

HP Compaq LA1905wl, LA1905wg, LA2205wg, LA2205wl, LA22f, LA2405wg, and LA2405x LCD Monitors

User Guide

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About This Guide

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

- MARNING! Text set off in this manner indicates that failure to follow directions could result in bodily harm or loss of life.
- A 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 LCD Monitors

The LCD (liquid crystal display) monitors have an active matrix, thin-film transistor (TFT) panel. The monitor models and features include:

- LA1905wl and LA1905wg models, 48.1 cm (19-inch) diagonal viewable area display with 1440 × 900 resolution, plus full-screen support for lower resolutions; includes custom scaling for maximum image size while preserving original aspect ratio
- LA2205wg model, 55.88 cm (22-inch) diagonal viewable area display with 1680 x 1050 resolution, plus full-screen support for lower resolutions; includes custom scaling for maximum image size while preserving original aspect ratio
- LA22f and LA2205wl models, 55.88 cm (22-inch) diagonal viewable area display with 1680 x 1050 resolution, plus full-screen support for lower resolutions; includes custom scaling for maximum image size while preserving original aspect ratio
- LA2405wg and LA2405x models, 60.96 cm (24-inch) diagonal viewable area display with 1920 x 1200 resolution, plus full-screen support for lower resolutions; includes custom scaling for maximum image size while preserving original aspect ratio
- Wide viewing angle to allow viewing from a sitting or standing position, or moving side-to-side
- Tilt capability
- Pivot capability to rotate display to portrait mode
- Swivel and height adjustment capabilities
- Removable stand for flexible monitor panel mounting solutions
- Video signal input to support VGA analog with VGA signal cable provided
- Video signal input to support DVI digital with DVI-D signal cable provided
- Video signal input to support DisplayPort digital (DisplayPort cable not provided)
- USB 2.0 hub with one upstream port (connects to the computer) and two downstream ports (connects to USB devices)
- USB cable provided to connect the monitor's USB hub to the USB connector on the computer
- Supports an optional 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 easy setup and screen optimization
- HP Display Assistant for adjusting monitor settings

- Theft deterrence enabled through the HP Display Assistant software
- HDCP copy protection on DVI and DisplayPort inputs
- Software and documentation CD that includes monitor drivers and product documentation
- Energy saver feature to meet requirements for reduced power consumption
- Energy Star qualified
- Intelligent Management AssetControl
- Compliant with the following regulated specifications:
 - European Union CE Directives
 - Swedish TCO Requirements

2 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.

Unfolding the Monitor Pedestal Base

- 1. Lift the monitor from its box and place it face down on a flat surface.
- 2. Hold down the monitor base with one hand (1) then grasp the handle with the other hand and unfold the display head 90 degrees (2).
- CAUTION: Do not touch the surface of the LCD panel. Pressure on the panel may cause nonuniformity of color or disorientation of the liquid crystals. If this occurs the screen will not recover to its normal condition.

Figure 2-1 Unfolding the Monitor Pedestal Base



NOTE: When the monitor is unfolded for the first time, the display head is locked from adjusting to a full-height position. To adjust the display head to full height, press down on the display head to unlock it then pull up on the display head to raise it to the full-height position.

Rear Components

Figure 2-2 Rear Components



Connecting the Cables

1. Place the monitor in a convenient, well-ventilated location near the computer.

NOTE: Before connecting the cables, route them through the opening on the monitor's pedestal.

- 2. Connect a VGA signal cable, DVI-D signal cable, or DisplayPort signal cable.
- **NOTE:** The monitor is capable of supporting either analog or digital input. The video mode is determined by the video cable used. The monitor will automatically determine which inputs have valid video signals. The inputs can be selected by pressing the +/Source button on the front panel or through the On-Screen Display (OSD) feature by pressing the Menu button.
 - For analog operation, use the VGA signal cable provided. Connect the VGA signal cable to the VGA connector on the rear of the monitor and the other end to the VGA connector on the computer.
 - For DVI digital operation, use the DVI-D signal cable provided. Connect the DVI-D signal cable to the DVI connector on the rear of the monitor and the other end to the DVI connector on the computer.
 - For DisplayPort digital operation, use a DisplayPort signal cable (not provided). Connect the DisplayPort signal cable to the DisplayPort connector on the rear of the monitor and the other end to the DisplayPort connector on the computer.
- 3. Connect one end of the provided USB cable to the USB hub connector on the rear panel of the computer, and the other end to the upstream USB connector on the monitor.
- 4. Connect one end of the power cable to the AC power connector on the back of the monitor, and the other end to an electrical wall outlet.



Figure 2-3 Connecting the Cables

MARNING! 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.

NOTE: An optional speaker bar that mounts on to the monitor is available from HP.

Front Panel Controls



Table 2-1 Monitor Front Panel Controls

| Cont | rol | | Function |
|------|---------|-------------|---|
| 1 | E | Menu | Opens, selects or exits the OSD menu. |
| 2 | - | Minus | If the OSD menu is on, press to navigate backward through the OSD menu and decrease adjustment levels. |
| 3 | +source | Plus/source | If the OSD menu is on, press to navigate forward through the OSD menu and increase adjustment levels. |
| | | | If the OSD menu is inactive, press to activate the source button that chooses the video signal input (VGA, DVI, or DisplayPort) |
| 4 | OK auto | OK/auto | If the OSD menu is on, press to select the highlighted menu item. |
| | | | If the OSD menu is inactive, press to activate the auto adjustment feature to optimize the screen image. |
| 5 | | Power LED | Green = Fully powered. |
| | | | Amber = Sleep mode. |
| | | | Flashing Amber = Sleep Timer mode. |
| 6 | ዓ | Power | Turns the monitor on or off. |

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

Adjusting the Monitor

NOTE: Your monitor model may look different than the model in the following illustrations.

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

Figure 2-4 Tilting the Monitor



Swivel the monitor to the left or right for the best viewing angle.
 Figure 2-5 Swiveling the Monitor



- 3. Adjust the monitor's height so that it is parallel to your eye height for a comfortable viewing position.
- **NOTE:** When the monitor is unfolded for the first time, the display head is locked from adjusting to a full-height position. To adjust the display head to full height, press down on the display head to unlock it then pull up on the display head to raise it to the full-height position.



Figure 2-6 Adjusting the Height

- 4. Pivot the monitor from landscape to portrait orientation viewing to adapt to your application.
 - **a.** Adjust the monitor to the full height position and tilt the monitor back to the full tilt position (1).
 - **b.** Pivot the monitor clockwise 90° from landscape to portrait orientation (2).
 - **CAUTION:** If the monitor is not in full height and full tilt position when pivoting, the bottom right corner of the monitor panel will come in contact with the base and potentially cause damage to the monitor.

Figure 2-7 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, access the OSD menu by pressing the Menu button on the front panel, select **OSD Control**, then select **Rotate OSD**.

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

* A prolonged period of time is 12 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.

NOTE: You can disable the power LED in the OSD menu. Press the Menu button on the front of the monitor, then select **Management > Bezel Power LED > Off**.

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

The monitor automatically scans the signal inputs for an active input and uses that input for the display. If two or more inputs are active, the monitor will display the default input source. If the default source is not one of the active inputs, then the monitor will display the highest ranking priority input in the following order: DisplayPort, DVI, then VGA. You can change the default source in the OSD by pressing the front panel menu button and selecting **Source Control > Default Source**.

Connecting USB Devices

USB connectors are used to connect devices such as a digital camera, USB keyboard, or USB mouse. Two USB connectors are located on the side panel of the monitor.

NOTE: You must connect the USB hub cable from the monitor to the computer to enable the USB 2.0 ports on the monitor. Refer to Step 3 in <u>Connecting the Cables on page 5</u>.

Figure 2-8 Connecting USB Devices



Removing the Monitor Pedestal Base

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

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 all USB cables connected to the monitor.

- 1. Disconnect and remove the signal, power, and USB cables from the monitor.
- 2. Lay the monitor face down on a flat surface covered by a clean, dry cloth.
- 3. Pivot the base 45 degrees clockwise and remove the screw from the back of the monitor, then pivot the base 45 degrees counter-clockwise and remove the other screw from the back of the monitor.

Figure 2-9 Removing the Pedestal Base Screws



4. Rotate the base of the monitor up (1) then pull it back (2) to unhinge the tabs on the monitor stand from the slots in the monitor.

Figure 2-10 Removing the Pedestal Base



Mounting the Monitor

The monitor panel can be attached to a wall, swing arm, or other mounting fixture.

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

1. Remove the monitor panel from the pedestal base. Refer to <u>Removing the Monitor Pedestal</u> <u>Base on page 11</u> 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. Longer screws must 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. To attach the monitor to a swing arm, insert four 10mm screws through the holes on the swing arm plate and into the mounting holes on the monitor.

Figure 2-11 Mounting the Monitor



To attach the monitor to other mounting fixtures, follow the instructions included with the mounting fixture to ensure that the monitor is safely attached.

3. Reconnect the cables to the monitor panel.

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 2-12 Locating the Rating Labels



Installing a Cable Lock

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



3 Finding More Information

Reference Guides

Refer to the *HP LCD Monitors Reference Guide* included on the CD with your monitor for additional information on:

- Optimizing monitor performance
- Safety and maintenance guidelines
- Installing software from the CD
- Using the OSD menu
- Downloading software from the Web
- Agency regulatory information
- Recommended solution to common problems

For information on theft deterrence, refer to the *HP Display Assistant User Guide* included on the CD with your monitor.

Product Support

For additional information on using and adjusting your monitor, go to <u>http://www.hp.com/support</u>. Select your country or region, select **Product Support & Troubleshooting**, and then enter your monitor model in the SEARCH window.

A 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.

LA1905wl/LA1905wg Models

| Display | 48.1 cm wide screen | 19 inches wide screen |
|--|----------------------------------|-----------------------|
| Туре | TFT LCD | |
| Viewable Image Size | 48.1 cm diagonal | 19-inch diagonal |
| Tilt | -5 to 30° | |
| Swivel | -170 to 170° | |
| Dimensions (include base) | | |
| Height (highest position) | 42.95 cm | 16.91 inches |
| Height (lowest position) | 37.15 cm | 14.63 inches |
| Depth | 24.48 cm | 9.64 inches |
| Width | 44.46 cm | 17.5 inches |
| Maximum Graphic Resolution | 1440 x 900 (60 Hz) analog input | |
| | 1440 x 900 (60 Hz) digital input | |
| Optimum Graphic Resolution | 1440 x 900 (60 Hz) analog input | |
| | 1440 x 900 (60 Hz) digital input | |
| Text Mode | 720 × 400 | |
| Dot Pitch | 0.284 (H) × 0.284 (W) mm | |
| Pixels Per Inch | 89.4 PPI | |
| Horizontal Frequency | 24 to 83 kHz | |
| Vertical Refresh Rate | 50 to 76 Hz | |
| Environmental Requirements Temperature | | |
| Operating Temperature | 5 to 35° C | 41 to 95° F |
| Storage Temperature | -20 to 60° C | -4 to 140° F |
| Relative Humidity | 20 to 80% | |
| Power Source | 100 – 240 VAC 50/60 Hz | |
| | | |

Table A-1 LA1905wl/LA1905wg Specifications

| Altitude: | | |
|----------------|---|------------------|
| Operating | 0 to 5000 m | 0 to 16,400 feet |
| Storage | 0 to 12192 m | 0 to 40,000 feet |
| Input Terminal | One VGA connector with cable included; one DVI connector with cable included; one DisplayPort connector (cable not included) | |

LA2205wg Model

| Display | 55.9 cm wide screen | 22 inches wide screer |
|--|-----------------------------------|-----------------------|
| Туре | TFT LCD | |
| Viewable Image Size | 55.9 cm diagonal | 22-inch diagonal |
| Tilt | -5 to 30° | |
| Swivel | -170 to 170° | |
| Maximum Weight (Unpacked) | 7.25 kg | 15.98 lbs. |
| Dimensions (include base) | | |
| Height (highest position) | 45.22 cm | 17.80 inches |
| Height (lowest position) | 37.35 cm | 14.70 inches |
| Depth | 25.49 cm | 10.04 inches |
| Width | 51.12 cm | 20.13 inches |
| Maximum Graphic Resolution | 1680 x 1050 (60 Hz) analog input | |
| | 1680 x 1050 (60 Hz) digital input | |
| Optimum Graphic Resolution | 1680 x 1050 (60 Hz) analog input | |
| | 1680 x 1050 (60 Hz) digital input | |
| Text Mode | 720 × 400 | |
| Dot Pitch | 0.282 (H) × 0.282 (W) mm | |
| Pixels Per Inch | 90.1 PPI | |
| Horizontal Frequency | 24 to 83 kHz | |
| Vertical Refresh Rate | 50 to 76 Hz | |
| Environmental Requirements Temperature | | |
| Operating Temperature | 5 to 35° C | 41 to 95° F |
| Storage Temperature | -20 to 60° C | -4 to 140° F |
| Relative Humidity | 20 to 80% | |
| Power Source | 100 – 240 VAC, 50/60 Hz | |

| Altitude: | | |
|-----------------------------|---|------------------|
| Operating | 0 to 5000 m | 0 to 16,400 feet |
| Storage | 0 to 12192 m | 0 to 40,000 feet |
| Measured Power Consumption: | | |
| Full Power | 31 watts | |
| Typical Settings | 23 watts | |
| Energy Star Test Methods | 21.4 watts | |
| Sleep | 0.55 watts | |
| Switch Off | 0.48 watts | |
| Input Terminal | One VGA connector with cable included; one DVI connector with cable included; one DisplayPort connector (cable not included) | |

Table A-2 LA2205wg Specifications (continued)

LA2205wl/LA22f Models

| Table A-5 EA2205WI/EA221 Specific | cations | | |
|-----------------------------------|-----------------------------------|-----------------------|--|
| Display | 55.9 cm wide screen | 22 inches wide screen | |
| Туре | TFT LCD | | |
| Viewable Image Size | 55.9 cm diagonal | 22-inch diagonal | |
| Tilt | -5 to 30° | | |
| Swivel | -170 to 170° | | |
| Maximum Weight (Unpacked) | 6.6 kg | 14.6 lbs. | |
| Dimensions (include base) | | | |
| Height (highest position) | 45.22 cm | 17.80 inches | |
| Height (lowest position) | 37.35 cm | 14.70 inches | |
| Depth | 25.49 cm | 10.04 inches | |
| Width | 51.12 cm | 20.13 inches | |
| Maximum Graphic Resolution | 1680 x 1050 (60 Hz) analog inpu | ut | |
| | 1680 x 1050 (60 Hz) digital input | t | |
| Optimum Graphic Resolution | 1680 x 1050 (60 Hz) analog inpl | ut | |
| | 1680 x 1050 (60 Hz) digital input | t | |
| Text Mode | 720 × 400 | 720 × 400 | |
| Dot Pitch | 0.282 (H) × 0.282 (W) mm | | |
| Pixels Per Inch | 90.1 PPI | | |
| Horizontal Frequency | 24 to 83 kHz | | |
| Vertical Refresh Rate | 48 to 76 Hz | | |
| | | | |

Table A-3 LA2205wl/LA22f Specifications

| Environmental Requirements Temperature | | | |
|--|--|-------------------------|--|
| Operating Temperature | 5 to 35° C | 41 to 95° F | |
| Storage Temperature | -20 to 60° C | -4 to 140° F | |
| Relative Humidity | 20 to 80% | | |
| Power Source | 100 – 240 VAC, 50/60 Hz | 100 – 240 VAC, 50/60 Hz | |
| Altitude: | | | |
| Operating | 0 to 5000 m | 0 to 16,400 feet | |
| Storage | 0 to 12192 m | 0 to 40,000 feet | |
| Measured Power Consumption: | | | |
| Full Power | 34.6 watts | | |
| Typical Settings | 27.8 watts | | |
| Energy Star Test Methods | 20.5 watts | | |
| Sleep | 0.55 watts | | |
| Switch Off | 0.42 watt | | |
| Input Terminal | One VGA connector with cal one DVI connector with cabl one DisplayPort connector (o included) | e included; | |

LA2405wg Model

Table A-4 LA2405wg Specifications

| Display | 60.96 cm wide screen | 24 inches wide screen |
|----------------------------|---|-----------------------|
| Туре | TFT LCD | |
| Viewable Image Size | 60.96 cm diagonal | 24-inch diagonal |
| Tilt | -5 to 30° | |
| Swivel | -170 to 170° | |
| Maximum Weight (Unpacked) | 7.9 kg | 17.42 lbs. |
| Dimensions (include base) | | |
| Height (highest position) | 48.75 cm | 19.19 inches |
| Height (lowest position) | 38.05 cm | 14.98 inches |
| Depth | 27.84 cm | 10.96 inches |
| Width | 55.68 cm | 21.92 inches |
| Maximum Graphic Resolution | 1920 x 1200 (60 Hz) analog input | |
| | 1920 x 1200 (60 Hz) DisplayPort digital input | |
| | 1920 x 1200 (60 Hz) DVI digital input (reduced blanking) | |

| U 1 (| , | |
|--|---|------------------|
| Optimum Graphic Resolution | 1920 x 1200 (60 Hz) analog input | |
| | 1920 x 1200 (60 Hz) digital input | |
| Text Mode | 720 × 400 | |
| Dot Pitch | 0.270 (H) x 0.270 (W) mm | |
| Pixels Per Inch | 94 PPI | |
| Horizontal Frequency | 24 to 76 kHz | |
| Vertical Refresh Rate | 50 to 60 Hz | |
| Environmental Requirements Temperature | | |
| Operating Temperature | 5 to 35° C | 41 to 95° F |
| Storage Temperature | -20 to 60° C | -4 to 140° F |
| Relative Humidity | 20 to 80% | |
| Power Source | 100 – 265 VAC, 50/60 Hz | |
| Altitude: | | |
| Operating | 0 to 5000 m | 0 to 16,400 feet |
| Storage | 0 to 12192 m 0 to 40,000 feet | |
| Measured Power Consumption: | | |
| Full Power | 48.4 watts | |
| Typical Settings | 42.1 watts | |
| Energy Star Test Methods | 34.5 watts | |
| Sleep | .86 watts | |
| Switch Off | .51 watts | |
| Input Terminal | One VGA connector with cable included; one DVI connector with cable included; one DisplayPort connector (cable not included) | |
| | | |

LA2405x Model

Table A-5 LA2405x Specifications

| Display | 60.96 cm wide screen | 24 inches wide screen |
|---------------------------|----------------------|-----------------------|
| Туре | TFT LCD | |
| Viewable Image Size | 60.96 cm diagonal | 24-inch diagonal |
| Tilt | -5 to 30° | |
| Swivel | -170 to 170° | |
| Maximum Weight (Unpacked) | 6.8 kg | 14.99 lbs. |

Table A-5 LA2405x Specifications (continued)

| Dimensions (include base) | | | |
|--|---|------------------|--|
| Height (highest position) | 48.75 cm | 19.19 inches | |
| Height (lowest position) | 38.05 cm | 14.98 inches | |
| Depth | 27.84 cm | 10.96 inches | |
| Width | 55.68 cm | 21.92 inches | |
| Maximum Graphic Resolution | 1920 x 1200 (60 Hz) analog input | | |
| | 1920 x 1200 (60 Hz) DisplayPort digital input | | |
| | 1920 x 1200 (60 Hz) DVI digital input (reduced blanking) | | |
| Optimum Graphic Resolution | 1920 x 1200 (60 Hz) analog input | | |
| | 1920 x 1200 (60 Hz) digital input | | |
| Text Mode | 720 × 400 | | |
| Dot Pitch | 0.270 (H) x 0.270 (W) mm | | |
| Pixels Per Inch | 94 PPI | | |
| Horizontal Frequency | 24 to 76 kHz | | |
| Vertical Refresh Rate | 50 to 60 Hz | | |
| Environmental Requirements Temperature | | | |
| Operating Temperature | 5 to 35° C | 41 to 95° F | |
| Storage Temperature | -20 to 60° C | -4 to 140° F | |
| Relative Humidity | 20 to 80% | | |
| Power Source | 100 – 265 VAC, 50/60 Hz | | |
| Altitude: | | | |
| Operating | 0 to 5000 m | 0 to 16,400 feet | |
| Storage | 0 to 12192 m | 0 to 40,000 feet | |
| Measured Power Consumption: | | | |
| Full Power | 35.3 watts | | |
| Typical Settings | 24 watts | | |
| Energy Star Test Methods | 23.2 watts | | |
| Sleep | .42 watts | | |
| Switch Off | .39 watts | | |
| Input Terminal | One VGA connector with cable included; one DVI connector with cable included; one DisplayPort connector (cable not included) | | |

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.

LA1905wl and LA1905wg Models

| Preset | Pixel Format | Horz Freq (kHz) | Vert Freq (Hz) |
|--------|--------------|-----------------|----------------|
| 1 | 640 × 480 | 31.469 | 59.940 |
| 2 | 720 × 400 | 31.469 | 70.087 |
| 3 | 800 × 600 | 37.879 | 60.317 |
| 4 | 1024 × 768 | 48.363 | 60.004 |
| 5 | 1280 × 960 | 60.00 | 60.00 |
| 6 | 1280 × 1024 | 63.981 | 60.02 |
| 7 | 1440 × 900 | 55.94 | 59.89 |

Table A-6 Factory Preset Modes

LA2205wg, LA2205wl, and LA22f Models

| Table A-7 Factory Preset Modes | | | |
|--------------------------------|--------------|-----------------|----------------|
| Preset | Pixel Format | Horz Freq (kHz) | Vert Freq (Hz) |
| 1 | 640 × 480 | 31.469 | 59.940 |
| 2 | 720 × 400 | 31.469 | 70.087 |
| 3 | 800 × 600 | 37.879 | 60.317 |
| 4 | 1024 × 768 | 48.363 | 60.004 |
| 5 | 1280 × 960 | 60.00 | 60.00 |
| 6 | 1280 × 1024 | 63.981 | 60.02 |
| 7 | 1440 × 900 | 55.935 | 59.887 |
| 8 | 1600 × 1200 | 75.00 | 60.00 |

LA2405wg and LA2405x Models

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Table A-8 Factory Preset Modes

1680 × 1050

| Preset | Pixel Format | Horz Freq (kHz) | Vert Freq (Hz) |
|--------|--------------|-----------------|----------------|
| 1 | 640 × 480 | 31.469 | 59.940 |
| 2* | 720 × 400* | 31.469* | 70.087* |
| 3 | 800 × 600 | 37.879 | 60.317 |

65.29

60.00

| Table A-8 | Factory | Preset Modes | (continued) |
|-----------|---------|---------------------|-------------|
|-----------|---------|---------------------|-------------|

| - | | | |
|----|-------------|--------|--------|
| 4 | 1024 × 768 | 48.363 | 60.004 |
| 5 | 1280 × 960 | 60.00 | 60.00 |
| 6 | 1280 × 1024 | 63.981 | 60.02 |
| 7 | 1440 × 900 | 55.935 | 59.887 |
| 8 | 1600 × 1200 | 75.00 | 60.00 |
| 9 | 1680 × 1050 | 65.29 | 60.00 |
| 10 | 1920 × 1080 | 67.5 | 60.00 |
| 11 | 1920 × 1200 | 74.038 | 59.95 |
| 12 | 1920 × 1200 | 74.556 | 60.00 |
| | | | |

Preset 2 not supported on LA2405x model.

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.

It 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 recognized the new mode just as it does a preset mode. In addition to the factory preset modes, there are 15 (LA1905wg model), 20 (LA2205wg and LA22f models), or 25 (LA2405wg and LA2405x models) 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 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.