



User Guide

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About This Guide

This guide provides information on monitor features, setting up the monitor, 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



The LCD (liquid crystal display) monitor has an active matrix, thin-film transistor (TFT) panel with the following features:


- 35.6 cm (14-inch) diagonal viewable area display with 1600 x 900 resolution, plus full-screen support for lower resolutions
- Single USB 3.0 connection for power and video (with USB 3.0 cable provided)
- LED backlit panel with ultra-thin screen
- Integrated, adjustable stand transforms into carrying case that folds flat for fast, easy transport
- Built-in back panel control buttons for power and brightness adjustment
- Software and documentation disc that includes monitor drivers, product documentation, and *Product Notices*


2 Safety and Maintenance Guidelines

Important Safety Information


For safety and regulatory information, refer to the *Product Notices* provided on your media disc, if one is included, or in your documentation kit. To locate updates to the user guide for your product, go to <http://www.hp.com/support>, and select your country. Select **Drivers & Downloads**, and then follow the on-screen instructions

A USB cable for power and data is included with the monitor. Use only the supplied cable when connecting the monitor to a computer.

 **WARNING!** 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 disc, if one is included with the 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 the USB cable connected to the LCD monitor so that it can not be pulled, grabbed, or tripped over.

 **CAUTION:** For the protection of the monitor, as well as the computer, connect the computer power cord 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.

CAUTION: Do not pick up the monitor by its protective case. The case and monitor are attached together by magnets. If held improperly, the monitor could detach from the case and fall.

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.
- Turn the monitor off when not in use. You can substantially increase the life expectancy of the monitor by using a screen saver program and turning off the monitor when not in use.

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

- Slots and openings in the cabinet are provided for ventilation. These openings must not be blocked or covered. Never push objects of any kind into cabinet slots or other openings.
- Do not drop the monitor or place it on an unstable surface.

- Do not allow anything to rest on the USB cable. Do not walk on the cable.
- Keep the monitor in a well-ventilated area, away from excessive light, heat or moisture.

Cleaning the Monitor

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

⚠ CAUTION: Spray the cleaner onto a cloth and use the damp cloth to gently wipe the screen surface. Never spray the cleaner directly on the screen surface. It may run behind the bezel and damage the electronics.

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

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 and Using the Monitor

Attaching the Protective Cover and Setting Up the Monitor

Attaching the Protective Cover

1. Lay the monitor face up on a flat surface.
2. On the protective cover, locate the flap with a ridge on one side. Hold the cover with the ridge facing up and the flap over the HP logo on the monitor bezel.

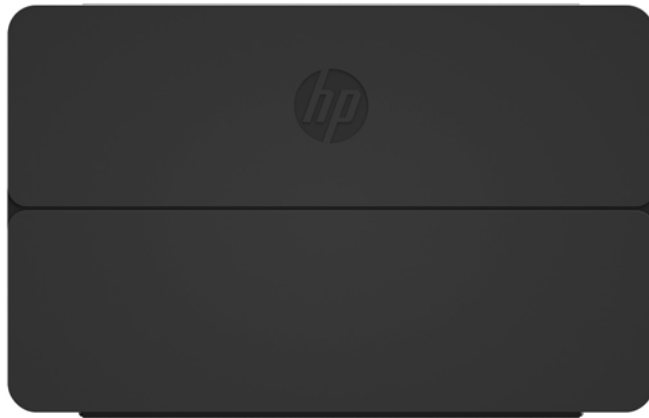
The top of the protective cover is now lined up with the top of the monitor.


3. Lower the protective cover onto the monitor.



As the protective cover contacts the monitor, magnets in the bottom edge of the cover align and attach to the monitor.

4. Fold the flap over the top of the monitor and press it onto the back of the monitor to secure the protective cover over the screen.



 **NOTE:** If the flap cannot be folded over the top of the monitor, then the cover has been attached with the wrong side up. Carefully detach the cover, turn it over, and repeat the procedure.

Setting Up the Monitor

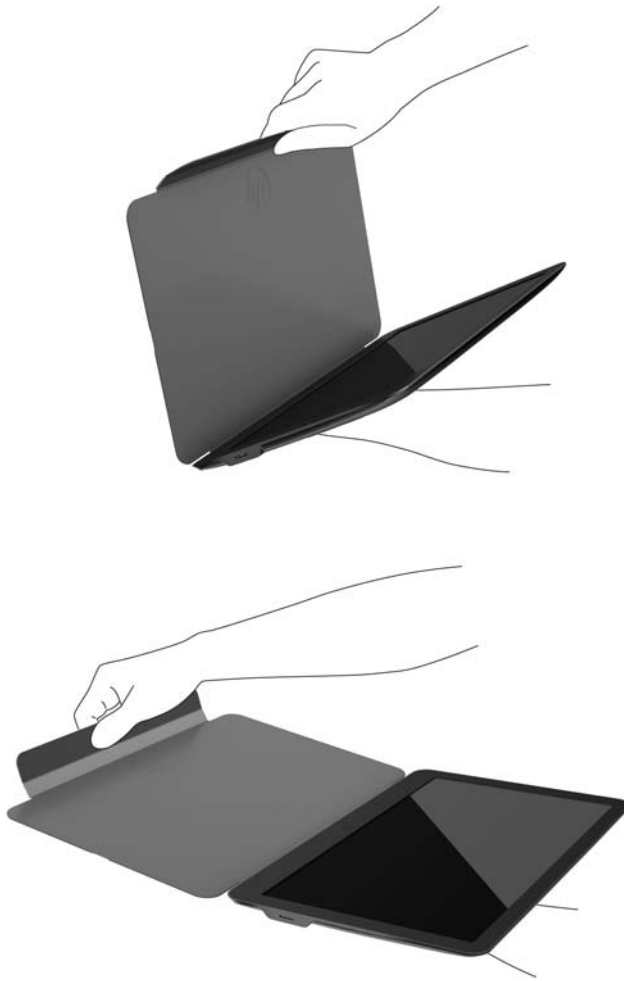
⚠ CAUTION: Do not pick up the monitor by its protective case. The case and monitor are attached together by magnets. If held improperly, the monitor could detach from the case and fall.



1. Support the monitor with one hand and lift the flap.

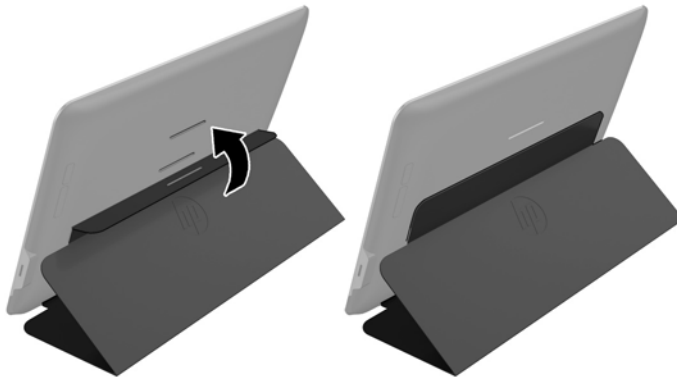



2. Continue to support the monitor and open the protective case.




3. Set the bottom edge of the monitor on a flat surface with the protective case behind the monitor.
4. Fold the protective case toward the back of the monitor.

5. Press the ridge on the inside of the flap into the top or middle groove in the back of the monitor to secure the stand position.



 **NOTE:** If you prefer the monitor to be in a more upright position, select the middle groove. For more incline, select the top groove.

Installing Drivers and Connecting an HP Notebook Computer

 **IMPORTANT:** On Windows Vista and later versions, DisplayLink software interacts closely with the primary graphics card. DisplayLink supports and tests a single graphics card (GPU) installed in a PC from all major GPU vendors (Intel, ATI, NVIDIA, and Via). SIS graphics cards are not supported.

The following GPU configurations may exhibit compatibility issues on Windows Vista and later versions in certain circumstances:


- NVIDIA SLI in SLI mode

Other GPU configurations, including the following, are currently unsupported and will not function on Windows Vista and later versions.

- Crossfire
- SLI not in SLI mode
- Multiple WDDM graphics drivers active at once

Do not turn on power to the monitor until you have installed the drivers on your computer and connected the monitor to the computer. To set up the monitor:

1. Install the drivers using one of the following sources:
 - Insert the disc included with the monitor into an optical drive on your HP computer.
 - Go to <http://www.hp.com/support> and follow the on-screen instructions to locate and download the drivers for the monitor.

 **NOTE:** This source provides the most up-to-date drivers.



2. Insert the single end of the provided USB “Y” cable into the USB port on the monitor, and connect the other end of the cable to the computer in one of the following configurations:
- Insert the primary USB connector on the other end of the cable into a 3.0 USB port on the computer.
 - Insert both USB connectors on the other end of the cable into two USB 2.0 ports on the computer.



3. Turn on power to the monitor.
4. After installing the software and connecting the monitor, the following icon appears in the system tray.



Click the icon to open the menu to select your display mode and control the attached monitor.

If the monitor does not turn on, perform the following steps:

1. Be sure that the USB cable is seated properly in the monitor and the computer. If the cable is connected to USB 2.0 ports on the computer, make sure both USB connectors of the “Y” cable are connected to USB 2.0 ports on the computer.
2. Press the power button on the rear of the monitor.
3. Be sure the USB Graphics driver has been installed on the PC. Install the drivers using one of the following sources:
 - Insert the disc included with the monitor into an optical drive on your HP computer.
 - Go to <http://www.hp.com/support> and follow the on-screen instructions to locate and download the drivers for the monitor.



NOTE: This source provides the most up-to-date drivers.

Display Modes

When the monitor is attached to your notebook or desktop; computer, the monitor can be configured to use either extend mode or mirror mode, or it can be the primary display.

Extend Mode (Default)

In extend mode (the default mode), your Windows desktop display spreads over to the attached monitor. This mode allows you to perform multiple tasks more effectively without overlapping windows.

To set up the monitor in extend mode:

1. Click the **USB Graphics** icon in the system tray on the Windows taskbar.
2. Click **Extend**.

The Windows desktop display now extends in the same direction as the last time this mode was used.

3. To control the direction, click **Extend to** and click **Left**, **Right**, **Above**, or **Below** the notebook (primary) monitor.

You can also set up extend mode through the Windows display settings. To use this method:


1. Position the cursor anywhere on your Windows desktop, right-click, and then:
 - On Windows Vista, Windows 7, and the Windows 8 series, click **Personalize > Display Settings**.
 - On Windows XP, click **Properties > Settings**.
2. In the **Display** drop-down menu, click the attached monitor, and then:

- On Windows Vista, Windows 7, and the Windows 8 series, select the **Extend the desktop onto this monitor** check box.
 - On Windows XP, select the **Extend my Windows desktop onto this monitor** check box.
3. Drag the icons in the window at the top of the screen to match the physical arrangement of your notebook monitor and the attached monitor.

The attached monitor is normally identified as "2" on your computer.

4. Click **OK** to close the settings screen.

To use your extended desktop, simply drag and drop your open windows over to the attached monitor.

 **NOTE:** Some applications may not support display on an extended desktop.

Mirror Mode

In mirror or clone mode, your original screen (the primary notebook display) is mirrored to the attached monitor.

To set up the attached monitor in mirror mode:

1. Click the **USB Graphics** icon in the system tray on the Windows taskbar.
2. Click **Mirror**.

You can also set up the attached monitor in mirror mode through the Windows display settings. To use this method:

1. Position the cursor anywhere on your Windows desktop, right-click, and then:
 - On Windows Vista, Windows 7, and the Windows 8 series, click **Personalize > Display Settings**.
 - On Windows XP, click **Properties > Settings**.
2. In the **Display** drop-down menu, click the attached monitor, and then:
 - On Windows Vista, Windows 7, and the Windows 8 series, clear the **Extend the desktop onto this monitor** check box.
 - On Windows XP, clear the **Extend my Windows desktop onto this monitor** check box.
3. Click **OK** to close the settings screen.

In mirror mode, the settings on the primary monitor (screen resolution, color depth, and refresh rate) are replicated on the attached monitor.

Primary Display

To set up the attached monitor as the primary display:

1. Click the **USB Graphics** icon in the system tray on the Windows taskbar.
2. Click **Set as Main Monitor**.

You can also set up the attached monitor as the primary display through the Windows display settings. To use this method:

1. Position the cursor anywhere on your Windows desktop, right-click, and then:


- On Windows Vista, Windows 7, and the Windows 8 series, click **Personalize > Display Settings**.
 - On Windows XP, click **Properties > Settings**.
2. In the **Display** drop-down menu, click the attached monitor, and then:
 - On Windows Vista, Windows 7, and the Windows 8 series, select the **This is my main monitor** check box.
 - On Windows XP, select the **Use this device as the primary monitor** check box.
 3. On some PCs and notebooks, the primary display must be disabled as part of the same settings change. To do this, clear the **Extend the desktop onto this monitor** check box for the primary display.
 4. Click **OK** to close the settings screen.

The attached monitor stays primary if the PC enters hibernate or suspend mode or is rebooted. If the attached monitor is unplugged, the notebook or desktop display becomes primary again.

Rear Panel Controls



	Icon	Button	Function
1		Power	Turns the monitor on or off
2		Plus	Increases brightness
3		Minus	Decreases brightness

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

4 Finding More Information


Product Support

 **NOTE:** The monitor user guide and latest drivers are available at <http://www.hp.com/support>.

If the information provided in the guide does not address your questions, you can contact support. For U.S. support, go to <http://www.hp.com/go/contactHP>.

For worldwide support, go to http://welcome.hp.com/country/us/en/wwcontact_us.html. 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.

- Find support telephone numbers
- Locate an HP service center

Preparing to Call Technical Support

If you cannot solve a problem with the monitor, you may need to call technical support. Have the following information available when you call:

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


Locating the Rating 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 bottom of the monitor. To see them, you must remove the protective cover.

1. Open the protective cover and lay the monitor and cover on a flat surface.
2. Gently pull the case away from the monitor.

For instructions, see [Attaching the Protective Cover on page 4](#).

5 Technical Specifications

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


Monitor Specifications

Input Terminal	USB for power and video (cable included)	
Maximum Weight (Unpacked)	1.25 kg	2.76 lbs
Dimensions (includes cover)		
Height	21.8 cm	8.6 in
Depth	1.6 cm	.63 in
Width	34.5 cm	13.6 in
Graphics Resolution	1600 X 900 @ 60 Hz	
Aspect Ratio	16:9	
Power Source	1 USB 3.0 port or 2 USB 2.0 ports (4.5 V , 0.9~1.8 A)	

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 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 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 connected to computers that have energy saver features.
