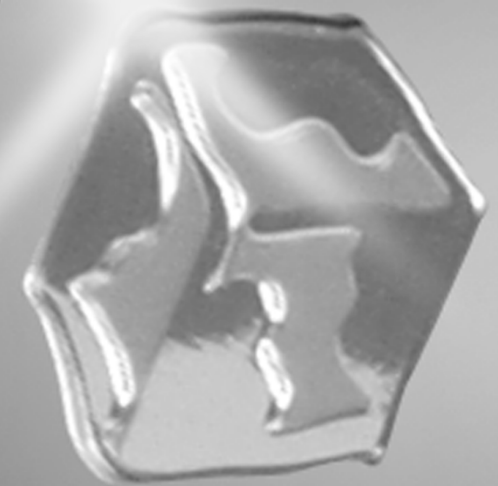


# **APPENDIX G :**

## **USER'S MANUAL**



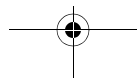
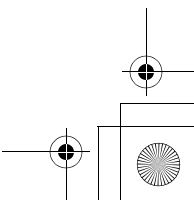
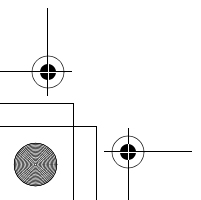
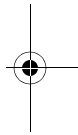
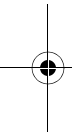
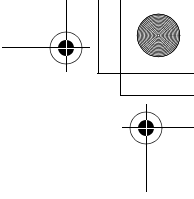
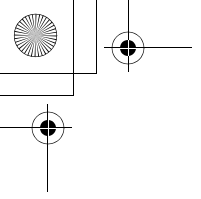
your Gateway computer  
FPD 1830 monitor user's guide



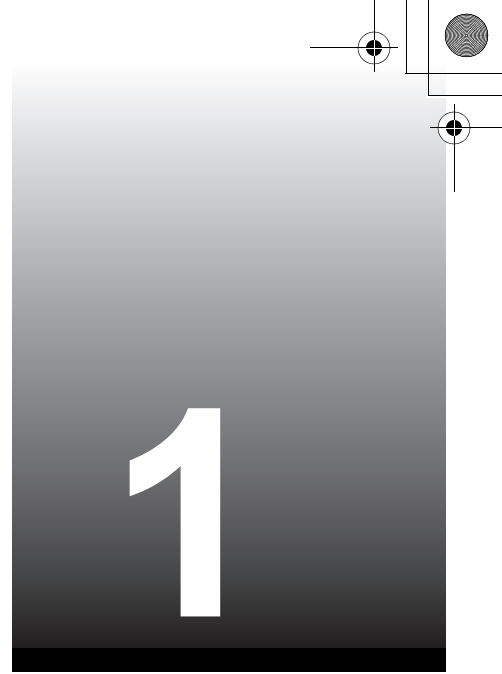
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# Using Your Flat Panel Monitor



The FPD1830 Flat Panel Display is high-resolution LCD color monitor with:

- 1280 × 1024 maximum resolution
- Over 16 million colors
- Excellent contrast and legibility
- Space-saving and lightweight design
- Reduced power usage

# Installing the monitor



To install the monitor:

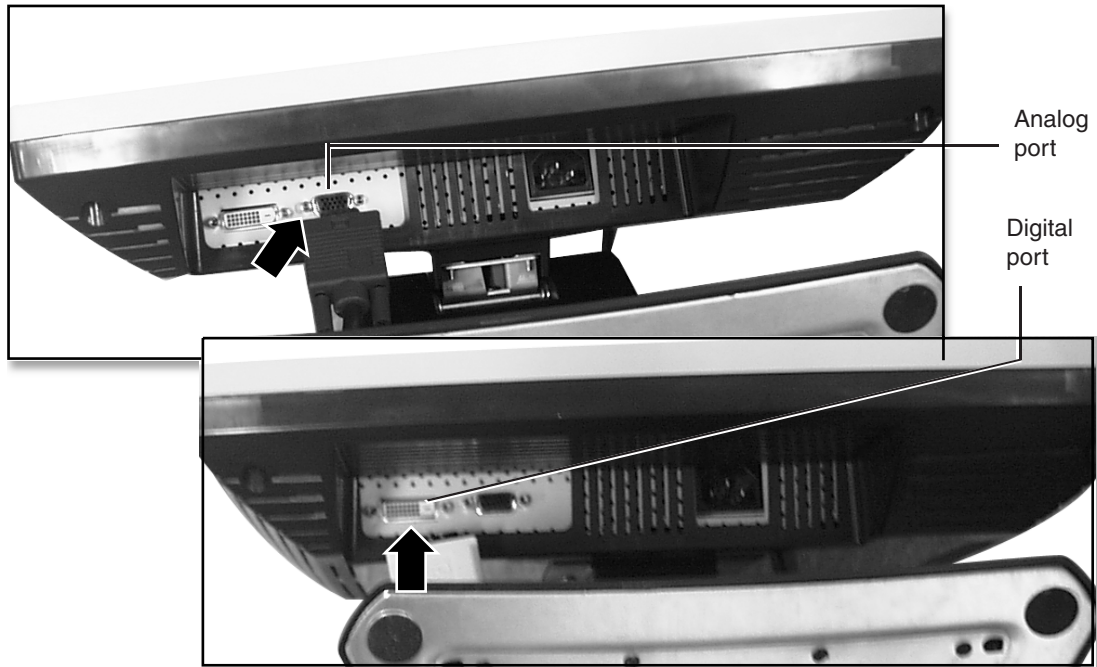
- 1** Position the computer and monitor so you can easily reach the back panel of each.
- 2** Set the monitor upright, then feed the power cable and the attached video cable(analog) through the hole in the stand.



- 3** Lay the monitor down on its back.

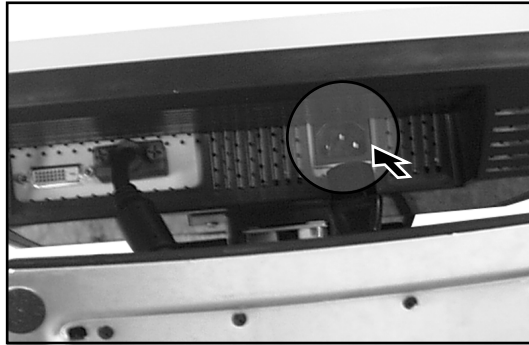


- 4 Connect one end of the video cable to the matching video port on the underside of the monitor. If your computer has both a digital video port and an analog video port, we recommend using the digital video connection.

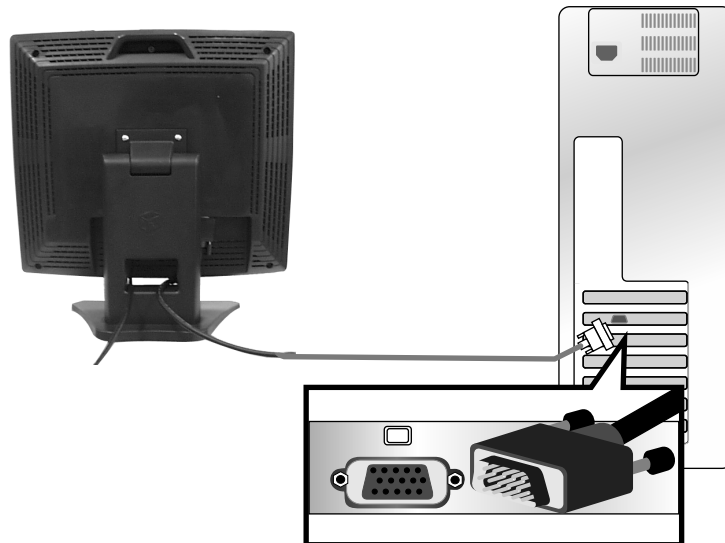




- 5 Connect the power cord to the power connector on the underside of the monitor.



- 6 Return the monitor to its upright position.
- 7 Make sure your computer is turned off, then connect the end of the attached video cable to the matching video port on the back of your computer. (analog video connectors shown)



- 8** Plug the other end of the power cord into a properly grounded electrical outlet.

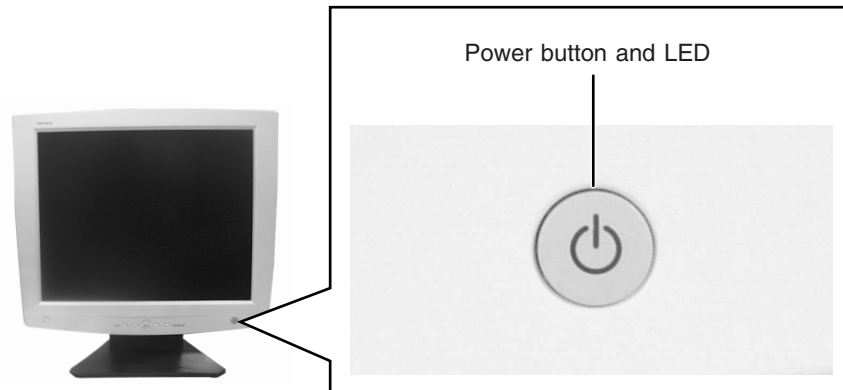


# Starting the monitor



To start the monitor:

- 1 Press the power button once. The LED on the button turns on.



- 2 Turn on the computer.
- 3 After the computer is running, the LED on the power button should be green. Allow about 10 seconds for the video signal to appear. If the power LED is not green or you do not see a video signal, check the connections. For more troubleshooting information, see “Troubleshooting” on page 15.
- 4 Adjust the tilt of the panel for the best viewing angle.
- 5 Adjust the controls to get the best picture. If your monitor uses an analog connection, press the  $\Delta$  button to automatically adjust your display image to the ideal settings. Adjust other display settings by using the On-Screen Display (OSD). For more information, see “Adjusting display settings” on page 7.

## Important



When adjusting your display settings, **always** press the  $\Delta$  button before entering the OSD. This will automatically adjust your display image to the ideal settings for the current screen resolution size (display mode).

The optimal display mode is 1280 x 1024.

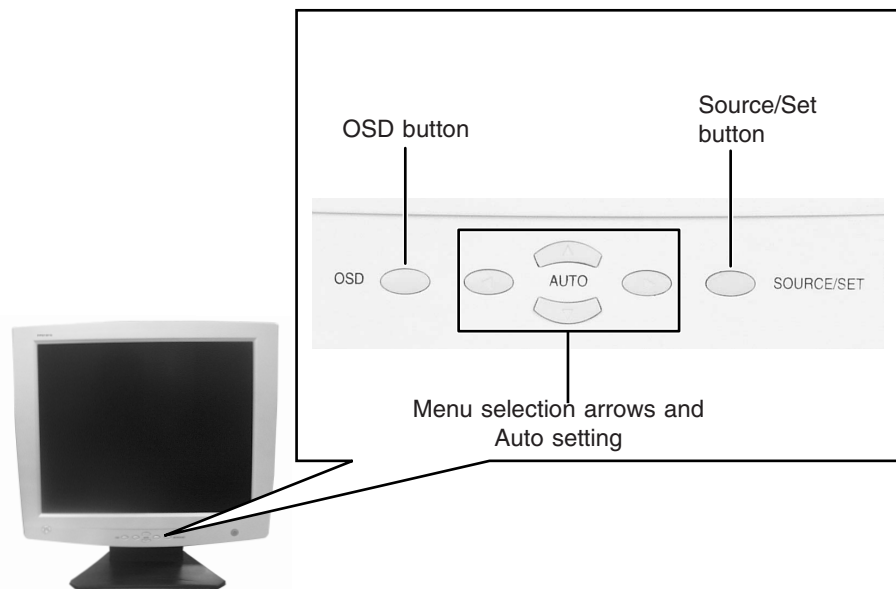


# Adjusting display settings

You can adjust your display image by using external controls (located on the monitor itself) and software controls (accessible in Windows).


## External controls

This monitor features an On-Screen Display (OSD) that lets you adjust and save contrast, brightness, and other settings for the display. The monitor saves changes you make to the settings, even if you turn off the monitor.



- **OSD.** Press to view the OSD. Press again to exit.
- **Arrows.**  
 OSD active: Press to select or adjust OSD options.  
 OSD inactive: Press ◀ and ▶ to adjust the contrast, and press ▶ once then ▲ and ▼ to adjust the brightness. If your monitor is connected to an analog video port, press ▲ (**Auto**) to automatically optimize your display's position, clock, and phase.
- **Source/Set.**  
 OSD active: Press to enter a selection in the OSD.  
 OSD inactive: Press the **Source/Set** button to re-detect the video source.

## OSD options

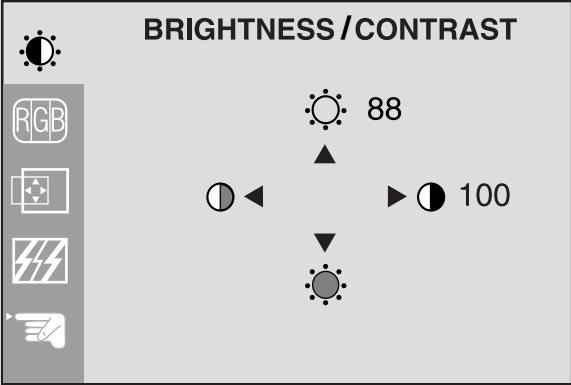
 To adjust the OSD settings:


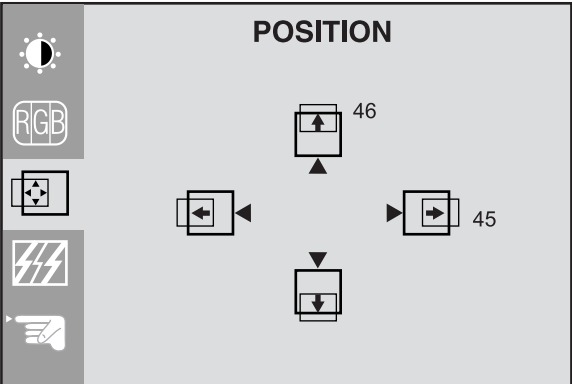
- 1 Press the **OSD** button. The OSD menu opens.
- 2 Use the  $\Delta$  and  $\nabla$  buttons to highlight a control, then press the **Source/Set** button.
- 3 Use the  $\Delta$   $\nabla$   $\triangleleft$   $\triangleright$  buttons to adjust the control to the desired level.
- 4 When you have finished making all selections, press the **OSD** button to exit the OSD.



### OSD menus

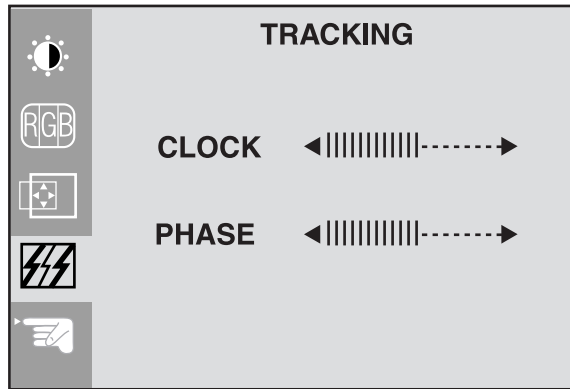
You can access any of these menus in the OSD:

OSD Adjust	Description
	<p><b>Brightness.</b> Press the <math>\Delta</math> and <math>\nabla</math> buttons to adjust the brightness of the screen. Maximize the life of your monitor by using the lowest brightness setting you are comfortable with.</p> <p><b>Contrast.</b> Press the <math>\triangleleft</math> and <math>\triangleright</math> buttons to adjust the contrast of the screen.</p>

OSD Adjust	Description
	<p>This menu cannot be accessed (and is not needed) if your monitor is connected to a digital video port.</p> <p><b>Preset.</b> Adjust to change the color temperature. 9300K is bluish white. 6500K is reddish white.</p> <p><b>Red, Green, Blue.</b> Adjust to set your own color levels.</p>
	<p>This menu cannot be accessed (and is not needed) if your monitor is connected to a digital video port.</p> <p><b>Vertical position.</b> Press the <math>\Delta</math> and <math>\nabla</math> buttons to move the image up and down.</p> <p><b>Horizontal position.</b> Press the <math>\triangleleft</math> and <math>\triangleright</math> buttons to move the image left and right.</p> <p>The Auto function configures the vertical and horizontal position for you. For more information on the Auto function, see "External controls" on page 7.</p>

OSD Adjust

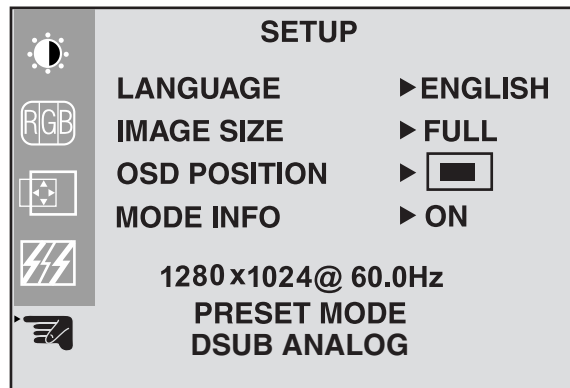
Description



This menu cannot be accessed (and is not needed) if your monitor is connected to a digital video port.

**Clock.** Adjust to minimize any vertical bars or stripes visible on the screen background. The horizontal screen size will also change.

**Phase.** Adjust to remove any horizontal distortion, and clear or sharpen the image of characters.



**Language.** Change the OSD language display setting.

**Image Size.** Adjust to display a smaller-than-native resolution (such as 640 x 480 on a monitor that supports 1280 x 1024) at a 1:1 ratio (resulting in a black border around the image) or at full size to fill the display (resulting in a slightly "fuzzy" image). The native screen resolution is 1280 x 1024.

**OSD Position.** Adjust the OSD window position on the screen.

**Mode Info.** When changing screen resolution settings (for example, size or number of colors), display information is briefly shown on the screen.

## Software controls

You can adjust the desktop settings such as the color depth and screen area resolution using the Display Properties window.



To change the color depth and screen area resolution:

- 1** Click **Start**, then select **Settings**, then **Control Panel**. The Control Panel window opens.
- 2** Click/Double-click the **Display** icon. The Display Properties window opens.
- 3** Click the **Settings** tab.
- 4** Select the color depth (number of colors) used for the screen display from the **Colors** list. Choosing the highest number of colors available in the menu gives the best results.
- 5** Select the screen area (number of pixels) used for the horizontal and vertical screen display by dragging the Screen area slider. The display's best resolution is 1280 × 1024.
- 6** Click **OK**. The settings are updated.





## Video modes

Your monitor supports several video modes.

- Best display mode for the 18.1-inch panel is 1280x1024.

The supported video modes are:

	Display Modes (Resolution)	Horizontal Frequency	Vertical Frequency
1	640 × 480	31.47 kHz	60 Hz
2	640 × 480	37.5 kHz	75 Hz
3	720 × 400	31.47 kHz	70 Hz
4	800 × 600	37.88 kHz	60 Hz
5	800 × 600	46.88 kHz	75 Hz
6	1024 × 768	48.36 kHz	60 Hz
7	1024 × 768	60.02 kHz	75 Hz
8	1280 × 1024 (best for 18.1-inch panel)	63.9 kHz	60 Hz

If you do not use the best mode for your monitor, the display may look slightly “fuzzy” or may have a black border around the edges.

# Power management

## ENERGY STAR

As an ENERGY STAR® Partner, Gateway has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

This monitor complies with the EPA's International ENERGY STAR Program, which is a program designed to encourage manufacturers of computer equipment to build circuitry into their products to reduce energy consumption during time of non-use.

## Energy declaration

When connected to a computer that supports the VESA Display Power Management Signaling (DPMS) Protocol, this monitor can conserve significant energy by reducing power consumption during periods of non-use. When the computer goes into the energy saving mode, the monitor will then enter the Active Off mode (different from total shut down). In the Active Off mode the Power LED will still show amber.

By following these conventions the power can be reduced to the following levels:

VESA state	LED indicator	Power Consumption
On	Green	<55 W
Active Off	Amber	<2 W

To “wake” the monitor when it is in Active Off mode, move your mouse or press any keyboard key.

You can change the period of time after which the monitor enters these low power states by accessing the power management options in the Control Panel.

# Maintenance

To keep your monitor in optimal working order:

- Do not block the ventilation holes.
- Do not expose the monitor to rain or use near water.
- Keep the monitor away from radiators or heat vents.
- Keep the monitor out of direct sunlight.

Clean the monitor using a soft cloth lightly moistened with water only. Wipe the cabinet, screen, and controls.

**Caution**



Do not use any type of abrasive pad or glass cleaner. You will permanently scratch the LCD panel.

# Troubleshooting

If you have problems with your monitor, the information in this troubleshooting section may help you solve them.

## Important



Make sure that the monitor has warmed up for approximately 30 minutes before making any judgments about the picture quality.

## No picture

- Make sure the power cord is properly connected to both the back of the monitor and the wall outlet.
- Make sure the video cable is securely connected to the back of the monitor and computer.
- Make sure the monitor power button is turned on.
- If the power saving indicator is orange:
  - Make sure that the computer is turned on.
  - Move the mouse or press any key on the keyboard to bring the monitor out of active off mode.
  - Check the video port and the end of the video cable for any pins that might be bent or pushed in.
  - Make sure that the video cable is not damaged.
  - Restart the computer with the monitor turned on.
- Perform a monitor self-test by turning off your monitor and unplugging the video cable from the back of the computer. Turn the monitor back on and wait for ten seconds. If the monitor is functioning properly, a self-diagnostic screen appears.

## Picture is scrambled

If your picture is scrambled, does not look right, or you see an “Out of range” message, reset your monitor to its default video mode and resolution settings. For more information, see “Adjusting display settings” on page 7.



To reset your monitor to its default settings:

- 1 Restart the system, then press and hold CTRL while it starts up.
- 2 Select **Safe mode**. Windows starts in a “safe mode,” which means that most drivers are not loaded.
- 3 Click **Start**, then select **Settings**, then **Control Panel**. The Control Panel window opens.
- 4 Click/Double-click the **Display** icon. The Display Properties dialog box opens.
- 5 Click the **Settings** tab.
- 6 Click **Advanced**. The Advanced Display Properties dialog box opens.
- 7 Click the **Monitor** tab.
- 8 Click **Change**. The Select Device window opens.
- 9 Select **Plug and Play monitor (VESA DDC)** by following the on-screen instructions.
- 10 Restart Windows.



## Display colors are wrong

- If your monitor is connected to an analog video port, press the  $\Delta$  button to automatically adjust your display image to the ideal settings.
- Check the video port and the end of the video cable for any pins that might be bent or pushed in.
- Make sure the video cable is securely connected to the back of the monitor and computer.
- Make sure that the video cable is not damaged.
- Restart the system with the monitor turned on.

## Picture has shadows or “ghosts”

- If your monitor is connected to an analog video port, press the  $\Delta$  button to automatically adjust your display image to the ideal settings.
- Remove any extension cables or switchboxes.
- Check the video port and the end of the video cable for any pins that might be bent or pushed in.
- Make sure the video cable is securely connected to the back of the monitor and computer.
- Make sure that the video cable is not damaged.

## Color is not uniform

- Make sure the monitor warms up for at least 30 minutes before making a final judgment about color uniformity or brightness.
- If your monitor is connected to an analog video port, press the  $\Delta$  button to automatically adjust your display image to the ideal settings.

## Image is not sized or centered properly

- If your monitor is connected to an analog video port, press the  $\Delta$  button to automatically adjust your display image to the ideal settings.
- Use the position controls to adjust the image. For instructions on how to change your display settings, see “Adjusting display settings” on page 7.

## Image cannot be adjusted full screen

Some video modes used by your monitor produce images that cannot be adjusted all the way out to the bezel edge (the edge where the screen glass and monitor casing meet).

This condition does not indicate that the monitor is defective.

# Specifications

Specifications are subject to change without notice or obligation.

<b>Display</b>	18.1-inch flat panel active-matrix TFT (Thin Film Transistor) LCD
<b>Optimal resolution</b>	1280 × 1024
<b>Display colors</b>	Over 16 million colors
<b>Power input</b>	AC 100-240V 50/60Hz 1.0A
<b>Power consumption</b>	Normal operation: <55 W Active off operation: <2 W at AC 115V
<b>Dimensions(WxHxD)</b>	17.40 × 16.89 × 8.07 inches (44.20 × 42.90 × 20.50 cm)
<b>Power Management</b>	Meets EPA ENERGY STAR <sup>®</sup> and VESA DPMS requirements
<b>Certifications</b>	UL, cUL, NOM, EPA, and FCC Class B

Many products for Gateway and its subsidiaries are custom engineered by our suppliers to Gateway specifications and may vary from similarly marketed products.

# Safety, Regulatory, and Legal Information

# A

## Important safety information

Your Gateway system is designed and tested to meet the latest standards for safety of information technology equipment. However, to ensure safe use of this product, it is important that the safety instructions marked on the product and in the documentation are followed.

### Warning



Always follow these instructions to help guard against personal injury and damage to your Gateway system.

### Setting up your system

- Read and follow all instructions marked on the product and in the documentation before you operate your system. Retain all safety and operating instructions for future use.
- Do not use this product near water or a heat source such as a radiator.
- Set up the system on a stable work surface.
- The product should only be operated from the type of power source indicated on the rating label.
- If your product has a voltage selector switch, make sure that the switch is in the proper position for your area. The voltage selector switch is set at the factory to the correct voltage.
- Openings in the monitor case are provided for ventilation. Do not block or cover these openings. Make sure you provide adequate space, at least 6 inches (15 cm), around the system for ventilation when you set up your work area. Never insert objects of any kind into the monitor ventilation openings.
- Some products are equipped with a three-wire power cord to make sure that the product is properly grounded when in use. The plug on this cord will only fit into a grounding-type outlet. This is a safety feature. If you are unable to insert the plug into an outlet, contact an electrician to install the appropriate outlet.
- If you use an extension cord with this system, make sure that the total ampere rating on the products plugged into the extension cord does not exceed the extension cord ampere rating.



- If your system is fitted with a TV Tuner, cable, or satellite receiver card, make sure that the antenna or cable system is electrically grounded to provide some protection against voltage surges and buildup of static charges.

### Care during use

- Do not walk on the power cord or allow anything to rest on it.
- Do not spill anything on the system. The best way to avoid spills is to avoid eating and drinking near your system.
- When the monitor is turned off, a small amount of electrical current still flows through the monitor. To avoid electrical shock, always unplug all power cables and modem cables from the wall outlets before cleaning the system.
- Unplug the system from the wall outlet and refer servicing to qualified personnel if:
  - The power cord or plug is damaged.
  - Liquid has been spilled into the system.
  - The system does not operate properly when the operating instructions are followed.
  - The system was dropped or the cabinet is damaged.
  - The system performance changes.

#### Warning



To prevent electric shock, never remove the cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

### Replacement parts and accessories

Use only replacement parts and accessories recommended by Gateway.

#### Important



Do not use Gateway products in areas classified as hazardous locations. Such areas include patient care areas of medical and dental facilities, oxygen-laden environments, or industrial facilities.

# Regulatory compliance statements

## United States users

### FCC Part 15

This device 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 or television reception. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio and 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 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/TV technician for help.

**Compliance Accessories:** The accessories associated with this equipment are: shielded video cable. These accessories are required to be used in order to ensure compliance with FCC rules.

### FCC declaration of conformity

**Responsible party:**

Gateway Companies, Inc.  
610 Gateway Drive, North Sioux City, SD 57049  
(605) 232-2000 Fax: (605) 232-2023

This device complies with Part 15 of the FCC Rules. Operation of this device is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

#### Caution



Changes or modifications not expressly approved by Gateway could void the FCC compliance and negate your authority to operate the product.

## Canadian users

### ICES-003

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of Industry Canada.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de Classe B prescrites dans le règlement sur le brouillage radioélectrique édicté par Industrie Canada.

## EPA ENERGY STAR



As an ENERGY STAR<sup>®</sup> Partner, Gateway has determined that this product meets the ENERGY STAR guidelines for energy efficiency when used with a computer equipped with a Display Power Management System.

# Notices

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4545 Town Centre Court  
San Diego, CA 92121 USA

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In the interest of continued product development, Gateway reserves the right to make improvements in this manual and the products it describes at any time, without notices or obligation.

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