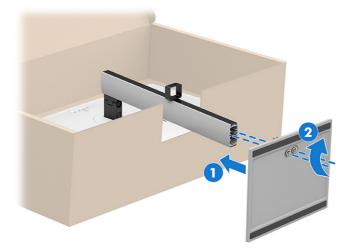
Correctly attaching your monitor stand is critical for safe use. This section describes how to safely attach a stand.

- TIP: Consider the placement of the monitor, because surrounding light and bright surfaces might cause interfering reflections.
- NOTE: The procedures for attaching a monitor stand might be different on other models.
- NOTE: Leave the monitor in the box to protect the screen.
 - 1. Open the box so that the monitor head is facedown in the box.
 - 2. Remove the protective covering from the monitor.
 - 3. Position the monitor stand on the mounting plate on the rear of the monitor, and then snap the monitor stand into place.

The latch on the stand clicks when you lock the stand in place.



4. Attach the base to the monitor stand (1), and then tighten the screws (2).



Mounting the monitor head

To attach your monitor to a wall using a swing arm or other mounting fixture, follow the steps in this section to safely and securely connect your monitor.

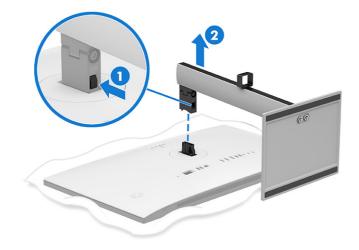
- IMPORTANT: This monitor supports the VESA industry-standard 100 mm mounting holes. To attach a third-party mounting solution to the monitor head, use four 4 mm, 0.7 pitch, and 10 mm long screws (M4 × 10L). Longer screws might damage the monitor. Be sure that the manufacturer's mounting solution is compliant with the VESA standard and is rated to support the weight of the monitor head. For best performance, use the power and video cables provided with the monitor.
- NOTE: This apparatus is intended to be supported by a UL-listed, CSA-listed, or GS-listed wall-mount bracket.

Removing the monitor stand

If you decide to use a wall mount instead of the monitor stand that you attached, first remove the stand.

- IMPORTANT: Before you disassemble the monitor, be sure that the monitor is turned off and all cables are disconnected.
- IMPORTANT: To position and stabilize the monitor, HP recommends that two people perform these procedures.
 - 1. Disconnect and remove all cables from the monitor.
 - 2. Position the monitor facedown on a flat surface covered by protective sheet made of foam or a clean, dry cloth.
 - 3. Push up the latch or screw near the bottom center of the stand where it attaches to the monitor (1).

4. Remove the stand (2).



Attaching the monitor head to a mounting device

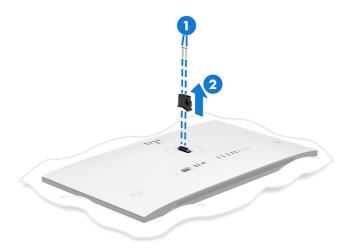
You might need additional tools such as a screwdriver (purchased separately) when you attach a mounting device. To avoid damage to your monitor, follow these instructions.

1. Push the monitor stand downward.

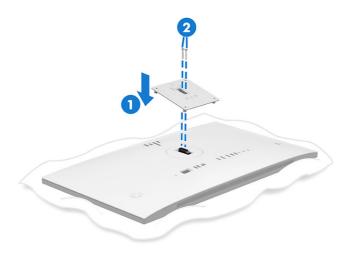


2. Remove the monitor stand.

3. Remove the two screws from the stand connector (1), and then lift it up (2) to remove it from the monitor.

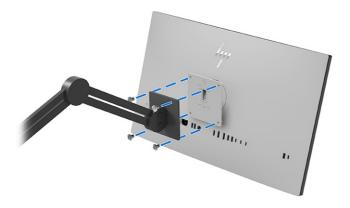


4. Center the VESA plate on the stand connector (1), and then fasten the two screws (2) to the stand connector to hold the VESA plate in place.

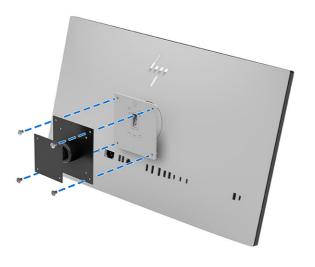


- 5. Do one of the following, depending on how you are mounting the monitor.
- **IMPORTANT:** If these instructions do not apply to your device, follow the mounting device manufacturer's instructions when mounting the monitor to a wall or swing arm.

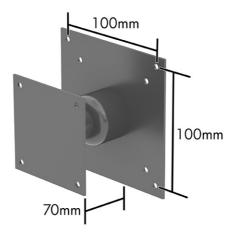
a. If you are mounting the monitor onto a swing arm, insert the four mounting screws through the holes on the mounting device into the VESA screw holes on the back of the monitor head.



b. If you are attaching the monitor to a wall or other flat surface, insert the four mounting screws through the holes on the mounting device into the VESA screw holes on the back of the monitor head.



NOTE: If you are attaching the monitor to a wall or other flat surface, HP recommends that you purchase a wall mount kit with the dimensions shown here.

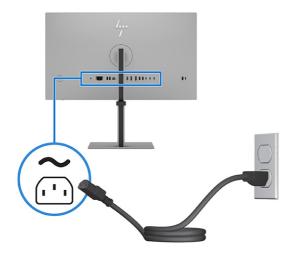


Connecting the cables

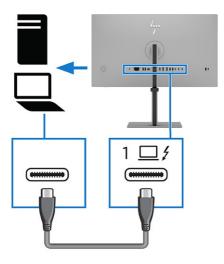
In addition to details about how to connect a cable, this section contains information about how your monitor functions when you connect certain cables.

- NOTE: Depending on the model, the monitor might be capable of supporting USB Type-C Thunderbolt, HDMI, or DisplayPort inputs. The video mode is determined by the video cable used. The monitor automatically determines which inputs have valid video signals. You can select the inputs through the OSD menu. The monitor ships with select cables. Not all cables shown in this section are included with the monitor.
 - 1. Place the monitor in a convenient, well-ventilated location near the computer.
 - 2. Connect one end of the power cord to the power connector on the monitor and the other end to a grounded AC outlet.
 - **WARNING!** To reduce the risk of electric shock or damage to the equipment:
 - Do not disable the power cord grounding plug. The grounding plug is an important safety feature.
 - Plug the power cord into a grounded (earthed) AC outlet that is easily accessible at all times.
 - Disconnect power from the equipment by unplugging the power cord from the AC outlet.

For your safety, do not place anything on power cords or cables. Arrange them so that no one can accidentally step on or trip over them. Do not pull on a cord or cable. When unplugging the power cord from the AC outlet, grasp the cord by the plug.



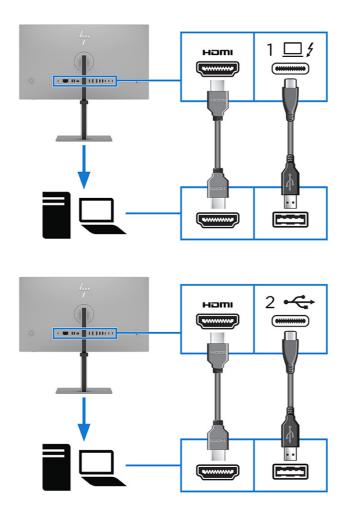
- 3. Connect a video cable.
- NOTE: To enable the USB Type-A ports and USB Type-C port (downstream), connect the USB Type-C Thunderbolt cable or the USB Type-C-to-USB Type-A cable from the source device to the Thunderbolt input port or the USB Type-C (upstream) port at the rear of the monitor. This connection serves as a USB hub for a mouse, keyboards, phones, external hard drives, and anything else that is connected via a USB port.
 - Connect one end of a Thunderbolt cable to the Thunderbolt port 1 on the rear of the monitor and the other end to the Thunderbolt port on the source device. Use only the HP-approved Thunderbolt cable provided with the monitor.



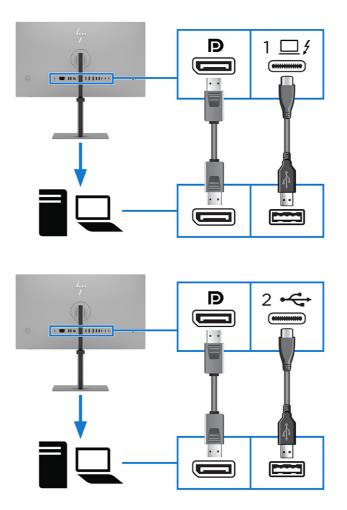
NOTE: The monitor's Thunderbolt port provides network, data, video, and power delivery (up to 100 W).

The host device must be able to support DisplayPort Alt Mode (video, charging, and USB 3.2) over the Thunderbolt connector. The host device must also be compatible with USB Type-C-Thunderbolt-enabled ports.

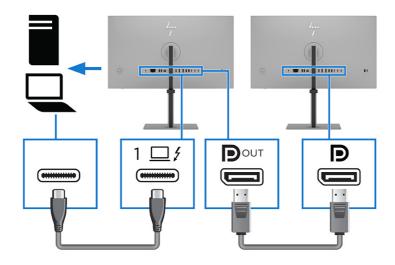
• Connect one end of an HDMI cable to the HDMI port on the rear of the monitor and the other end to the HDMI port on the source device. Connect one end of a USB-C-to-A cable to the USB-C port 2 (upstream) or USB Type-C Thunderbolt port 1 on the rear of the monitor and the other end to the USB-A on the source device.

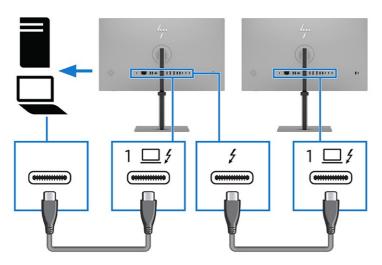


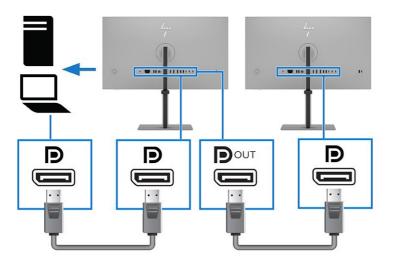
• Connect one end of a DisplayPort cable to the DisplayPort port on the rear of the monitor and the other end to the DisplayPort connector on the source device. Connect one end of a USB Type-C-to-A cable to the USB Type-C port 2 (upstream) or USB Type-C Thunderbolt port 1 on the rear of the monitor and the other end to the USB Type-A port on the source device.



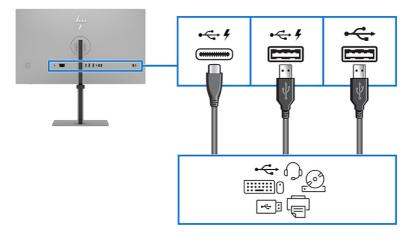
- Add a second monitor by connecting the cables using one of the following configurations:
 - Connecting a USB Type-C Thunderbolt cable between the USB Type-C Thunderbolt OUT port on the primary monitor and the DisplayPort IN port on a secondary monitor
 - Connecting a USB Type-C Thunderbolt cable between the USB Type-C Thunderbolt OUT port on the primary monitor and the USB Type-C Thunderbolt input port on a secondary monitor
 - Connecting a DisplayPort cable between the DisplayPort OUT port on the primary monitor and the DisplayPort IN port on a secondary monitor



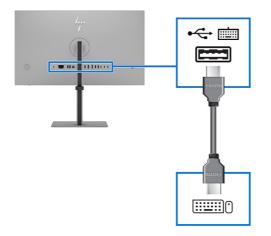




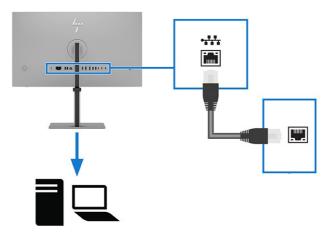
4. Use the USB Type-A or USB Type-C ports (downstream) on the rear of the monitor to connect devices such as the ones shown below.



5. If you are connecting two computers to the monitor, connect a keyboard to the dedicated USB Type-A keyboard port to use a hotkey on the keyboard to switch between the computers.



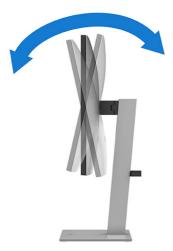
6. Connect one end of a network cable to the network jack on the monitor and the other end to a network wall jack or router.



Adjusting the monitor

To support an ergonomic work space, your monitor offers the adjustment options outlined in this section.

- ▲ WARNING! 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.
 - 1. Tilt the monitor head forward or backward to set it to a comfortable eye level.

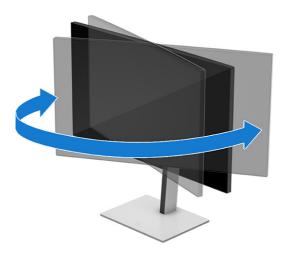


2. Adjust the monitor's height to a comfortable position for your individual workstation. The monitor's top bezel edge should not exceed a height that is parallel to your eye height. A monitor that is

positioned low and reclined might be more comfortable for users with corrective lenses. Reposition your monitor as you adjust your working posture throughout the work day.



3. Swivel the monitor head to the left or right for the best viewing angle.



- 4. You can pivot the monitor head from landscape to portrait orientation viewing to adapt to your application.
- ▲ CAUTION: HP recommends that you disconnect all cables before pivoting the monitor from landscape to portrait. If you pivot the monitor with the cables connected, you might damage the cables or the connectors.
- IMPORTANT: If the monitor is not in full height and full tilt position when pivoting, the bottom right corner of the monitor panel will come in contact with the base and potentially cause damage to the monitor.

If you are adding an optional speaker bar to the monitor, install it after pivoting the monitor. The speaker bar will come in contact with the base when the monitor pivots and potentially cause damage to the monitor or speaker bar.

• Adjust the monitor to full height position and tilt the monitor back to full tilt position (1).

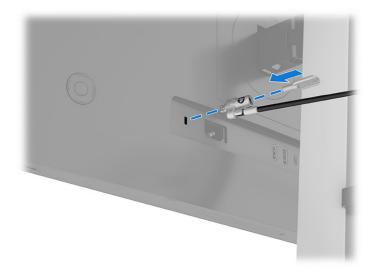
• Pivot the monitor clockwise or counterclockwise 90° from landscape to portrait orientation (2).



NOTE: Use the operating system's display settings to rotate the image on the screen from landscape to portrait. To rotate the OSD from landscape to portrait, open the OSD menu and select **Image Adjustment**, select **On-Screen Menu Rotation**, and then select **Portrait**.

Installing a security cable

As a security measure, you can secure the monitor to a fixed object with an optional security cable available from HP. Use the key that came with the optional security cable to attach and remove the lock.



Turning on the monitor

This section provides important information about preventing damage to your monitor, startup indicators, and troubleshooting information.

IMPORTANT: Burn-in image damage might occur on monitors that display the same static image on the screen for 12 or more hours. To avoid burn-in image damage, you should always activate a screen saver application or turn off the monitor when it will not be in use for a prolonged period of time. Image

retention is a condition that might occur on all LCD screens. Burn-in damage on the monitor is not covered under the HP warranty.

Press the power button on the monitor to turn it on.

NOTE: Refer to the illustration that best matches your monitor.



NOTE: If pressing the power button has no effect, the Power Button Lockout feature might be enabled. To disable this feature, press and hold the monitor power button for 10 seconds.

When you first turn on your monitor, a monitor status message is displayed for 5 seconds. The message shows which input is the current active signal, the status of the auto-switch source setting (On or Off; default setting is On), the current preset display resolution, and the recommended preset display resolution.

Another message then appears to ask if you want to keep the monitor in power-saving mode or switch to performance mode. You can choose which setting you prefer.

The monitor automatically scans the signal inputs for an active input and uses that input for the display.

HP watermark and image retention policy

Some monitors are designed with In-Plane Switching (IPS) display technology, which provides ultrawide viewing angles and advanced image quality. Though suitable for many applications, this panel technology is not suitable for static, stationary, or fixed images for long periods of time, unless you use screen savers.

Applications with static images can include camera surveillance, video games, marketing logos, and templates. Static images can cause image retention damage that could look like stains or watermarks on the monitor's screen.

Image retention damage on monitors that are in use 24 hours per day is not covered under the HP warranty. To avoid image retention damage, always turn off the monitor when it is not in use, or use the power management setting, if supported on your computer, to turn off the monitor when the computer is idle.

Connecting an HP notebook or desktop

You can attach a computer, notebook, gaming console, or similar device to the monitor with a single USB Type-C Thunderbolt connection (port 1). This connection provides network, data, video, and power delivery when you connect the device.

NOTE: Be sure that the network cable is connected from the network source jack to the monitor's network jack for a network connection through the USB Type-C Thunderbolt connection (port 1). The performance of the monitor might depend on the host PC.

The host computer must be able to support DisplayPort Alt Mode (video, charging, and USB 3.1) over the Thunderbolt connection (port 1) and must also be compatible with USB Type-C ports.

To connect a computer, connect one end of a USB Type-C cable to the USB Type-C Thunderbolt connection (port 1) on the rear of the monitor and the other end to the USB Type-C port on the computer. This USB Type-C cable provides single-cable connectivity for high-speed data, audio (camera model only) and video, and power delivery.

NOTE: The monitor delivers up to 100 W of power over the Thunderbolt connection (port 1). When connecting the host computer via the USB Type-C Thunderbolt connection (port 1), DC power out does not need to be connected. Do not connect two power sources (DC power out and USB Type-C Thunderbolt connection (port 1) to the host computer.

USB Type-C Thunderbolt mode

When a Thunderbolt cable or a USB Type-C cable is connected to the computer and Alt mode is detected, the monitor switches to the USB Type-C Thunderbolt mode and the following features are activated.

- PXE boot
- Out-of-band MAC address passthrough: Your computer might support MAC Address Pass Through from the on, off, sleep, or hibernation states.

The MAC Address Pass Through is supported for UEFI PXE boot.

 Out-of-band Wake on LAN (WOL): Your computer might support WOL from the off, sleep, or hibernation states. (Performance mode only)

WLAN-LAN switching is supported only on select computers running the Windows[®] 11 or Windows 10 operating systems.

- Single power on: If the monitor is connected to the computer via the USB Type-C Thunderbolt input port and you switch the monitor to Performance mode, you can turn the computer on or off using the power button on the monitor.
- NOTE: You must enable the Power Button (select products only) feature from the Power setting in the OSD menu.

3 Using the monitor

This chapter describes how to use your monitor and its features, including software and utilities, the OSD menu, the function buttons, power modes, and Windows Hello.

Downloading HP Display Center

You can download and install the HP Display Center software from the Microsoft[®] store.

- 1. Select the Microsoft Store app on your desktop or type Microsoft Store in the taskbar search box.
- 2. Type HP Display Center in the Microsoft Store search box.
- 3. Follow the on-screen instructions.

The tool downloads to the selected location.

Downloading software and utilities

You can download and install these files from HP Support.

- INF (Information) file
- ICM (Image Color Matching) file

To download the files:

- 1. Go to <u>http://www.hp.com/support</u>.
- 2. Select Software and Drivers.
- 3. Select your product type.
- 4. Enter your HP monitor model in the search field and follow the on-screen instructions. The .inf and .icm files are included in the SoftPaq.

The Information (INF) file

The INF file defines monitor resources used by Windows operating systems to ensure monitor compatibility with the computer's graphics adapter.

This monitor is Plug and Play compatible, and the monitor will work correctly without installing the INF file. Monitor Plug and Play compatibility requires that the computer's graphics card is VESA DDC2 compliant and that the monitor connects directly to the graphics card. Plug and Play does not work through separate BNC-type connectors or through distribution buffers, boxes, or both.

The Image Color Matching (ICM) file

The ICM files are data files that are used in conjunction with graphics programs to provide consistent color matching from monitor screen to printer, or from scanner to monitor screen. These files are activated from within graphics programs that support this feature.

NOTE: The ICM color profile is written in accordance with the International Color Consortium (ICC) Profile Format specification.

Enabling AMD FreeSync Premium compatibility (select products only)

The AMD[®] FreeSync[™] technology eliminates screen tearing and minimizes display stutter and input lag by locking the refresh rate to the frame rate of the graphics card.

- MOTE: The AMD FreeSync Premium default setting is ON.
- NOTE: For better FreeSync performance, you must enable the FreeSync function from the Power Performance mode.
 - 1. Press the center of the Joypad to open the OSD menu.
 - 2. Select Image.
 - 3. Select AMD FreeSync Premium or AdaptiveSync, and then select ON.

Using the OSD menu

You can adjust your HP monitor to suit your preferences. Use the OSD menu to customize the viewing features of your monitor.

To access and make adjustments in the OSD, use the Joypad on the monitor's rear panel. See <u>Rear</u> <u>components on page 6</u>.

- 1. If the monitor is not already on, press the power button to turn on the monitor.
- 2. Press the center of the Joypad.
- 3. Press the function buttons up, down, left, or right to navigate menu choices. Press the center of the Joypad to make a selection.

The following table lists possible menu selections in the OSD main menu. It includes descriptions for each setting and its impacts on your monitor's appearance or performance.

Table 3-1	OSD menu options and	l descriptions for using	g a button or a controller

Main menu	Description
Image	Adjusts the screen image.
Color	Selects and adjusts the screen color.
Split screen	Selects and adjusts PiP or PbP settings.
Input	Selects the video input signal (DisplayPort, HDMI, USB-C Thunderbolt video).

Table 3-1 OSD menu options and descriptions for using a button or a controller (continued)
--

Main menu Description		
Audio (camera model only)	Selects and adjusts audio settings.	
Power	Adjusts the power settings.	
Menu	Adjusts the OSD menu and function button controls, and selects the language used to display the OSD menu (the factory default is English).	
Management	Adjusts the Display Data Channel/Command Interface (DDC/CI), Webcam HDR, Auto-Framing Background Blur settings, and allows you to return all OSD menu settings to the factory defau settings.	
nformation Provides information about the monitor such as optimal display mode, power mode, and serie number.		
Exit	Exits the OSD menu screen.	

Using the Joypad buttons

The Joypad menu options offer useful actions, and you can customize all of the buttons except for the menu button (middle button).

NOTE: The actions of the Joypad menu options vary among monitor models.

For information about changing the function of the Joypad menu options, see <u>Reassigning the OSD</u> menu options on page 28.



Table 3-2 Menu options and functions (standard model)

Option	lcon	Description
Menu		Opens the OSD main menu, selects a menu item from the OSD, or closes the OSD menu.
Brightness	*	Adjusts the monitor screen brightness.

Table 3-2 Menu options and functions (standard model) (continued)

Option	lcon	Description
Color	*	Opens the Color menu where you can select a preset view mode.
Split screen	РЬР	Turns the split screen option on or off.
		NOTE: This option turns on PiP or PbP.
Next	Ð	Switches the monitor's input source to the next active input.



Table 3-3 Menu options and functions (camera model)

Option	lcon	Description
Menu		Opens the OSD main menu, selects a menu item from the OSD, or closes the OSD menu.
Next	Ð	Switches the monitor's input source to the next active input.
Color	*	Opens the Color menu where you can select a preset view mode.
Volume	•	Opens the Volume hot key menu.
Split screen	РЬР	Turns the split screen option on or off.
		NOTE: This option turns on PiP or PbP.

Reassigning the OSD menu options

Except for the **Menu** option, you can change the action associated with an option from its default action to a menu option you use more frequently.

To reassign the function buttons:

- 1. Press the Menu option to open the OSD menu.
- 2. Select **Menu**, select **Assign Buttons**, and then select one of the available options for the button that you want to assign.

Display mode status

When you turn on the monitor, the status message shows the display mode. The display mode is also displayed when you change the video input.

Changing the Power Mode setting

This section describes how to activate Performance mode. Certain features on your monitor might require Performance mode to be active.

When in sleep mode, to comply with international power standards, the monitor default setting is Power Saver mode. Power Saver mode or Performance mode keeps USB ports enabled when the monitor is in Auto-Sleep mode.

- NOTE: The Auto-Sleep mode default is ON in Power Saver mode.
- NOTE: If you are connecting a computer that is not battery powered, you must change the Power Mode setting to Performance mode.

To change the power mode setting:

- 1. Press the Menu button to open the OSD menu.
- 2. Select Power, select Power Mode, and then select Performance.
- 3. Select **Back** and close the OSD.

Using Auto-Sleep Mode

Your monitor has an energy-saving feature called Auto-Sleep Mode, which is a reduced power state. This section describes how to activate or adjust Auto-Sleep Mode on your monitor.

When Auto-Sleep Mode is enabled, which it is by default, the monitor enters a reduced power state when the computer signals low-power mode, which it does by the absence of either a horizontal or vertical sync signal.

Upon entering this reduced power state (Auto-Sleep mode), the monitor screen is blanked, the backlight turns off, and the power light turns amber. The monitor draws less than 0.5 W of power when in this reduced power state. The monitor wakes from Auto-Sleep mode when the computer sends an active signal to the monitor (for example, when you activate the mouse or keyboard).

To disable Auto-Sleep Mode in the OSD:

- 1. Press the Menu button to open the OSD, or press the center of the Joypad to open the OSD.
- 2. In the OSD, select **Power**.
- 3. Select Auto-Sleep Mode, and then select Off.

Using PiP and PbP

The monitor supports both PiP, where one source is overlaid on another, and PbP, where one source is positioned adjacent to another either horizontally (for landscape orientation) or vertically (for portrait orientation).

To use PiP or PbP:

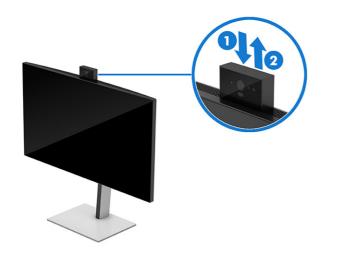
- 1. Connect a secondary input source to the monitor.
- 2. Press the center of the OSD controller on the rear of the monitor to open the OSD.
- 3. In the OSD, select Split Screen and then select PiP (Picture-in-Picture) or PbP (Picture-by-Picture).

The monitor scans the secondary inputs for a valid signal input and uses that input for the PiP or PbP picture.

- 4. If you want to change the PiP or PbP input, select **PiP (Picture-in-Picture)** or **PbP (Picture-by-Picture)** in the OSD, and then select **Assign Inputs**.
- 5. If you want to change the size of the PiP, select **PiP Size** in the OSD, and then select the size that you want.
- 6. If you want to adjust the position of the PiP, select **PiP Position** in the OSD, and then select the position that you want.

Using the camera (camera model)

To unlock the camera, gently press down until it clicks **(1)**. The camera rises up to the uppermost position **(2)**.

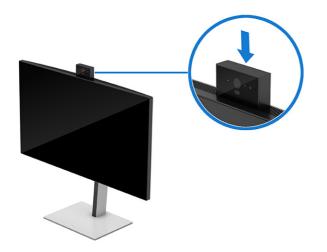


XNOTE: If a camera firmware update is required, unlock the camera before updating the firmware.

You can use the camera on the monitor to sign in to Windows by using Windows Hello facial recognition, maintain conversation security, and conduct video conferencing.

NOTE: For video conferencing, connect the computer to the monitor, and then select **HP Display 5MP AI HDR Camera** from the video conferencing interface. When the camera is closed, the microphone on the camera is disabled.

When the camera is not in use, you can close the camera by pressing down on it until it clicks into the closed position.



The camera includes these features:

Table 3-4 Camera features

Option	Description	
Image resolution	The resolution is 2688 × 1944 30 FPS or 1920 × 1080 60 FPS.	
Auto-framing	If you are within 75 cm of the webcam, the webcam enables the Auto-framing option, and automatically adjusts the frame to focus on you to keep you in the center of the frame. You can enable or disable this function from the OSD menu in Management > Webcam > Auto-Framing .	
High Dynamic Range (HDR) support	The HDR option offers a high-quality light and shadow detail in the image in extreme lighting environments. You can enable or disable this function from the OSD menu in Management > Webcam > Webcam HDR .	
Background Blur support	The background is blurred to ensure privacy. You can enable this function from the OSD menu in Management > Webcam > Background Blur .	

MOTE: You can also enable additional features from HP Display Center.

INOTE: Full HD supports only 30 FPS when you enable the HDR or Background Blur function.

Setting up Windows Hello facial recognition (camera model only)

In select products, you can use Windows Hello facial recognition to gain quick, secure access to your computer. You can establish facial recognition by using either the camera on your computer or the camera on your monitor.

NOTE: Windows Hello is only supported on the Windows 10 operating system.

Using the computer camera for Windows Hello

Follow these steps to set up Windows Hello facial recognition on a device with a Windows Hello camera.

- 1. Download the HP Windows Hello software driver from <u>http://support.hp.com/us-en/drivers/products</u>.
- 2. Connect the monitor to the computer and turn on the computer and monitor.
- 3. Right-click the Windows desktop and select Display settings.
- 4. Select the monitor and scroll down to the **Multiple displays** section.
- 5. From the drop-down menu, select **Extend desktop to this display**.
- 6. Select the Make this my main display check box.
- 7. Select the Start button, select Settings, select Accounts, and then select Sign-in options.
- 8. Under Windows Hello, select Set up under Face Recognition.
- 9. Under Welcome to Windows Hello, select Get Started, and then follow the on-screen instructions to enroll your facial ID and set up a personal identification number (PIN).

You can now use the infrared (IR) camera on the monitor to log in when using Windows Hello.

Using the monitor camera for Windows Hello

Even if your computer does not have a Windows Hello camera, you can still set up Windows Hello facial recognition using the IR camera on your monitor.

- 1. Select the Start button, select Settings, select Accounts, and then select Sign-in options.
- 2. Under Windows Hello, select Set up under Face Recognition.
- 3. Under Welcome to Windows Hello, select Get Started, and then follow the on-screen instructions to enroll your facial ID and set up a PIN.

You can now use the IR camera on the monitor to log in when using Windows Hello.

Setting up Auto Lock and Awake (camera model)

Auto Lock and Awake monitors your presence in front of the computer to save power and add security. When you step away from the computer, the proximity sensor puts the computer into the Sleep state. When you return to the computer, your computer recognizes you and wakes the computer automatically. Auto Lock and Awake is turned on by default.

- NOTE: If you also want to set up facial recognition log-in for Auto Lock and Awake, see <u>Setting up</u> <u>Windows Hello facial recognition (camera model only) on page 31</u>. These features are only supported on the Windows 11 operating system.
- NOTE: You can also enable Auto Lock and Awake from the OSD menu. Go to Management > Presence Detection.

To access Auto Lock and Awake on your monitor:

1. Select the Start button, and select Settings. Select System, and then select Power & battery.

- 2. Under Power & battery, select Screen and sleep.
- 3. Select one or both from the following choices:
 - Select Turn off my screen when I leave to turn off your screen when you leave the computer.
 - Select Wake up my device when I approach to wake your computer when you approach it.
- 4. For more settings, select **More options** in this screen, and then select from the following choices:
 - Select **Consider me gone when I'm this far away** to set the distance at which the user-proximity sensor considers you gone.
 - Select **Then turn off my screen after this amount of time** to determine how much time to wait before your screen turns off after you leave your computer.
 - Select **Wake my device when I'm this close** to determine how close you need to be for your computer to wake when you approach it.

You can use the IR camera on the monitor to log in when using Windows Hello.

NOTE: Some devices might have more than one user-proximity sensor. You can select which one you want to use. When a monitor is attached to a notebook that also has a user-proximity sensor, the operating system automatically selects the monitor's user-proximity sensor.

Ambient light sensor

Select monitors include an ambient light sensor (ALS) that adjusts the brightness based on the ambient lighting conditions in your environment. You can turn the ambient light sensor on or off in OSD under the **Image** menu or from HP Display Center.

NOTE: If you manually adjust the brightness monitor setting, the ambient light sensor function automatically turns off.

When ALS is on, Dynamic Contrast is turned off and disabled. You cannot turn Dynamic Contrast on unless you manually turn off ALS. When the ambient light sensor turns off, you must use the manual brightness controls to adjust brightness. See <u>Camera components (camera model) on page 5</u>.

Multistreaming over USB Type-C Thunderbolt or DisplayPort Ports

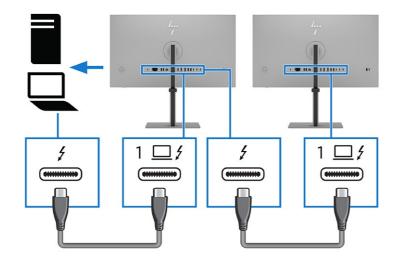
If you are using the USB Type-C Thunderbolt port 1 or DisplayPort as the primary video input source, you can multistream to other DisplayPort monitors that are connected in a daisy-chain configuration.

The number of monitors you can connect through DisplayPort multistreaming depends on a number of factors, including the resolutions and scan rates used for each monitor and the capabilities of your GPU or embedded graphics system. If you have purchased a new graphics card for your computer, check the manual that came with your graphics card for further information about its capabilities.

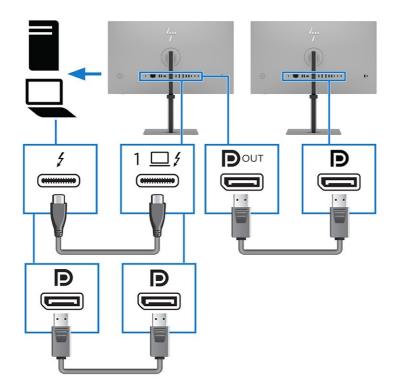
For the 4K model, you can also connect up to two 4K monitors in this configuration if the graphics card in your computer supports this configuration.

1. Be sure that the USB Thunderbolt port 1 or Display Port is the primary video input.

- 2. Add a second monitor by connecting a Thunderbolt or DisplayPort cable between the Thunderbolt OUT or DisplayPort OUT port on the primary monitor, and the Thunderbolt IN or DisplayPort IN port on a secondary monitor.
- NOTE: The daisy-chained monitors must have Thunderbolt IN and OUT ports. The last monitor in the chain needs only a Thunderbolt IN video port.



NOTE: The daisy-chained monitors need to have DisplayPort IN and OUT video ports. The last monitor in the chain needs only a DisplayPort IN video port.



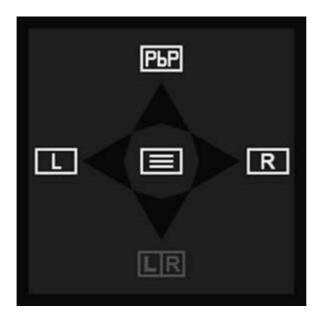
3. Set a connected monitor to display the same image as the primary monitor or a different image.

Using the split-screen function buttons

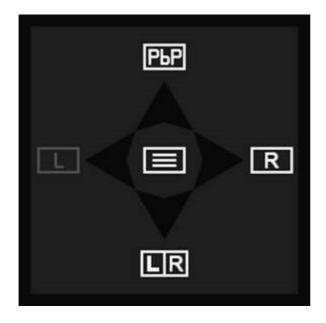
The split-screen option offers useful actions that you can use while in split-screen mode.

For information about changing the function of the menu options, see <u>Reassigning the OSD menu</u> options on page 28.

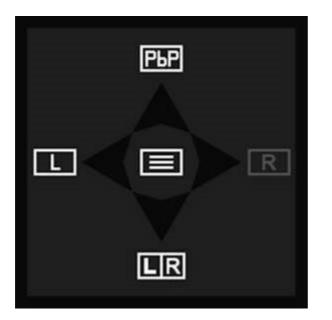
1. When the split-screen option is on and PbP is selected, the OSD menu is displayed.



2. Select L to switch the monitor to full screen for the left input.



3. Select **R** to switch the monitor to full screen for the right input.



4. Select LIR to return to split-screen mode. You can also select PbP to turn off split screen mode, and then return to the default option or the last changed or saved button menu.

Connecting a second computer to the monitor using the KVM function

The keyboard, video, mouse (KVM) function provides the capability to connect two computers to one monitor with quick monitor access to either computer. It enables both monitors to be controlled using one keyboard and one mouse.

To enable video input from a second computer, connect either a DisplayPort cable or an HDMI cable to the appropriate connector on the rear of the monitor.

For example, connect one end of a DisplayPort cable to a DisplayPort connector on the rear of the monitor, and the other end to a DisplayPort connector on the second computer. If the second computer has only an HDMI port, connect one end of the HDMI cable to an HDMI port on the rear of the monitor, and the other end to an HDMI port on the second computer.

To enable the USB connection to the second computer, connect a USB Type-C to USB Type-A cable to the USB Type-C port (2) on the monitor.

When the USB Type-C Thunderbolt input port (1) is connected and active, the monitor automatically switches to the USB Type-C Thunderbolt input for both video and USB data. The USB Type-C Auto Switch is enabled.

When the USB Type-C Thunderbolt input is disconnected and the second computer is active, the monitor automatically switches back to the active input (DisplayPort or HDMI).

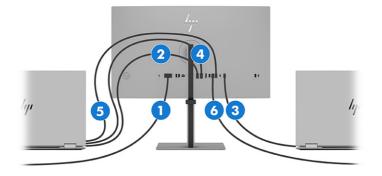


Table 3-5 Connecting a second monitor

Components		Description
(1)	Power connector	Connects your monitor to a power outlet.
(2)	HDMI port	When the second computer is active (PC 2), the monitor switches to the active input (HDMI or DisplayPort).
(3)	Thunderbolt port (USB Type-C port 1)	Multiple function support includes charging, USB, and display functions.
(4)	DisplayPort connector	When the second computer is active (PC 2), the monitor switches to the active input (HDMI or DisplayPort).
(5)	USB Type-C port 2	USB port connects to PC 2.
(6)	USB Type-A port	Dedicated port that connects to a keyboard for KVM functionality. See Rear components on page 6.

Toggle in KVM Mode

With two computers connected to one monitor and the KVM mode option selected, the user can toggle back and forth from one computer to the other by pressing the left Ctrl key twice on your keyboard.

NOTE: The keyboard must be connected to the USB Type-A port for KVM connections, found on the back of the monitor.

Connection priorities in KVM mode

When two monitors are in KVM mode, connection priorities are assigned.

The following types of KVM mode connections are available:

- Thunderbolt USB Type-C port (1) uses a Thunderbolt or USB Type-C cable only.
- USB Type-C port (2) uses a USB Type-C to A cable only.
- Bind mode uses the current video input port even if the auto-switching USB host is disabled. If the first computer is disconnected, the KVM mode setting switches to the second computer, provided it is turned on.

In PiP or PbP mode, the KVM function offers primary input and secondary input. Each input can be selected when PiP or PbP mode is enabled under OSD. The KVM function defaults to the primary Thunderbolt USB Type-C port (1) input, which offers both video and data. You can select a USB Type-C port (2) binding set with the DisplayPort or HDMI port.

If both computers are powered on and connected, the computer with the primary input connection has priority over the other computer in PiP or PbP mode. If the primary input is disconnected and other input port is active, the monitor switches to the active input, and the second binding set is the USB input.

Using Picture-by-Picture (PbP)

The monitor supports PbP, where one source is positioned adjacent to another. The monitor default setting for PbP is **Off**. The **Assign Inputs** menu (inside the **Split-Screen** menu) is set to **Automatic**.

When PbP is in automatic mode:

• The screen is in full-screen, single-input mode if the monitor has only one active input. When a second active input is attached, the monitor automatically switches input to split screen PbP mode.

The monitor switches back to full-screen mode when you remove one of the two active inputs. The OSD button menu also changes along with full-screen vs. split-screen mode.

- To switch the left/right video input location from the default, see the **Assign Inputs** menu located under **Split Screen**, and then select **Swap Left/Right** screen locations, or select **Manual** to force a specific input to each side of the PbP screen.
- The USB Type-C upstream (host) connection is set to **Auto-Switch USB Host** by default. You can manually change this setting along with the added option to bind a specific USB-C host to a specific DisplayPort or HDMI input in the OSD **USB Host** menu located under **Split Screen**.
- The priority in power negotiation goes to the host computer connected to the USB Type-C Thunderbolt port 1.
- The host computer connected to the USB Type-C Thunderbolt port 1 is guaranteed a minimum of 65 W of power and maximum of 100 W of power.

NOTE: When a host computer that does not have battery power is attached to the USB Type-C port on the monitor, the Power Mode setting must be set to Performance mode. For detailed instructions, see <u>Changing the Power Mode setting on page 29</u>.

You can set PbP to **On, Manual** mode in the **Assign Inputs** menu (inside the **Split-Screen** menu). In this mode, you can control which side of the screen each host computer appears on (left or right) and which video source is assigned to each host computer. To change PbP to manual mode:

- 1. Connect a secondary input source to the monitor.
- 2. Press one of the OSD buttons to activate the buttons, and then press the Menu button to open the OSD.
- 3. In the OSD, select Split Screen, and then select PbP (Picture-by-Picture).

The monitor scans the secondary inputs for a valid signal input and uses that input for the PbP picture.

4. If you want to change the PbP input, select the **Assign Inputs** menu.

NOTE: If PbP is set to Off, the monitor displays the image from the host computer that is selected as the active video input source in the Input OSD dialog. For more information about the OSD, see Using the OSD menu on page 26.

If you decide to change PbP back to the default On, Automatic mode:

- 1. With two host computers connected to the monitor, press one of the OSD buttons on the rear of the monitor to activate the buttons. Then press the Menu button to open the OSD. For the location of the OSD buttons, see <u>Rear components on page 6</u>.
- 2. In the OSD, select the Split-Screen menu, and then select PbP (Picture-by-Picture).

The Assign Inputs menu becomes active and you can select the Automatic option.

The monitor scans the secondary inputs for a valid video input source and uses that source for the PbP image.

NOTE: The Assign Inputs menu is disabled when Split Screen is disabled, because this is a singleinput solution. You can change inputs through the Input menu, or select the Next Active Input hotkey.

Setting up DTS Virtual:X for Audio (camera model only)

DTS Virtual:X technology delivers virtual height and multichannel virtual surround in addition to bass and dialog enhancement, which creates an immersive audio experience in any room.

You can enable this function in the OSD settings. Go to **Audio** > **DTS Audio Modes** > **Enable DTS Virtual:X**. You can adjust settings in each of the following modes:

- Voice
- Music
- Video

4 Support and troubleshooting

If your monitor is not working as expected, you might be able to resolve the issue by following the instructions in this section.

Using the self-test function

To help verify the correct operation of this monitor, a series of startup images and messages is displayed. These images and messages function as a self-test. Use the following procedure to start the self-test.

- 1. Turn off the monitor and disconnect all of the cables except the power cord.
- 2. Turn on the monitor. An image similar to the one shown here is displayed.



A monitor status message appears next.

Monitor Status	
USB-C Video: DisplayPort: HDMI:	
Auto-Switch Ing Color Setting: Power Mode:	out: On Neutral Power Saver
Current Mode: Optimal Mode:	2560 × 1440 60 Hz

The power-on image and monitor status message indicates that the monitor is working as expected and is looking for a valid video signal.

3. Connect a video source to the monitor and repeat steps 1 through 2. If no external video signal is detected, check the video connection to the host computer.

Internal test pattern generator

This monitor includes a built-in test pattern generator called **Diagnostic Patterns** to help with diagnosing visual anomalies.

To open Diagnostic Patterns:

1. Turn on the monitor.

NOTE: Video inputs do not need to be connected.

- 2. In the left column, navigate to Management.
- 3. In the middle column, navigate to Diagnostic Patterns.
- 4. Perform one of these tasks for the options in the right column:
 - Highlight an option to see a preview in the background (behind the on-screen display (OSD) menu).
 - Select an option to close the OSD menu and view the test pattern in full screen. Press any of the menu buttons in the column to exit the full screen pattern and return to the OSD menu.
 - To close the **Diagnostic Patterns** menu, select **Back** at the bottom of the right column or select any of the other options in the middle column.

HP Model Name		
<i></i>	Factory Reset	Cycle Patterns
"//	DDC/CI Support	Full Screen Black
Image	Ethernet (RJ-45 port)	Full Screen White
Color	USB Hub	Full Screen Red
Split Screen	Diagnostic Patterns	Full Screen Green
Input	Accessibility	Full Screen Blue
Power		
Menu		
Management		
Information	Reset	
Exit	Back	Back
Current Mode: 2560 ×	1440 60Hz	Input: DisplayPort

• To close the OSD menu, select **Exit** at the bottom of the left column.

WOTE: You can view the diagnostic patterns with or without an active external video signal.

Solving common issues

The following table lists possible issues, the possible cause of each issue, and the recommended solutions.

NOTE: Always ensure that the BIOS, device firmware, and monitor firmware are updated to the latest version.

Table 4-1 Common issues and solutions

Issues	Possible cause	Solution
Screen is blank or video is blinking.	Power cord is disconnected.	Connect the power cord.
	Monitor is off.	Press the monitor power button.
		NOTE: If pressing the power button has no effect, press and hold the power button for 10 seconds to disable the Power Button Lockout feature.
	Video cable is improperly connected.	Connect the video cable properly. For more information, see <u>Connecting the cables on page 14</u> .
	System is in Auto-Sleep Mode.	Press any key on the keyboard or move the mouse to inactivate the screen blanking utility.
	Video card is incompatible.	Open the OSD menu and select the Input menu. Set Auto-Switch Input to Off and manually select the input.
		– or –
		Replace the video card or connect the video cable to one of the computer's on-board video sources.
Image appears blurred, indistinct, or too dark.	Brightness setting is too low.	Open the OSD menu, and select Brightness to adjust the brightness scale as needed.
"Input Signal Out of Range" is displayed on screen.	Video resolution rate, refresh rate, or both, are set higher than the monitor supports.	Change the settings to a supported setting. See <u>Preset</u> <u>display resolutions on page 47</u> .
The monitor does not enter into a low-power sleep state.	The monitor's power saving control is disabled.	Open the OSD menu and select Power , select Auto-Sleep Mode , and then set auto-sleep to On .
"On-Screen Menus are Locked" is displayed.	The monitor's OSD Lockout function is enabled.	Press and hold the Left button for 10 seconds to disable the OSD Lockout function.
"Power Button is Locked" is displayed.	The monitor's Power Button Lockout feature is enabled.	Press and hold the Power button for 10 seconds to unlock the power button function.
Monitor has trouble waking from Sleep mode		DisplayPort inputs: Set the DisplayPort hot-plug detection to Always Active .
		Power mode monitors: Set the hot-plug detection to Always Active to switch the monitor to Performance mode.
Slow performance from USB		The monitor has a two-lane default for USB-C. On selected products, you can press the Joypad button to open the OSD menu, navigate to the USB Type-C configuration, and then select USB-C Video + USB 3.2 for data transfer prioritization.
Lower refresh rate or color bits		Select USB-C Video + USB 2.0 for refresh rate/color bits prioritization.
LAN connection drop		Check if the LAN driver version on the host PC is up to date.

Button lockouts

The button lockout function is available only when the monitor is on, an active signal is displayed, and the OSD menu is closed. Holding down the power button or Left button for 10 seconds disables that button. You can enable the button again by holding it down for 10 seconds.

5 Maintaining the monitor

Properly maintained, your monitor can run for many years. These instructions provide steps you can perform to keep your monitor in the best condition.

Maintenance guidelines

Follow these instructions to enhance the performance and extend the life of the monitor.

- Do not open the monitor cabinet or attempt to service this product yourself. Adjust only those controls that are covered in the operating instructions. If the monitor is not operating properly or has been dropped or damaged, contact an authorized HP dealer, reseller, or service provider.
- Use only a power source and connection appropriate for this monitor, as indicated on the label or back plate of the monitor.
- Be sure that the total ampere rating of the products connected to the outlet does not exceed the current rating of the AC outlet and that the total ampere rating of the products connected to the cord does not exceed the rating of the cord. Look on the power label to determine the ampere rating (AMPS or A) for each device.
- Install the monitor near an outlet that you can easily reach. Disconnect the monitor by grasping the plug firmly and pulling it from the outlet. Never disconnect the monitor by pulling the cord.
- Turn the monitor off when it is not in use, and use a screen saver program. Doing this can substantially increase the life expectancy of the monitor.

XINTE: A burned-in image on the monitor is not covered under the HP warranty.

- Never block the slots and openings of the cabinet or push objects into them. These openings
 provide ventilation.
- Do not drop the monitor or place it on an unstable surface.
- Do not allow anything to rest on the power cord. Do not walk on the cord.
- Keep the monitor in a well-ventilated area, away from excessive light, heat, or moisture.

Cleaning the monitor

Use these instructions to clean your monitor when necessary.

- 1. Turn off the monitor and unplug the power cord from the AC outlet.
- 2. Disconnect any external devices.
- 3. Dust the monitor by wiping the screen and the cabinet with a soft, clean antistatic cloth.
- **IMPORTANT:** Do not use cleaners that contain petroleum-based materials such as benzene, thinner, or any volatile substance to clean the monitor screen or cabinet. These chemicals might damage the monitor.

- IMPORTANT: Spray the cleaner onto a cloth and use the damp cloth to gently wipe the screen surface. Never spray the cleaner directly on the screen surface. It can run behind the bezel and damage the electronics. The cloth should be moist, but not wet. Water dripping into the ventilation openings or other points of entry can cause damage to the monitor. Allow the monitor to air-dry before use.
- 4. After you remove the dirt and debris, you can also clean the surfaces with a disinfectant. The World Health Organization (WHO) recommends cleaning surfaces, followed by disinfection, as a best practice for preventing the spread of viral respiratory illnesses and harmful bacteria. A disinfectant that is within HP's cleaning guidelines is an alcohol solution consisting of 70% isopropyl alcohol and 30% water. This solution is also known as rubbing alcohol and is sold in most stores.

Shipping the monitor

Keep the original packing box in a storage area. You might need it later if you ship the monitor or move.

A Technical specifications

This section contains technical specifications for the physical aspects of your monitor, such as the weight and viewing dimensions, as well as required environmental operating conditions and power source ranges.

All specifications represent the typical specifications provided by HP component manufacturers; actual performance can vary either higher or lower.

NOTE: For the latest specifications or additional specifications for this product, go to http://www.hp.com/go/quickspecs/ and search for your specific monitor model to find the model-specific QuickSpecs.

68.6 cm (27 in) model specifications (QHD)

Specification	Metric	U.S.
-		
Display, wide-screen	68.47 cm	27.00 in
Туре	IPS Black	
Viewable image size	68.47 cm diagonal	27.00 in diagonal
Maximum weight (unpacked)	6.50 kg	14.30 lb
Maximum weight (unpacked) (camera model)	7.00 kg	15.40 lb
Dimensions (unpacked with stand)		
Height	54.05 cm	21.28 in
Depth	22.52 cm	8.87 in
Width	61.34 cm	24.15 in
Tilt	-5° to 20°	
Swivel	±45°	
Pivot	±90°	
Environmental requirements temperature		
Operating temperature	5°C to 35°C	41°F to 95°F
Storage temperature	-20°C to 60°C	-4°F to 140°F
Storage humidity	5% to 95% (noncondensing)	
Power source	100 V AC to 240 V AC, 2.8 A, 50 Hz to 60 Hz	
Power source (camera model)	100 V AC to 240 V AC, 2.7 A, 50 Hz to 60 Hz	
Video input terminal	One HDMI port, one DisplayPort port, and one USB Type-C Thunderbolt port	

This section provides specifications for your monitor.

Table A-1 Technical specifications

68.6 cm (27 in) model specifications (UHD)

This section provides specifications for your monitor.

Table A-2	Technical specifications
-----------	--------------------------

Specification	Metric	U.S.
Display, wide-screen	68.47 cm	27.00 in
Туре	IPS Black	
Viewable image size	68.47 cm diagonal	27.00 in diagonal
Maximum weight (unpacked)	6.50 kg	14.30 lb
Maximum weight (unpacked, camera model only)	7.00 kg	15.40 lb
Dimensions (unpacked with stand)		
Height	54.05 cm	21.28 in
Depth	22.52 cm	8.87 in
Width	61.34 cm	24.15 in
Tilt	-5° to 20°	
Swivel	±45°	
Pivot	±90°	
Environmental requirements temperature		
Operating temperature	5°C to 35°C	41°F to 95°F
Storage temperature	-20°C to 60°C	-4°F to 140°F
Storage humidity	5% to 95% (noncondensing)	
Power source	100 V AC to 240 V AC, 2.8 A, 50 Hz to 60 Hz	
Power source (camera model only)	100 V AC to 240 V AC, 3.2 A, 50 Hz to 60 Hz	
Video input terminal	One HDMI port, one DisplayPort port, and one USB Type-C Thunderbolt port	
Webcam		
Active array size	5 MP	
RGB field of view	DFOV = 95.6°	
Maximum video frame rate	2688 × 1944 (5 MP) at 30 FPS	

Preset display resolutions

The following display resolutions are the most commonly used modes and are set as factory defaults. The monitor automatically recognizes these preset modes, and they will appear properly sized and centered on the screen.

68.6 cm (27 in) model (QHD)

This section provides preset display resolutions and preset timing resolutions.

Preset	Pixel format	Horz freq (kHz)	Vert freq (Hz)
1	640 × 480	31.469	59.940
2	640 × 480	37.500	75.000
3	720 × 400	31.469	70.087
4	800 × 600	37.879	60.317
5	800 × 600	46.875	75.000
6	1024 × 768	48.363	60.004
7	1024 × 768	60.023	75.029
8	1280 × 720	45.000	60.000
9	1280 × 1024	63.981	60.020
10	1440 × 900	55.469	59.901
11	1600 × 900	60.000	60.000
12	1600 × 1200	75.000	60.000
13	1680 × 1050	65.290	59.954
14	1920 × 1080	58.250	50.000
15	1920 × 1080	67.500	60.000
16	1920 × 1080	112.500	100.000
17	1920 × 1080	135.000	120.000
18	1920 × 1200	74.566	59.885
19	2560 × 1440	88.787	59.951
20	2560 × 1440	111.857	74.971
21	2560 × 1440	150.919	99.945
22	2560 × 1440	182.996	120.000

Table A-3 Preset display resolutions

Table A-4 Preset timing resolutions

Preset	Pixel format	Horz freq (kHz)	Vert freq (Hz)
1	640 × 480	31.469	59.940
2	640 × 480	37.500	75.000
3	720 × 400	31.469	70.087
4	800 × 600	37.879	60.317
5	800 × 600	46.875	75.000
6	1024 × 768	48.363	60.004

Preset	Pixel format	Horz freq (kHz)	Vert freq (Hz)	
7	1024 × 768	60.023	75.029	
8	1280 × 720	45.000	60.000	
9	1280 × 1024	63.981	60.020	
10	1440 × 900	55.469	59.901	
11	1600 × 900	60.000	60.000	
12	1600 × 1200	75.000	60.000	
13	1680 × 1050	65.290	59.954	
14	1920 × 1080	56.250	50.000	
15	1920 × 1080	67.500	60.000	
16	1920 × 1080	112.500	100.000	
17	1920 × 1080	135.000	120.000	
18	1920 × 1200	74.566	59.885	
19	2560 × 1440	88.787	59.951	
20	2560 × 1440	111.857	74.971	
21	2560 × 1440	150.919	99.945	
22	2560 × 1440	182.996	120.000	

Table A-4 Preset timing resolutions (continued)

68.6 cm (27 in) model (UHD)

This section provides preset display resolutions and preset timing resolutions.

Preset	Pixel format	Horz freq (kHz)	Vert freq (Hz)	
1	640 × 480	31.469	59.940	
2	720 × 400	31.469	70.087	
3	800 × 600	37.879	60.317	
4	1024 × 768	48.363	60.004	
5	1280 × 720	45.000	60.000	
6	1280 × 1024	63.981	60.020	
7	1440 × 900	55.935	59.887	
8	1600 × 900	60.000	60.000	
9	1680 × 1050	65.290	59.954	
10	1600 × 1200	75.000	60.000	
11	1920 × 1080	67.500	60.000	
12	1920 × 1200	74.566	59.885	

Table A-5 Preset display resolutions

Preset	Pixel format	Horz freq (kHz)	Vert freq (Hz)
13	2560 × 1440	88.787	59.951
14	3840 × 2160	65.688	29.981
15	3840 × 2160	133.313	59.997

Table A-6	Preset	timing	resolutions
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Preset	Pixel format	Horz freq (kHz)	Vert freq (Hz)
1	640 × 480	31.469	59.940
2	720 × 400	31.469	70.087
3	800 × 600	37.879	60.317
4	1024 × 768	48.363	60.004
5	1280 × 720	45.000	60.000
6	1280 × 1024	63.981	60.020
7	1440 × 900	55.935	59.887
8	1600 × 900	60.000	60.000
9	1680 × 1050	65.290	59.954
10	1600 × 1200	75.000	60.000
11	1920 × 1080	67.500	60.000
12	1920 × 1200	74.566	59.885
13	2560 × 1440	88.787	59.951
14	3840 × 2160	65.688	29.981
15	3840 × 2160	133.313	59.997

High-definition video formats (QHD)

This section provides high-definition video formats.

	0			
Preset	Timing Name	Pixel format	Horz freq (kHz)	Vert freq (Hz)
1	480p	720 × 480	31.469	59.940
2	576p	720 × 576	31.250	50.000
3	720p60	1280 × 720	45.000	60.000
4	720p50	1280 × 720	37.500	50.000
5	1080p60	1920 × 1080	67.500	60.000
6	1080p100	1920 × 1080	112.500	100.000

Table A-7 High-definition video formats

Preset	Timing Name	Pixel format	Horz freq (kHz)	Vert freq (Hz)
7	1080p120	1920 × 1080	135.000	120.000

High-definition video formats (UHD)

This section provides high-definition video formats.

Preset	Pixel format	Horz freq (kHz)	Vert freq (Hz)	Pixel rate (MHz)
1	720 × 480	31.469	59.940	27.000
2	720 × 576	31.250	50.000	27.000
3	1280 × 720	37.500	50.000	74.250
4	1280 × 720	45.000	60.000	74.250
5	1920 × 1080	56.250	50.000	148.500
6	1920 × 1080	67.500	60.000	148.500
7	3840 × 2160	65.688	29.981	262.750
8	3840 × 2160	112.500	50.000	594.000
9	3840 × 2160	133.313	59.997	533.250

Table A-8 High-definition video formats

Energy saver feature

This monitor supports a reduced power state.

The reduced power state is initiated if the monitor detects the absence of either the horizontal sync signal or the vertical sync signal. Upon detecting the absence of these signals, the monitor screen is blank, the backlight is turned off, and the power light turns amber. There is a brief warm-up period before the monitor returns to its normal operating state.

See the computer manual for instructions on setting the energy saver mode (sometimes called "power management feature").

NOTE: This power saver feature works only when the monitor is connected to a computer that has energy-saver features.

B Accessibility

HP's goal is to design, produce, and market products, services, and information that everyone everywhere can use, either on a standalone basis or with appropriate third-party assistive technology (AT) devices or applications.

HP and accessibility

Because HP works to weave diversity, inclusion, and work/life into the fabric of the company, it is reflected in everything HP does. HP strives to create an inclusive environment focused on connecting people to the power of technology throughout the world.

Finding the technology tools you need

Technology can unleash your human potential. Assistive technology removes barriers and helps you create independence at home, at work, and in the community. Assistive technology helps increase, maintain, and improve the functional capabilities of electronic and information technology.

For more information, see Finding the best assistive technology on page 53.

The HP commitment

HP is committed to providing products and services that are accessible for people with disabilities. This commitment supports the company's diversity objectives and helps ensure that the benefits of technology are available to all.

The HP accessibility goal is to design, produce, and market products and services that can be effectively used by everyone, including people with disabilities, either on a standalone basis or with appropriate assistive devices.

To achieve that goal, this Accessibility Policy establishes seven key objectives to guide HP actions. All HP managers and employees are expected to support these objectives and their implementation in accordance with their roles and responsibilities:

- Raise the level of awareness of accessibility issues within HP, and provide employees with the training they need to design, produce, market, and deliver accessible products and services.
- Develop accessibility guidelines for products and services, and hold product development groups accountable for implementing these guidelines where competitively, technically, and economically feasible.
- Involve people with disabilities in the development of accessibility guidelines and in the design and testing of products and services.
- Document accessibility features, and make information about HP products and services publicly available in an accessible form.
- Establish relationships with leading assistive technology and solution providers.
- Support internal and external research and development that improves assistive technology relevant to HP products and services.

• Support and contribute to industry standards and guidelines for accessibility.

International Association of Accessibility Professionals (IAAP)

IAAP is a not-for-profit association focused on advancing the accessibility profession through networking, education, and certification. The objective is to help accessibility professionals develop and advance their careers and to better enable organizations to integrate accessibility into their products and infrastructure.

As a founding member, HP joined to participate with other organizations to advance the field of accessibility. This commitment supports HP's accessibility goal of designing, producing, and marketing products and services that people with disabilities can effectively use.

IAAP will make the profession strong by globally connecting individuals, students, and organizations to learn from one another. If you are interested in learning more, go to http://www.accessibilityassociation.org to join the online community, sign up for newsletters, and learn about membership options.

Finding the best assistive technology

Everyone, including people with disabilities or age-related limitations, should be able to communicate, express themselves, and connect with the world using technology. HP is committed to increasing accessibility awareness within HP and with our customers and partners.

Whether it's large fonts that are easy on the eyes, voice recognition that lets you give your hands a rest, or any other assistive technology to help with your specific situation—a variety of assistive technologies make HP products easier to use. How do you choose?

Assessing your needs

Technology can unleash your potential. Assistive technology removes barriers and helps you create independence at home, at work, and in the community. Assistive technology (AT) helps increase, maintain, and improve the functional capabilities of electronic and information technology.

You can choose from many AT products. Your AT assessment should allow you to evaluate several products, answer your questions, and facilitate your selection of the best solution for your situation. You will find that professionals qualified to do AT assessments come from many fields, including those licensed or certified in physical therapy, occupational therapy, speech/language pathology, and other areas of expertise. Others, while not certified or licensed, can also provide evaluation information. You will want to ask about the individual's experience, expertise, and fees to determine if they are appropriate for your needs.

Accessibility for HP products

These links provide information about accessibility features and assistive technology, if applicable and available in your country or region, that are included in various HP products. These resources will help you select the specific assistive technology features and products most appropriate for your situation.

- HP Aging & Accessibility: Go to http://www.hp.com, type http://www.hp.com"/>http://www.hp.com, type ht
- HP computers: For Windows products, go to http://www.hp.com/support, type Windows Accessibility Options in the Search our knowledge library search box. Select the appropriate operating system in the results.
- HP Shopping, peripherals for HP products: Go to http://store.hp.com, select Shop, and then select Monitors or Accessories.

If you need additional support with the accessibility features on your HP product, see <u>Contacting</u> <u>support on page 58</u>.

Additional links to external partners and suppliers that may provide additional assistance:

- <u>Microsoft Accessibility information (Windows and Microsoft Office)</u>
- Google Products accessibility information (Android, Chrome, Google Apps)

Monitor accessibility features (select products/regions only)

HP monitors enable you to find and configure display settings directly from your monitor, without needing to use an external device such as a computer, using multiple types of accessibility enhancements.

Built-in accessibility features

The following accessibility features are built into the monitor.

- Physical buttons or a Joypad that are tactilely discoverable.
- Physical button or Joypad labels that are displayed on-screen.
- On-Screen Display (OSD) menu
 - Menu items, text, and elements meet a 4.5:1 (or greater) contrast ratio.
 - Focus indication is provided.

Text to Speech (select products/regions only)

Text to Speech converts text into spoken words. You can enable text to assist you when reading text on the monitor.

If your monitor has built-in speakers, the Text to Speech feature is available on your monitor.

NOTE: The Text to Speech feature is spoken in English only.

If your monitor does not have built-in speakers, you can request the TTS accessibility device by calling HP Support at (888) 259-5707 Monday through Friday, 6 a.m. to 9 p.m. Mountain Time.

NOTE: Support is in English only.

What is Accessibility Mode?

Accessibility Mode enables you to use audio navigation and to enlarge items on the screen.

When you turn on Accessibility Mode, the following adjustments are made:

- Menu timeout setting is set to the maximum duration of 60 seconds (default is 30 seconds).
- Language is set to English, which is the only language currently supported in Accessibility Mode. When Accessibility Mode is turned off, the previous language is used.
- On FHD monitors, the OSD menu is set to a fixed position in the lower-right quadrant of the screen.
- Menu items, text, and other elements meet a 4.5:1 contrast ratio or greater.

• Text is enlarged to a 4.8 mm or larger font size.

How do you turn Accessibility Mode on or off?

Turn Accessibility Mode on or off using either physical monitor controls or an OSD menu.

• On a monitor with a Joypad, press and hold the center of the Joypad for four seconds to turn Accessibility Mode on or off.

When Accessibility Mode is turned on using a physical button, an Accessibility Mode is On message is displayed. When Accessibility Mode is turned off using a physical button, an Accessibility Mode is Off message is displayed.



- Using the OSD menu
 - To turn on Accessibility Mode, set the language to English, and then select Management > Accessibility > On.
 - To turn off Accessibility Mode, select Management > Accessibility > Off.

HP Model Name		
1	Factory Reset	Cycle Patterns
"/"	DDC/CI Support	Full Screen Black
Image	Ethernet (RJ-45 port)	Full Screen White
Color	Webcam	Full Screen Red
Split Screen	USB Hub	Full Screen Green
Input	Presence Detection	Full Screen Blue
Audio	Diagnostic Patterns	
Power	Accessibility	
Menu		
Management >	Reset	
Information	Back	Back
Current Mode: 3840 ×	2160 60Hz	Input: DisplayPort

Standards and legislation

Countries worldwide are enacting regulations to improve access to products and services for persons with disabilities. These regulations are historically applicable to telecommunications products and services, PCs and printers with certain communications and video playback features, their associated user documentation, and their customer support.

Standards

The US Access Board created Section 508 of the Federal Acquisition Regulation (FAR) standards to address access to information and communication technology (ICT) for people with physical, sensory, or cognitive disabilities.

The standards contain technical criteria specific to various types of technologies, as well as performance-based requirements which focus on functional capabilities of covered products. Specific criteria cover software applications and operating systems, web-based information and applications, computers, telecommunications products, video and multimedia, and self-contained closed products.

Mandate 376 - EN 301 549

The European Union created the EN 301 549 standard within Mandate 376 as an online toolkit for public procurement of ICT products. The standard specifies the accessibility requirements applicable to ICT products and services, with a description of the test procedures and evaluation methodology for each requirement.

Web Content Accessibility Guidelines (WCAG)

Web Content Accessibility Guidelines (WCAG) from the W3C's Web Accessibility Initiative (WAI) helps web designers and developers create sites that better meet the needs of people with disabilities or age-related limitations.

WCAG advances accessibility across the full range of web content (text, images, audio, and video) and web applications. WCAG can be precisely tested, is easy to understand and use, and allows web developers flexibility for innovation. WCAG 2.0 has also been approved as <u>ISO/IEC 40500:2012</u>.

WCAG specifically addresses barriers to accessing the web experienced by people with visual, auditory, physical, cognitive, and neurological disabilities, and by older web users with accessibility needs. WCAG 2.0 provides characteristics of accessible content:

- **Perceivable** (for instance, by addressing text alternatives for images, captions for audio, adaptability of presentation, and color contrast)
- **Operable** (by addressing keyboard access, color contrast, timing of input, seizure avoidance, and navigability)
- **Understandable** (by addressing readability, predictability, and input assistance)
- **Robust** (for instance, by addressing compatibility with assistive technologies)

Legislation and regulations

Accessibility of IT and information has become an area of increasing legislative importance.

The <u>HP policy landscape</u> website provides information about key legislation, regulations, and standards in the following locations:

- United States
- Canada
- Europe
- Australia

Useful accessibility resources and links

These organizations, institutions, and resources might be good sources of information about disabilities and age-related limitations.

NOTE: This is not an exhaustive list. These organizations are provided for informational purposes only. HP assumes no responsibility for information or contacts you encounter on the internet. Listing on this page does not imply endorsement by HP.

Organizations

These organizations are a few of the many that provide information about disabilities and age-related limitations.

- American Association of People with Disabilities (AAPD)
- The Association of Assistive Technology Act Programs (ATAP)
- Hearing Loss Association of America (HLAA)
- Information Technology Technical Assistance and Training Center (ITTATC)
- Lighthouse International
- National Association of the Deaf
- National Federation of the Blind
- Rehabilitation Engineering & Assistive Technology Society of North America (RESNA)
- Telecommunications for the Deaf and Hard of Hearing, Inc. (TDI)
- W3C Web Accessibility Initiative (WAI)

Educational institutions

Many educational institutions, including these examples, provide information about disabilities and age-related limitations.

- California State University, Northridge, Center on Disabilities (CSUN)
- University of Wisconsin Madison, Trace Center
- University of Minnesota computer accommodations program

Other disability resources

Many resources, including these examples, provide information about disabilities and age-related limitations.

- ADA (Americans with Disabilities Act) Technical Assistance Program
- ILO Global Business and Disability network
- EnableMart
- European Disability Forum
- Job Accommodation Network

• Microsoft Enable

HP links

These HP-specific links provide information that relates to disabilities and age-related limitations.

HP comfort and safety guide

HP public sector sales

Contacting support

HP offers technical support and assistance with accessibility options for customers with disabilities.

NOTE: Support is in English only.

- Customers who are deaf or hard of hearing who have questions about technical support or accessibility of HP products:
 - Use TRS/VRS/WebCapTel to call (877) 656-7058 Monday through Friday, 6 a.m. to 9 p.m. Mountain Time.
- Customers with other disabilities or age-related limitations who have questions about technical support or accessibility of HP products:
 - Call (888) 259-5707 Monday through Friday, 6 a.m. to 9 p.m. Mountain Time.

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