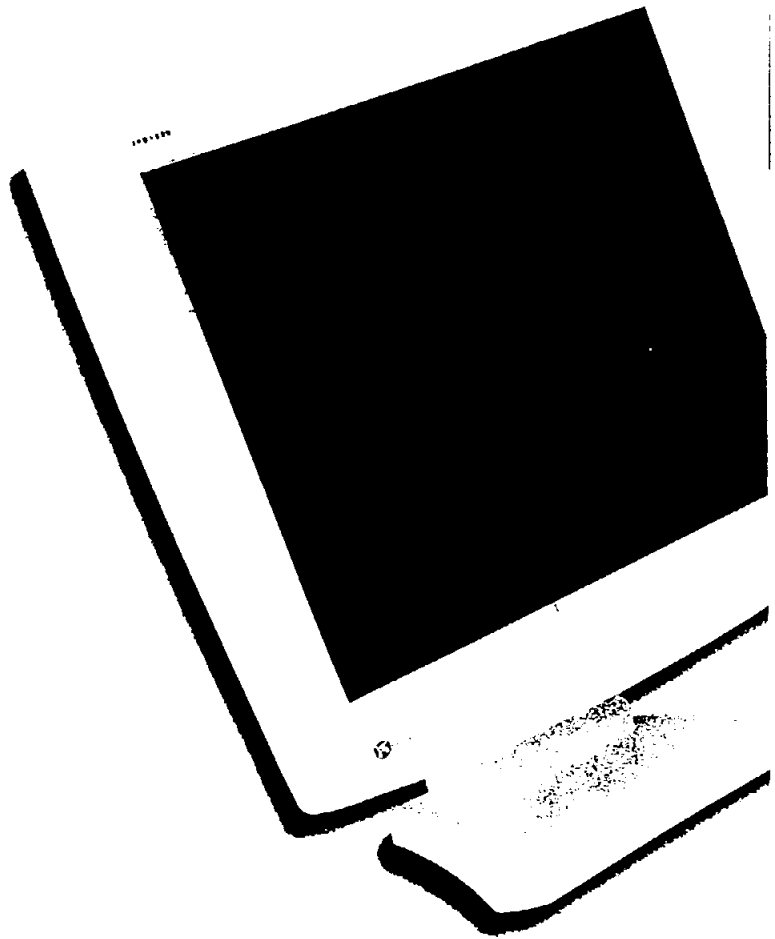


ATTACHMENT K – USERS MANUAL



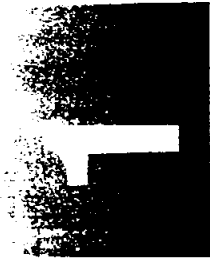
FPD 1510/1810



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Using Your Flat Panel Monitor



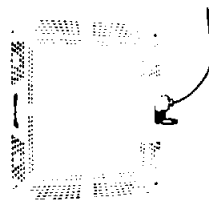
The EPD 1810 and EPD 1510 Flat Panel Displays are high-resolution LCD color monitors with:

- 1280 × 1024 (18-inch panel) or 1024 × 768 (15-inch panel) 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:

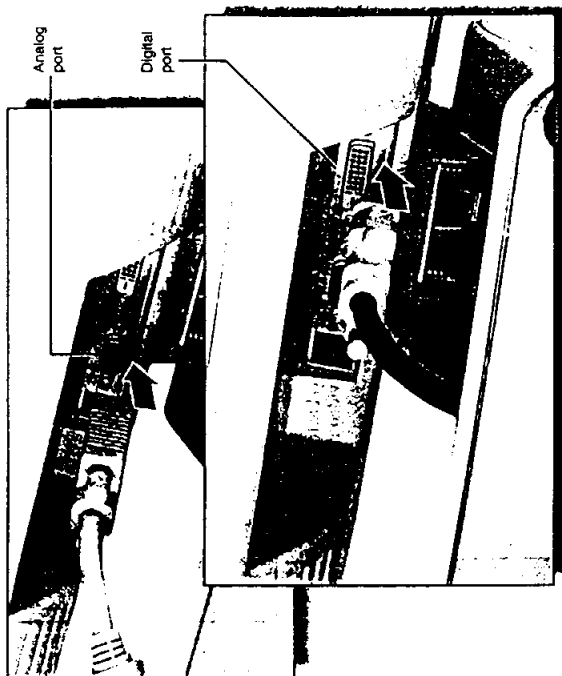
- 1 Position the computer and monitor so you can easily reach the back panel of each.
- 2 Set the monitor upright, then feed the power and video cables through the hole in the stand.



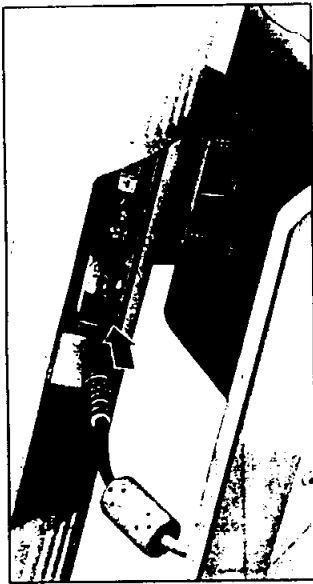
- 3 Lay the monitor down on its back.



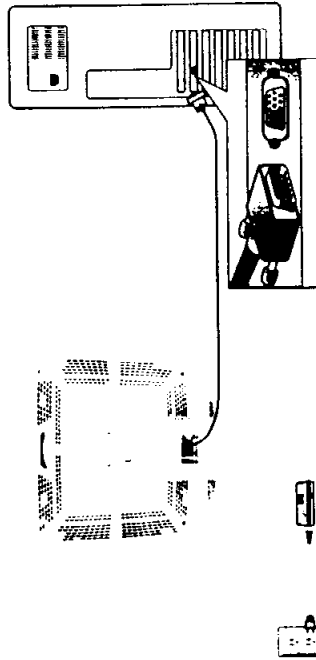
- 4 Connect one end of the video cable to the matching video port on the underside of the monitor. If your computer has both a digital video port and an analog video port, we recommend using the digital video connection.



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



- 6 Connect the other end of the video cable to the matching video port on the back of your computer (analog video connectors shown).



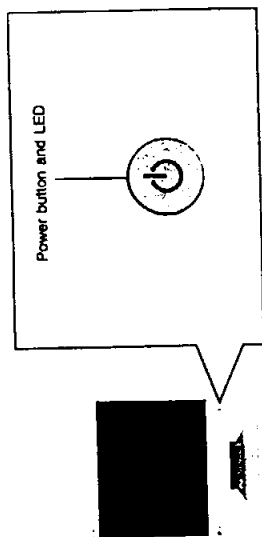
- 7 Plug the small end of the AC power cord into the power adapter, then plug the other end of the AC power cord into a properly grounded electrical outlet.



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 Δ 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 Δ button before entering the OSD. This will automatically adjust your display image to the ideal settings for the current screen resolution size (display mode).

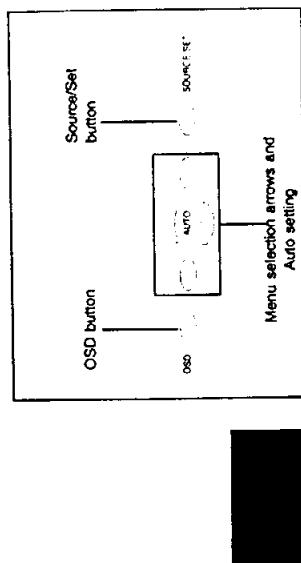
The optimal display mode is 1280 x 1024 for the 18-inch panel and 1024 x 768 for the 15-inch panel.

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 Δ and ∇ to adjust the contrast, and press $\triangleright$ once then Δ and ∇ to adjust the brightness. If your monitor is connected to an analog video port, press Δ (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:

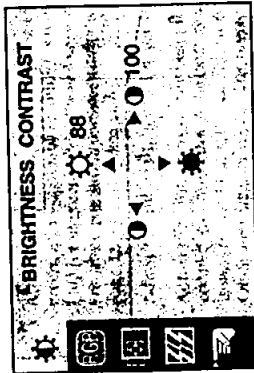
- 1 Press the OSD button. The OSD menu opens.
- 2 Use the Δ and ∇ buttons to highlight a control, then press the Source/Set button.
- 3 Use the Δ ∇ Δ ∇ buttons to adjust the control to the desired level.
- 4 When you have finished making all selections, press the OSD button to exit the OSD.



OSD menus

You can access any of these menus in the OSD:

OSD Adjust

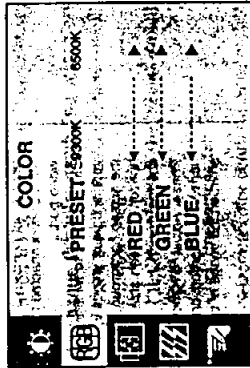


Description

Brightness. Press the Δ and ∇ buttons to adjust the brightness of the screen. Maximize the life of your monitor by using the lowest brightness setting you are comfortable with.

Contrast. Press the Δ and ∇ buttons to adjust the contrast of the screen.

OSD Adjust



Description

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

Preset. Adjust to change the color temperature. 9300K is bluish white. 6500K is reddish white.

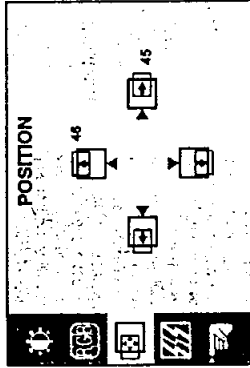
Red, Green, Blue. Adjust to set your own color levels.

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

Vertical position. Press the Δ and ∇ buttons to move the image up and down.

Horizontal position. Press the Δ and ∇ buttons to move the image left and right.

The Auto function configures the vertical and horizontal position for you. For more information on the Auto function, see "External controls" on page 7.



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:

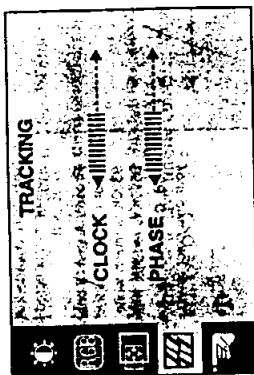
- 1 Click **Start**, then select **Settings**, then **Control Panel**. The **Control Panel** window opens.
- 2 Click/Double-click the **Display** icon. The **Display Properties** window opens.
- 3 Click the **Settings** tab.
- 4 Select the color depth (number of colors) used for the screen display from 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 x 1024 for the 18-inch panel and 1024 x 768 for the 15-inch panel.
- 6 Click **OK**. The settings are updated.

OSD Adjust

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.

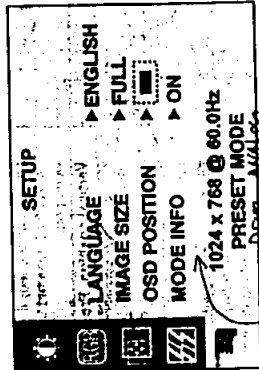


Language. Change the OSD language display setting.

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 for the 18-inch panel. This menu cannot be found if you have the 15-inch panel.

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.



ELAPSED TIME 00:00:00

Video modes

Your monitor supports several video modes.

- Best display mode for the 15-inch panel is 1024 × 768.
- Best display mode for the 18-inch panel 1280 × 1024.

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 (best for 15-inch panel)	60.02 KHz	75 Hz
8	1280 × 1024 (best for 18-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	15-inch panel <30 W 18-inch panel <50 W
Active Off	Amber	<5 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 **Δ** 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.

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Picture has shadows or "ghosts"

- If your monitor is connected to an analog video port, press the **Δ** 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 **Δ** 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 **Δ** 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.

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Specifications

Specifications are subject to change without notice or obligation.

Display	15-inch or 18-inch flat panel active-matrix TFT (Thin Film Transistor) LCD
Optimal resolution	18-inch panel: 1280 x 1024 15-inch panel: 1024 x 768
Display colors	Over 16 million colors
Power Input	18-inch panel: DC 12 V 5 A 15-inch panel: 12 V 3 A
Power consumption	Normal operation: 15-inch panel <30 W, 18-inch panel <50 W Active off operation: <5 W
Dimensions	18-inch display: 17.83 x 17.5 x 8 inches (44.77 x 44.45 x 20.32 cm) 15-inch display: 12.25 x 15.375 x 8 (38.74 x 39.05 x 20.32 cm)
Power Management	Meets EPA ENERGY STAR® and VESA DPMS requirements
Certifications	UL, CUL, TUV-GS, FCC Class B, DOG Class B, MPR-II, VCCI Class B, SEMKO, TCO 99

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

TCO document

Congratulations!

You have just purchased a TCO'99 approved and labeled product! Your choice has provided you with a product developed for professional use. Your purchase has also contributed to reducing the burden on the environment and also to the further development of environmentally adapted electronics products.

Why do we have environmentally labeled computers?

In many countries, environmental labeling has become an established method for encouraging the adaptation of goods and services to the environment. The main problem, as far as computers and other electronics equipment are concerned, is that environmentally harmful substances are used both in the products and during their manufacture. Since it is not so far possible to satisfactorily recycle the majority of electronics equipment, most of these potentially damaging substances sooner or later enter nature.

There are also other characteristics of a computer, such as energy consumption levels, that are important from the viewpoints of both the work (internal) and natural (external) environments. Since all methods of electricity generation have a negative effect on the environment (e.g. acidic and climate-influencing emissions, radioactive waste), it is vital to save energy. Electronics equipment in offices is often left running continuously and thereby consumes a lot of energy.

What does labeling involve?

This product meets the requirements for the TCO'99 scheme which provides for international and environmental labelling of personal computers. The labeling scheme was developed as a joint effort by the TCO (The Swedish Confederation of Professional Employees), Svenska Naturskyddsforeningen (The Swedish Society for Nature Conservation) and Statens Energimyndighet (The Swedish National Energy Administration).

Approval requirements cover a wide range of issues: environment, ergonomics, usability, emission of electric and magnetic fields, energy consumption and electrical and fire safety. The environmental demands impose restrictions on the presence and use of heavy metals, brominated and chlorinated flame retardants, CFCs (freons) and chlorinated solvents, among other things. The product must be prepared for recycling and the manufacturer is obliged to have an environmental policy which must be adhered to in each country where the company implements its operational policy.

The energy requirements include a demand that the computer and/or display, after a certain period of inactivity, shall reduce its power consumption to a lower level in one or more stages. The length of time to reactivate the computer shall be reasonable for the user.

Labeled products must meet strict environmental demands, for example, in respect of the reduction of electric and magnetic fields, physical and visual ergonomics and good usability. Below you will find a brief summary of the environmental requirements met by this product. The complete environmental criteria document may be ordered from:

TCO Development
SE-114 94 Stockholm, Sweden
Fax: +46 8 782 92 07
E-mail (Internet): development@co.se

Current information regarding TCO'99 approved and labeled products may also be obtained via the Internet, using the address:
www.tco-info.com

Environmental requirements

Flame retardants

Flame retardants are present in printed circuit boards, cables, wires, casings and housings. Their purpose is to prevent, or at least to delay the spread of fire. Up to 30% of the plastic in a computer casing can consist of flame retardant substances. Most flame retardants contain bromine or chlorine, and those flame retardants are chemically related to another group of environmental toxins, PCBs. Both the flame retardants containing bromine or chlorine and the PCBs are suspected of giving rise to severe health effects, including reproductive damage in fish-eating birds and mammals, due to the bio-accumulative* processes. Flame retardants have been found in human blood and researchers fear that disturbances in foetus development may occur.

The relevant TCO'99 demand requires that plastic components weighing more than 25 grams must not contain flame retardants with organically bound bromine or chlorine. Flame retardants are allowed in the printed circuit boards since no substitutes are available.

Cadmium**

Cadmium is present in rechargeable batteries and in the colour-generating layers of certain computer displays. Cadmium damages the nervous system and is toxic in high doses. The relevant TCO'99 requirement states that batteries, the colour-generating layers of display screens and the electrical or electronics components must not contain any cadmium.

Mercury**

Mercury is sometimes found in batteries, relays and switches. It damages the nervous system and is toxic in high doses. The relevant TCO'99 requirement states that batteries may not contain any mercury. It also demands that mercury is not present in any of the electrical or electronics components associated with the labeled unit.

CFCs (freons)

The relevant TCO'99 requirement states that neither CFCs nor HCFCs may be used during the manufacture and assembly of the product. CFCs (freons) are sometimes used for washing printed circuit boards. CFCs break down ozone and thereby damage the ozone layer in the stratosphere, causing increased reception on earth of ultraviolet light with e.g. increased risks of skin cancer (malignant melanoma) as a consequence.

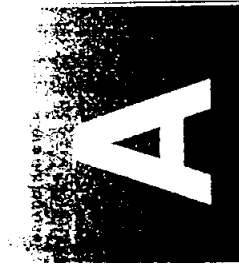
Lead**

Lead can be found in picture tubes, display screens, solders and capacitors. Lead damages the nervous system and in higher doses, causes lead poisoning. The relevant TCO'99 requirement permits the inclusion of lead since no replacement has yet been developed.

* Bio-accumulative is defined as substances which accumulate within living organisms

** Lead, Cadmium and Mercury are heavy metals which are Bio-accumulative.

Safety, Regulatory, and Legal Information



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 product plugged into the extension cord does not exceed the extension cord ampere rating.

Appendix A: Safety, Regulatory, and Legal Information

- 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 outlet 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.

European users

The following information is only applicable to systems labeled with the CE mark .

European directives

This Information Technology Equipment has been tested and found to comply with the following European directives:

• EMC Directive 89/336/EEC amending directive 92/31/EEC & 93/68/EEC as per

- EN 55022:1998 Class B

- EN 61000-3-2:1995

- EN 61000-3-3:1995

- EN 50024:1998 according to:

EN 61000-4-2:1995

EN 61000-4-3:1996

EN 61000-4-4:1995

EN 61000-4-5:1995

EN 61000-4-6:1996

EN 61000-4-8:1993

EN 61000-4-11:1994

• Low Voltage Directive (Safety) 73/23/EEC as per EN 60950:1992(A1/A2/A3/A4/A11)

Japanese users

VCCI statement

This equipment is in the Class B category (Information Technology Equipment to be used in a residential area or an adjacent area thereto) and conforms to the standards set by the Voluntary Control Council for Interference by Information Technology Equipment aimed at preventing radio interference in such residential areas. When used near a radio or TV receiver, it may become the cause of radio interference. Read instructions for correct handling.

電波障害について

この機器は、情報処理機器等電波障害低減自主規制協議会（VCCI）の基準に基づいてクラスB情報技術機器です。この機器は、家庭内等で使用することを目的としています。この機器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。

Australia and New Zealand users

EMI statement

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to the Australian/New Zealand standard AS/NZS 3548 set out by the Australian Communications Authority and Radio Spectrum Management Agency.

EPA ENERGY STAR

As an ENERGY STAR® 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.

Trademark Acknowledgments

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