



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>, and select your country. 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, and technical specifications.





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-  **WARNING!** Indicates a hazardous situation that, if not avoided, **could** result in death or serious injury.
 -  **CAUTION:** Indicates a hazardous situation that, if not avoided, **could** result in minor or moderate injury.
 -  **NOTE:** Contains additional information to emphasize or supplement important points of the main text.
 -  **TIP:** Provides helpful hints for completing a task.
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1 Getting started

Important safety information


An AC 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 on the optical disc or in your documentation kit.

 **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.

To reduce the risk of serious injury, read the *Safety and 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.

Be sure that the total ampere rating of the products connected to the AC outlet does not exceed the current rating of the 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 AC outlet that you can easily reach. Disconnect the monitor by grasping the plug firmly and pulling it from the AC outlet. Never disconnect the monitor by pulling the cord.

Do not drop the monitor or place it on an unstable surface.

 **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.

Product features and components

Features

The monitor features include the following:

- 55 cm (21.5-inch) diagonal viewable screen area with 1920 x 1080 resolution, plus full-screen support for lower resolutions; includes custom scaling for maximum image size while preserving original aspect ratio
- Nonglare panel with an LED backlight
- Wide viewing angle to allow viewing from a sitting or standing position, or when moving from side to side
- Tilt capability
- Pivot capability to rotate the display head from landscape to portrait mode
- Height adjustment capability
- Removable stand for flexible display head mounting solutions
- VGA video input (cable provided)
- DVI video input (cable provided in select countries)
- DisplayPort video input (cable not provided)
- Plug-and-play capability if supported by your operating system
- Security cable slot provision on rear of monitor for optional security cable
- On-screen display (OSD) adjustments in several languages for easy setup and screen optimization
- HP Display Assistant software for adjusting monitor settings and enabling the theft deterrence features (refer to the *HP Display Assistant User Guide* on the optical disc included with your monitor)
- HDCP (High-Bandwidth Digital Content Protection) copy protection on all digital inputs
- Software and documentation optical disc that includes monitor drivers and product documentation
- Energy saver feature to meet requirements for reduced power consumption



NOTE: For safety and regulatory information, refer to the *Product Notices* provided on your optical disc or in your documentation kit. To locate updates to the user guide for your product, go to <http://www.hp.com/support> to download the latest versions of HP programs and drivers. In addition, register to receive automatic notifications when updates become available.

Rear components



Component		Function
1	Power connector	Connects the AC power cord to the monitor.
2	DisplayPort connector	Connects the DisplayPort cable to the monitor.
3	DVI connector	Connects the DVI cable to the monitor.
4	VGA connector	Connects the VGA cable to the monitor.

Front bezel controls



Control		Function
1	Menu button	Opens and closes the OSD menu.
2	Minus/Information button	If the OSD menu is open, press to navigate backward through the OSD menu or decrease adjustment levels. If the OSD menu is closed, press to open the information menu.
3	Plus/source button	If the OSD menu is open, press to navigate forward through the OSD menu or increase adjustment levels. If the OSD menu is closed, press to switch the monitor's input source to the next active input.
4	OK/auto button	If the OSD menu is open, press to select the highlighted menu item. If the OSD menu is closed, press to activate the auto adjustment feature to optimize the screen image.
5	Power button	Turns the monitor on or off.
6	Power LED	White = system on Off = system off Amber = sleep mode Blinking amber = sleep timer mode



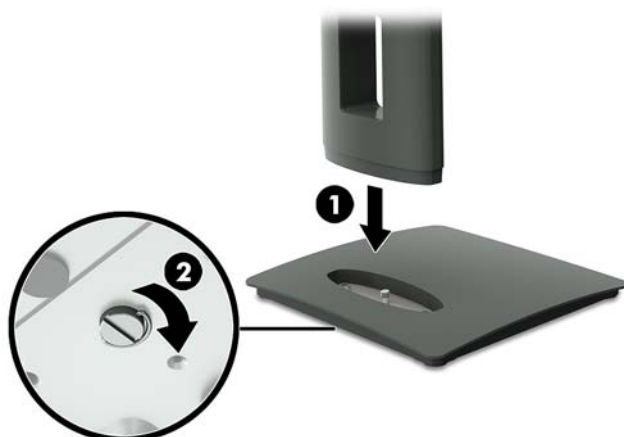
NOTE: To view an OSD menu simulator, visit the HP Customer Self Repair Services Media Library at <http://www.hp.com/go/sml>.

Setting up the monitor

Installing the monitor stand

CAUTION: 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.

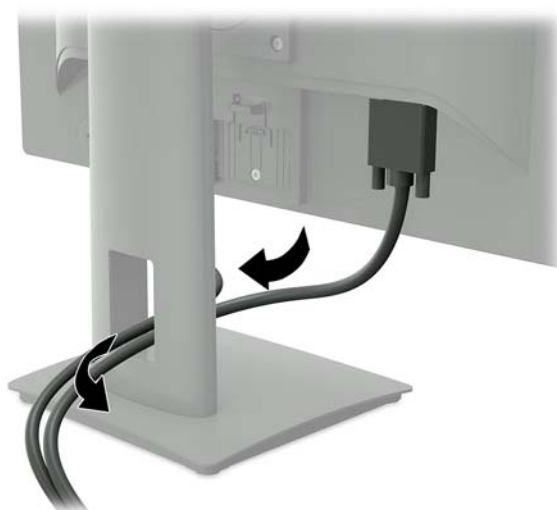
1. Insert the monitor stand into the base **(1)**.
2. Tighten the thumbscrew on the bottom of the base **(2)**.




Connecting the cables

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

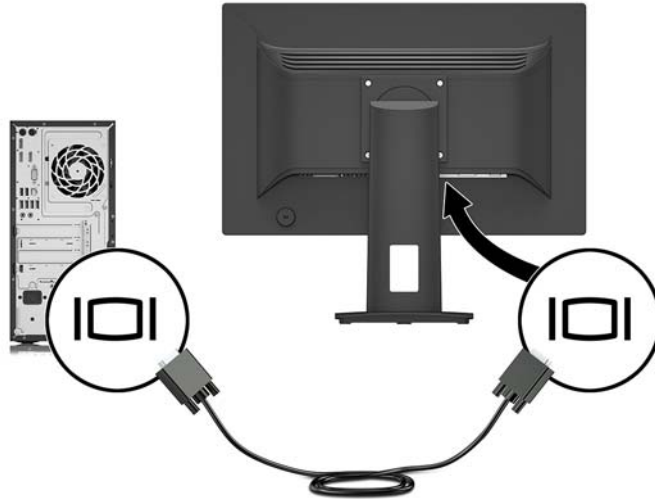
1. Place the monitor in a convenient, well-ventilated location near the computer.
2. Before connecting the cables, route the cables through the cable routing hole in the center of the stand.



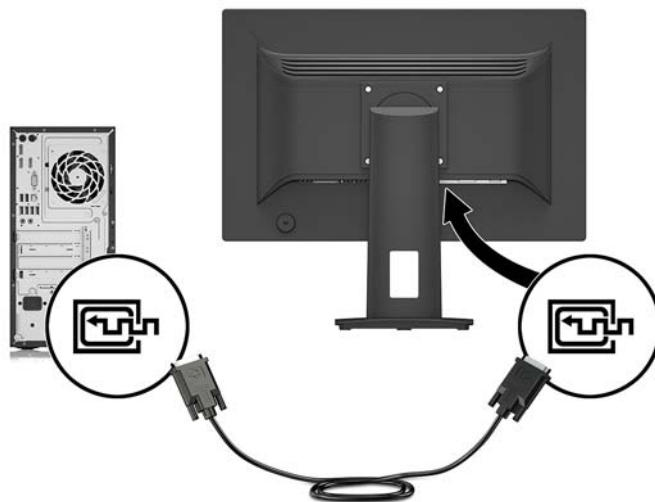
3. Connect a video cable to the video input connector.

 **NOTE:** The monitor will automatically determine which inputs have valid video signals. The inputs can be selected by pressing the Menu button to access the On-screen display (OSD) menu and selecting **Input Control**.

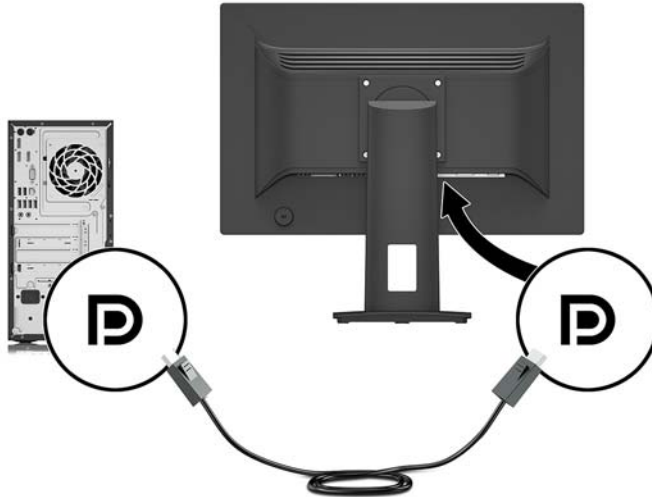
- Connect a VGA cable to the VGA connector on the rear of the monitor and the other end to the VGA connector on the source device.



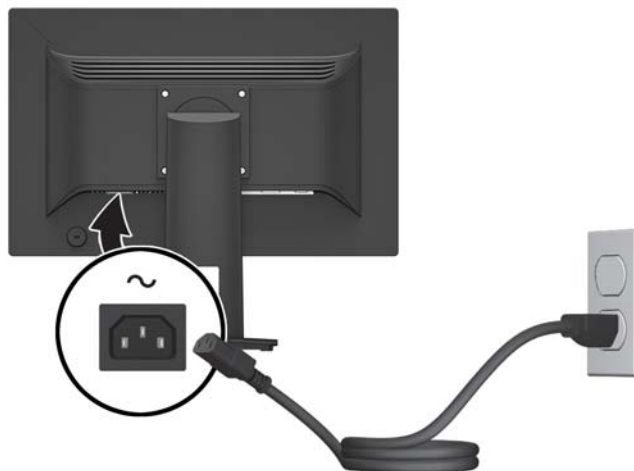
- Connect a DVI cable to the DVI connector on the rear of the monitor and the other end to the DVI connector on the source device.



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



4. Connect one end of the AC power cord to the power connector on the rear of the monitor, and the other end to an 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.

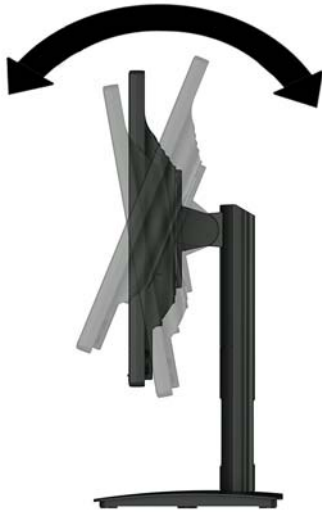
Plug the power cord into a grounded (earthed) AC outlet that is easily accessible at all times.

Disconnect power from the equipment by unplugging the power cord from the AC outlet.

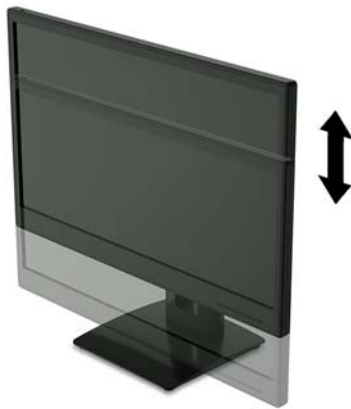
For your safety, do not place anything on power cords or cables. Arrange them so that no one may accidentally step on or trip over them. Do not pull on a cord or cable. When unplugging the power cord from the AC outlet, grasp the cord by the plug.

Adjusting the monitor

1. Tilt the display head forward or backward to set it to a comfortable eye level.

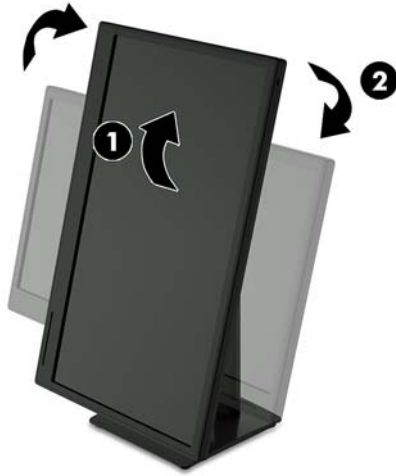


2. Adjust the monitor's height to a comfortable position for your individual workstation. The monitor's top bezel edge should not exceed a height that is parallel to your eye height. A monitor that is positioned low and reclined may be more comfortable for users with corrective lenses. The monitor should be repositioned as you adjust your working posture throughout the work day.



3. You can pivot the display head from landscape to portrait orientation viewing to adapt to your application.
 - a. Adjust the monitor to full height position and tilt the display head back to full tilt position **(1)**.
 - b. Pivot the display head clockwise 90° **(2)** from landscape to portrait orientation.

⚠ CAUTION: If the monitor is not in full-height and full-tilt position when pivoting, the bottom right corner of the display head will come in contact with the base and potentially cause damage to the monitor.



NOTE: To view information on the screen in portrait mode, you can install the HP Display Assistant software included on the software and documentation optical disc. The position of the OSD menu can also be rotated to portrait mode. To rotate the OSD menu, access the OSD menu by pressing the Menu button on the front bezel, select **OSD Control** from the menu, and then select **OSD Rotation**.

Turning on the monitor

1. Press the Power button on the computer to turn it on.
2. Press the Power button on the front of the monitor to turn it on.



CAUTION: Burn-in image damage may occur on monitors that display the same static image on the screen for 12 or more consecutive hours of nonuse. 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.



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 front of the monitor, and then select **Power Control** > **Power LED** > **Off**.

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; default setting is On), the current preset screen resolution, and the recommended preset screen resolution.

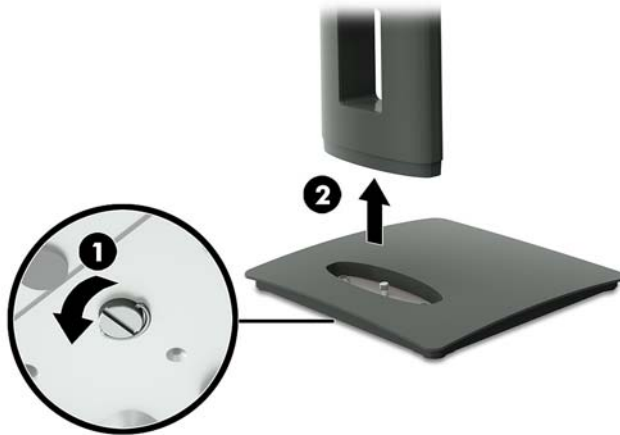
The monitor automatically scans the signal inputs for an active input and uses that input for the screen.

Removing the monitor stand

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

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

1. Disconnect and remove all cables from the monitor.
2. Lay the monitor face down on a flat surface covered by a clean, dry cloth.
3. Loosen the thumbscrew on the bottom of the base (1).
4. Remove the monitor stand from the base (2).



Mounting the display head

The display head can be attached to a wall, swing arm, or other mounting fixture.

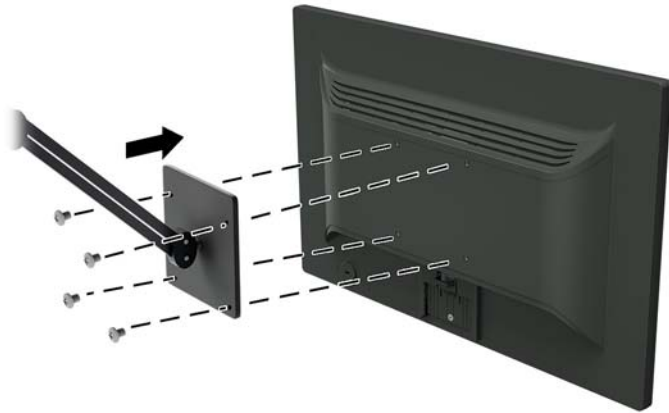
NOTE: This apparatus is intended to be supported by a UL or CSA Listed wall-mount bracket.

If the monitor is TCO certified, the power cord plugged into the display head must be a shielded power cable. The use of a shielded power cable meets the TCO Certified criteria for display products. For information on TCO requirements, go to www.tcodevelopment.com.

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.

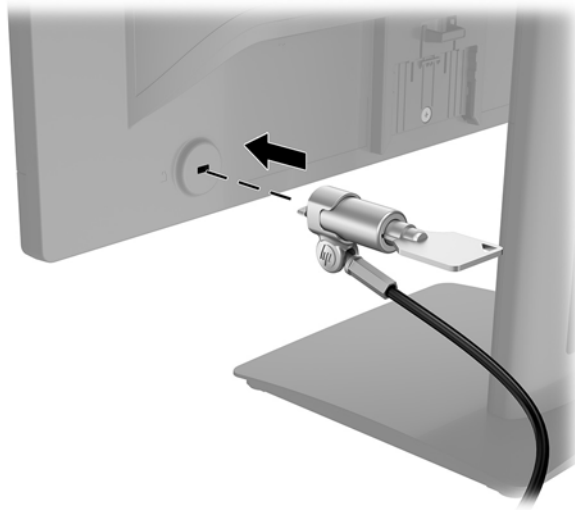
1. Remove the display head from the stand. [Removing the monitor stand on page 10](#).

2. Secure the mounting plate to the wall or swing arm of your choice using the four screws included with the mounting plate.



Installing a security cable

You can secure the monitor to a fixed object with an optional cable lock available from HP.



2 Using the monitor

Software and utilities

The optical disc that comes with the monitor contains files you can install on the computer:

- an .inf (Information) file
- icm (Image Color Matching) files (one for each calibrated color space)

The Information file

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

This monitor is Microsoft 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, you can install the .inf and .icm files from the optical disc or download them.

Installing from the optical disc

To install the .inf and .icm files on the computer from the optical disc:

1. Insert the optical disc in 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.



NOTE: You may need to install the digitally signed monitor .inf and .icm files manually from the optical disc in the event of an installation error. Refer to the HP Monitor Software Information file on the optical disc.

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 **Find your product**.
3. Follow the on-screen instructions to select your monitor and download the software.

Using the On-screen display (OSD) menu

Use the On-screen display (OSD) menu to adjust the monitor screen image based on your preferences. You can access and make adjustments in the OSD menu using the buttons on the monitor's front bezel.

To access the OSD menu 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 four front bezel Function buttons to activate the buttons, and then press the Menu button to open the OSD.
3. Use the three Function buttons to navigate, select, and adjust the menu choices. The button labels are variable depending on the menu or submenu that is active.

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

Main Menu	Description
Brightness	Adjusts the brightness level of the screen.
Contrast	Adjusts the screen contrast.
Color Control	Selects and adjusts the screen color.
Input Control	Selects the video input signal.
Image Control	Adjusts the screen image.
Power Control	Adjusts the power settings.
OSD Control	Adjusts the size, position, and appearance of the OSD menu.
Management	Enables/disables DDC/CI support and returns all OSD menu settings to the factory default settings.
Language	Selects the language in which the OSD menu is displayed. The factory default is English.
Information	Displays important information about the monitor.
Exit	Exits the OSD menu screen.

Using Auto-Sleep Mode

The monitor supports an OSD (On-screen display) menu option called **Auto-Sleep Mode** that allows you to enable or disable a reduced power state for the monitor. 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 (sleep 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 state. 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 Auto-Sleep Mode in the OSD. Press one of the four front bezel Function buttons to activate the buttons, and then press the Menu button to open the OSD. In the OSD menu select **Power Control > Auto-Sleep Mode > 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.
	Monitor is off.	Press the front bezel 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. See Connecting the cables on page 5 for more information.
	System is in sleep mode.	Press any key on the keyboard or move the mouse to exit sleep mode.
Image appears blurred, indistinct, or too dark.	Video card is incompatible.	Open the OSD menu and select the Input Control menu. Set Auto-Switch Input to Off and manually select the input.
	Brightness is too low.	Open the OSD menu and select Brightness to adjust the brightness scale as needed.
Check Video Cable is displayed on screen.	Monitor video cable is disconnected.	Connect the appropriate video cable between the computer and monitor. Be sure that the computer power is off while you connect the video cable.
Input Signal Out of Range is displayed on screen.	Video resolution and/or refresh rate are set higher than what the monitor supports.	Change the settings to a supported setting. See Preset display resolutions on page 21 for more information.
The monitor is off but it did not seem to enter into sleep mode.	The monitor's power saving control is disabled.	Open the OSD menu and select Power Control > Auto-Sleep Mode and set auto-sleep to On .
OSD Lockout is displayed.	The monitor's OSD Lockout function is enabled.	Press and hold the Menu button on the front bezel for 10 seconds to disable the OSD Lockout function.
Power Button Lockout is displayed.	The monitor's Power Button Lockout function is enabled.	Press and hold the Power button for 10 seconds to disable the Power Button Lockout function.

Using the auto-adjustment function (analog input)

When you first set up the monitor, conduct a Factory Reset of the computer, or change the resolution of the monitor, the Auto-Adjustment feature automatically engages, and attempts to optimize your screen for you.

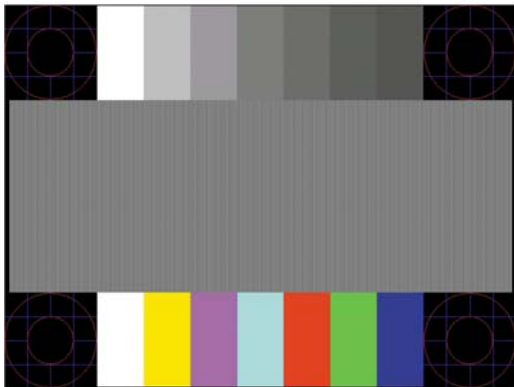
You may also optimize the screen performance for the VGA (analog) input at any time by using the auto button on the monitor (see your model's user guide for the specific button name) and the auto-adjustment pattern software utility on the optical disc provided (select models only).

Do not use this procedure if the monitor is using an input other than VGA. If the monitor is using a VGA (analog) input, this procedure can correct the following image quality conditions:

- Fuzzy or unclear focus
- Ghosting, streaking or shadowing effects
- Faint vertical bars
- Thin, horizontal scrolling lines
- An off-center picture

To use the auto-adjustment feature:

1. Allow the monitor to warm up for 20 minutes before adjusting.
2. Press the auto button on the monitor front bezel.
 - You can also press the Menu button, and then select **Image Control > Auto-Adjustment** from the OSD menu.
 - If the result is not satisfactory, continue with the procedure.
3. Insert the optical disc into the optical drive. The optical disc menu is displayed.
4. Select **Open Auto-Adjustment Utility**. The setup test pattern is displayed.
5. Press the auto button on the monitor front bezel to produce a stable, centered image.
6. Press the **ESC** key or any other key on the keyboard to exit the test pattern.



NOTE: The auto-adjustment test pattern utility can be downloaded from <http://www.hp.com/support>.

Optimizing image performance (analog input)

Two controls in the on-screen display can be adjusted to improve image performance: Clock and Phase (available in the OSD menu).



NOTE: The Clock and Phase controls are adjustable only when using an analog (VGA) input. These controls are not adjustable for digital inputs.

The Clock must first be set correctly since the Phase settings are dependent on the main Clock setting. Use these controls only when the auto-adjustment function does not provide a satisfactory image.

- **Clock**—Increases/decreases the value to minimize any vertical bars or stripes visible on the screen background.
- **Phase**—Increases/decreases the value to minimize video flickering or blurring.



NOTE: When using the controls, you will obtain the best results by using the auto-adjustment pattern software utility provided on the optical disc.

When adjusting the Clock and Phase values, if the monitor images become distorted, continue adjusting the values until the distortion disappears. To restore the factory settings, select **Yes** from the **Factory Reset** menu in the on-screen display.

To eliminate vertical bars (Clock):

1. Press the Menu button on the monitor front bezel to open the OSD menu, and then select **Image Control > Clock and Phase**.
2. Use the Function buttons on the monitor front bezel that display up and down arrow icons to eliminate vertical bars. Press the buttons slowly so that you do not miss the optimum adjustment point.



3. After adjusting the Clock, if blurring, flickering, or bars appear on the screen, proceed to adjust the Phase.

To remove flickering or blurring (Phase):

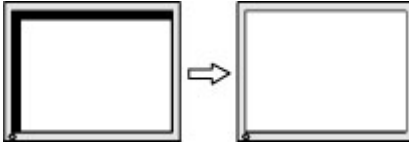
1. Press the Menu button on the monitor front bezel to open the OSD menu, and then select **Image Control > Clock and Phase**.
2. Press the Function buttons on the monitor front bezel that display up and down arrow icons to eliminate flickering or blurring. Flickering or blurring may not be eliminated, depending on the computer or graphics controller card installed.



To correct screen position (Horizontal Position or Vertical Position):

1. Press the Menu button on the monitor's front bezel to open the OSD menu, and then select **Image Position**.

2. Press the Function buttons on the monitor front bezel that display up and down arrow icons to properly adjust the position of the image in the display area of the monitor. The Horizontal Position shifts the image left or right; the Vertical Position shifts the image up and down.



Button lockouts

Holding down the Power button or Menu button for ten seconds will lock out the functionality of that button. You can restore the functionality by holding the button down again for ten seconds. This functionality is only available when the monitor 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 from the **Search all support** list, and then enter your model in the search window and click the search button.

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 serial number and product number

The serial number and product number are located on a label on the rear of the display head. You may need these numbers when contacting HP about the monitor model.



NOTE: You may need to partially pivot the display head to read the label.



4 Maintaining the monitor

Maintenance guidelines

- 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.
- 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.
- 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 disconnect power from the computer by unplugging the power cord from the AC outlet.
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.

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: The product specifications provided in the user guide might have changed between the time of manufacturing and delivery of your product.

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

55 cm/21.5-inch

Display	55 cm wide screen	21.5-inch wide screen
Type	TFT-LCD	
Viewable Image Size	55 cm diagonal	21.5-inch diagonal
Maximum Weight (Unpacked)	4.3 kg	9.49 lbs
Dimensions (include base)		
Height (highest position)	44.64 cm	17.58 inches
Height (lowest position)	34.64 cm	13.64 inches
Depth	19.29 cm	7.60 inches
Width	50.76 cm	19.98 inches
Maximum Graphic Resolution	1920 x 1080	
Optimum Graphic Resolution	1920 x 1080	
Environmental Requirements Temperature		
Operating Temperature	5 to 35° C	41 to 95° F
Storage Temperature	-20 to 60° C	-4 to 140° F
Power Source	100–240 VAC 50/60 Hz	
Input Terminal	One VGA connector with cable included; one DVI connector with cable included in select countries; one DisplayPort connector with cable not included	

Preset display resolutions

The display resolutions listed below 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.

55 cm/21.5-inch

Preset	Pixel Format	Horz Freq (kHz)	Vert Freq (Hz)
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1	640 × 480	31.469	59.940
2	720 × 400	70.087	31.469
3	800 × 600	37.879	60.317
4	1024 × 768	48.363	60.004
5	1280 × 720	45.000	60.000
6	1280 × 800	49.702	59.810
7	1280 × 1024	63.981	60.020
8	1440 × 900	55.935	59.887
9	1600 × 900	60.000	60.000
10	1680 × 1050	65.290	59.954
11	1920 × 1080	67.500	60.000

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.

Energy saver feature

The monitors support a reduced power state. The reduced power state will be entered into 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 blanked, the backlight is turned off, and the power light is turned 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 mode.

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



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

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

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.

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.