



USER GUIDE

Gateway FPD2185W Monitor



Contents

Using Your Gateway Flat Panel Monitor	1
Connecting the monitor	2
Connecting video inputs	2
Connecting USB cables	5
Connecting a security cable	6
Adjusting the stand	7
Adjusting monitor height tension	7
Ergonomic guidelines	8
Starting the monitor	9
Adjusting monitor settings	10
Monitor buttons	10
On-screen display (OSD) options	11
Using Picture-in-Picture (PIP)	14
Windows controls	15
EzTune software	17
Video modes	19
Power management	20
ENERGY STAR	20
Energy declaration	20
Maintenance	20
Troubleshooting	21
No power	21
No picture	21
Display colors are wrong	22
Picture has shadows or “ghosts”	22
Color is not uniform	22
Image is not sized or centered correctly	22
The monitor has pixels that are always dark or too bright	22
FAQs	23
General	23
How To	24
Software	25
Technical	26
Video/Display	27
Specifications	29
Safety, Regulatory, and Legal Information	31
Recycling	33
EPA ENERGY STAR	33

Using Your Gateway Flat Panel Monitor

- Connecting the monitor
- Adjusting the stand
- Starting the monitor
- Adjusting monitor settings
- Windows controls
- Power management
- Maintenance
- Troubleshooting
- FAQs
- Specifications

Connecting the monitor

Connecting video inputs

▶ **To connect the monitor:**

- 1 Position your computer and the monitor so you can reach the back of each.
- 2 Connect the power cord to the power connector under the back of the display.



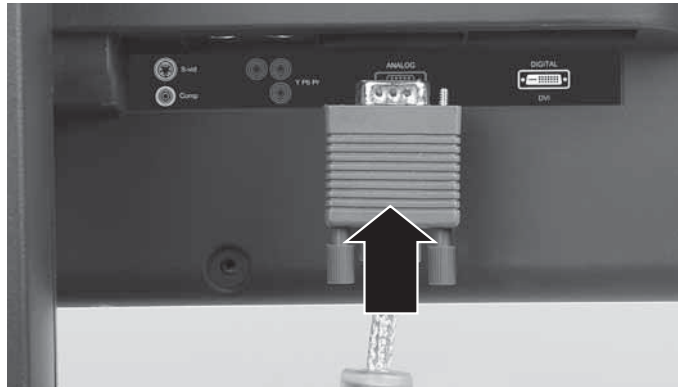
⚠ Caution

The audio power in jack is for use only with the Gateway speaker bar. Connecting any other device or power adapter can permanently damage the monitor.

Audio power in jack



- 3 Connect the blue VGA video cable to the blue video connector under the back of the display.

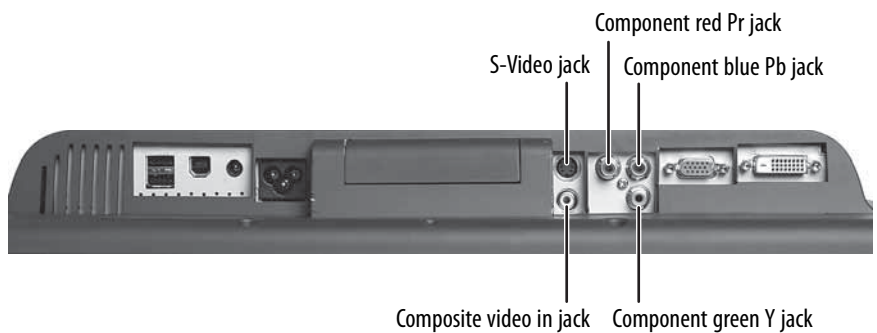


- OR -

If your computer has a digital video connector (DVI), connect a DVI video cable (not included) to the white connector under the back of the display. You can buy a DVI video cable from www.gateway.com.



- 4 Make sure that your computer is turned off, then connect the other end of the video cable to the matching video port on the back of your computer.
- 5 Connect video inputs (such as from a DVD player, video camera, or receiver) to the appropriate video jacks on the back of the monitor.

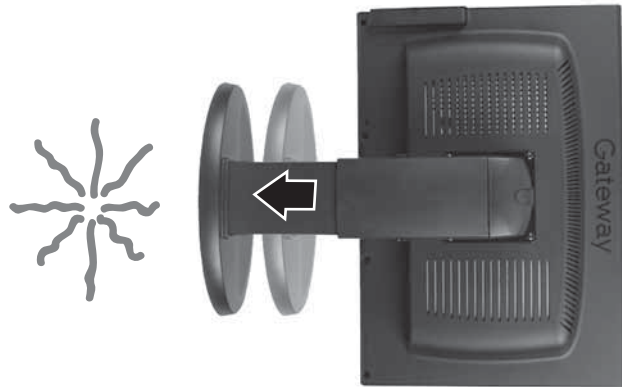


- For *basic* video quality, connect your video device's **composite video in** jack to the corresponding jack on the back of your monitor. (cable not included)
- For *better* video quality, connect your video device's **S-Video** jack to the corresponding jack on the back of your monitor. (cable not included)
- For *best* video quality, connect your video device's **component video** (**green Y**, **blue Pb**, and **red Pr**) jacks to the corresponding jacks on the back of your monitor. (cables not included)

6 Plug the power cord into a correctly grounded electrical outlet.

Warning

Because lifting your monitor off of the desktop surface takes weight off from the adjustable stand, the stand will extend suddenly, possibly causing damage to equipment or injury to yourself.



To avoid injury, always lift the monitor so that the stand adjusts to its full height before moving the monitor or turning it around.



Connecting USB cables

Your monitor has a built-in, four-port USB 2.0 hub that lets you conveniently connect USB devices. Because your computer case may be under your desk or inside a cabinet, these monitor-mounted USB ports can be much easier to access.

To use the monitor's USB ports, you must first connect the monitor to a USB port on your computer. Because the USB hub uses power from the monitor, it does not require its own power connection.

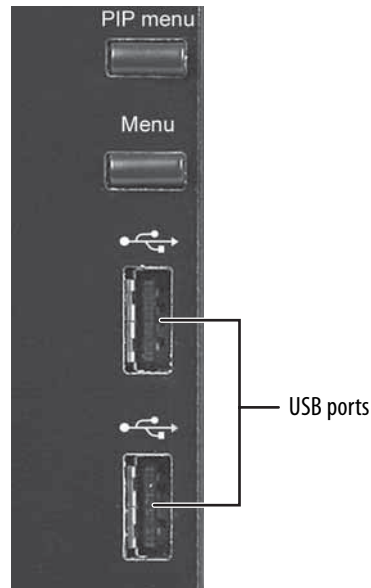
▶ To connect USB cables:

- 1 Connect the included USB cable to the **USB in** ("B" type) port on the back of your monitor, then connect the other end of the cable to a USB 2.0 port on your computer.



USB ports USB in port

- 2 Connect any USB device to one of the available USB 2.0 ports on the side or back of the monitor.



Important
The built-in USB 2.0 hub provides only low-speed connections if its **USB in** port is connected to a USB 1.1 port on your computer or on a USB hub.

Tips & Tricks
Use the USB 2.0 ports on the **back** of the monitor for connecting USB devices you want to keep connected most of the time, such as a keyboard, a mouse, or a printer. Use the USB 2.0 ports on the **side** of the monitor for connecting USB devices that are frequently disconnected, such as camera interface cables, flash drives, and USB hard drives.

Connecting a security cable

You can secure your monitor to your computer desk (or to another heavy object) with a cable lock. To connect a cable lock, follow the cable lock's instructions to connect it to the Kensington lock slot on the back of your monitor (cable lock not included).

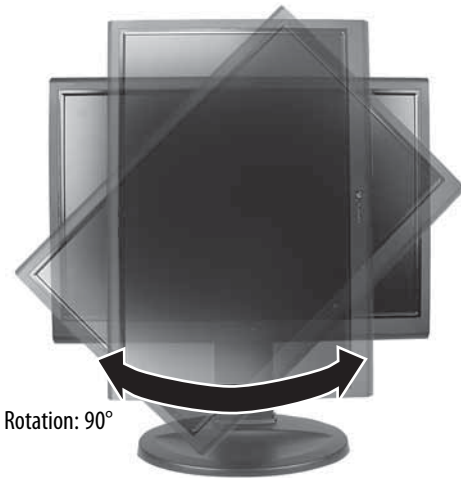


Kensington lock slot

Adjusting the stand



Height:
4.12 inches
(105 mm)



Rotation: 90°



Tilt: 35°



Pan: 35°

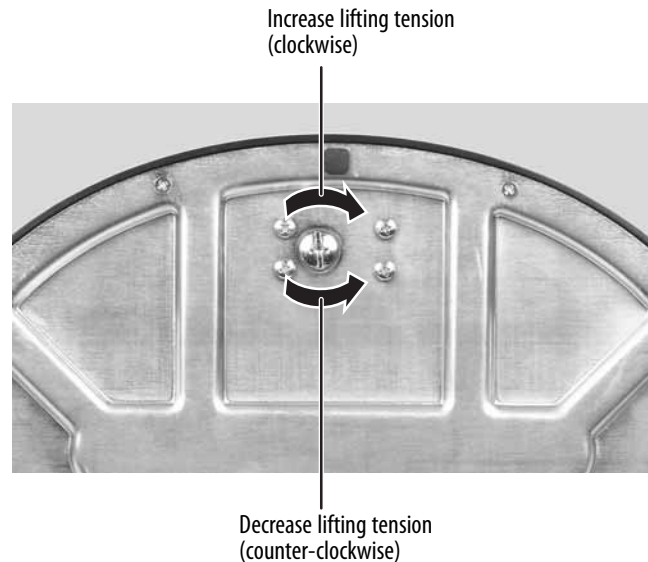
Adjusting monitor height tension

The stand is factory adjusted to maintain the adjusted height for your monitor. However, you can further adjust the tension.

▶ To test and adjust your monitor's height tension:

- 1 Move your monitor up and down through its entire vertical range. If it does not stay in place when you let go, you need to change the adjustable stand's height tension. You also need to adjust the stand if the amounts of force required to raise and lower the monitor are not equal.

- 2 Adjust the height tension screw so the monitor stays in place when you let go. If the monitor lowers by itself when you let go, turn the screw clockwise several complete turns. If the monitor rises when you let go, turn the screw counter-clockwise several complete turns. You may need to turn the screw several times before the tension is correct for your monitor.



- 3 Adjust the height tension screw so raising and lowering forces are equal. After the forces are equalized, turn the tension screw clockwise 2 to 4 turns to slightly decrease the lifting tension.
- 4 For optimum viewing, adjust the height so the top of monitor is about 1 inch below eye level.



Ergonomic guidelines

The recommended mounting heights, the range of adjustability required to provide comfortable use by a range of users, and the forces required for making adjustments to the display are based upon the following guidelines. These guidelines are based on available scientific literature and published standards.

Screen height

The recommended screen height for displays (except in special circumstances, such as for bifocal use) is that the top of the display should be set at or slightly below (about 1 inch or 25 mm) the user's eye level while the user is sitting in a comfortable working posture. This guideline places the center of the screen at an ideal 15° to 20° viewing angle for most desktop displays. If the display has multiple users, the screen height should be easily adjustable to accommodate each user's height and preference.

Screen tilt

The screen should be tilted so the user's line of sight is perpendicular to the screen. This angle creates the most consistent viewing distance when scanning from the top of the screen to the bottom. You may need to adjust lighting to avoid screen glare when the screen is tilted upward.

Screen distance from user

The display screen should first be placed at arms length from the user, then adjusted back and forth to suit individual preference.

Stand adjustment forces

The force required to make any adjustment to the stand (height, tilt, pan, or portrait/landscape orientation) should not exceed 5.1 lbs. (2.32 kg).

Starting the monitor

▶ To start the monitor:

- 1 Press the power button on the front of monitor. The power LED on the power button turns on.



- 2 Turn on your computer.

After your computer is running, the power LED on the monitor's power button should be blue. Allow about 10 seconds for the display image to appear. If the power LED is not blue or you do not see a display image, check the connections. For more troubleshooting information, see "Troubleshooting" on page 21.

- 3 Adjust the tilt of the monitor for the best viewing angle.
- 4 After you see the Windows desktop, press the **Auto** button on the right side of the monitor to automatically adjust your display image to the ideal settings.
- 5 Use the on-screen display (OSD) to adjust other monitor settings. For more information, see "Adjusting monitor settings" on page 10.

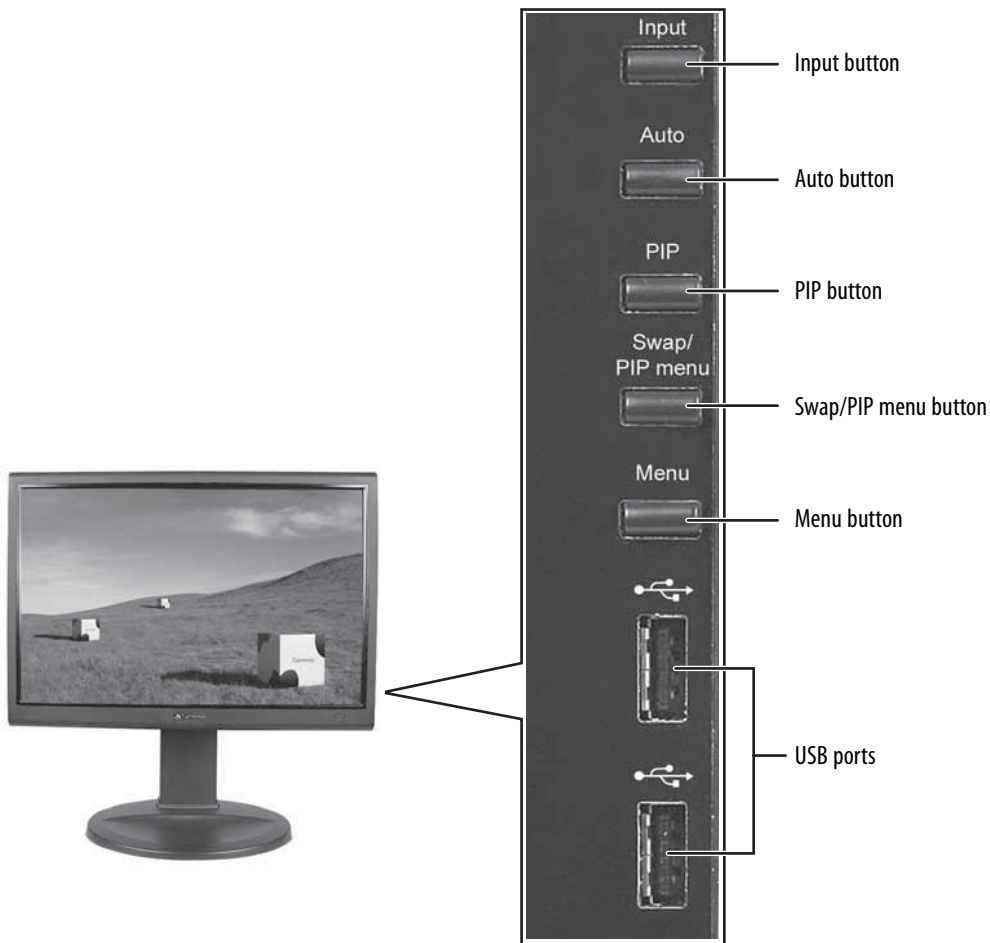


Adjusting monitor settings

Use the monitor controls (located on the monitor itself) and computer controls (accessible through Windows) to adjust the display image. For more information about computer controls, see "Windows controls" on page 15.

Monitor buttons

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




- **Input**
OSD active: Press to move to previous menu.
OSD inactive: Press to select the video source.
- **Auto**
OSD active: Press to select a menu or setting.
OSD inactive: Press to automatically optimize the monitor's image position, clock, and phase.
- **PIP**
OSD active: Press to move up through menu selections and adjust OSD options.
OSD inactive: Press to turn on PIP (Picture-in-Picture).
- **Swap/PIP menu**
OSD active: Press to move down through menu selections and adjust OSD options.
OSD inactive, PIP on: Press to swap the PIP (Picture-in-Picture) image with the primary image.
OSD inactive, PIP off: Press to open the PIP (Picture-in-Picture) control menu.
- **Menu**
Press to open the OSD. Press again to exit the OSD.

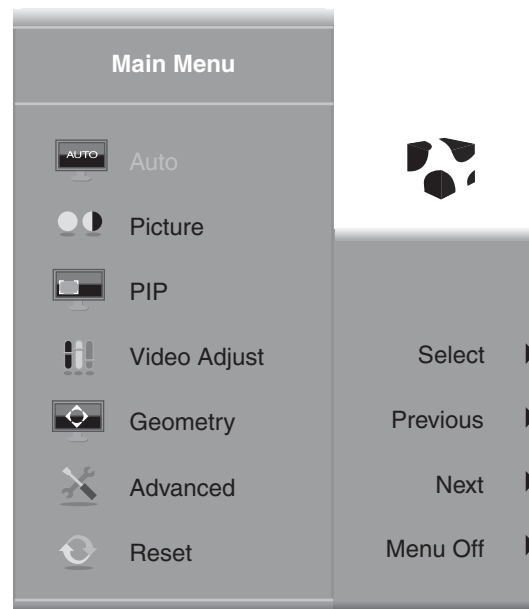
On-screen display (OSD) options

Adjusting OSD settings

▶ To adjust the OSD settings:

- 1 Press the **Auto** button. The display image is automatically adjusted to the ideal settings for your current screen resolution.
- 2 Press the **Menu** button. The OSD menu opens.

 **Important**
When adjusting the monitor settings, always press the **Auto** button before entering the OSD. This automatically adjusts the display image to the ideal settings for the current screen resolution. For most applications, the best screen resolution is 1680 × 1050.
























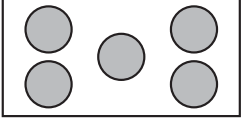

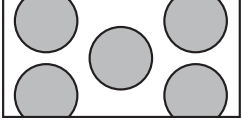

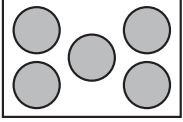

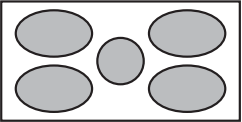






 **Tips & Tricks**








While the OSD is active, on-screen labels appear next to the buttons to help you identify them.

- 3 Press the **Previous** and **Next** (PIP buttons) to highlight a setting, then press the **Auto** button to open the selected menu or setting.
- 4 Press the **Previous** and **Next** buttons (PIP buttons) to adjust the setting to the desired level or change the option.
- 5 Press the **Back** button to return to a previous menu.
- 6 When you have finished making all adjustments, press the **Menu** button at the Main Menu to exit.



OSD Menu	Description
Main menu	 Auto —Automatically adjusts your monitor to its optimum settings. (VGA input only)
	 Picture —Opens the Picture menu, where you can adjust brightness, contrast, and gamma.
	 PIP —Opens the PIP Settings menu, where you can adjust the source, position, size, and transparency of the Picture-in-Picture image.
	 Video adjust —Opens the Video Adjust menu, where you can adjust the RGB (red, green, and blue) values of the video image from a source such as composite video, S-Video, or component video.
	 Geometry —Opens the Geometry menu, where you can adjust image size and minimize distortions. (VGA input only)
	 Advanced —Opens the Advanced menu, where you can adjust color balance, change the OSD language, and display information about current monitor settings.
	 Reset —Resets the monitor to its factory settings for the currently displayed input.
Picture menu	 Brightness —Adjusts the amount of light in the darkest portion of the picture. Use the lowest brightness setting you are comfortable with to maximize the life of the monitor backlights. You may need to readjust brightness after the monitor warms up.
	 Contrast —Adjusts the level of white between the lightest and darkest portions of an image.
	 Gamma —Customizes the gamma level. High gamma levels increase white levels and low gamma levels increase contrast.
PIP Settings menu	 PIP Display —Toggles the display of the PIP window.
	 Source —Sets the source of the video used in the PIP window.
	 Position —Sets the position of the PIP window on the main screen.
	 Size —Sets the size of the PIP window.
	 Transparency —Sets the transparency of the PIP window. The PIP window can be from almost transparent to completely opaque. When the PIP window is transparent, you are able to see through the PIP video display to your Windows desktop, which makes it easier to access your computer programs while watching video.
	 Swap —Switches the PIP image to the main image, and the main image to the PIP image.
	 PIP Picture —Opens a menu where you can set the PIP brightness, contrast, saturation, and tint/hue.

OSD Menu	Description
Video Adjust menu	<p>Unless otherwise indicated, these settings apply only to SD (standard definition) video at 480i and below. Where “PC input” is indicated, the resolutions that apply are from 800 × 600 to 1680 × 1050.</p> <p> Sharpness—Adjusts sharpness for video images.</p> <p> Noise Reduction—Uses noise reduction filters that adapt to the amount of noise and motion from the video source.</p> <p> Video Scaling—Sets video aspect ratios and scaling between Wide, Zoom, 1:1, and Panoramic modes. PC input: sets resolution aspect ratios and scaling between Wide, Zoom and 1:1.</p> <p>Wide mode  stretches a standard broadcast or full-frame image to fill the entire screen. Widescreen (1.76:1) images fill the entire screen without distortion, while widescreen (1.85:1 and 2.35:1) images appear without distortion but with black bars at the top and bottom. PC input: Stretches the image to fit the entire screen. </p> <p>Zoom mode  crops off a portion of a widescreen image in order to fill the entire screen with a distortion-free and black bar-free image. PC input: Zooms the image to fill the screen from top to bottom with black bars on the left and right sides of the image. </p> <p>1:1 mode  preserves the movie’s original aspect ratio, so a standard broadcast or full-frame movie appears with black bars on the left and right of the image. PC input: Preserves the original aspect ratio of the resolution by using black bars on the left and right sides and variable sizes of black bars on the top and bottom of the image (depends on resolution). </p> <p>Panoramic mode  uses selective distortion to stretch a standard broadcast or full-frame image to fill the entire screen. Unlike Wide mode, Panoramic mode stretches only the left and right sides of the image, and leaves the center of the image distortion free. </p> <p> Film Mode Detection with Bad Edit Detection and Correction—Film Mode Detection detects frame rates of the source image and adapts the frame rate of the display for ultimate image quality. Bad Edit Detection and Correction corrects incorrectly synchronized video.</p> <p> Auto Video Enhance—Enables DCDi, Cross Color Reduction, and MADi for optimized video performance.</p> <p><i>DCDi by Faroudja</i>—Directional Correlation De-interlacing reduces jagged edge artifacts on diagonal lines.</p> <p><i>Cross Color Reduction</i>—Reduces cross-color artifacts, such as unintentional flashing colors or rainbow patterns, that result from composite video signals.</p> <p><i>MADi</i>—Motion-Adaptive De-Interlacing ensures a more static (flicker-free) display image for image sections not containing moving elements, and ensures smoother edges for moving elements.</p>
Geometry menu	<p> H-Position—Moves the display image left and right. You can also press the Auto button to configure the vertical and horizontal position automatically.</p> <p> V-Position—Moves the display image up and down. You can also press the Auto button to configure the vertical and horizontal position automatically.</p> <p> Clock—Minimizes any vertical bars or stripes visible on the screen background. The horizontal screen size will also change.</p> <p> Phase—Minimizes any horizontal distortion and clears or sharpens the displayed characters.</p>

OSD Menu	Description
Advanced menu	 Color —Customizes the color levels.
	 Language —Changes the language of the OSD.
	 LED Mode —Changes the brightness of the Standby and Power LED to Day Mode or Nite Mode. When watching movies in a darkened room, you may want to change the LED mode to Nite Mode to avoid an over-bright, distracting power LED indicator.
	 DVI Video mode —Changes the DVI video mode by enabling either RGB Color Space (used for digital input) and YUV Color Space (used for analog TV input such as NTSC, PAL, and SECAM).
	 Resolution reminder —If the computer display input (VGA and DVI) is not set to 1680 × 1050, displays a reminder that you should change your computer's settings to use the optimum 1680 × 1050 resolution. If you prefer using your monitor at a resolution less than 1680 × 1050, use this option to turn off the Resolution Reminder. For information on changing your computer's display resolution, see "Windows controls" on page 15.
	 Information —Displays current screen resolution and input source for the main display.
 Reset All —Resets all values to the factory settings.	

Using Picture-in-Picture (PIP)

Picture-in-Picture (PIP) is a convenient way to view video from multiple video sources at the same time. Refer to the following chart to determine which combinations of video sources can be used as a PIP display.

Main display	PIP display				
	VGA	DVI	Component (Y Pb Pr)	S-Video	Composite
VGA	-	OK	OK*	OK	OK
DVI	OK	-	OK	OK	OK
Component (Y Pb Pr)	No	OK	-	OK	OK
S-Video	OK	OK	OK	-	No
Composite	OK	OK	OK	No	-

* Only 480i component (Y Pb Pr) video can be used with VGA as a PIP. With this combination, the Swap feature is not available. To switch to full-screen component video when 480i content is used as a PIP, press the **Input** button on the side of the monitor.

If a 480p source is input to the Y Pb Pr jacks and Y Pb Pr is a PIP display within a VGA main display, then the PIP image will be distorted. Change the output of your external Y Pb Pr device to 480i if PIP is required with VGA to eliminate the PIP distortion. For more information, see your Y Pb Pr device's user guide.

Windows controls

Color depth, screen resolution, and screen fonts are three of the most basic monitor settings you may need to change.

Adjusting the color depth

Color depth is the number of colors your video card uses. Most images look best displayed with the maximum number of colors available.

Windows lets you choose from several color depth settings for the monitor. We recommend that you use the 32-bit True Color setting or the highest setting available at all times.

If the color in your images seems “false” or “jumpy,” especially after you have played a game or run a video-intensive program, check the color depth setting and return it to 32-bit True Color, if necessary.

Help & Support
For more information about adjusting monitor settings, click **Start**, then click **Help and Support**. Type the phrase **changing display settings** in the **Search** box, then click the arrow.

▶ To change the color depth:

- 1 Click **Start**, then click **Control Panel**. The *Control Panel* window opens. If your Control Panel is in Category View, click **Appearance and Themes**.
- 2 Click/Double-click the **Display** icon. The *Display Properties* dialog box opens.
- 3 Click the **Settings** tab.



- 4 Click the arrow button to open the **Color quality** list, then click the color depth you want.
- 5 Click **OK**, then click **Yes** to save your changes.

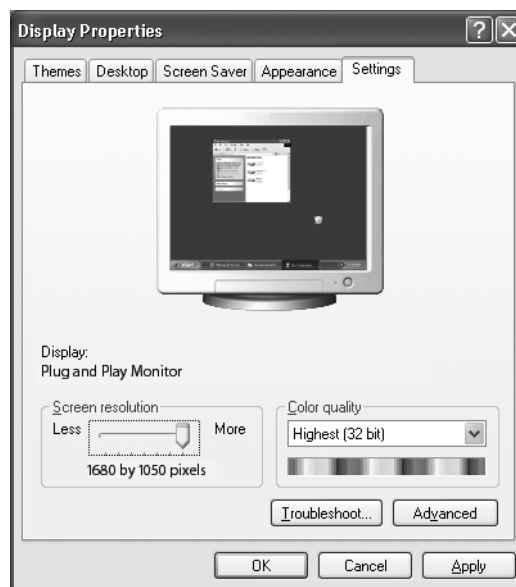


Adjusting the screen resolution

You can change the screen resolution to a size you prefer. For example, you can increase the resolution to fit more icons on your desktop, or you can decrease the resolution to make reading and identifying objects on the monitor easier. The higher the resolution, the smaller individual components of the screen (such as icons and menu bars) appear.

▶ To change the screen resolution:

- 1 Click **Start**, then click **Control Panel**. The *Control Panel* window opens. If your Control Panel is in Category View, click **Appearance and Themes**.
- 2 Click/Double-click the **Display** icon. The *Display Properties* dialog box opens.
- 3 Click the **Settings** tab.



- 4 Drag the **Screen resolution** slider to the size you prefer.
- 5 Click **OK**, then click **Yes** to save your changes.



Clarifying screen fonts

You can change the display fonts to ClearType for smoother screen fonts.

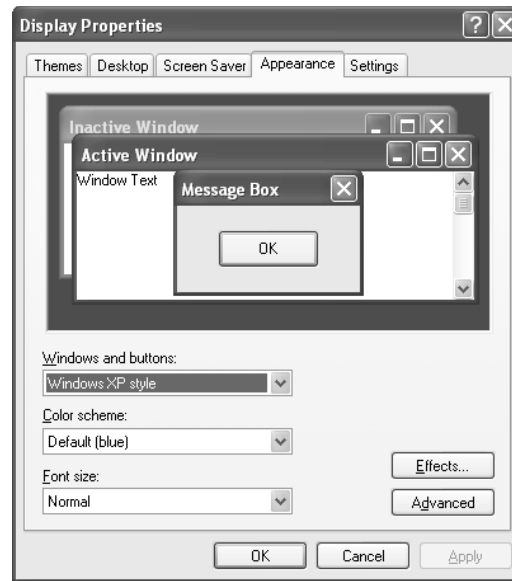
▶ To change the display fonts to ClearType:

- 1 Click **Start**, then click **Control Panel**. The *Control Panel* window opens. If your Control Panel is in Category View, click **Appearance and Themes**.
- 2 Click/Double-click the **Display** icon. The *Display Properties* dialog box opens.

❓ Help & Support

For more information about adjusting monitor settings, click **Start**, then click **Help and Support**. Type the phrase **changing screen resolution** in the *Search* box, then click the arrow.

3 Click the **Appearance** tab.



4 Click the **Effects** button. The *Effects* dialog box opens.

5 Click to select the **Use the following method to smooth the edges of screen type** check box.

6 Click the arrow to open the list, then click **ClearType**.

7 Click **OK**, then click **OK** again.

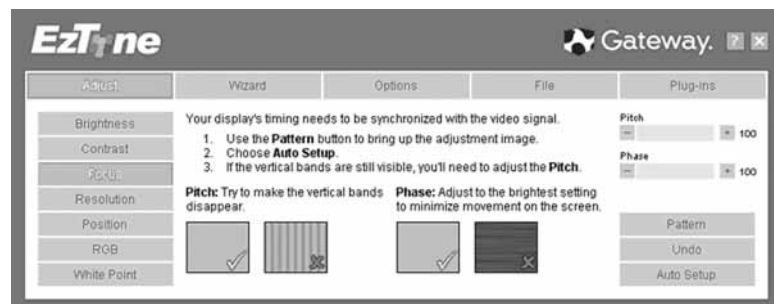


EzTune software

When installed onto your computer, EzTune™ software lets you control many of the monitor settings from your computer. With EzTune, you can:

- Change the orientation of the image (landscape to portrait) by rotating the screen
- Change brightness, contrast, and color balance
- Change screen geometry
- Set the display position and resolution

For more information, see the program's CD or the installed program's online help.



Using landscape and portrait modes



Landscape mode



Portrait mode

EzTune automatically switches the display to the appropriate mode (landscape or portrait) when you rotate the screen. This feature works only with VGA or DVI input (other inputs, as well as the OSD, do not rotate into portrait mode).

While using portrait mode:

- Full-screen video may display incorrectly or be slow.
- Video games or other full-screen applications may not be fully compatible.
- Some programs are not able to recognize and adapt to your monitor's portrait mode. If you experience problems with a program while using portrait mode, switch to landscape mode and restart the program.

Video modes

Your monitor supports several video modes. If you do not use the best mode for the monitor, the display image may look slightly “fuzzy.”

Mode	Resolution	Horizontal frequency (kHz)	Vertical frequency (Hz)
1	720 × 400	31.47	70
2	640 × 480	31.47	60
3	640 × 480	35.00	67
4	640 × 480	37.86	72
5	640 × 480	37.50	75
6	800 × 600	35.15	56
7	800 × 600	37.88	60
8	800 × 600	48.07	72
9	800 × 600	46.88	75
10	832 × 624	49.70	75
11	1024 × 768	48.36	60
12	1024 × 768	56.47	70
13	1024 × 768	60.12	75
14	1152 × 864	54.94	60
15	1152 × 864	66.14	70
16	1152 × 864	67.50	75
17	1152 × 870	68.70	75
18	1280 × 1024	63.98	60
19	1280 × 1024	79.98	75
20	1440 × 900	55.47	60
21	1440 × 900	84.00	75
22	1680 × 1050	65.30	60

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, the monitor can conserve significant energy by reducing power consumption during periods of non-use. When your computer goes into the energy saving mode, the monitor will then enter the Active Off mode (sleep). In the Active Off mode the Power LED will still show orange.

Use these conventions and the power can be reduced to the following levels:

VESA State	LED Indicator	Power Consumption
On	Blue	75 W
Active Off	Orange	≤ 2 W

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

Access the power management options in the Control Panel to change the period of time after which the monitor enters these low power states.

Maintenance

To keep the 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.
- To clean the monitor, use a soft cloth slightly 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 screen.

Troubleshooting

**Important**

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

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

No power

Make sure that the power cord is connected correctly to both the back of the monitor and the wall outlet. For more information about connecting the power cord, see “Connecting the monitor” on page 2.

No picture

- Press the **Input** button to make sure that you have selected the correct video source.
- Make sure that the power cord is connected correctly to both the back of the monitor and the wall outlet. For more information about connecting the power cord, see “Connecting the monitor” on page 2.
- Make sure that the video cable is connected securely to the back of the monitor and computer. For more information about connecting the video cable, see “Connecting the monitor” on page 2.
- Make sure that the monitor is turned on.
- If the power LED is orange:
 - Make sure that your computer is turned on.
 - Move the mouse or press any key on the keyboard to bring the monitor out of sleep mode.
 - Restart your computer with the monitor turned on.
 - Make sure that the video cable is not damaged.
 - Check the end of the video cable for any pins that might be bent or pushed in.
- Turn off the monitor and unplug the video cable from the back of your computer. Turn the monitor back on and wait for ten seconds. If the monitor is functioning correctly, a “No Signal” message appears. For more information about connecting the video cable, see “Connecting the monitor” on page 2.

Display colors are wrong

- Press the **Auto** button to automatically adjust the display image to the ideal settings.
- Restart your computer with the monitor turned on.
- Make sure that the video cable is connected securely to the back of the monitor and your computer. For more information about connecting the video cable, see “Connecting the monitor” on page 2.
- Make sure that the video cable is not damaged.
- Check the end of the video cable for any pins that might be bent or pushed in.

Picture has shadows or “ghosts”

- Press the **Auto** button to automatically adjust the display image to the ideal settings.
- Remove any extension cables or switchboxes.
- Make sure that the video cable is connected securely to the back of the monitor and your computer. For more information about connecting the video cable, see “Connecting the monitor” on page 2.
- Make sure that the video cable is not damaged.
- Check the end of the video cable for any pins that might be bent or pushed in.

Color is not uniform

- Press the **Auto** button to automatically adjust the display image to the ideal settings.
- Make sure that the monitor warms up for at least 30 minutes before making a final judgment about color uniformity or brightness.

Image is not sized or centered correctly

- Press the **Auto** button to automatically adjust the display image to the ideal settings.
- Use the position controls to adjust the image. For instructions on how to adjust the display image position, see “Adjusting monitor settings” on page 10.

The monitor has pixels that are always dark or too bright

- This condition is normal and inherent in the TFT technology used in active-matrix LCD screens. Gateway’s inspection standards keep these to a minimum. If you feel these pixels are unacceptably numerous or dense on your display, contact Gateway Customer Care to identify whether a repair or replacement is justified based on the number of pixels affected.

FAQs

This section contains answers to frequently asked questions.

General

What is DCDi® by Faroudja?

DCDi® by Faroudja is a video mode algorithm that stands for Directional Correlation De-Interlacing. It was initially designed for fast-action video-based material. Its general purpose is to reduce jagged edges along diagonal lines caused by interpolation. Utilizing this algorithm, DCDi does not simply weave together two fields of video that match. DCDi creates new information through interpolation which “smooths” the diagonal edges. DCDi constantly monitors edge transitions and fills in any of the gaps that need smoothing.

I have the FPD2185W connected to my notebook's VGA port and I see no image on the screen.

You have two options:

- If your notebook supports dual displays, you can use both your notebook's display and this monitor in extended desktop multi-monitor mode. See Windows Help to learn how to enable multiple monitors.
- You can also use this monitor as your primary monitor and not use the notebook's screen. Notebook computers typically have an **FN** key combination that lets you toggle between your notebook's display and an externally attached display. On Gateway notebooks, this key combination is **FN+F4**. The **F4** key is located along the top row of keys. See your notebook user guide for more information.

When I connect this monitor to my notebook while the notebook is in Hibernate mode or Standby mode, the EzTune software does not work.

When the monitor is connected when the notebook is in Hibernate or Standby mode, EzTune cannot recognize the monitor. To solve this problem:

- 1 Close EzTune by right-clicking the **EzTune** icon in the system tray, then clicking **Exit**. Restart the EzTune software by double-clicking the **EzTune** icon on your desktop.
- 2 If Step 1 does not solve the problem, save all open documents and restart your notebook.

When I am using clone mode, why can't I control this monitor with EzTune?

Clone mode is used when you are displaying the same image on your notebook's screen and on an external monitor. EzTune does not support clone mode.

How To

How do I make the image rotate when the screen is rotated?

Make sure that EzTune is installed on your computer. An EzTune software CD shipped with the monitor. When using a VGA or DVI input connection with EzTune installed, the image automatically rotates when the screen is rotated. Other inputs and the on-screen display (OSD) do not rotate into portrait mode.

Setup

When I rotate my screen 90 degrees, why does the image not automatically rotate?

For auto rotation to work, EzTune software must be installed. Place the *EzTune CD* in your computer's CD or DVD drive and then follow the on-screen instructions. After your computer restarts, auto rotation will work.

Why does the image look stretched or fuzzy when I connect the monitor to my computer?

You must adjust the operating system's display settings to match the monitor's optimal (*native*) 1680 × 1050 setting. For information on adjusting settings in Windows XP, see "Adjusting the screen resolution" on page 16.

The easiest way to adjust your screen resolution is to use the included EzTune software. After installing EzTune, click the **EzTune** icon in the taskbar, click the **Adjust** tab, click **Resolution**, then click **Preferred**. Your screen adjusts to 1680 × 1050, and EzTune displays a message that you are at a preferred resolution.

I do not see 1680 × 1050 available in the Windows display control panel and EzTune does not adjust my resolution to the preferred setting.

- Make sure that your video card can display at 1680 × 1050 resolution.
- This may be caused by older video drivers on your computer. See the Gateway support Web site (support.gateway.com) for updated video drivers for your computer. You can also go directly to your video card's support Web site for the most up-to-date video drivers. The Web sites for the major video card manufacturers are:

ATI: <http://www.ati.com>

Intel: <http://www.intel.com>

Nvidia: <http://www.nvidia.com>

When I connect the monitor's USB hub to my computer, I see an error message saying that my USB hub may not be running at full speed.

This can happen if you connected the monitor's high-speed USB 2.0 hub to a low-speed USB 1.1 hub or a USB 1.1 port on your computer. To use the monitor's high-speed USB 2.0 capabilities, you must connect the monitor to a USB 2.0 port on your computer.

When I run my games, I do not see support for widescreen displays. What can I do?

Newer games are adding support for widescreen displays as the widescreen format becomes more popular. Check the game's Web site for updates. You can also consult the following Web site for specific settings and options to configure older games to support widescreen: <http://www.widescreengamingforum.com>.

Some adjustments may require you to make changes to the Windows System Registry. We recommend making a complete system backup before changing the System Registry.

Software

Why do I need EzTune?

EzTune is required if you want to unlock the full potential of your monitor. EzTune provides auto-rotation, on-screen display software control, and software color calibration features. EzTune is not required for basic operation of the display, but auto-rotation and other EzTune features will not be available.

I am using third-party rotation software. Will this conflict with the rotation features in EzTune?

There is a possibility that conflicts may occur. If the rotation software is not part of your video driver (such as ATI, NVidia, and Intel), you should first remove the software. If you are using the video driver's rotation features, you should first set the rotation to 0 degree, then disable the video driver rotation feature.

If you see your screen rotation image corrupted after using EzTune, make sure that the video driver's rotation feature is not enabled. If it is, you may have to uninstall and reinstall EzTune to resolve the conflicting rotation software.

I updated my video driver on my computer, and when I restart my computer I see an error message: "Pivot Software Error. Your configuration has changed. Pivot software must be reinstalled. Would you like Pivot Software to re-install now?" What is this?

The Pivot software is part of EzTune. When you installed EzTune, it automatically configured itself with your currently installed drivers. When you update your video drivers, Pivot must reconfigure itself. This is normal operation. Choose the option to re-install. After restarting your computer, EzTune should work without an error message appearing.

I am using multi-monitor and I am using the stretch or clone mode of my video driver. Will this work with EzTune?

In some cases, EzTune does not work correctly in stretch or clone mode. You should disable these modes and use multi-monitor mode only.

Why does EzTune not work with my other Gateway or third-party monitors?

EzTune is only compatible with the Gateway 21-inch LCD Flat Panel FPD2185W monitor.

Can I use Windows Media Player or other media players in portrait mode?

Depending on the processing speed of your computer, most video will display correctly while in portrait mode. If your computer or video subsystem cannot process the rotated video, you may see choppy or no video displayed.

While playing a video file, I rotate my monitor, but then no video is displayed or I see corrupted video.

Close and reopen your video player software.

Can I run video games in portrait mode?

Most video games are full-screen, 3D-accelerated programs and do not support portrait mode. Unexpected results, including crashes or system lockups, can occur if you run games in portrait mode. Change to landscape mode before running video games.

Do all full-screen programs support portrait mode?

No, some full-screen programs only expect to see a display in landscape mode. You can try your full-screen program in portrait mode. If you do not see all of your program or if you experience unexpected program behavior, run it in landscape mode.

Does Windows Media Center operate in portrait mode?

No, Windows Media Center expects the screen to be in landscape mode. If you rotate the screen to portrait mode while Windows Media Center is running, you may experience a blank screen. You should rotate back to landscape.

Does EzTune work through a VGA splitter or KVM (keyboard/video/mouse) box?

No. For EzTune to operate, no external device or splitter can be connected to the monitor. The monitor must be connected directly to the computer.

How can I get a copy of EzTune if I misplace or lose my CD?

The entire *EzTune CD* can be downloaded for free from the following link:

<http://oem.portrait.com/dtune/gwy/enu/upgrade.html>

Technical

Why do I see "noise" or "trash" on the screen?

When your display's digital capabilities exceed a digital broadcast signal, the signal is increased (*up-converted*) to match the display capabilities. Up-converting can cause "noise" or "trash." The signal on DVI-D is HDCP encoded. Stop and restart the source to allow renegotiation.

What is HDCP and how do I troubleshoot it?

High-bandwidth Digital Content Protection (HDCP) is a specification developed by the Intel® Corporation to protect digital entertainment content that uses a digital visual interface (DVI).

HDCP encrypts the transmission of digital content (signal) between the video source (computer, DVD player, or set-top box) and the digital display (monitor, digital television/DTV, or projector). HDCP is not designed to prevent copying or recording of digital content, but only to protect the integrity of the content as transmitted.

How does HDCP work?

Implementation of HDCP requires a license obtainable from the Digital Content Protection, LLC, which then issues a set of unique secret device keys to all authorized devices. During authentication, the receiving device only accepts content after it acknowledges the keys. To further prevent stealing of the data or line tapping, the transmitter and receiver generate a shared secret value that is constantly checked throughout the transmission. After authentication is established, the transmitter encrypts the data and sends it to the receiver for decryption.

Troubleshooting

What happens if I lose signal to the display while watching a movie on a HDCP-equipped component?

The component must be restarted to establish renegotiation.

For example, while watching a movie on a HDCP-enabled DVD player, you change the receiving device (DTV, monitor, or projector) input to watch broadcast TV, then change the input back to watch the DVD movie. However, you are unable to watch the movie. This is because when the input was changed, the receiver lost the HDCP signal. Restart the HDCP-enabled DVD player to allow renegotiation.

What is the cause if a movie starts and then slowly fades to static?

The receiving device is not HDCP compatible or it is not negotiating correctly. Restart the video source and re-plug all video cables from the source to the TV.

How do I know if a component is HDCP compliant?

If the video source device does not have a DVI or HDMI connection, it is not HDCP compliant.

Video/Display

When I display video from S-Video, composite, or component, why does the video look overly compressed?

See your video device user manual to adjust the video or TV format output to 16:9. Setting this option to 4:3 results in compressed video. This is done differently on all brands of video devices, so it is important that you read your video device user guide or the help tools within your video device's software.

I see black bars on left and right of the video. Can I stretch the video to fit more of the screen?

Press the **Menu** button on the side of the display, select **Video Adjust**, then select **Video Scaling**. To fill more of the screen, choose **Wide**, **Zoom**, or **Panoramic** modes.

Why when I try to use Picture in Picture (PIP) component video at 480p, 720p, or 1080i, either no video is displayed or I see corrupted video?

This is a normal operation of the FPD2185W. If you wish to view component video in PIP, adjust the video output of your external device to 480i.

Can I connect my game console to this monitor?

Yes. Using optional video cables (available from the Gateway Accessory Store Web site) you can connect your game console directly to the FPD2185W. If your game console supports Component (YPbPr), this results in the best picture quality.

 **Important**

Although the HDMI interface supports audio, no audio is sent to the FPD2185W. You must separately connect the audio output of your video device to an external audio amplifier.

Can I connect the HDMI output of my external video device to the DVI port of the monitor? Why would I want to do this?

Yes, you can buy an HDMI-to-DVI adapter cable from the Gateway Accessory Store. When using the digital connection, your video content remains completely digital from your external video device (such as a cable box, HD DVR, or DVD player). This results in a superior digital image. Also, in this configuration the PIP can support the input of all HD resolutions.

When I rotate my screen, the PIP video and the external video sources do not rotate. Why does this happen?

This is normal. PIP video and all non-computer video input sources do not rotate. EzTune supports rotation only when a computer is connected to the DVI and VGA inputs and the software application is installed.

I have multiple displays and I am using this monitor as my secondary monitor. When I run EzTune, it appears on my primary monitor. How do I control the monitor's settings?

After opening the EzTune menu, drag the EzTune window to the FPD2185W's screen. After EzTune is on the FPD2185W's screen, you can adjust its settings. A quick way to control a specific EzTune-supported display is to right-click on the desktop of the display you want to control, then select **Tune Display**.

Specifications

Specifications are subject to change without notice or obligation. Many products for Gateway and its subsidiaries are custom engineered by our suppliers to Gateway specifications and may vary from similarly marketed products.

Panel size	21 inches (diagonal)
Panel type	21-inch viewable TFT active matrix S-PVA Anti-glare coating
Pixel resolution	1680 × 1050 (native) (60 Hz)
Pixel pitch	0.0106 × 0.0106 inches (0.270 mm × 0.270 mm)
Aspect ratio	16:10
Brightness	300 cd/m ²
Contrast ratio	1000:1
Viewing angles	178° horizontal, 178° vertical
Response time	16 ms or 8 ms (gray to gray)
Frequency	Horizontal: 31-81 KHz Vertical: 56-76 Hz
Lamp type/life	50,000 hours
Colors	16.7 million
OSD languages	English, French, Spanish, Italian, Japanese
Connections and inputs	Analog (VGA): 15-pin mini d-sub VGA Digital (DVI-D): 24-pin DVD-D (supports 480p, 720p, and 1080i). Includes HDCP (High-bandwidth Digital Content Protection) Composite video S-Video Component Y Pb Pr (supports 480i, 480p, 720p, and 1080i) AC power input USB 2.0 B-type (input) USB 2.0 A-type (output ×4) Audio power (only for the Gateway speaker bar accessory)
Included cables	15-pin mini d-sub analog VGA USB A-B Power
Power consumption	Normal operation: >75 W Off (power-save): 2 W
Power input	100-240 VAC, 50/60 Hz (built-in power supply)
Power management	Energy Star®

Certifications	UL, cUL, FCC Class B, CE. VCCI and TCO'99 where applicable.
Wall mount bracket	VESA 4 × 3.937 inches (4 × 100 mm)
Weight	Net weight (with stand): 18.74 lbs. (8.5 kg) Gross weight (with packaging): 22.05 lbs. (10 kg)
Dimensions	With base: 19.47 × 15.35 × 6.15 inches (49.4 × 39.0 × 15.6 cm) Without base: 19.47 × 13.74 × 2.77 inches (49.4 × 34.9 × 7.0 cm) VESA wall mount bracket: 3.94 × 3.94 inches (100 mm × 100 mm)
Temperature	Operating: 32~122°F (0~50°C) Storage: -13~140°F (-25~60°C)
Humidity	Operating: 20~90% RH Storage: 5~90% RH
Altitude	10,000 feet (3,048 m)
Security	Kensington lock slot

Safety, Regulatory, and Legal Information

- Important safety information
- Environmental information
- Regulatory compliance statements
- Notices

Important safety information

Warning

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

Your Gateway product 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.

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.

Warning

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

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.
- Do not expose the monitor to rain or use near water. If the monitor does get exposed to moisture, unplug it and allow it to dry for 24 hours. Call Gateway Customer Care for advice on whether the monitor is safe to turn back on.
- 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



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.

Replacement parts and accessories

Use only replacement parts and accessories recommended by Gateway.

Environmental information

Recycling

 **Mercury Warning** 
Lamp(s) inside this product contain mercury and must be recycled or disposed of according to local, state, or federal laws.

The product you have purchased contains extracted natural resources that have been used in the manufacturing process. This product may contain substances known to be hazardous to the environment or to human health.

To prevent releases of harmful substances into the environment and to maximize the use of our natural resources, Gateway provides the following information on how you can responsibly recycle or reuse most of the materials in your "end of life" product.

Waste Electrical and Electronic Equipment (commonly known as WEEE) should never be disposed of in the municipal waste stream (residential garbage collection). The "Crossed-Out Waste Bin" label affixed to this product is your reminder to dispose of your "end of life" product properly.



Substances such as glass, plastics, and certain chemical compounds are highly recoverable, recyclable, and reusable. You can do your part for the environment by following these simple steps:

- When your electrical or electronic equipment is no longer useful to you, "take it back" to your local or regional waste collection administration for recycling.
- In some cases, your "end of life" product may be "traded in" for credit towards the purchase of new Gateway equipment. Call Gateway to see if this program is available in your area.
- If you need further assistance in recycling, reusing, or trading in your "end of life" product, you may contact us at the Customer Care number listed in your product's user guide and we will be glad to help you with your effort.

Finally, we suggest that you practice other environmentally friendly actions by understanding and using the energy-saving features of this product (where applicable), recycling the inner and outer packaging (including shipping containers) this product was delivered in, and by disposing of or recycling used batteries properly.

With your help, we can reduce the amount of natural resources needed to produce electrical and electronic equipment, minimize the use of landfills for the disposal of "end of life" products, and generally improve our quality of life by ensuring that potentially hazardous substances are not released into the environment and are disposed of properly.

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.

Regulatory compliance statements

United States of America

Federal Communications Commission (FCC) Unintentional emitter per 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 to an outlet on a different circuit 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, Inc.
7565 Irvine Center Drive
Irvine, CA 92618 USA

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.



California Proposition 65 Warning

This product contains chemicals, including lead, known to the State of California to cause cancer, birth defects or reproductive harm.

Canada

Industry Canada (IC) Unintentional emitter per 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.

Notices

© 2005 Gateway, Inc.
All rights reserved.

Gateway, Inc.
7565 Irvine Center Drive
Irvine, CA 92618 USA
All Rights Reserved

This publication is protected by copyright and all rights are reserved. No part of it may be reproduced or transmitted by any means or in any form, without prior consent in writing from Gateway.

The information in this manual has been carefully checked and is believed to be accurate. However, changes are made periodically. These changes are incorporated in newer publication editions. Gateway may improve and/or change products described in this publication at any time. Due to continuing system improvements, Gateway is not responsible for inaccurate information which may appear in this manual. For the latest product updates, consult the Gateway Web site at www.gateway.com. In no event will Gateway be liable for direct, indirect, special, exemplary, incidental, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages.

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

Gateway and eMachines are trademarks or registered trademarks of Gateway, Inc. in the United States and other countries. All other brands and product names are trademarks or registered trademarks of their respective companies.



MAN FPD2085/2185 USR GDE R2 12/05

