



# User Guide

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#### **Product Notice**

This guide describes features that are common to most models. Some features may not be available on your product. To access the latest user guide, go to <http://www.hp.com/support>. Select **Find your product**, and then follow the on-screen instructions.

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## About This Guide

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

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 **WARNING!** Text set off in this manner indicates that failure to follow directions could result in bodily harm or loss of life.

 **CAUTION:** Text set off in this manner indicates that failure to follow directions could result in damage to equipment or loss of information.

 **NOTE:** Text set off in this manner provides important supplemental information.

 **TIP:** Text set off in this manner provides helpful hints.

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This product incorporates HDMI technology.



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# 1 Getting Started

## Important safety information

A power cord is included with the monitor. If another cord is used, use only a power source and connection appropriate for this monitor. For information on the correct power cord set to use with the monitor, refer to the *Product Notices* provided in your documentation kit.

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 **WARNING!** 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.
- Disconnect power from the computer by unplugging the power cord from the AC outlet.
- If provided with a 3-pin attachment plug on the power cord, plug the cord into a grounded (earthed) 3-pin outlet. Do not disable the power cord grounding pin, for example, by attaching a 2-pin adapter. The grounding pin is an important safety feature.

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

To reduce the risk of serious injury, read the *Safety & Comfort Guide*. It describes proper workstation, setup, posture, and health and work habits for computer users, and provides important electrical and mechanical safety information. This guide is located on the web at <http://www.hp.com/ergo>.

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

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

 **WARNING!** LCD monitors that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests, or carts may fall over and cause personal injury.

Care should be taken to route all cords and cables connected to the LCD monitor so that they cannot be pulled, grabbed, or tripped over.

 **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 may cause disturbing reflections from the screen.

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# Product features and components

## Features

This product is a 62.23 cm (24.5 in) twisted nematic (TN) display with a 144 Hz refresh rate.

This product is an AMD FreeSync-qualified display, which allows you to enjoy PC gaming with smooth, responsive, tear-free performance whenever a picture changes on the screen. The external source connected to your display must have the FreeSync driver installed.

AMD FreeSync technology is designed to eliminate stuttering and tearing in games and videos by locking a display's refresh rate to the frame rate of the graphics card. Check with the manufacturer of your component or system for specific capabilities.

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 **IMPORTANT:** AMD Radeon Graphics and/or AMD A-Series APU-compliant displays with DisplayPort/HDMI Adaptive-Sync required. AMD 15.11 Crimson driver (or newer) required to support FreeSync over HDMI.

 **NOTE:** Adaptive refresh rates vary by display. More information is available at [www.amd.com/freesync](http://www.amd.com/freesync).

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To enable FreeSync on the display, press the **Menu** button on the monitor to open the on-screen display menu. Click **Color Control**, click **Viewing Modes**, click **Gaming**, and then click **FreeSync**.

The display features include the following:

- 62.23 cm (24.5 in) diagonal viewable area with 1920 × 1080 resolution, plus full-screen support for lower resolutions
- Tilt capability and easy viewing from sitting or standing position, or while moving from one side of the monitor to the other
- TN technology providing wide viewing angles with colors that maintain their integrity
- HDMI (High-Definition Multimedia Interface) video input
- DisplayPort video input
- Security cable slot
- Audio headphone/variable line-out jack
- Convenient headphones storage hook on monitor stand
- Plug and Play capability if supported by your operating system
- On-screen display (OSD) adjustments in 10 languages for easy setup and screen optimization
- My Display software for adjusting monitor settings through Windows
- HDCP (High-bandwidth Digital Content Protection) used on digital inputs
- In select regions, software and documentation optical disc provided with the monitor that includes monitor drivers and product documentation
- VESA mounting capability for attaching the display to a wall mount device or swing arm
- USB 3.0 hub with one upstream port and two downstream ports

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 **NOTE:** For safety and regulatory information, refer to the *Product Notices* provided in your documentation kit. To locate updates to the user guide for your product, go to <http://www.hp.com/support>. Select **Find your product**, and then follow the on-screen instructions.

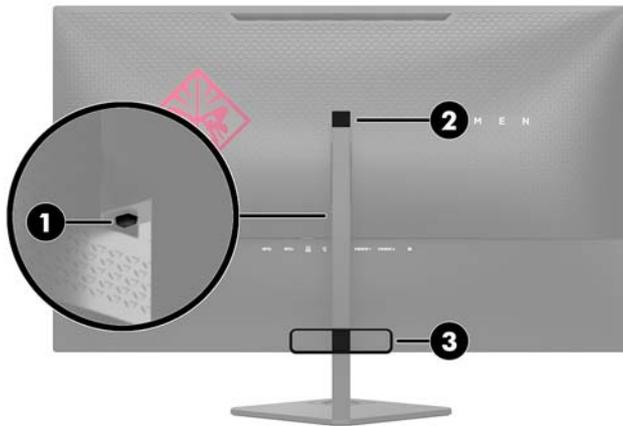
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## Side and bottom components on the rear panel



Item	Component	Function
1	Power button	When the monitor is off, press the button to turn on the monitor.
2	OK button	Press to open the OSD menu, select a menu item from the OSD, or close the OSD menu. An indicator is activated above the OK button when the OSD menu is open.
3	Function buttons	Use these buttons to navigate through the OSD menu based on the indicators above the buttons that are activated when the OSD menu is open.  <b>NOTE:</b> You can reconfigure the buttons in the OSD menu to quickly select the most commonly used operations. See <a href="#">Assigning the Function buttons on page 16</a> for more information.
4	Security cable slot	Connects a security cable from the monitor to a stationary object
5	USB 3.x (2) (downstream)	Connect optional USB devices to the monitor.
6	USB 3.x (upstream)	Connects the USB hub cable from the source device to the monitor.
7	Power connector	Connects an AC adapter.
8	HDMI ports (2)	Connect the HDMI cables from source devices to the monitor.
9	DisplayPort	Connects the DisplayPort cable from the source device to the monitor.
10	Audio headphone/variable line-out jack	Connects optional powered stereo speakers, headphones, earbuds, a headset, or a television audio cable.  <b>WARNING!</b> To reduce the risk of personal injury, adjust the volume before using headphones, earbuds, or a headset. For additional safety information, see the <i>Product Notices</i> provided on the optical disc, if one is included with your product.

## Stand components



Item	Component
1	Stand release button
2	Headphone storage hook
3	Cable management

## Setting up the monitor

### Use caution when setting up the monitor

To prevent damage to the monitor, do not touch the surface of the LCD panel. Pressure on the panel may cause non-uniformity of color or disorientation of the liquid crystals. If this occurs the screen will not recover to its normal condition.

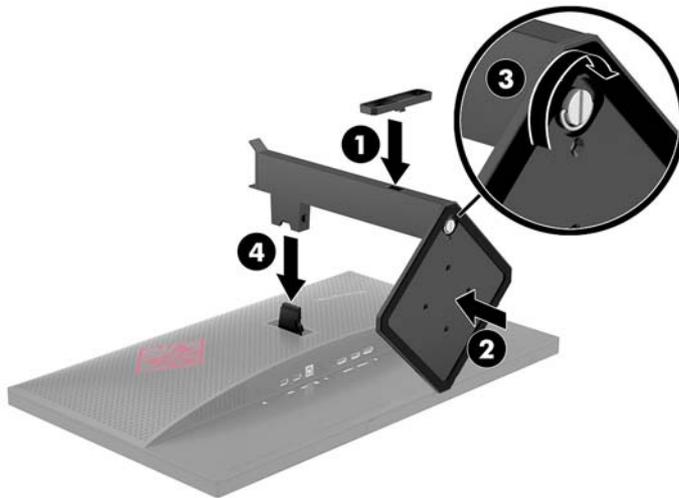
If installing a stand, lay the monitor facedown on a flat surface covered with a protective sheet foam or nonabrasive cloth. This prevents the screen from getting scratched or broken and prevents damage to the front panel.

## Attaching the monitor stand

**⚠ CAUTION:** The screen is fragile. Avoid touching or applying pressure to the screen; doing so can cause damage.

**💡 TIP:** Consider the placement of the display, because the bezel might cause interfering reflections from surrounding light and bright surfaces.

1. Lift the monitor from its box and place it facedown on a flat surface covered by a clean, dry cloth.
2. Remove the base and neck of the stand from the box.
3. Press the cable management feature (1) into place on the neck.
4. To assemble the base and neck, align the base with the neck (2), insert the thumbscrew on the base into the neck, and tighten the thumbscrew (3) securely.
5. Attach the stand to the monitor by pressing the bracket (4) at the top of the stand onto the connector on the back of the display head until the bracket clicks securely into place.



## Mounting the display head

You can remove the display head from the stand to install the display head on a wall, a swing arm, or other mounting fixture.

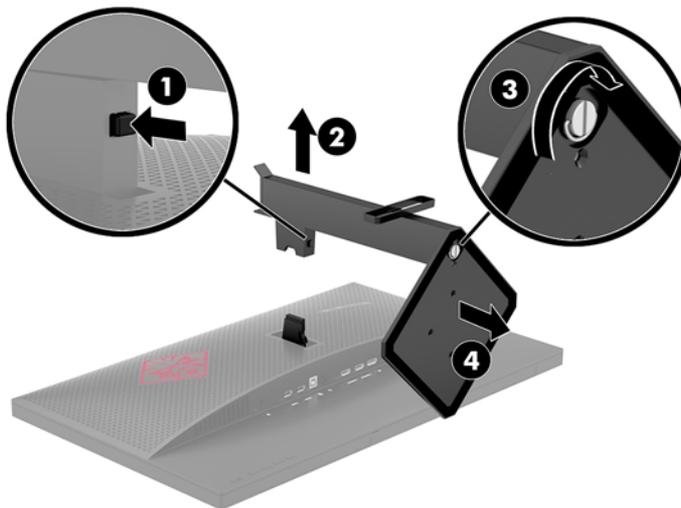
 **NOTE:** This apparatus is intended to be supported by a UL- or CSA-Listed wall mount bracket.

 **CAUTION:** This monitor supports the VESA industry-standard 100 mm mounting holes. To attach a third-party mounting solution to the display head, four 4 mm, 0.7 pitch, and 10 mm long screws are required. Longer screws must not be used because they may damage the display head. It is important to verify that the manufacturer's mounting solution is compliant with the VESA standard and is rated to support the weight of the display head. For best performance, it is important to use the power and video cables provided with the monitor.

## Removing the monitor stand

 **CAUTION:** Before beginning to disassemble the monitor, be sure the monitor is turned off and all cables are disconnected.

1. Disconnect and remove all cables from the monitor.
2. Lay the monitor facedown on a flat surface covered by a clean, dry cloth.
3. Press down on the release latch (1) and slide the stand off the connector on the display head (2).
4. Loosen the thumbscrew (3) and remove the base from the neck (4).



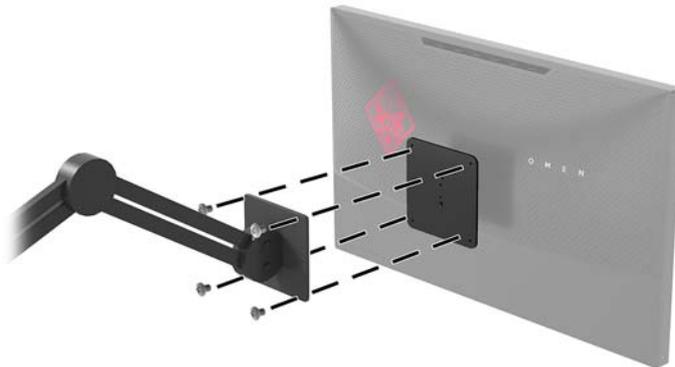
## Attaching the VESA mounting bracket

A VESA mounting bracket is included with the monitor for use when attaching the display head to a wall, swing arm, or other mounting fixture.

1. Remove the monitor stand. Refer to [Removing the monitor stand on page 6](#).
2. Press the connector on the VESA bracket onto the connector on the back of the display head until the bracket clicks into place.



3. To attach the display head to a swing arm or other mounting device, insert four mounting screws through the holes on the mounting device and into the screw holes on the VESA bracket that was installed on the rear of the display head.



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 **IMPORTANT:** Follow the mounting device manufacturer's instructions when mounting the monitor to a wall or swing arm.

**IMPORTANT:** For optimal monitor performance and screen clarity, do not rotate the monitor 90 degrees to portrait orientation.

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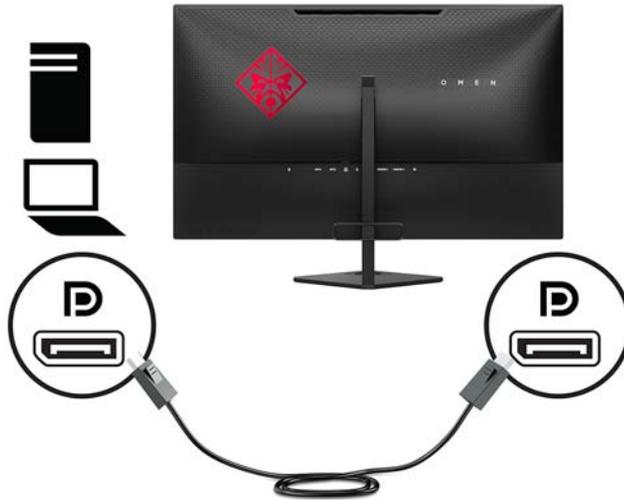
## Connecting the cables

 **NOTE:** The monitor ships with select cables. Not all cables shown in this section are included with the monitor.

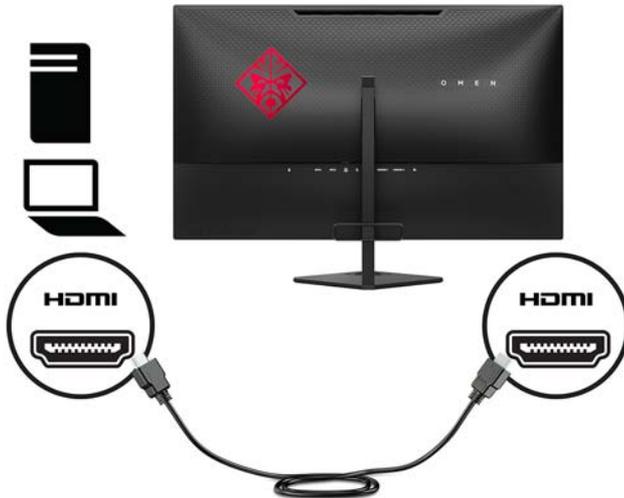
1. Place the monitor in a convenient, well-ventilated location near the computer.
2. Connect a video cable.

 **NOTE:** The monitor will automatically determine which inputs have valid video signals. The inputs can be selected through the on-screen display by pressing the **Menu** button and selecting **Input Control**.

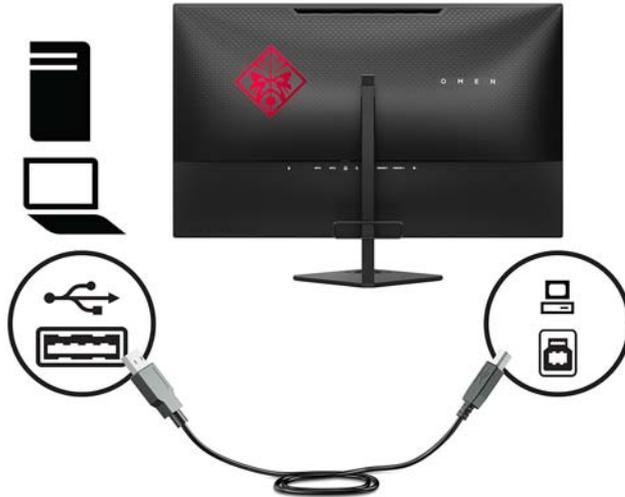
- Connect one end of a DisplayPort cable to the DisplayPort port on the rear of the monitor and the other end to a DisplayPort port on the source device.



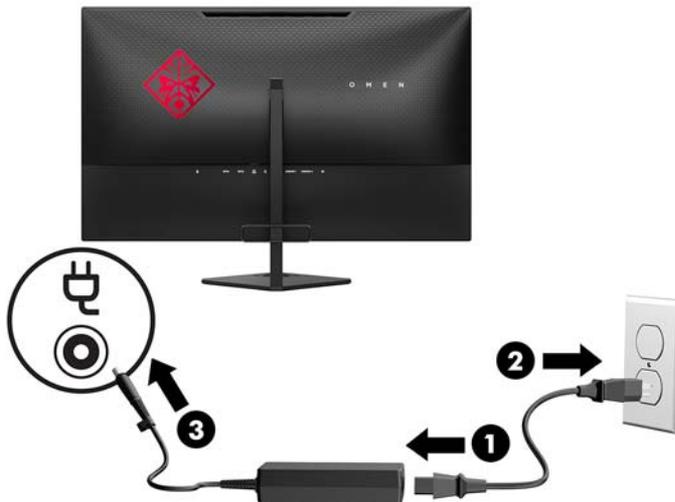
- Connect one end of an HDMI cable to the HDMI port on the rear of the monitor and the other end to an HDMI port on the source device.



3. Connect the Type-B connector of a USB upstream cable to the USB upstream port on the rear of the monitor. Then connect the cable's Type-A connector to a USB downstream port on the source device.



4. Connect one end of the power cord to the AC adapter (1) and the other end to a grounded electrical outlet (2), and then connect the AC adapter to the monitor (3).



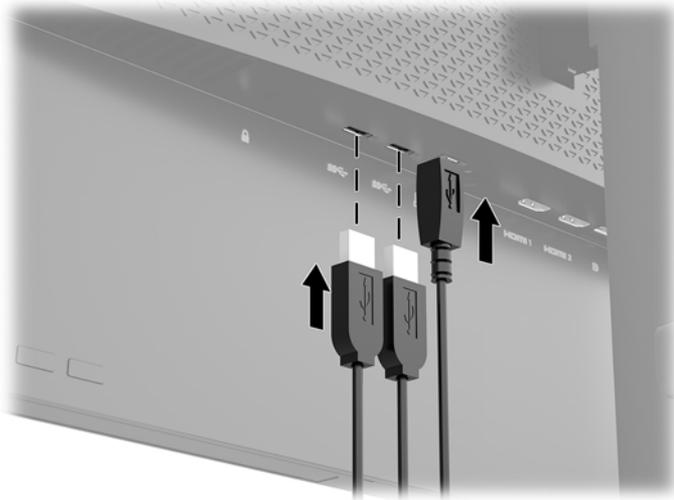
**⚠ WARNING!** To reduce the risk of electric shock or damage to the equipment:

Do not disable the power cord grounding plug. The grounding plug is an important safety feature. Plug the power cord into a grounded (earthed) electrical outlet that is easily accessible at all times. Disconnect power from the equipment by unplugging the power cord from the electrical outlet. For your safety, do not place anything on power cords or cables. Arrange them so that no one may accidentally step on or trip over them. Do not pull on a cord or cable. When unplugging from the electrical outlet, grasp the cord by the plug.

## Connecting USB devices

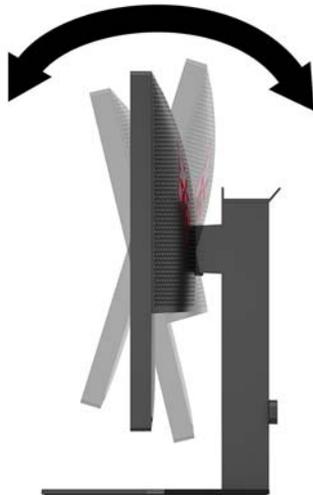
There are two USB downstream ports and one USB upstream port on the rear of the monitor.

 **NOTE:** You must connect the USB upstream cable from the source computer to the monitor to enable the USB ports on the monitor. Refer to Step 3 in [Connecting the cables on page 8](#).



## Adjusting the monitor

Tilt the monitor panel forward or backward to set it to a comfortable eye level.



## Installing a security cable

A security cable is a key lock device that has a wire cable attached. You attach one end of the cable to your desk (or other stationary object) and the other end of the cable to the security cable slot on the computer. Secure the security cable lock with the key.



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**⚠ CAUTION:** Use caution when adjusting the tilt, swivel, or height of the computer if a security cable is installed. The cable or the lock may interfere with the adjustment.

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## Turning on the monitor

1. Press the power button on the source device to turn it on.
2. Press the power button on the rear of the monitor to turn it on.



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**CAUTION:** Burn-in image damage may occur on monitors that display the same static image on screen for a prolonged period of time.\* To avoid burn-in image damage on the monitor screen, you should always activate a screen saver application or turn off the monitor when it is not in use for a prolonged period of time. Image retention is a condition that may occur on all LCD screens. Monitors with a “burned-in image” are not covered under the HP warranty.

\* A prolonged period of time is 12 or more consecutive hours.

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

**NOTE:** You can disable the power LED in the OSD menu. Press the **Menu** button on the rear of the monitor, select **Power Control**, select **Power LED**, and then select **Off**.

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When the monitor is powered on, a Monitor Status message is displayed for five seconds. The message shows which input is the current active signal, the status of the auto-switch source setting (On or Off; factory default is On), the current preset display resolution, and the recommended preset display resolution.

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

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## 2 Using the monitor

### Software and utilities

The optical disc, if one is included with the monitor, contains files that you can install on the computer. If you do not have an optical drive, you can download the files from <http://www.hp.com/support>.

- INF (Information) file
- ICM (Image Color Matching) files (one for each calibrated color space)
- My Display software

### The setup information 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 Windows 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 graphic 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.

### The Image Color Matching 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. This file is 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.

## Installing the INF and ICM files

After you determine that you need to update, use one of the following methods to install the files.

### Installing from the optical disc (available in select regions)

To install the INF and ICM files on the computer from the optical disc, if one is provided:

1. Insert the optical disc into the computer optical drive. The optical disc menu is displayed.
2. View the **HP Monitor Software Information** file.
3. Select **Install Monitor Driver Software**.
4. Follow the on-screen instructions.
5. Ensure that the proper resolution and refresh rates appear in the Windows Display control panel.

## Downloading from the web

If you do not have a computer or source device with an optical drive, you can download the latest version of INF and ICM files from the HP monitors support website.

1. Go to <http://www.hp.com/support>.
2. Select **Get software and drivers**.
3. Follow the on-screen instructions to select your monitor and download the software.

## Using My Display software

Use My Display software to choose preferences for optimum viewing. You can select settings for gaming, movies, photo editing, or just working on documents and spreadsheets. You can also easily adjust settings such as brightness, color, and contrast using My Display software.

### Downloading the software

To download the My Display software:

1. Go to <http://www.hp.com/support>.
2. Select **Get software and drivers**, and then follow the on-screen instructions to select your monitor and download the software.

### Using the software

To use the My Display software, select the **HP My Display** icon on the taskbar and refer to the software Help.

## Using the on-screen display (OSD) menu

Use the on-screen display (OSD) to adjust the screen image based on your viewing preferences. You can access and make adjustments in the OSD using the buttons on the right side of the display or the buttons on the remote control.

To access the OSD and make adjustments, do the following:

1. If the monitor is not already on, press the power button to turn on the monitor.
2. To access the OSD menu, press one of the three Function buttons to activate the buttons. Then press the **Menu** button to open the OSD.
3. Use the three Function buttons to navigate, select, and adjust the menu choices. The on-screen button labels vary depending on which menu or submenu is active.

The following table lists the menu selections in the OSD main menu.

Main Menu	Description
Brightness	Adjusts the brightness level of the screen. The factory default range is 90.
Contrast	Adjusts the contrast level of the screen. The factory default range is 80.
Color Control	Selects and adjusts the screen color.
Input Control	Selects the video input signal.
Image Control	Adjusts the screen image.

Main Menu	Description
Power Control	Adjusts the power settings.
Menu Control	Adjusts the on-screen display (OSD) controls.
Management	Adjusts the DDC/CI settings and returns all OSD menu settings to the factory default settings, selects the language.
Information	Selects and displays important information about the monitor.
Exit	Exits the OSD menu screen.

## Selecting a faster response time for gaming

You may choose to set a faster response time.

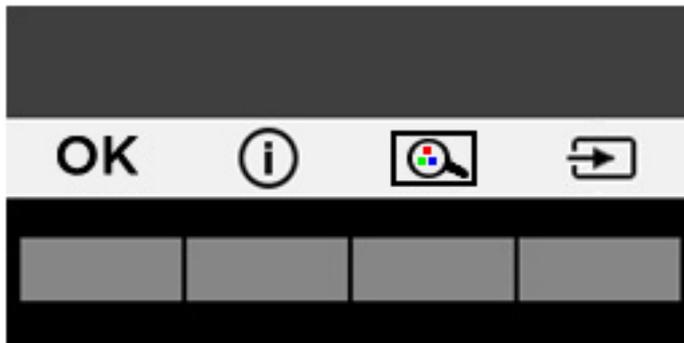
1. Press the **Menu** button to open the OSD menu.
2. Select **Image Control** and then select **Response Time**.
3. Select one of the following levels from the **Response Time** menu:
  - Level 1 (Default)
  - Level 2 (Fast)
  - Level 3
  - Level 4
  - Level 5 (Fastest)



**NOTE:** The default response time for the monitor is 7 ms. The response time can be adjusted to as little as 1 ms in the display menu. All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

## Assigning the Function buttons

Pressing one of the three front Function buttons activates the buttons and displays the icons above the buttons. The factory default button icons and functions are shown below.



Button	Function
OK	Opens the OSD (on-screen display) menu.
Information (Function button 1 - assignable)	Opens the Information menu.
Viewing Mode (Function button 2 - assignable)	Switches monitor to preset view modes.
Next Active Input (Function button 3 - assignable)	Switches to the next video input source.

You can change the Function buttons from their default values so that when the buttons are activated you can quickly access commonly used menu items.

To assign the Function buttons:

1. Press one of the three Function buttons to activate the buttons, and then press the **Menu** button to open the OSD.
2. In the OSD menu, select **Menu Control**, select **Assign Buttons**, and then select one of the available options for the button you want to assign.



**NOTE:** You can reassign only the three Function buttons. You can not reassign the **Menu** button or the power button.

## Adjusting to Low Blue Light Mode

Decreasing the blue light emitted by the display reduces the blue light exposure to your eyes. This monitor allows you to select a setting to reduce blue light output and create a more relaxing and less stimulating image while reading content on the screen.

To adjust the blue light output from the display:

1. Press the **Menu** button, select **Color Control**, and then select **Viewing Modes**.
2. Select your desired setting:
  - **Low Blue Light**: reduces blue light for improved eye comfort
  - **Reading**: optimizes blue light and brightness for indoor viewing
  - **Night**: adjusts to the lowest blue light and reduces the impact on sleep
3. Select **Save and Return** to save your setting and close the **Viewing Modes** menu. Select **Cancel** if you don't want to save the setting.
4. Select **Exit** from the Main menu.



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**NOTE:** To reduce the risk of serious injury, read the *Safety & Comfort Guide* provided with your user guides. It describes proper workstation setup, 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>.

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## Using Auto-Sleep Mode

The display supports an OSD option called **Auto-Sleep Mode** that allows you to enable or disable a reduced power state for the display. When Auto-Sleep Mode is enabled (enabled by default), the monitor will enter a reduced power state when the host PC signals low power mode (absence of either horizontal or vertical sync signal).

Upon entering this reduced power state mode, the monitor screen is blanked, the backlight is turned off, and the power LED indicator turns amber. The monitor draws less than 0.5 W of power when in this reduced power mode. The monitor will wake from the sleep mode when the host PC sends an active signal to the monitor (for example, if you activate the mouse or keyboard).

You can disable the Auto-Sleep Mode in the OSD. Press the **Menu** button on the rear to open the OSD. In the OSD, select **Power Control**, select **Auto-Sleep Mode**, and then select **Off**.

## 3 Support and troubleshooting

### Solving common problems

The following table lists possible problems, the possible cause of each problem, and the recommended solutions.

Problem	Possible Cause	Solution
Screen is blank or video is flashing.	Power cord is disconnected.	Connect the power cord.
	Power is off.	Press the rear panel power button. <b>NOTE:</b> 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. Refer to <a href="#">Connecting the cables on page 8</a> for more information.
	System is in 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 <b>Input Control</b> menu. Set <b>Auto-Switch Input</b> to <b>Off</b> and manually select the input.
Image appears blurred, indistinct, or too dark.	Brightness setting is too low.	Open the OSD menu and select <b>Brightness</b> to adjust the brightness scale as needed.
<b>Check Video Cable</b> is displayed on screen.	Monitor video cable is disconnected.	Connect the appropriate video signal cable between the computer and monitor. Be sure that the computer power is off while connecting the video cable.
<b>Input Signal Out of Range</b> is displayed on screen.	Video resolution and/or refresh rate are set higher than the monitor supports.	Change the settings to a supported setting (see <a href="#">Preset display resolutions on page 22</a> ).
The monitor is off but it did not seem to enter into a low-power sleep mode.	The monitor's power saving control is disabled.	Open the OSD menu and select <b>Power Control</b> , select <b>Auto-Sleep Mode</b> , and then set auto-sleep to <b>On</b> .
<b>OSD Lockout</b> is displayed.	The monitor's OSD Lockout function is enabled.	Press and hold the <b>Menu</b> button on the rear panel for 10 seconds to disable the OSD Lockout function.
<b>Power Button Lockout</b> is displayed.	The monitor's Power Button Lockout function is enabled.	Press and hold the power button for 10 seconds to unlock the power button function.

### Button lockouts

Holding down the power button or **Menu** button for ten seconds will lock out the functionality of the buttons. You can restore the functionality by holding the buttons down again for ten seconds. This functionality is only available when the display is powered on, displaying an active signal, and the OSD is not active.

## Product support

For additional information on using your monitor, go to <http://www.hp.com/support>. Select the appropriate support category, and then follow the on-screen instructions.



**NOTE:** The monitor user guide, reference material, and drivers are all available at this location.

Here you can:

- Chat online with an HP technician



**NOTE:** When support chat is not available in a particular language, it is available in English.

- Locate an HP service center

## Preparing to call technical support

If you cannot solve a problem using the troubleshooting tips in this section, you may need to call technical support. 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 you are using

## Locating the rating label

The rating label on the monitor provides the product number and serial number. You may need these numbers when contacting HP about the monitor model. The rating label is located on the bottom of the display head.



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## 4 Maintaining the monitor

### Maintenance guidelines

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/back plate of the monitor.
- Be sure the total ampere rating of the products connected to the outlet does not exceed the current rating of the electrical outlet, and 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 not in use. You can substantially increase the life expectancy of the monitor by using a screen saver program and turning off the monitor when not in use.



**NOTE:** Monitors with a “burned-in image” are not covered under the HP warranty.

- Slots and openings in the cabinet are provided for ventilation. These openings must not be blocked or covered. Never push objects of any kind into cabinet slots or other openings.
- 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.
- When removing the monitor stand, you must lay the monitor facedown on a soft area to prevent it from getting scratched, defaced, or broken.

### Cleaning the monitor

1. Turn off the monitor and unplug the power cord from the back of the unit.
2. Dust the monitor by wiping the screen and the cabinet with a soft, clean antistatic cloth.
3. For more difficult cleaning situations, use a 50/50 mix of water and Isopropyl alcohol.



**CAUTION:** 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 may run behind the bezel and damage the electronics.

**CAUTION:** Do not use cleaners that contain any petroleum based materials such as benzene, thinner, or any volatile substance to clean the monitor screen or cabinet. These chemicals may damage the monitor.

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### Shipping the monitor

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

# A Technical specifications



**NOTE:** All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

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

Specification	Measurement	
<b>Display, wide-screen</b>	<b>62.23 cm</b>	24.5 in
Type	TN FHD	
<b>Viewable image size</b>	<b>62.23 cm, diagonal</b>	24.5 in, diagonal
<b>Tilt</b>	-5° to 23°	
<b>Weight</b>		
Without stand	<b>3.63 kg</b>	8 lb
With stand	<b>4.6 kg</b>	10.14 lb
<b>Dimensions (including stand)</b>		
Height	<b>40.79 cm</b>	16.07 in
Depth	<b>22.75 cm</b>	8.96 in
Width	<b>56.90 cm</b>	22.42 in
<b>Maximum graphic resolution</b>	1920 × 1080	
<b>Optimum graphic resolution</b>	1920 × 1080	
<b>Pixel pitch</b>	0.2832 mm x 0.2802 mm	
<b>Pixels per inch</b>	89.915 PPI	
<b>Horizontal frequency</b>	30 kHz ~ 144 kHz	
<b>Vertical frequency</b>	42 Hz ~ 144 Hz	
<b>Response time</b>	The default response time for the monitor is 7 ms. The response time can be adjusted to as low as 1 ms in the display menu. All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.	
<b>Environmental requirements</b>		
Temperature		
Operating temperature	<b>5°C to 35°C</b>	41°F to 95°F
Storage temperature	<b>-20°C to 60°C</b>	-4°F to 140°F
Relative humidity	20% to 70%	
Altitude		
Operating	<b>0 m to 5,000 m</b>	0 ft to 16,400 ft

Specification	Measurement	
Storage	<b>0 m to 12,192 m</b>	0 ft to 40,000 ft
<b>Power source</b>	100 V ac to 240 V ac 50/60 Hz	
<b>Measured power consumption</b>		
Full power	40 W	
Typical settings	30 W	
Sleep	<0.5 W	
Off	<0.3 W	
<b>Input terminal</b>	Two HDMI connectors, one DisplayPort connector	

## Preset display resolutions

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

Preset	Pixel format	Horz freq (kHz)	Vert freq (Hz)
1	640 × 480	31.47	60
2	720 × 400	31.47	70
3	800 × 600	37.88	60
4	1024 × 768	48.36	60
5	1280 × 720	45	60
6	1280 × 800	49.70	60
7	1280 × 1024	63.98	60
	1366 × 768	48	60
8	1440 × 900	55.94	60
9	1600 × 900	60	60
10	1680 × 1050	65.29	60
11	1920 × 1080	67.50	60
13	1920 × 1080	325.10	144

Preset	Timing name	Pixel format	Horz freq (kHz)	Vert freq (Hz)
1	480p	720 × 480	31.469	60
2	576p	720 × 576	31.25	50
3	720p50	1280 × 720	37.5	50
4	720p60	1280 × 720	45	60

Preset	Timing name	Pixel format	Horz freq (kHz)	Vert freq (Hz)
5	1080p60	1920 × 1080	67.5	60
6	1080p50	1920 × 1080	56.25	50

## Entering user modes

The video controller signal may occasionally call for a mode that is not preset if:

- You are not using a standard graphics adapter.
- You are not using a preset mode.

If this occurs, you may need to readjust the parameters of the monitor screen by using the on-screen display. Your changes can be made to any or all of these modes and saved in memory. The monitor automatically stores the new setting, and then recognizes the new mode just as it does a preset mode. In addition to the factory preset modes, there are at least 10 user modes that can be entered and stored.

## Power adapter

Manufacturer	Model number	Power supply rating
Delta	TPC-DA58	19.5 V dc @ 3.33 A – 65 W

## Energy saver feature

The monitor supports a reduced power state. The reduced power state will be entered into if the monitor detects the absence of either the horizontal sync signal and/or the vertical sync signal. Upon detecting the absence of these signals, the monitor screen is blanked, the backlight is turned off, and the power light turns amber. When the monitor is in the reduced power state, the monitor will utilize <0.5 watts of power. There is a brief warm-up period before the monitor will return to its normal operating state.

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



**NOTE:** The above power saver feature only works when connected to computers that have energy saver modes.

By selecting the settings in the monitor's Sleep Timer utility, you can also program the monitor to enter into the reduced power state at a predetermined time. When the monitor's Sleep Timer utility causes the monitor to enter the reduced power state, the power light blinks amber.

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## B Accessibility

HP designs, produces, and markets products and services that can be used by everyone, including people with disabilities, either on a stand-alone basis or with appropriate assistive devices.

### Supported assistive technologies

HP products support a wide variety of operating system assistive technologies and can be configured to work with additional assistive technologies. Use the Search feature on your source device that is connected to the monitor to locate more information about assistive features.



**NOTE:** For additional information about a particular assistive technology product, contact customer support for that product.

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### Contacting support

We are constantly refining the accessibility of our products and services and welcome feedback from users. If you have an issue with a product or would like to tell us about accessibility features that have helped you, please contact us at (888) 259-5707, Monday through Friday, 6 a.m. to 9 p.m. Mountain Time. If you are deaf or hard-of-hearing and use TRS/VRS/WebCapTel, contact us if you require technical support or have accessibility questions by calling (877) 656-7058, Monday through Friday, 6 a.m. to 9 p.m. Mountain Time.