

HP LP2275w and LP2475w LCD Monitors

User Guide



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About This Guide

This guide provides information on setting up the monitor, installing drivers, using the on-screen display menu, troubleshooting and technical specifications.




-  **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.
-

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1 Product Features

HP LP2275w Model

The LCD (liquid crystal display) monitor has an active matrix, thin-film transistor (TFT). The monitor features include:

- Large 55.88 cm (22-inch) diagonal viewable area display with 1680 × 1050 resolution, plus full-screen support for lower resolutions
- Wide viewing angle to allow viewing from a sitting or standing position, or moving side-to-side
- Pivot capability to rotate display to portrait mode
- Tilt, swivel, and height adjustment capabilities
- Removable stand for flexible mounting solutions with HP Quick Release and VESA 100 mm mounting holes
- Video inputs support DisplayPort and DVI (analog and digital) signal inputs
- One DVI to VGA signal cable and one DVI to DVI-D signal cable included
- One DisplayPort signal cable included
- USB 2.0 hub with one upstream (connects to the computer) and four downstream (connects to USB devices) ports
- USB cable included to connect the monitor's USB hub to the USB connector on the computer
- Accessory rail on monitor to accept optional mounted devices, such as an HP speaker bar
- Plug and play capability if supported by the system
- Privacy filter slots to insert filters (purchased separately) to block side screen viewing
- Security slot provision on rear of monitor for optional cable lock
- Cable management feature for placement of cables and cords
- On-Screen Display (OSD) adjustments in several languages for ease of setup and screen optimization
- Software and documentation CD that includes HP Display Assistant, Pivot Pro software, monitor driver software, and product documentation
- Energy saver feature to meet requirements for reduced power consumption

- AssetControl
- Compliant with the following regulated specifications:
 - European Union CE Directives
 - Swedish MPR II 1990

HP LP2475w Model

The LCD (liquid crystal display) monitor has an active matrix, thin-film transistor (TFT). The monitor features include:

- Large 60.96 cm (24-inch) diagonal viewable area display with 1920 × 1200 resolution, plus full-screen support for lower resolutions
- Wide viewing angle to allow viewing from a sitting or standing position, or moving side-to-side
- Picture-In-Picture (PIP) and Picture-Outside-Picture (POP) capability for viewing two video input signals at the same time
- Pivot capability to rotate display to portrait mode
- Tilt, swivel, and height adjustment capabilities
- Removable stand for flexible mounting solutions with HP Quick Release and VESA 100 mm mounting holes
- Video inputs support DisplayPort, HDMI, DVI (analog and digital), Composite, Component, and S-Video signal inputs
- One DVI to VGA signal cable and one DVI to DVI-D signal cable included
- One DisplayPort signal cable included
- One HDMI signal cable included
- USB 2.0 hub with one upstream (connects to the computer) and six downstream (connects to USB devices) ports
- USB cable included to connect the monitor's USB hub to the USB connector on the computer
- Accessory rail on monitor to accept optional mounted devices, such as an HP speaker bar
- Plug and play capability if supported by the system
- Privacy filter slots to insert filters (purchased separately) to block side screen viewing
- Security slot provision on rear of monitor for optional cable lock
- Cable management feature for placement of cables and cords
- On-Screen Display (OSD) adjustments in several languages for ease of setup and screen optimization

- Software and documentation CD that includes HP Display Assistant, Pivot Pro software, monitor driver software, and product documentation
- Energy saver feature to meet requirements for reduced power consumption
- AssetControl
- Compliant with the following regulated specifications:
 - European Union CE Directives
 - Swedish MPR II 1990
 - Swedish TCO Requirements
 - Energy Star

2 Safety and Maintenance Guidelines

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 [Power Cord Set Requirements on page 46](#) in Appendix C.

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

- Do not disable the power cord grounding feature. The grounding plug is an important safety feature.
- Plug the power cord in a grounded (earthed) outlet that is easily accessible at all times.
- Disconnect power from the product 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.

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> and/or on the documentation CD, if one is included with the monitor.

⚠ **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 can not be pulled, grabbed, or tripped over.

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.
- 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 base, you must lay the monitor face down on a soft area to prevent it from getting scratched, defaced, or broken.

Cleaning the Monitor

1. Turn off the monitor and the computer.
2. Unplug the monitor from the wall outlet.
3. Clean the monitor plastics with a clean cloth dampened with water.
4. Clean the monitor screen with an antistatic screen cleaner.


△ **CAUTION:** Do not use benzene, thinner, ammonia, or any other volatile substances to clean the monitor or the screen. These chemicals may damage the cabinet finish as well as the screen.

Shipping the Monitor


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

3 Setting Up the Monitor


To set up the monitor, ensure that the power is turned off to the monitor, computer system, and other attached devices, then follow the instructions below.

 **NOTE:** Be sure the master power switch, located on the rear panel of the monitor, is in the off position. The master power switch turns off all power to the monitor.

Installing the Monitor Pedestal Base

 **NOTE:** Do not install the pedestal base if the monitor will be used on a wall, swing arm, or other mounting fixture; instead see the section on [Mounting the Monitor on page 17](#) in this chapter.


1. Using both hands, position the monitor over the pedestal base.

 **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.

2. Press down firmly on the monitor to lock the pedestal base in place. When the base locks, it will make a clicking sound.

Figure 3-1 Inserting the Monitor into the Pedestal Base



 **NOTE:** Be sure the pedestal base is securely locked before continuing with the setup.

Rear Components

Monitor rear components vary by model.

HP LP2275w Model

Figure 3-2 Rear Components



Table 3-1 HP LP2275w Rear Components

Component	Function
1 Cable Lock Provision	Provides slot for use with cable security locks.
2 Master Power Switch	Turns off all power to the monitor.
3 AC Power Connector	Connects the AC power cord to the monitor.
4 DisplayPort Connector	Connects the DisplayPort signal cable to the monitor.
5 DVI-I Connector	Connects the DVI to VGA signal cable or DVI to DVI-D signal cable to the monitor.
6 USB Upstream Connector	Connects the monitor USB hub cable to a host USB port/hub.
7 USB Downstream Connectors	Connects optional USB devices to the monitor.
8 USB Downstream Connectors (side panel)	Connects optional USB devices to the monitor.

HP LP2475w Model

Figure 3-3 Rear Components



Table 3-2 HP LP2475w Rear Components

Component	Function
1 Cable Lock Provision	Provides slot for use with cable security locks.
2 Master Power Switch	Turns off all power to the monitor.
3 AC Power Connector	Connects the AC power cord to the monitor.
4 DisplayPort Connector	Connects the DisplayPort signal cable to the monitor.
5 HDMI Connector	Connects the HDMI signal cable to the monitor.
6 DVI-I Connectors	Connects the DVI to VGA signal cable or DVI to DVI-D signal cable to the monitor.
7 SPDIF Audio Connector	Connects an audio cable from a digital audio input on an external receiver or amplifier to the monitor.
8 S-Video Connector	Connects an S-Video signal cable to the monitor.
9 Composite Connector	Connects a Composite signal cable to the monitor.
10 Component Connectors	Connects Component signal cables to the monitor.
11 USB Upstream Connector	Connects the monitor USB hub cable to a host USB port/hub.
12 USB Downstream Connectors	Connects optional USB devices to the monitor.
13 USB Downstream Connectors (side panel)	Connects optional USB devices to the monitor.

Selecting and Connecting the Signal Cables

The monitor signal inputs vary by model. The following table indicates which input video signal is supported on each monitor model.

 **NOTE:** Refer to [Rear Components on page 7](#) for signal input connector locations.

The monitor will automatically determine which inputs have valid video signals. The inputs can be selected through the On-Screen Display (OSD) feature by pressing the **Input** button (HP LP2275w Model) or the **Quick Select** button (HP LP2475w Model) on the front panel.

Table 3-3 Signal Connectors and Cables


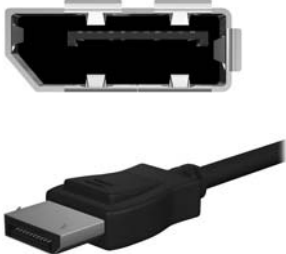
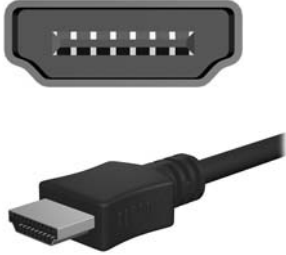

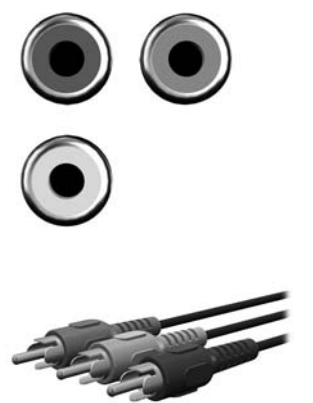

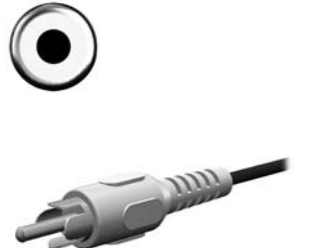
Input	Monitor Connector and Cable Plug	Connection Description
DVI-I (HP LP2275w) (HP LP2475w)		<p>The video mode supported by the DVI-I connector is determined by the video cable used.</p> <ul style="list-style-type: none"> For digital operation, use the DVI to DVI-D signal cable provided. Connect the DVI to DVI-D signal cable to the DVI-I connector on the monitor and the other end to the DVI-D connector on the computer. For analog operation, use the DVI to VGA signal cable provided. Connect the DVI to VGA signal cable to a DVI-I connector on the monitor and the other end to the VGA connector on the computer.
DisplayPort (HP LP2275w) (HP LP2475w)		<p>Connect the DisplayPort cable provided to the DisplayPort connector on the monitor and the DisplayPort connector on the computer for digital operation.</p> <p>NOTE: The DisplayPort cable locks in place when it is connected. To remove a DisplayPort cable, press the button on top of the cable end and pull the cable end from the connector.</p>
HDMI (HP LP2475w)		<p>Connect the HDMI cable provided to the HDMI connector on the monitor and the HDMI connector on the input device for digital operation.</p> <p>NOTE: For audio output from the HDMI signal, connect an audio cable between the SPDIF audio output on the monitor and a digital audio input on an external receiver or amplifier.</p>
SPDIF (HP LP2475w)		<p>Connect an SPDIF audio cable to the monitor and to an external receiver or amplifier for digital audio when using HDMI video input. Cable purchased separately.</p> <p>NOTE: The SPDIF connector is only used with an HDMI video input. It does not provide audio for other video inputs.</p>

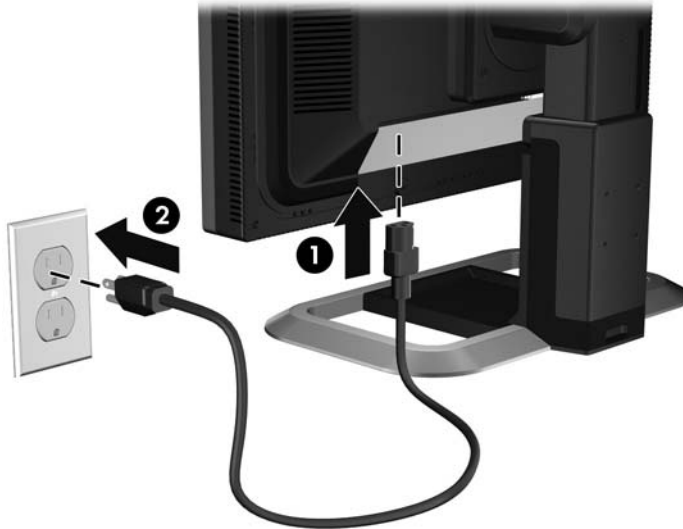
Table 3-3 Signal Connectors and Cables (continued)

Input	Monitor Connector and Cable Plug	Connection Description
Component (Y Pb Pr) (HP LP2475w)		Connect a set of Component cables to the Component connectors on the monitor and the Component connectors on the input device for analog operation. Cable purchased separately.
S-Video (HP LP2475w)		Connect an S-Video cable to the S-Video connector on the monitor and the S-Video connector on the input device for analog operation. Cable purchased separately.
Composite (HP LP2475w)		Connect a Composite cable to the Composite connector on the monitor and the Composite connector on the input device for analog operation. Cable purchased separately.

Connecting the Monitor Power

1. Place the monitor in a convenient, well-ventilated location near the computer.
2. Connect one end of the power cable to the AC power connector on the back of the monitor (1), and the other end to an electrical wall outlet (2).

Figure 3-4 Connecting the Power Cable



⚠ **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

The monitor provides USB connectors on the side panel and on the rear panel that can be used to connect devices such as a digital camera, USB keyboard, or USB mouse.

1. Connect one end of the USB hub cable to the USB connector on the rear panel of the computer, and the other end to the upstream USB connector on the monitor.
2. Connect the USB devices to the USB downstream connectors on the rear or side panel of the monitor.

Figure 3-5 Connecting USB Devices



Cable Management

Place the cables through the cable management channel on the back of the monitor base.

Figure 3-6 Using the Cable Management Feature



Adjusting the Monitor

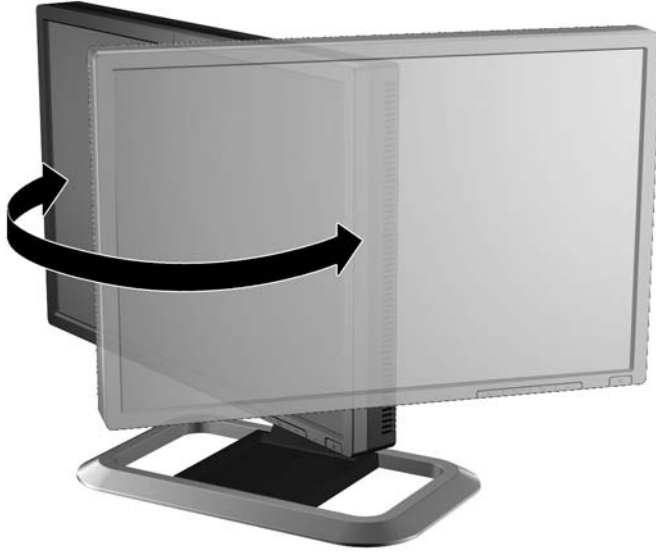
1. Tilt the monitor's panel forward or backward to set it to a comfortable eye level.

Figure 3-7 Tilting the Monitor



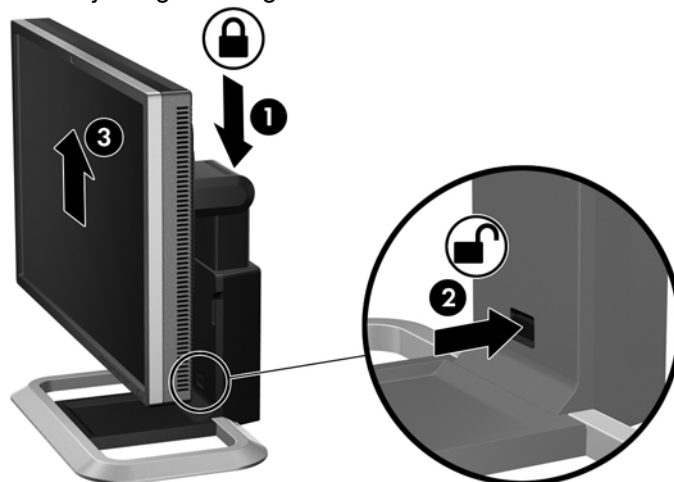
2. Swivel the monitor to the left or right for the best viewing angle.

Figure 3-8 Swiveling the Monitor



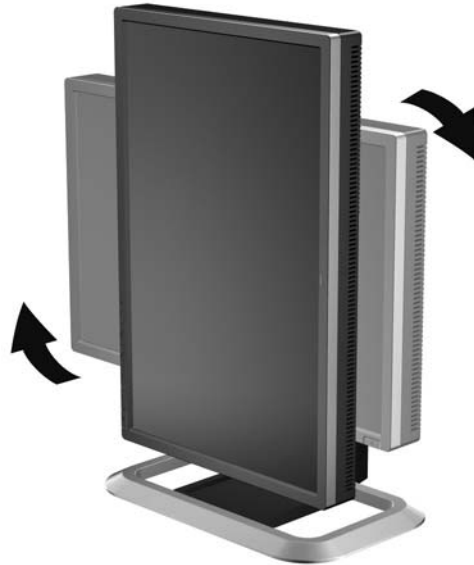
3. Adjust the monitor's height so that it is parallel to your eye height for a comfortable viewing position. A lock-down/release button on the front of the column prevents the display head from sliding up when the monitor is lifted. If the display head is locked in the lowest height position:
 - a. Make sure that the monitor is safely positioned on a stable surface.
 - b. Gently push down on the display head (1).
 - c. While pushing down the display head, press the lock-down/release button on the front of the column (2).
 - d. Guide the display head up to the desired height (3).


Figure 3-9 Adjusting the Height



4. Pivot the monitor clockwise from landscape to portrait orientation viewing to adapt to your application.


Figure 3-10 Pivoting the Monitor




 **NOTE:** To view information on the screen in portrait mode, you will need to install the Pivot Pro software included on the software and documentation CD. The position of the OSD menu can also be rotated to portrait mode. To rotate the OSD menu, press the Menu button on the monitor's front panel, then select **OSD Control > OSD Rotation**.

Turning on the Monitor

1. Press the power switch to turn on the computer.
2. Verify the master power switch on the rear of the monitor is in the on (I) position.
3. Press the power button on the front of the monitor.

 **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.

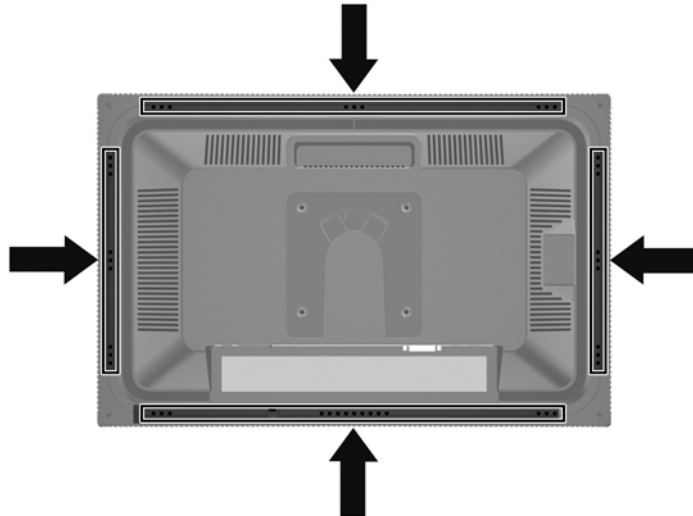
* A prolonged period of time is 12 consecutive hours of non-use.

 **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.

Using the Accessory Rails

The monitor features accessory rails on the rear that may be used to mount optional devices, such as the HP speaker bar, to the LCD monitor. Refer to the documentation included with the optional device for detailed mounting instructions.

Figure 3-11 Using the Accessory Rails Feature



Removing the Monitor Pedestal Base

You can remove the monitor panel from the pedestal base to mount the panel on a wall, a swing arm, or other mounting fixture.

This monitor has a Quick Release mechanism that allows you to easily remove and replace the monitor panel to the pedestal base.

△ **CAUTION:** Before beginning to disassemble the monitor, be sure the monitor is turned off and the power and signal cables are both disconnected. Also disconnect any USB cables that are connected to the monitor.

1. Disconnect and remove the signal and power cables from the back of the monitor.
2. Slide the quick release latch (1) on the pedestal base to the side (either right or left).

3. Pull up on the monitor display head (2) to remove it from the base.

Figure 3-12 Removing the Monitor from the Pedestal Base



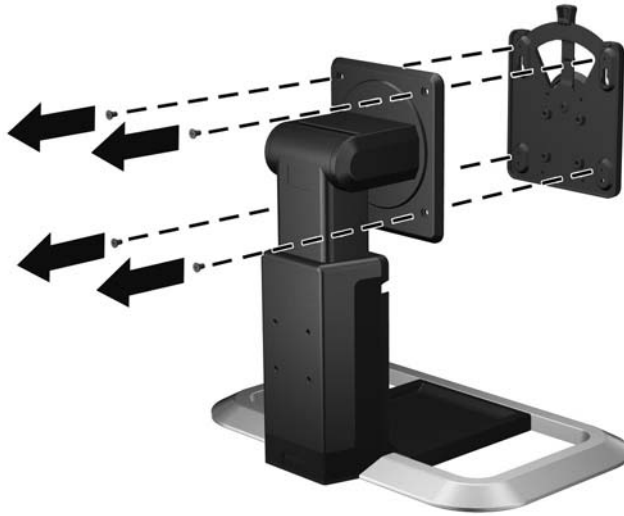
Mounting the Monitor

The HP Quick Release can be removed from the pedestal base and installed to a mounting fixture. It allows you to quickly and securely attach the monitor panel to the mounting fixture.

1. Remove the monitor panel from the pedestal base. Refer to [Removing the Monitor Pedestal Base on page 16](#) in the previous section.
- △ **CAUTION:** This monitor supports the VESA industry standard 100 mm mounting holes. To attach a third-party mounting solution to the monitor, four 4 mm, 0.7 pitch, and 10 mm long screws are required (not provided with the monitor). Longer screws should not be used because they may damage the monitor. 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 monitor display panel. For best performance, it is important to use the power and video cables provided with the monitor.

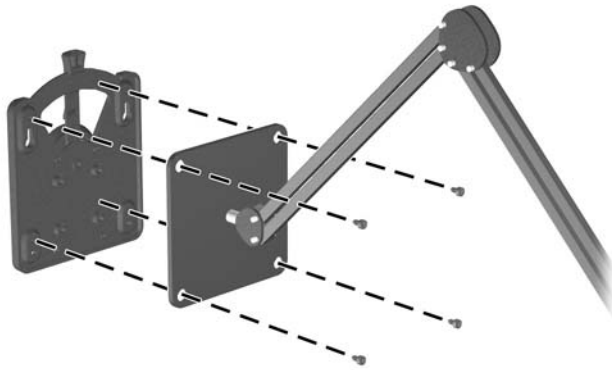
2. Remove the Quick Release from the pedestal base by removing the four screws.

Figure 3-13 Removing the HP Quick Release from the Pedestal Base



3. Mount the Quick Release to a swing arm or other mounting fixture using the four screws removed from the Quick Release in the previous step.

Figure 3-14 Installing the Quick Release



△ **CAUTION:** The Quick Release can also be installed directly to a wall to mount the monitor panel. It is designed to support a maximum of up to 10.9 kg (24 lbs). If you are mounting to a wall, HP recommends that you consult with a qualified engineering, architectural, or construction professional to determine the appropriate type and quantity of mounting fasteners required for your application and to ensure that the mounting solution is properly installed to support applied loads.

4. Insert the monitor panel into the Quick Release, and then press down firmly on the monitor to lock it in place. When the Quick Release locks, it will make a clicking sound.

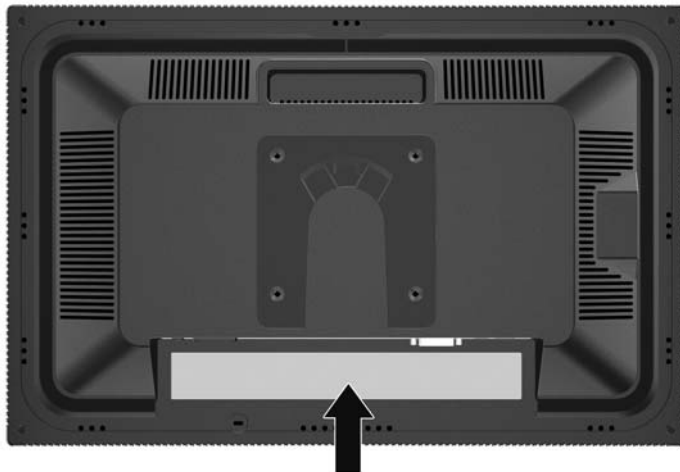
Figure 3-15 Inserting the Monitor Panel into the Quick Release



Locating the Rating Labels

The rating labels on the monitor provide the spare part number, product number, and serial number. You may need these numbers when contacting HP about the monitor model. The rating labels are located on the rear panel of the monitor display head.

Figure 3-16 Locating the Rating Labels




4 Operating the Monitor

Software and Utilities

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

- an .INF (Information) file
- an .ICM (Image Color Matching) file
- auto-adjustment pattern utility
- additional software for the monitor model

PDF Complete is supplied on this CD and can be installed from the menu.

 **NOTE:** If the monitor does not include a CD, the .INF and .ICM files can be downloaded from the HP monitors support Web site. See [Downloading from the Worldwide Web on page 21](#) in this chapter.


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. The .ICM file contains a monitor color system profile. 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 CD or download them.

Installing from the CD

To install the .INF and .ICM files on the computer from the CD:

1. Insert the CD in the computer CD-ROM drive. The CD menu is displayed.
2. View the **Monitor Driver Software Readme** 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 CD in the event of an installation error. Refer to the Monitor Driver Software Readme file on the CD.

Downloading from the Worldwide Web

To download the latest version of .INF and .ICM files from the HP monitors support Web site:

1. Refer to <http://www.hp.com/support> and select the country region.
2. Follow the links for the monitor to the support page and download page.
3. Ensure the system meets the requirements.
4. Download the software by following the instructions.

Using the Auto-Adjustment Function

You can optimize the screen performance for the VGA (analog) input by using the **-/Auto** button on the monitor and the auto-adjustment pattern software utility on the CD provided.

Do not use this procedure if the monitor is using a DVI-D, HDMI, or DisplayPort input. 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 panel.
 - You can also press the **Menu** button, then select **Image Control > Auto Adjustment** from the OSD Main Menu. Refer to [Adjusting the Monitor Settings on page 25](#) in this chapter.
 - If the result is not satisfactory, continue with the procedure.
3. Insert the CD in the disc drive. The CD menu is displayed.
4. Select **Open Auto-Adjustment Software**. The setup test pattern is displayed.
5. Press the **-/Auto** button on the monitor front panel to produce a stable, centered image.
6. Press the **ESC** key or any other key on the keyboard to exit the test pattern.

Front Panel Controls

Front panel controls vary by model.

HP LP2275w Model

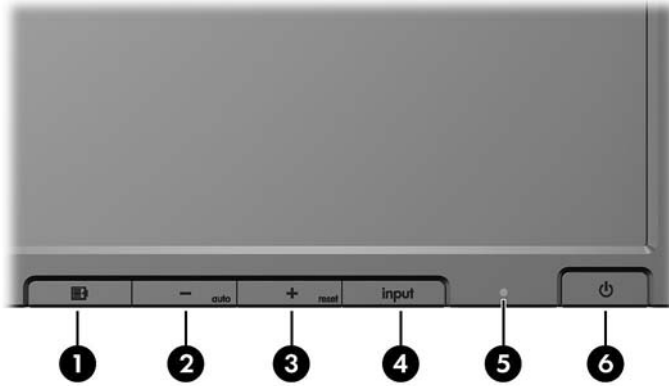


Table 4-1 HP LP2275w Monitor Front Panel Controls

Control	Function
1	Menu Opens, selects or exits the OSD menu.
2	- (Minus)/Auto <ul style="list-style-type: none">• Navigates backward through the OSD menu and decreases adjustment levels.• When the OSD menu is inactive, activates the auto adjustment feature to optimize the screen image.
3	+ (Plus)/Reset <ul style="list-style-type: none">• Navigates forward through the OSD menu and increases adjustment levels.• When the OSD menu is inactive, resets the monitor settings to factory default settings.
4	Input Selects the video input (DVI or DisplayPort).
5	Power LED Fully powered = Green. Sleep mode = Amber. Sleep Timer mode = Flashing Amber.
6	Power Turns the monitor on or off.

HP LP2475w Model

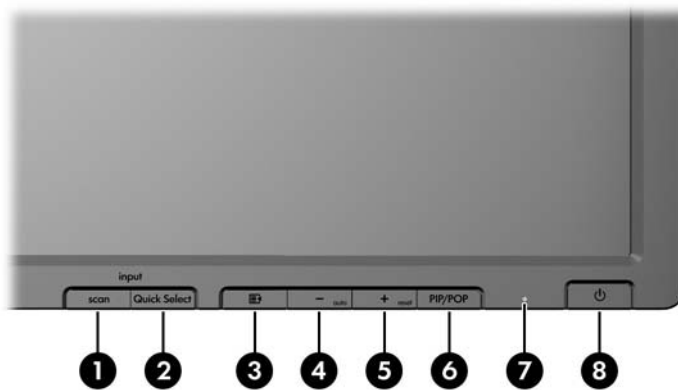


Table 4-2 HP LP2475w Monitor Front Panel Controls

Control	Function
1	Input / Scan Scans all video inputs for valid signals.
2	Input / Quick Select Displays valid video input signals for quick selection.
3	Menu Opens, selects or exits the OSD menu.
4	- (Minus)/Auto <ul style="list-style-type: none"> • Navigates backward through the OSD menu and decreases adjustment levels. • When the OSD menu is inactive, activates the auto adjustment feature to optimize the screen image.
5	+ (Plus)/Reset <ul style="list-style-type: none"> • Navigates forward through the OSD menu and increases adjustment levels. • When the OSD menu is inactive, resets the monitor settings to factory default settings.
6	PIP/POP Turns Picture-In-Picture or Picture-Outside-Picture on or off. NOTE: The PIP/POP feature must be initially set up using the OSD menu. Select Video Input Control from the OSD menu to make your PIP/POP, input source, window size and screen position selections.
7	Power LED Fully powered = Green. Sleep mode = Amber. Sleep Timer mode = Flashing Amber.
8	Power Turns the monitor on or off.

Adjusting the Monitor Settings

The monitor settings can be adjusted from the On-Screen Display (OSD) menu or from the HP Display Assistant utility.


Using the On-Screen Display Menu

Use the On-Screen Display (OSD) to adjust the screen image based on your viewing preferences. To access the OSD, 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 the **Menu** button on the monitor's front panel.



3. To navigate through the OSD Menu, press the **+** (Plus) button on the monitor's front panel to scroll up, or the **-** (Minus) button to scroll in reverse.
4. To select an item from the OSD Menu, use the **+** or **-** buttons to scroll to and highlight your selection, then press the **Menu** button to select that function.
5. Adjust the item using the **+** or **-** buttons on the front panel to adjust the scale.
6. After adjusting the function, select **Save and Return**, or **Cancel** if you don't want to save the setting, then select **Exit** from the Main Menu.

 **NOTE:** If the buttons remain untouched for 10 seconds while displaying a menu, new adjustments will be discarded and the settings will revert to previous settings and exit the menu.

OSD Menu Selections

The following table lists the On-Screen Display (OSD) menu selections and their functional descriptions. After changing an OSD menu item, and if the menu screen has these options, you may choose to:

- **Cancel**—to return to the previous menu level.
- **Save and Return**—to save all changes and return to the OSD Main Menu screen. This Save and Return option is only active if you change a menu item.
- **Reset**—to change back to the previous setting.

Table 4-3 OSD Menu















Icon	Main Menu	Submenu	Description
	Brightness	Adjustable scale	Adjusts the brightness level of the screen. The factory default range is 90.
	Contrast	Adjustable scale	Adjusts the contrast level of the screen. The factory default range is 80.
	Image Control		Adjusts the screen image.
		Auto Adjustment	Automatically adjusts the screen image.
		Horizontal Position	Adjusts the position of the screen image left and right.
		Vertical Position	Adjusts the position of the screen image up and down.
		Custom Scaling	<p>Selects the method on how displayed information on the monitor will be formatted. Select:</p> <ul style="list-style-type: none"> • Fill to Screen—image fills the entire screen and may look distorted or elongated because of non-proportional scaling of height and width • Fill to Aspect Ratio—image is sized to fit the screen and maintains proportional image • One-to-one—disables video scaling, displays an image that is smaller in size than the monitor's capability and centers the image on the screen in the active viewing area
		Clock	Minimizes any vertical bars or strips visible on the screen background. Adjusting the Clock will also change the horizontal screen image.
		Clock Phase	Adjusts the focus of the display. This adjustment allows you to remove any horizontal noise and clear or sharpen the image of characters.
	Color		Selects the screen color. The factory default is 6500K or Custom Color, depending on the model.
		9300 K	Changes to slightly blueish white.
		6500 K	Changes to slightly reddish white.
		Custom Color	<p>Selects and adjusts your own color scales:</p> <ul style="list-style-type: none"> • R—sets your own red color levels • G—sets your own green color levels • B—sets your own blue color levels
		sRGB	Sets your screen colors to adapt to the color standards used in the image technology industry.
		Color Saturation	Adjustable scale for color intensity.
		Color Tint	Adjustable scale for color tint.
	Language		Selects the language in which the OSD menu is displayed. The factory default is English.

Table 4-3 OSD Menu (continued)









Icon	Main Menu	Submenu	Description
	Management		Selects the power management features of the monitor.
		Power Saver	Enables the power saving feature. Select: <ul style="list-style-type: none">• On• Off The factory default is On.
		Power On Recall	Restores power to the monitor following an unexpected removal of power. Select: <ul style="list-style-type: none">• On• Off The factory default is On.
		Mode Display	Displays the resolution, refresh rate and frequency information on the screen each time the OSD Main Menu is accessed. Select: <ul style="list-style-type: none">• On• Off The factory default is On or Off, depending on the model.
		Power-On Status Display	Displays the operating status of the monitor each time the monitor is powered on. Select the location to display the status to: <ul style="list-style-type: none">• Top• Middle• Bottom• Off The factory default is On or Off, depending on the model.
		DDC/CI Support	Allows the computer to control some OSD menu features such as brightness, contrast and color temperature. Set to: <ul style="list-style-type: none">• On• Off The factory default is On.
		Bezel Power LED	Turns front panel Power LED on or off. Set to: <ul style="list-style-type: none">• On• Off The factory default is On.
		Sleep Timer	Provides the timer adjustment menu options: <ul style="list-style-type: none">• Set Current Time—sets the current time in hours and minutes• Set Sleep Time—sets the time you want to place the monitor in sleep mode

Table 4-3 OSD Menu (continued)























Icon	Main Menu	Submenu	Description
			<ul style="list-style-type: none"> • Set On Time—sets the time you want the monitor to wake up from sleep mode • Timer—sets the Sleep Timer feature On or Off. The default setting is Off • Sleep Now—immediately sets the monitor to enter sleep mode
	OSD Control		Adjusts the position of the OSD menu on the screen.
		Horizontal OSD Position	Changes the viewing position of the OSD menu to the left or right area of the screen. The factory default range is 50.
		Vertical OSD Position	Changes the viewing position of the OSD menu to the top or bottom area of the screen. The factory default range is 50.
		OSD Transparency	Adjust to view the background information through the OSD.
		OSD Timeout	Sets the time duration in seconds that the OSD is visible after the last button is pressed. The factory default is 30 seconds.
		OSD Rotation	Select landscape or portrait orientation.
	Video Input Control (LP2275w Model)		Controls the video input signal for the monitor.
		Switch Video Input	Selects the video input signal (DVI-I-1 Digital, DVI-I-1 Analog, or DisplayPort). Default is DVI-I-1 Digital.
		Auto-Switch Input	Turns the system's automatic video signal input to on or off. The factory default is On.
		Default Video Input	Selects the default or primary video input signal (DVI-I-1 Digital, DVI-I-1 Analog, or DisplayPort) when the monitor is connected to two active and valid video sources.
	Video Input Control (LP2475w Model)		Controls the video input signal for the monitor.
		Default Video Input	Forces one of the following as the default or primary video input signal: DVI-I-1 Digital, DVI-I-1 Analog, DVI-I-2 Digital, or DVI-I-2 Analog, DisplayPort, HDMI, S-Video, Composite, Component, or Auto-Detect. The factory default is Auto-Detect
			<p>NOTE: The Default Video Input must be set to Auto-Detect to activate functionality of the Video Input Detect Mode and Input Switch Mode menu items.</p>
		Video Input Detect Mode	<p>NOTE: The Default Video Input must be set to Auto-Detect to activate functionality of the Video Input Detect Mode.</p> <p>Controls the operation of the front panel Scan button. Set to:</p> <ul style="list-style-type: none"> • Automatic Input Scan—pressing the Scan button automatically scans through all video inputs for valid signals • Manual Input Scan—pressing the Scan button scans the video inputs one at a time for valid signals

Table 4-3 OSD Menu (continued)

Icon	Main Menu	Submenu	Description
			The factory default is Automatic Input Scan
		Input Switch Mode	<p>NOTE: The Default Video Input must be set to Auto-Detect to activate functionality of the Input Switch Mode.</p> <p>Controls the monitor action when the current video input is removed or enters the power savings mode. Set to:</p> <ul style="list-style-type: none"> Input Auto-Switching OFF—the monitor takes no action when the displayed input is removed or enters the power savings mode Input Auto-Switching ON—the monitor automatically seeks and displays an active input when the currently displayed video input is removed or enters the power mode
			The factory default is Off.
		PIP/POP Select	<p>Selects the type of secondary window. The choices are:</p> <ul style="list-style-type: none"> PIP - Picture In Picture—secondary window is displayed as a small window within the primary window POP - Picture Outside Picture—secondary window is displayed side by side with the primary window
		PIP/POP Source	<p>Selects the input source for the PIP/POP window. The choices are Composite Video, S-Video, and Component Video.</p> <p>NOTE: All inputs are supported for the main window. however only Composite, S-Video, and Component inputs are supported for the secondary window.</p>
		PIP Size	Selects the size of the PIP window. The choices are Small, Medium, and Large.
		PIP Position	Selects the position of the PIP window on the screen. The choices are Top Left, Top Right, Bottom Right, and Bottom Left.
	Information		Selects and displays important information about the monitor.
		Current Settings	Provides the current input video mode.
		Recommended Settings	Provides the recommended resolution mode and refresh rate for the monitor.
		Serial Number	Reports the serial number of the monitor. The serial number is needed if contacting HP technical support.
		Version	Reports the firmware version of the monitor.
		Backlight Hours	Reports the total hours of backlight operation.
	Factory Reset		Returns all OSD menu settings and DDC/CI controls to the factory default settings, except the Language.
	Exit		Exits the OSD menu screen.


Optimizing Digital Conversion

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

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

The Clock must first be set correctly since the Clock 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.
- **Clock Phase**—Increases/decreases the value to minimize video distortion or video jitter.

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


When adjusting the Clock and Clock 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.

Using the HP Display Assistant Utility

HP Display Assistant, included on the software and documentation CD, is a software utility that guides you through the tuning process with easy to understand instructions and background patterns designed for each monitor control. It provides:

- Accurate screen calibration through the use of step-by-step instruction Wizards to obtain the best overall image quality.
- Software control of the monitor image and color settings to eliminate dependence on the monitor's front panel buttons and On-Screen Display (OSD) menu.
- Defined preset display settings for each individual user in a multi-user environment.
- Multiple preset display settings for a single user based on content and ambient lighting.
- Asset Management and Power Management capabilities that include remote control for individual or a group of displays on the domain from a centralized console application.

The HP Display Assistant Utility has two modes of operation: Wizard and OSD mode. The preferred method of use is Wizard mode, which takes you through a step-by-step process to accurately calibrate the monitor. This method relies on a sequence of steps that will obtain the best display results when completed.

 **NOTE:** Refer to the HP Display Assistant user guide for additional information about the software.

Identifying Monitor Conditions

Special messages will appear on the monitor screen when identifying the following monitor conditions:

- **Input Signal Out of Range—Change resolution setting to 1680 × 1050 – 60Hz**—Indicates the monitor does not support the input signal because the resolution and/or refresh rate are set higher than the monitor supports (LP2275w Model).
- **Input Signal Out of Range—Change resolution setting to 1920 × 1200 – 60Hz**—Indicates the monitor does not support the input signal because the resolution and/or refresh rate are set higher than the monitor supports (LP2475w Model).
- **No Input Signal**—Indicates the monitor is not receiving a video signal from the PC on the monitor video input connector. Check to determine if the PC or input signal source is off or in the power saving mode.
- **Multiple Inputs are Active—Use the OSD to select the desired video input**—Indicates the monitor is connected to two video inputs. The monitor is trying to display both inputs, but after 10 seconds the monitor uses the default signal input.
- **Auto Adjustment is in Progress**—Indicates the auto-adjustment function is active.
- **Monitor Going to Sleep**—Indicates the screen display is entering a sleep mode.
- **Check Video Cable**—Indicates the video cable is not properly connected to the computer.
- **OSD Lockout**—The OSD can be enabled or disabled by pressing and holding the **Menu** button on the front panel for 10 seconds. If the OSD is locked, the warning message **OSD Lockout** displays for ten seconds.
 - If the OSD is locked, press and hold the **Menu** button for 10 seconds to unlock the OSD.
 - If the OSD is unlocked, press and hold the **Menu** button for 10 seconds to lock the OSD.
- **Power Button Lockout**—Indicates the power button is locked. If the power button is locked, the warning message **Power Button Lockout** displays.
 - If the power button is locked, press and hold the power button for 10 seconds to unlock the power button function.
 - If the power button is unlocked, press and hold the power button for 10 seconds to lock out the power button function.


Sleep Timer Mode

The Sleep Timer mode is an energy-saving feature that enables you to set a time for the monitor to power on and off at the same time every day. This also extends the life of the backlight bulbs in the monitor. The Sleep Timer has five settings:

- Set Current Time
- Set Sleep Time
- Set On Time
- Timer: On/Off
- Sleep Now

To set the timer:

1. Press the **Menu** button on the monitor front panel to display the **OSD Menu**.
2. Scroll down and highlight **Management**.
3. Press the **Menu** button to select **Management**.
4. Scroll down and highlight and select **Sleep Timer > Set Current Time**.

 **NOTE:** You must set the current local time before you reset the time for **Sleep Time** or **On Time**. Note that the time is displayed in a 24-hour clock format. For example, 1:15 p.m. is displayed as 13 hours 15 minutes.

5. Press the **Menu** button once to enter the adjustment mode for hours.
6. Press the - (Minus) or + (Plus) button to adjust the hour.
7. Press the **Menu** button again to enter the time for minutes.
8. Press the - (Minus) or + (Plus) button to adjust the minutes.
9. Press the **Menu** button to lock in the time chosen.
10. After setting the current time, the highlight automatically skips to **Set Sleep Time hours**. Repeat steps 6 through 9 to set **Sleep Time**.
11. If you do not want to set **Sleep Time**, press the **Menu** button twice, then select **Save and Return** to exit the menu.
12. After setting **Sleep Time**, the highlight automatically skips to **Set On Time hours**. Repeat steps 6 through 9 to set **On Time**.
13. Set the **Timer mode** to **On** to activate the **Sleep Timer** settings.
14. When you are finished, select **Save and Return** to exit the menu.

The fifth selection, **Sleep Now**, turns the monitor backlights off immediately and stays in sleep mode until the next **On Time** activates or a monitor button is pressed.

HP Display LiteSaver

HP Display LiteSaver is a software application, available on the CD, that increases monitor life and saves energy. It allows you to place the monitor into its low power sleep mode at predefined times by shutting down or reducing power to most internal circuits. This helps protect the LCD panel against image retention. Image retention can occur when the monitor is left on while displaying the same image for an extended period of time, leaving a shadow of the image on the screen.

Installing the HP Display LiteSaver Software

1. Insert the CD in the computer CD-ROM Drive. The CD menu is displayed.
2. Select **Install HP Display LiteSaver Software**.
3. After installing the software, click the **HP Display LiteSaver** icon in the Windows system tray or right-click the icon and select **Configure** from the pop-up menu.
4. Select the following options to configure the HP Display LiteSaver features:

Table 4-4 HP Display LiteSaver Configuration Options


Select This Option	To Do This
Enable Display LiteSaver	Enables the HP Display LiteSaver functions; deselect to disable the HP Display LiteSaver.
Display Off	Sets the time when the monitor automatically turns off. This does not affect screen saver operation, which has priority over the HP Display LiteSaver.
Display On	Sets the time when the monitor automatically turns on. This does not affect screen saver operation, which has priority over the HP Display LiteSaver.
Activity Extension	Sets the time in minutes before the monitor turns off if there is any keyboard or mouse activity after the Display Off time is reached. If the keyboard or mouse is used, then HP Display LiteSaver waits until the set amount of time before turning the display off again. Set to 0 to disable. If disabled, the monitor will turn off as soon as the Display Off time is reached, regardless of keyboard or mouse activity.
Show 1 minute Display Off Notice	Displays a popup message in the system tray 1 minute before the monitor is turned off by HP Display LiteSaver.
Status	Shows the time until the monitor is next due to be turned off by HP Display LiteSaver.
OK	Stores the current settings and minimizes HP Display LiteSaver to the System Tray.
Cancel	Restores the previous settings and minimizes HP Display LiteSaver to the System Tray. HP Display LiteSaver will continue to run.
Help	Opens the online help file.
Exit	Exits and closes the HP Display LiteSaver. It will no longer control the monitor power until it is next run.

View *HP Display LiteSaver Readme* on the CD for additional information on how to configure HP Display LiteSaver.

sRGB Support

The monitor is designed to support sRGB for color management, which adapts to the color standards used in the image technology industry.


To take advantage of the sRGB support, you will need to change the monitor's color temperature to sRGB and install the sRGB color profile (ICM) file.

 **NOTE:** The sRGB color temperature preset will improve the color accuracy of sRGB images on the computer monitor, but some color variation may still occur.

Changing the Color Temperature

1. Press the **Menu** button on the front panel of the monitor to launch the **Main Menu** of the OSD.
2. Select **Color**.
3. Select **sRGB**.
4. Select **Save and Return** to exit the menu.

Installing the sRGB ICM File for Microsoft Windows 2000 and Windows XP

 **NOTE:** To complete the following procedure, you must be logged in as an administrator or a member of the administrator's group. If the computer is connected to a network, network policy settings may prevent you from completing this procedure. The sRGB ICM file does not support Windows 95 and Windows NT operating systems.

1. Click the **Display** icon in the Control Panel.
2. In the **Display Properties** windows, select the **Settings** tab, then click the **Advanced** button.
3. Select the **Color Management** tab, then click the **Add** button to open the **Add Profile Association** dialog box.
4. Select the **sRGB Color Space Profile.icm** file, then click the **Add** button
5. To activate a color profile for the monitor, you must set it as the Default Monitor Profile. Select **sRGB Color Space Profile**, then click **Set as Default** button.
6. Click **Apply** or **OK**.

Installing the sRGB ICM File for Microsoft Windows Vista

1. Click **Appearance and Personalization** icon in the Control Panel.
2. Click **Personalization**.
3. Click **Display Settings**.
4. Click the **Advanced Settings** button.
5. Click the **Color Management** tab, then click the **Color Management** button.
6. Click the **Advanced** tab, then click the **Change System Defaults** button.
7. On the **Devices** tab, click the **Add** button.
8. Select the **RGB Color Space Profile.icm** file, then click the **OK** button.
9. To activate a color profile for the monitor, you must set it as the Default Monitor Profile. Select **sRGB Color Space Profile**, then click the **Set as Default** button.

A 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.	Power cord is disconnected.	Connect the power cord.
	Power button on front panel of the monitor is turned off.	Press the front panel 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.
	Master power switch on rear panel of the monitor is turned Off.	Turn the master power switch to On.
Image appears blurred, indistinct, or too dark.	Video cable is improperly connected.	Connect the video cable properly. Refer to Setting Up the Monitor on page 6 for more information.
	Screen blanking is active.	Press any key on the keyboard or move the mouse to inactivate the screen blanking utility.
Image is not centered	Position may need adjustment.	Press the Menu button to access the OSD menu. Select Image Control/Horizontal Position or Vertical Position to adjust the horizontal or vertical position of the image.
Check Video Cable 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.
Input Signal Out of Range. Change resolution setting to 1680 × 1050 @ 60Hz (HP LP2275w Model) or Input Signal Out of Range. Change resolution setting to 1920 × 1200 @ 60Hz (HP LP2475w Model) is displayed on screen.	Video resolution and/or refresh rate are set higher than what the monitor supports.	Restart the computer and enter Safe Mode. Change the settings to a supported setting (see Recognizing Preset Display Resolutions on page 41). Restart the computer so that the new settings take effect.
HP Display LiteSaver doesn't turn off the monitor screen.	The Activity Extension time has not elapsed.	The default Activity Extension value is set to 10 minutes. The HP Display LiteSaver will wait to detect no input or movement from the keyboard or mouse for 10 consecutive minutes after the Display Off time has passed, before the

Problem	Possible Cause	Solution
		monitor enters into low-power mode. For example, if the Display Off time is set to 5 minutes from the current time and the Activity Extension is set to 10 minutes, the HP Display LiteSaver will not actually turn off the display until 10 minutes of inactivity has elapsed, even though the Display Off time is 5 minutes from now.
	The HP Display LiteSaver may not be compatible with the computer system. Some notebook computers are not compatible and the monitor power can not be controlled.	<p>Confirm that the HP Display LiteSaver is compatible with the system.</p> <ol style="list-style-type: none"> 1. Right-click on the HP Display LiteSaver icon in the system tray. 2. Select Power Off Display from the menu. <p>The monitor screen should turn off if the system is compatible. To turn the monitor back on, wait 5 seconds and move the mouse.</p> <p>NOTE: If the monitor did not turn off, then the computer graphics driver is not compatible with the HP Display LiteSaver software.</p>
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.	Check the monitor's OSD menu setting for power saving enable/disable controls. The control should be set to enable to allow the monitor to enter into low-power modes.
OSD Lockout is displayed.	The monitor's OSD Lockout function is enabled.	Press and hold the Menu button 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 unlock the power button function.

Using the Worldwide Web


For the online access to technical support information, self-solve tools, online assistance, community forums of IT experts, broad multivendor knowledge base, monitoring and diagnostic tools, go to <http://www.hp.com/support>

Preparing to Call Technical Support

If you cannot solve a problem using the trouble shooting tips in this section, you may need to call technical support. Have the following information available when you call:

- The monitor
- Monitor model number
- Serial number for the monitor
- Purchase date on invoice
- Conditions under which the problem occurred
- Error messages received
- Hardware configuration
- Hardware and software you are using

B Technical Specifications

 **NOTE:** All performance specifications are provided by the component manufacturers. Performance specifications represent the highest specification of all HP's component manufacturers' typical level specifications for performance and actual performance may vary either higher or lower.

HP LP2275w Model

Table B-1 HP LP2275w Specifications

Display	55.9 cm wide screen	22 inches wide screen
Type	TFT LCD	
Viewable Image Size	55.9 cm diagonal	22-inch diagonal
Tilt Adjustment	-5 to 30°	
Swivel Adjustment	-45 to 45°	
Height Adjustment	100 mm range	3.94-inch range
Pivot	Clockwise	
Maximum Weight (Unpacked)	8.12 kg	17.9 lbs.
Dimensions (include base)		
Height (maximum)	47.8 cm	18.8 inches
Depth	25.3 cm	10.0 inches
Width	50.6 cm	19.9 inches
Maximum Graphic Resolution	1680 x 1050 (60 Hz) analog input 1680 x 1050 (60 Hz) digital input	
Optimum Graphic Resolution	1680 x 1050 (60Hz) analog input 1680 x 1050 (60Hz) digital input	
Text Mode	720 x 400	
Dot Pitch	0.282 (H) x 0.282 (W) mm	
Horizontal Frequency	30 to 93 kHz	
Vertical Refresh Rate	48 to 85 Hz	
Environmental Requirements Temperature		
Operating Temperature	5 to 35° C	41 to 95° F
Storage Temperature	-20 to 60° C	-4 to 140° F

Table B-1 HP LP2275w Specifications (continued)

Relative Humidity	20 to 80%	
Power Source	90 – 265 VAC, 45/63 Hz	
Altitude:		
Operating	0 to 3657.6 m	0 to 12,000 feet
Storage	0 to 12192 m	0 to 40,000 feet
Power Consumption (maximum)	<95 watts	
Input Terminal	One DVI-I connector with DVI to DVI-D and DVI to VGA cables included; one DisplayPort connector with cable included	

HP LP2475w Model

Table B-2 HP LP2475w Specifications

Display	60.96 cm wide screen	24 inches wide screen
Type	TFT LCD	
Viewable Image Size	60.96 cm diagonal	24–inch diagonal
Tilt Adjustment	-5 to 30°	
Swivel Adjustment	-45 to 45°	
Height Adjustment	110 mm range	3.94–inch range
Pivot	Clockwise	
Maximum Weight (Unpacked)	9.3 kg	29.1 lbs.
Dimensions (include base)		
Height (maximum)	52.1 cm	20.5 inches
Depth	25.3 cm	10 inches
Width	55.6 cm	21.9 inches
Maximum Graphic Resolution	1920 x 1200 (75 Hz) analog input 1920 x 1200 (75 Hz) digital input	
Optimum Graphic Resolution	1920 x 1200 (60Hz) analog input 1920 x 1200 (60Hz) digital input	
Text Mode	720 × 400	
Dot Pitch	0.270 (H) × 0.270 (W) mm	
Horizontal Frequency	30 to 94 kHz	
Vertical Refresh Rate	48 to 85 Hz	
Environmental Requirements Temperature		
Operating Temperature	5 to 35° C	41 to 95° F
Storage Temperature	-20 to 60° C	-4 to 140° F

Table B-2 HP LP2475w Specifications (continued)

Relative Humidity	20 to 80%	
Power Source	90 – 265 VAC, 45/63 Hz	
Altitude:		
Operating	0 to 3657.6 m	0 to 12,000 feet
Storage	0 to 12192 m	0 to 40,000 feet
Power Consumption (maximum)	<120 watts	
Input Terminal	Two DVI-I connectors with DVI to DVI-D and DVI to VGA cables included; one DisplayPort connector with cable included; one HDMI connector with cable included; one Composite connector; one S-Video connector; one set of Component connectors	

Recognizing 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.

HP LP2275w Model

Table B-3 HP LP2275w Factory Preset Modes

Preset	Pixel Format	Horz Freq (kHz)	Vert Freq (Hz)
1	640 × 480	31.47	59.94
2	720 × 400	31.47	70.08
3	800 × 600	37.88	60.32
4	800 × 600	46.88	75.00
5	832 × 624	49.72	74.55
6	1024 × 768	48.36	60.00
7	1024 × 768	60.02	75.03
8	1152 × 870	68.68	75.06
9	1152 × 900	61.80	65.96
10	1280 × 960	60.00	60.00
11	1280 × 1024	63.98	60.02
12	1280 × 1024	79.98	75.02
13	1440 × 900	55.94	59.89
14	1600 × 1000	61.648	60.00
15	1680 × 1050	65.29	60.00

HP LP2475w Model

Table B-4 HP LP2475w Factory Preset Modes

Preset	Pixel Format	Horz Freq (kHz)	Vert Freq (Hz)
1	640 × 480	31.47	59.94
2	640 × 480	37.50	70.00
3	720 × 400	31.47	70.08
4	800 × 600	37.88	60.32
5	800 × 600	46.88	75.00
6	832 × 624	49.72	74.55
7	1024 × 768	48.36	60.00
8	1024 × 768	60.02	75.03

Table B-4 HP LP2475w Factory Preset Modes (continued)

Preset	Pixel Format	Horz Freq (kHz)	Vert Freq (Hz)
9	1024 × 768	68.68	85.00
10	1152 × 870	68.68	75.06
11	1152 × 900	61.80	65.96
12	1280 × 768	47.396	60.00
13	1280 × 960	60.00	60.00
14	1280 × 1024	63.98	60.02
15	1280 × 1024	79.98	75.02
16	1280 × 1024	91.15	85.02
17	1600 × 1000	61.648	60.00
18	1600 × 1200	75.00	60.00
19	1600 × 1200	93.80	75.00
20	1680 × 1050	65.29	60.00
21	1920 × 1080	67.158	60.00
22	1920 × 1200	74.04	60.00
23	1920 × 1200	74.56	60.00

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, then recognizes the new mode just as it does a preset mode. In addition to the factory preset modes, there are fifteen to twenty user modes, depending on the model, that can be entered and stored.

Energy Saver Feature

When the monitor is in its normal operating mode, the monitor uses less than 95 watts (LP2275w Model) or 120 watts (LP2475w Model) of power and the Power light is green.

The monitor also 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 is turned amber. When the monitor is in the reduced power state, the monitor will utilize less than 2 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 connected to computers that have 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.

C Agency Regulatory Notices

Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Hewlett Packard Company may void the user's authority to operate the equipment.

Cables

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

Declaration of Conformity for Products Marked with the FCC Logo (United States Only)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

For questions regarding the product, contact:

Hewlett Packard Company
P. O. Box 692000, Mail Stop 530113
Houston, Texas 77269-2000
Or, call 1-800-HP-INVENT (1-800 474-6836)

For questions regarding this FCC declaration, contact:

Hewlett Packard Company
P. O. Box 692000, Mail Stop 510101
Houston, Texas 77269-2000
Or, call (281) 514-3333

To identify this product, refer to the Part, Series, or Model number found on the product.

Canadian Notice

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Avis Canadien

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.



European Union Regulatory Notice

This product complies with the following EU Directives:

- Low Voltage Directive 2006/95/EC
- EMC Directive 2004/108/EC

Compliance with these directives implies conformity to applicable harmonized European standards (European Norms) which are listed on the EU Declaration of Conformity issued by Hewlett-Packard for this product or product family.

This compliance is indicated by the following conformity marking placed on the product:

 <small>This marking is valid for non-Telecom products and EU harmonized Telecom products (e.g. Bluetooth).</small>	 <small>This marking is valid for EU non-harmonized Telecom products. *Notified body number (used only if applicable - refer to the product label)</small>
This marking is valid for non-Telecom products and EU harmonized Telecom products (e.g. Bluetooth)	This marking is valid for EU non-harmonized Telecom products. *Notified body number (used only if applicable — refer to the product label).

German Ergonomics Notice

HP products which bear the “GS” approval mark, when forming part of a system comprising HP brand computers, keyboards and monitors that bear the “GS” approval mark, meet the applicable ergonomic requirements. The installation guides included with the products provide configuration information.

Japanese Notice

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。
取扱説明書に従って正しい取り扱いをして下さい。

Korean Notice

B급 기기 (가정용 정보통신기기)

이 기기는 가정용으로 전자파적합등록을 한 기기로서
주거지역에서는 물론 모든지역에서 사용할 수 있습니다.

Power Cord Set Requirements

The monitor power supply is provided with Automatic Line Switching (ALS). This feature allows the monitor to operate on input voltages between 100–120V or 200–240V.

The power cord set (flexible cord or wall plug) received with the monitor meets the requirements for use in the country where you purchased the equipment.

If you need to obtain a power cord for a different country, you should purchase a power cord that is approved for use in that country.

The power cord must be rated for the product and for the voltage and current marked on the product's electrical ratings label. The voltage and current rating of the cord should be greater than the voltage and current rating marked on the product. In addition, the cross-sectional area of the wire must be a minimum of 0.75 mm² or 18 AWG, and the length of the cord must be between 6 feet (1.8 m) and 12 feet (3.6 m). If you have questions about the type of power cord to use, contact an authorized HP service provider.

A power cord should be routed so that it is not likely to be walked on or pinched by items placed upon it or against it. Particular attention should be paid to the plug, electrical outlet, and the point where the cord exits from the product.

Japanese Power Cord Requirements

For use in Japan, use only the power cord received with this product.

△ **CAUTION:** Do not use the power cord received with this product on any other products.

Product Environmental Notices

Energy Star Compliance



Monitors that are marked with the ENERGY STAR Logo meet the requirements of the U.S. Environmental Protection Agency (EPA) ENERGY STAR program. As an ENERGY STAR Partner, Hewlett Packard Company has determined that this product meets the ENERGY STAR guidelines for energy efficiency. Specific details on using the Energy Saving features can be found in the energy saver or power management section of the computer manual.

Materials Disposal

This HP product contains mercury in the fluorescent lamp in the display LCD that might require special handling at end-of-life.

Disposal of this material can be regulated because of environmental considerations. For disposal or recycling information, contact the local authorities or the Electronic Industries Alliance (EIA) <http://www.eiae.org>.

Disposal of Waste Equipment by Users in Private Household in the European Union



This symbol on the product or on its packaging indicates that this product must not be disposed of with your household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling or waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact the local city office, the household waste disposal service or the shop where you purchased the product.

Restriction of Hazardous Substances (RoHS)

A Japanese regulatory requirement, defined by specification JIS C 0950, 2005, mandates that manufacturers provide Material Content Declarations for certain categories of electronic products offered for sale after July 1, 2006. To view the JIS C 0950 material declaration for this product, visit <http://www.hp.com/go/jisc0950>.

2005年、日本における製品含有表示方法、JISC0950が公示されました。製造事業者は、2006年7月1日以降に販売される電気・電子機器の特定化学物質の含有につきまして情報提供を義務付けられました。製品の部材表示につきましては、<http://www.hp.com/go/jisc0950>を参照してください。

有毒有害物质/元素的名称及含量表

根据中国
《电子信息产品污染控制管理办法》

液晶显示器

部件名称	有毒有害物质和元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
液晶显示器显示面板	X	X	○	○	○	○
机箱/其它	X	○	○	○	○	○

CRT 显示器

部件名称	有毒有害物质和元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
阴极射线管	X	○	○	○	○	○
机箱/其它	X	○	○	○	○	○

O: 表示该有毒或有害物质在该部件所有均质材料中的含量均在 SJ/T11363-2006 标准规定的限量要求以下。

X: 表示该有毒或有害物质至少在该部件所用的某一均质材料中的含量超出 SJ/T11363-2006 标准规定的限量要求。

表中标有“X”的所有部件都符合欧盟 RoHS 法规 — “欧洲议会和欧盟理事会 2002 年 1 月 27 日关于电子电器设备中限制使用某些有害物质的 2002/95/EC 号指令”。

注: 环保使用期限的参考标识取决于产品正常工作的温度和湿度等条件。

D LCD Monitor Quality and Pixel Policy

The TFT monitor uses high-precision technology, manufactured according to HP standards, to guarantee trouble-free performance. Nevertheless, the display may have cosmetic imperfections that appear as small bright or dark spots. This is common to all LCD displays used in products supplied by all vendors and is not specific to the HP LCD. These imperfections are caused by one or more defective pixels or sub-pixels.

- A pixel consists of one red, one green, and one blue sub-pixel.
- A defective whole pixel is always turned on (a bright spot on a dark background), or it is always off (a dark spot on a bright background). The first is the more visible of the two.
- A defective sub-pixel (dot defect) is less visible than a defective whole pixel and is small and only visible on a specific background.

To locate defective pixels, the monitor should be viewed under normal operating conditions, in normal operating mode at a supported resolution and refresh rate, from a distance of approximately 50 cm (20 in).

HP expects that, over time, the industry will continue to improve its ability to produce LCDs with fewer cosmetic imperfections and HP will adjust guidelines as improvements are made.