

XHD3000 30-inch Widescreen LCD Monitor

USERGUIDE



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CHAPTER 1

Checking Out Your Monitor

- Package contents
- Monitor features
- Remote control features

Package contents

Your monitor's box should contain the following items:



Monitor (base attached)



AC power adapter



Speaker bar
(optional on some models)



Universal remote control



Audio patch cable



EzTune software CD



DVI video cable



USB hub cable



Two AA batteries
(for remote control)



IR blaster cable



VGA video cable



AC power cord



User Guide

Monitor features

Front



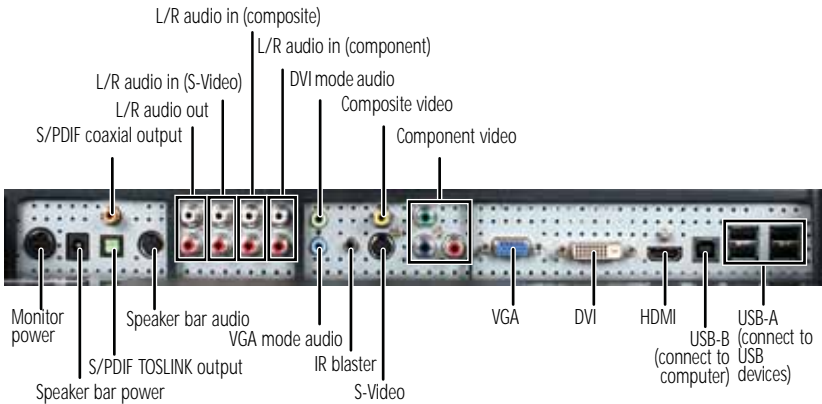
* For instructions on using the touch buttons, see ["Using the EzTouch menu"](#) on page 29.

Back



Monitor connections

Although this guide covers basic setup, refer to the following illustration for advanced audio and video setup help.



Connector	Use
S/PDIF coaxial output	Connect to the S/PDIF (digital) coaxial in jacks on a device to play the audio on that device.
L/R audio out	Connect to the audio in jacks on a standard two-channel stereo device to play the audio on that device.
L/R audio in (S-Video)	Connect to the L/R audio out jacks on the S-Video device.
L/R audio in (composite video)	Connect to the L/R audio out jacks on the composite video device.
L/R audio in (component video)	Connect to the L/R audio out jacks on the component video device.
DVI mode audio	Connect to the headphone/speakers jack on your computer for the DVI display mode's audio source.
Composite video	Connect to the composite video out jacks on a composite video source, such as a VCR.
Component video	Connect to the component video out jacks on a component video source, such as a high-end DVD player.
Monitor power	Connect to the monitor's AC power adapter.
Speaker bar power	Connect to the optional speaker bar.
S/PDIF TOSLINK output	Connect to the S/PDIF TOSLINK (digital optical) audio in jacks on a device to play the audio on that device.

Connector	Use
Speaker bar audio	Connect to the optional speaker bar.
VGA mode audio	Connect to the headphone/speakers jack on your computer for the VGA display mode's audio source.
IR blaster	Connect to the IR blaster sensor.
S-Video	Connect to the S-Video out jack on an S-Video video source, such as a DVD player.
VGA	Connect to a VGA jack on a VGA video source, such as your computer.
DVI	Connect to a DVI jack on a DVI video source, such as your computer.
HDMI	Connect to an HDMI jack on an HDMI video source, such as a set-top box.
USB-B	Connect to a standard USB port (USB-A) on your computer. This lets your monitor act as a USB hub.
USB-A	Connect to USB devices, such as cameras, printers, and flash drives.



**Important**

Your remote control works for your monitor, but you must program it to work for your other devices (such as cable or satellite set-top boxes and DVD players). For more information, see [“Programming the universal remote control” on page 54](#).

Button	Function
Select cable/satellite remote mode	For universal remote control functions, press to control your cable or satellite set-top box.
Select DVD remote mode	For universal remote control functions, press to control your DVD player.
Back menu	Press to go back one menu level (while in an on-screen menu).
Programming guide/DVD menu	Press to open your cable or satellite provider's programming guide (while in cable or satellite mode) or to open the DVD menu (while in DVD mode).
Channel recall	Press to return to the previous channel that was viewed.
Volume	Press to adjust the volume.
Input (video source select)	Press LCD , then press Input to select the video source. You can select DVI , HDMI , VGA , Composite , Component , or S-Video .
Power	Press to turn the monitor on and off. If using a display mode other than LCD, press to turn off the selected component.
Open Windows Media Center	While in LCD mode, press to open Windows Media Center. (Your computer must have a Windows Media Center IR receiver installed. IR receivers must be purchased separately.)
Select LCD remote mode	After using universal remote control functions (such as for a set-top box or DVD player), press this button to control your LCD monitor.
Playback controls	Press to operate the playback functions of the selected device.
Display on-screen information	Press to display the current resolution and video input mode.
Menu controls	Press to navigate through on-screen menus.
Clear/exit/cancel	Press to clear a character, exit a menu, or cancel a command. (Function depends on the current mode.)

Button	Function
Channel/skip chapter/tune (depends on mode)	Press to change the channel or skip chapters. (Function depends on the current mode.)
Mute	Press to mute the sound, and press again to restore sound.
Numeric keypad	Press to directly enter channel numbers, chapter numbers, or values in menu settings.
Menu	<p>Press to open the LCD panel's on-screen menu.</p> <p>Important: You may notice a delay when the Menu button is first pressed. The first time the Menu button is pressed, the on-screen menu changes from 2' mode (smaller sized menu that is controlled from the touch pad) to 10' mode (larger sized menu that is controlled from the remote control). If you press a button on the front panel after pressing the Menu button on the remote, you will experience another delay while the on-screen menu changes from 10' mode to 2' mode.</p>

CHAPTER2

Setting Up Your Monitor

- Connecting the monitor
- Setting up the optional speaker bar
- Positioning the monitor

Connecting the monitor

Connecting video inputs



Important

To use the monitor's full (highest) resolution (2560 × 1600), you must use the included dual-link DVI cable to connect the monitor to a dual-link capable video card on your computer.

A single-link DVI cable or video card limits resolution to 1920 × 1200.

VGA and HDMI connections are also limited to a maximum 1920 × 1200 resolution.



Tip

Because of your monitor's built-in video processing features, we recommend that if you use a DVD player that is not high-definition, you should disable your player's built-in up conversion and output video at 480i when possible.

► To connect your computer and other video sources to your monitor:

- 1 Position your computer and the monitor so you can reach the back of each.
- 2 Make sure that your computer is turned off, then connect the DVI video cable to the DVI video port (white) on your computer.

-OR-

If your computer has only an analog VGA (blue) port, connect the VGA video cable to the port.



Important

You should not connect to both the DVI and VGA ports on the same computer at the same time. However, you may connect up to three computers to the display at the same time using the DVI, VGA, and HDMI ports and switch between the inputs using the EzTouch controls or remote control.

- 3 Connect the other end of the video cable to the matching video port on the back of your monitor.



OR



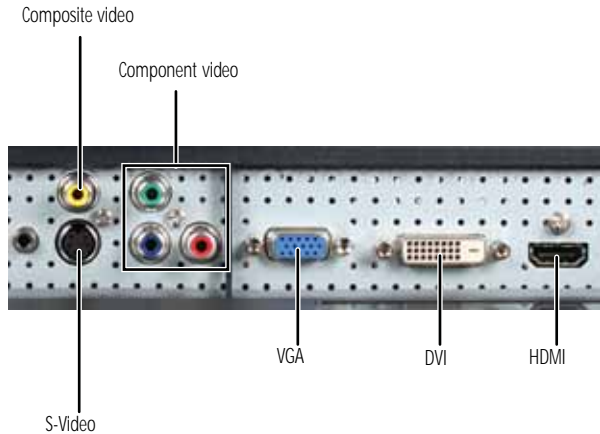
- 4 Connect other video sources (such as a DVD player, video camera, or video receiver) to the appropriate video jacks on the back of the monitor.
 - For *basic* video quality, connect your video device's **COMPOSITE** jack to the corresponding jack on the back of your monitor (cable not included).
 - 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** jacks (green **Y**, blue **Pb**, and red **Pr**) or **HDMI** jacks to the corresponding jacks on the back of your monitor (cables not included).



Important

When displaying standard-definition video (480i or 480p), you should set your video source device's output to **480i**. Your monitor has superior deinterlacing and video processing features that are best utilized on 480i video.

When displaying high-definition video (720p, 1080i, and 1080p), you should set your video source device's output to **1080i** for best performance.



- 5 Connect the audio inputs that correspond to the video inputs. For more information, see [“Connecting audio inputs and outputs”](#) on [page 14](#).

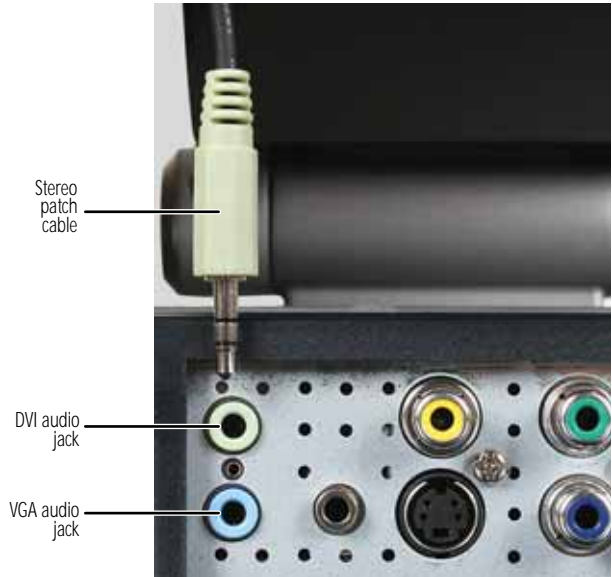


Connecting audio inputs and outputs

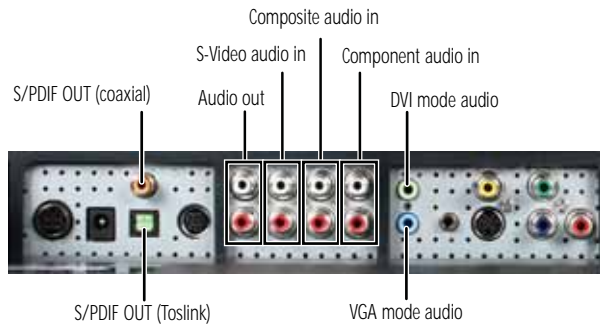
- To connect your computer and other audio sources to your monitor:

- 1 Position your computer and the monitor so you can reach the back of each.

- 2 Connect the stereo patch cable to your computer's headphone jack (green) and your monitor's DVI audio or VGA audio jack. This is the most basic audio connection for your computer.



- 3 Connect other audio sources (such as a DVD player or audio receiver) to the appropriate audio jacks on the back of the monitor.
 - For *basic* audio quality, connect your audio source to the **L/R** (two-channel stereo) audio in jacks for the device. Your monitor has L/R stereo jack pairs that are associated with S-Video, Composite (standard), and Component video modes (cables not included).
 - For *best* audio performance, if your video connection uses HDMI, the digital audio is also conveyed along the same cable, and no additional audio connection is required. You may need to set your video source's audio mode to **PCM** or **ANALOG** to hear the audio. See your source device's user guide for more information.



Important

The connector type used for S-Video, Composite, and Component audio inputs is also known as an RCA connector.



Important

The connector type used for DVI mode audio and VGA mode audio inputs is also known as a 3.5mm stereo connector.



You can connect your monitor to another audio device, such as an audio receiver, to project the sound.

- ▶ **To connect your monitor to a receiver or other audio device:**
 - For *basic* audio quality, connect your audio device to the **L/R** (two-channel stereo) audio out jacks on the back of the monitor.

-OR-

For *best* audio performance, you can connect your audio device to one of the S/PDIF output jacks. All analog audio inputs routed into the monitor are output on the S/PDIF output ports.



Connecting power

- ▶ **To connect power:**
 - 1 Position your monitor so you can reach the back.
 - 2 Plug the adapter's power cord into the power connector under the back of the monitor. The power cord is locked into place.



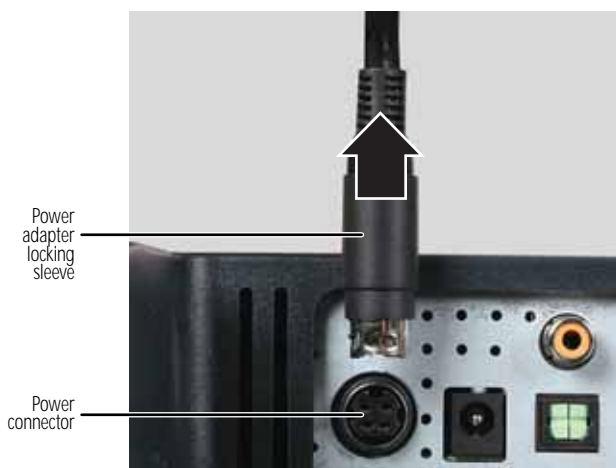
Caution

Make sure that the pins in the power cord line up with the holes in the power connector. Failure to do so may result in bent or broken pins.



Caution

Plug the power adapter into the monitor before you plug the power adapter into a power outlet.



- 3 Plug the AC power cord into the AC power adapter, then plug the AC power cord into a power outlet. We recommend using a surge protector to protect your monitor from voltage spikes.



Caution

Do not block the ventilation openings in the power adapter. Make sure to place the adapter in a well-ventilated area.

- 4 To make sure that the monitor's power is correctly connected, check the power touch button on the front button panel. The power icon on the power button glows blue when plugged in or amber when no source is detected. The button glows purple when the monitor is turned off. If the power icon is not visible, power is not connected.



Important

The first time AC power is connected, the monitor initializes for about 15 seconds. While it is initializing, two of the buttons on the touch panel flash alternately. The monitor is unresponsive when AC power is initially connected. When the buttons stop flashing, the monitor turns on and looks for any incoming video signals (see [“Starting the monitor” on page 28](#)).






Disabling the automatic product tour

The monitor is configured at the factory to automatically begin playing a brief tour of the product and its features whenever the monitor is turned on and no input signal is present. We encourage you to watch this tour to learn about the features and capabilities of your monitor display.

► To disable the product tour:

- 1 Touch  (Menu).

- 2 Touch  (**Main Menu**),  (**Advanced**),  (**Integrated Product Tour**), then touch  (**Disable**). The product tour is disabled.

After the tour is disabled, you can view it again at any time by pressing and holding the power button for five seconds.

For more information on using the touch buttons, see ["Using the EzTouch menu" on page 29](#).



Setting up the optional speaker bar

An optional speaker bar, which has excellent sound, is available for mounting underneath your monitor. You can order a speaker bar from www.gateway.com.

► To install the speaker bar:

- 1 Turn off the monitor.



Important

If you connect the speaker bar to the monitor while the monitor is turned on, the speaker bar will not initialize and will not work correctly. If this happens, turn the monitor off, then back on to enable the speaker bar.

- 2 Remove the three thumbscrews from the back of the monitor.



- 3 Slide the speaker bar onto the bottom of the monitor, then use the three thumbscrews to secure it into place.

- 4 Plug the speaker bar's power and audio plugs into the appropriate connectors underneath the monitor.



Speaker bar power

Speaker bar audio

For information on using the speaker bar, see [“Using the speaker bar” on page 40](#).



Connecting the USB hub

Your monitor has a built-in, powered, USB 2.0 6-port hub. When connected to your computer's USB port, the hub provides six USB ports for connecting as many as six USB-compatible devices.



Important

For the monitor's USB hub to provide high-speed USB 2.0 connections, the hub must be connected to a USB 2.0 port on your computer. If the hub is connected to a USB 1.1 port, the monitor's ports will provide only the slower USB 1.1 connections.



Important

This monitor requires a driver to work correctly. The driver is included on the EzTune installation CD.

► To connect the USB hub:

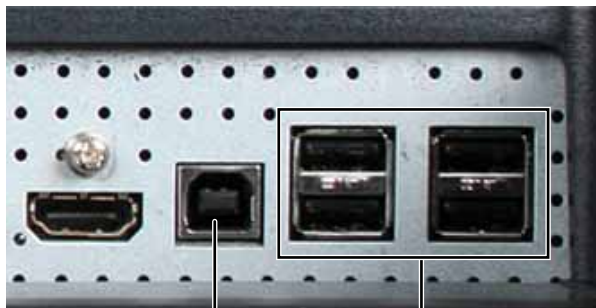
- 1 Turn on your computer, then install the EzTune software from the included EzTune installation CD.
- 2 Position your monitor so you can reach the back.

- 3 Connect the included USB cable to the USB-B port on the back of the monitor, then connect the other end of the cable to a USB-A (standard) port on your computer.



Important

Only the computer and monitor should be connected during the first installation and bootup. Do not plug any devices into the USB-A ports at this time. After the USB driver is installed, it is safe to plug additional devices into the monitor's USB hub.



USB-B port (connect to computer)

USB-A hub ports

Additional USB jacks

Additional USB jacks are located on the left side of the monitor.



USB -A ports

Connecting a security cable

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



Cable lock slot

Preparing the remote control

Your monitor's universal remote control comes with batteries that you must install before using it.

► **To install batteries into the remote control:**

- 1 Remove the battery compartment cover on the back of the remote control.



- 2 Insert the batteries while matching the + and - symbols on the diagram inside the battery compartment, then close the battery compartment cover.



Important

Your remote control works for your monitor, but you must program it to work for your other devices (such as cable satellite set-top boxes and DVD players). For more information, see ["Programming the universal remote control" on page 54](#).



Positioning the monitor

You can adjust the monitor for left and right pan and up and down tilt angle.



Ergonomic guidelines

The recommended screen positioning is 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) your eye level while you are 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 your 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 screen should first be placed at arm's length from the user, then adjusted back and forth to suit individual preference.

CHAPTER 3

Using Your Monitor

- Starting the monitor
- Using the EzTouch menu
- Adjusting monitor settings
- Changing Windows screen settings
- Using the speaker bar
- Power management
- Maintaining

Starting the monitor



Caution

If you plan to connect your monitor's USB hub to the computer's USB port, first install the included EzTune software onto your computer.

Turning on the monitor

► To start the monitor:

- 1 Touch the power button on the front of monitor. The power LED on the power button changes from purple (off) to blue (on), then turns amber/orange (standby) if no video source is detected.



Tip

For more information on using your monitor's touch buttons, see ["Using the EzTouch menu" on page 29](#).



Power button

- 2 Turn on your computer. After your computer is running, the power LED on the monitor's power button should be blue, indicating that the monitor has detected a video source. Allow about 15 seconds for the display image to appear.

If you do not see an image after waiting 15 seconds, check the color of the power button light.

- No light—The monitor is not receiving power. Make sure that the monitor is plugged into an AC outlet.
- Purple—The monitor is turned off. Press the power button to turn it on.

- **Amber**—The monitor is not detecting a video source. Check the video input connections and make sure that the computer is turned on and connected correctly to the monitor.
- **Blue**—The monitor is detecting a video source.

For more troubleshooting information, see [“Troubleshooting” on page 43](#).



Tip

The first prompt you see is the language selection menu settings. You must select a default language for the OSD before you can proceed. To modify the language you select at a future time, use the Advanced menu. If you cannot access the Advanced menu because you chose a language you cannot read, do the following:



- Unplug the monitor from the power outlet for ten or more seconds.
- Plug the monitor back into the power outlet.

You will be prompted for the language selection menu settings again.



Important

If you turn on the monitor and no video inputs are connected, the product tour starts. To disable the product tour, see [“Power management” on page 41](#).

- 3 Adjust the tilt of the monitor for the best viewing angle.
- 4 **For VGA input only:** After you see the Windows desktop, touch  (**Menu**) on the front of your monitor, then touch  (**Auto**) 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 [“Using the EzTouch menu” on page 29](#).



Using the EzTouch menu

This monitor features an on-screen display (OSD) and EzTouch menu buttons that let you adjust settings. Your monitor saves the settings, even if you turn off the monitor. Your monitor has two levels of menus, and the functionality of the touch buttons depends on the menu that is currently open:

- The shortcut menu (the first menu that appears) lets you quickly change some of the most commonly accessed settings.
- The main menu lets you access all of the functions of the display and precisely adjust all levels of settings.

Using the shortcut menu

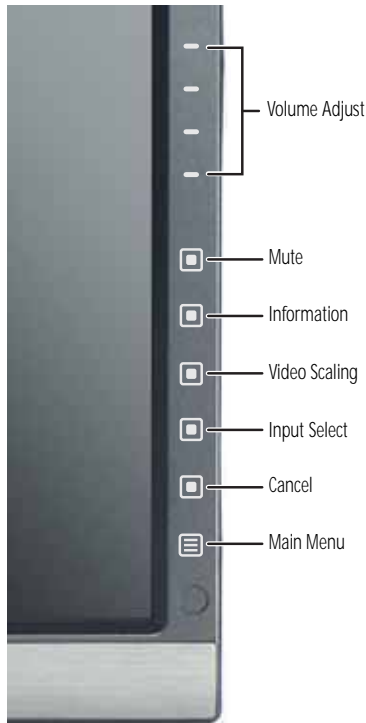
► To use the shortcut menu:





Tip

To use an EzTouch menu button, lightly touch it.

- 1 Touch (**Menu**) on the front of your monitor. The rest of the buttons light up and the shortcut menu opens. (The menu's appearance and choices vary, depending on the currently active video input and whether the speaker bar is attached.)






- Slide your finger up or down the (**Volume Adjust**) button area to increase or decrease the volume level.
- Touch (**Mute**) to mute all sound.
- Touch (**Information**) to see information about the current video source. The type of information you see varies based on the type of video source.
- Touch (**Video Scaling**) to scale images to fill the screen. For more information, see [“Video Adjust menu” on page 35](#).

- Touch  (**PIP On**) to turn on Picture-in-Picture, and press  (**PIP Settings**) to adjust the PIP position, size, and other advanced PIP settings. PIP adjustments may also be made using the included EzTune software. You must have multiple video sources connected for these options to be available. PIP is only available when DVI is selected as the main input and the display is set to 2560 x 1600 (dual-link DVI connection required).



Tip

PIP On and **PIP Settings** are only available when a Dual-Link DVI source is connected.

- Touch  (**Input Select**) to switch to another available video source.
- Touch  (**Cancel**) to exit the shortcut menu. You can also wait about 30 seconds without pressing a button, after which the menu closes by itself.
- Touch  (**Main Menu**) to open the main menu.




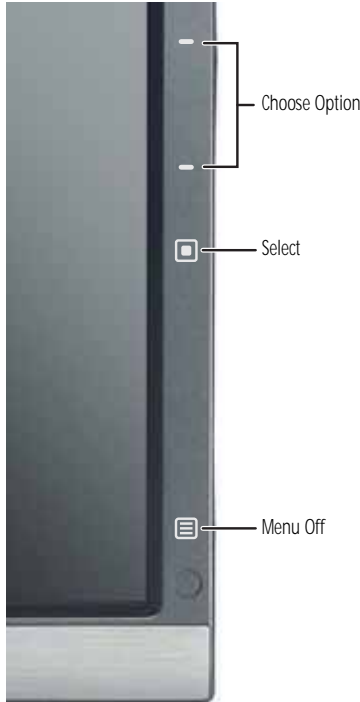
Important

The button functions change depending on the menu you are in.

Using the main menu


► To use the main menu:

- 1 Touch  (**Menu**) on the front of your monitor. The rest of the buttons light up and the shortcut menu opens.



Important

The EzTouch menu buttons are very sensitive, and may be “pressed” by holding your finger just above their surface. To completely “release” a touch button, make sure that you lift your finger well away from the button.

- 2 Touch  (**Main Menu**). The main menu opens.



Tip

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

You can select from the following settings:

- **Auto**—Automatically optimizes the monitor’s display settings to match the selected video source.
- **Picture**—Lets you change **Brightness**, **Sharpness**, **Contrast**, **Gamma**, **Black Level**, **Saturation**, and **Hue** settings.

- **PIP Settings**—Lets you change the PIP position, size, and other advanced PIP settings.
- **Video Adjust**—Lets you change **Theme Mode**, **Color Temp**, and **Video Scaling** settings.
- **Geometry**—Lets you change **Horizontal Position**, **Vertical Position**, **Clock**, and **Phase** settings.
- **Audio**—Lets you change **Volume**, **Bass**, **Treble**, **3D Audio**, **Audio Source**, **Auto Delay**, and **Manual Delay** settings.
- **Advanced**—Lets you change **Color**, **Language**, **LED Mode**, **DVI Video Mode**, **Resolution Reminder**, **IR Training**, **Auto Input Detection**, **Integrated Product Tour**, and **Information** settings.
- **Reset**—Resets all settings to their factory defaults.



Tip

For more detailed explanations of the menu choices, see [“Adjusting monitor settings” on page 33](#).

- 3 Touch one of the (**Choose Option**) buttons to highlight a setting, then touch (**Select**) to open the selected menu or setting.
- 4 Touch one of the (**Adjust**) buttons to adjust the setting or change the option.
- 5 Touch (**Back**) to return to a previous menu.
- 6 When you have finished making all adjustments, touch (**Menu Off**) to exit. Your changes are saved.



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 [“Changing Windows screen settings” on page 38](#). For more information about monitor controls, see [“Using the EzTouch menu” on page 29](#).



Tip

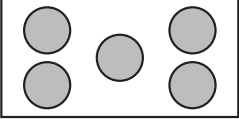
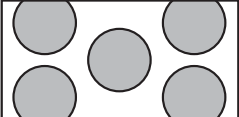
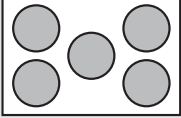
Many common settings for VGA, DVI, and HDMI (PC only) can also be adjusted and controlled using the EzTune software included with your monitor. After installing EzTune, see the program's online help.

Using monitor menus

Use the monitor's on-screen display (OSD) menus to change settings and select inputs.

OSD Menu	Description
Main menu	<p>Auto—Automatically adjusts your monitor to its optimum settings. (VGA input only)</p> <p>Picture—Opens the Picture menu, where you can adjust brightness, contrast, and gamma.</p> <p>PIP Settings—Opens the PIP Settings menu, where you can adjust the source, position, size, and transparency of the Picture-in-Picture image.</p> <p>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.</p> <p>Geometry—Opens the Geometry menu, where you can adjust image size and minimize distortions.</p> <p>Audio—Opens the Audio menu, where you can adjust volume, bass, treble, 3D audio, audio source, auto delay, and manual delay.</p> <p>Advanced—Opens the Advanced menu, where you can adjust color balance, change the OSD language, and display information about current monitor settings.</p> <p>Reset—Resets the monitor to its factory settings for the currently displayed input.</p>
Picture menu	<p>Brightness—Adjusts the amount of light in all portions 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.</p> <p>Sharpness—Adjusts the clarity of the image.</p> <p>Contrast—Adjusts the level of white between the lightest and darkest portions of an image.</p> <p>Gamma—Customizes the gamma level. High gamma levels increase white levels and low gamma levels increase contrast.</p> <p>Black Level—Adjusts the brightness level in the darkest part of the image.</p> <p>Saturation—Adjusts the intensity of a hue. High saturation results in very bright, vivid colors. Low saturation results in grayish colors.</p> <p>Hue—Adjusts the color spectrum of the display.</p>

OSD Menu	Description
PIP Settings menu	<p>PIP Display—Toggles the display of the PIP window.</p> <p>PIP Source—Sets the source of the video used in the PIP window.</p> <p>PIP Position—Sets the position of the PIP window on the main screen.</p> <p>PIP Size—Sets the size of the PIP window.</p> <p>PIP Transparency—Sets the transparency of the PIP window. 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.</p> <p>PIP Full or PIP Restore—Makes the PIP image full screen and restores the PIP to its original size.</p> <p>PIP Picture—Opens a menu where you can set the PIP brightness, contrast, sharpness, black level, saturation, and hue.</p> <p>Important: PIP is only available when you are displaying PC input as the main input and the monitor is set to 2560 x 1600 (dual-link DVI connection required).</p>
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 2560 × 1600.</p> <p>Theme Mode - Activates the built-in color engine to enhance the graphic effects according to what is displayed on the screen. Choose from Web, Game, Movie, Picture, or Custom.</p> <p>Color Temp – Adjusts the tints of the colors in the picture. Choose from Cool, Neutral, and Warm</p> <p>Sharpness—Adjusts sharpness for video images.</p> <p>Film Mode Detection—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>

OSD Menu	Description
Video Adjust menu (cont)	<p data-bbox="295 191 896 264">Video Scaling—Sets video aspect ratios and scaling between Wide, Zoom, and 1:1 modes. PC input: sets resolution aspect ratios and scaling between Wide, Zoom, and 1:1.</p> <p data-bbox="295 289 636 500"><i>Wide mode</i> 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 data-bbox="295 548 689 719"><i>Zoom mode</i> 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 data-bbox="295 768 896 963"><i>1:1 mode</i> 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 data-bbox="295 979 896 1027">Noise Reduction—Uses noise reduction filters that adapt to the amount of noise and motion from the video source.</p> <p data-bbox="295 1027 896 1101">Cross Color Reduction—Reduces cross-color artifacts, such as unintentional flashing colors or rainbow patterns, that result from composite video signals.</p> <p data-bbox="295 1101 896 1222">Overscan—A video signal is often displayed slightly cut off at all edges. If Overscan is turned off, you may notice strange video anomalies on the edges of the video being displayed. This is normal and is part of the data embedded in any video signal. To avoid seeing these anomalies, turn Overscan on.</p>

OSD Menu	Description
Geometry menu	<p>Horizontal Position—Moves the display image left and right. You can also press the Auto button to configure the vertical and horizontal position automatically. Important: Auto only works with VGA input.</p> <p>Vertical Position—Moves the display image up and down. You can also press the Auto button to configure the vertical and horizontal position automatically. Important: Auto only works with VGA input.</p> <p>Clock—Minimizes any vertical bars or stripes visible on the screen background. The horizontal screen size will also change. Gateway recommends that you do not adjust the Clock setting.</p> <p>Phase—Minimizes any horizontal distortion and clears or sharpens the displayed characters. Gateway recommends that you do not adjust the Phase setting.</p>
Audio menu	<p>Volume—Adjusts volume.</p> <p>Bass—Adjusts bass tones.</p> <p>Treble—Adjusts treble tones.</p> <p>3D Audio—Enables simulated surround sound.</p> <p>Audio Source—Selects the audio source. Allows the audio source to be set to the main or PIP window. When set to PIP window and the PIP is displayed on screen, the audio being played switches from the main to the PIP window. When the PIP window is closed, the main audio is heard. When set to main, PIP audio is only heard when the PIP is set to full screen.</p> <p>Auto Delay—Automatically adjusts the audio to be in sync with the video. Audio and video may be out of sync due to the time it takes to process the video information verses the time it takes to process the audio information.</p> <p>Manual Delay (ms)—If auto delay does not adequately sync the audio and video signals, you can manually sync the two signals. The audio delay can be adjusted in milliseconds.</p>

OSD Menu	Description
Advanced menu	<p>Color—Customizes the color levels.</p> <p>Language—Changes the language of the OSD.</p> <p>LED Mode—Changes the brightness of the Menu, 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.</p> <p>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).</p> <p>IR Training—Trains other universal remote controls to learn the IR commands that control the monitor features. Use this option if you prefer not to use the included monitor remote control.</p> <p>Input Search—Enables automatic searching for valid video inputs. If set to disabled, you must manually change the input using the touch pad or remote control. If set to enabled, the monitor automatically searches for an active input and displays it when one is found.</p> <p>Integrated Product Tour—Enables the product tour. If set to enabled and if there are no active video inputs found, the display automatically starts the product tour when the display is turned on. After watching the product tour, you should set this feature to disabled. You can watch the product tour again by pressing and holding the Menu button for three seconds.</p> <p>Resolution Reminder—If the computer display input (VGA, single-link DVI, or HDMI-PC only) is not set to 1920 × 1200 or if the computer display input (dual-link DVI) is not set to 2560 × 1600, displays a reminder that you should change your computer's settings to use the optimum 1920 × 1200 or 2560 × 1600 resolution. If you prefer using your monitor at a resolution less than the optimum, use this option to turn off the Resolution Reminder. For information on changing your computer's display resolution, see "Changing Windows screen settings" on page 38.</p> <p>Information—Displays current screen resolution and input source for the main display.</p> <p>Reset All—Resets all values to the factory settings.</p>

Changing Windows screen settings

Color depth and screen resolution are two of the most basic monitor settings you may need to change to suit your needs.

Color depth is the number of colors your computer uses to display images on your monitor. Most images look best displayed with the maximum number of colors available. 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 the highest color setting, if necessary.

Screen resolution is the number of pixels (individual colored dots) your computer uses to display images on your monitor. The higher the resolution, the more information and screen components (such as icons and menu bars) can be displayed on the monitor.



Important

To use the monitor's full (highest) resolution (2560 × 1600), you must use the included dual-link DVI cable to connect the monitor to a dual-link capable video card on your computer.

A single-link DVI cable or video card limits resolution to 1920 × 1200.

VGA and HDMI connections are also limited to 1920 × 1200 resolution.



Tip

If the video image appears corrupt or garbled after you change resolution settings, your video card may not be capable of supporting the selected resolution.



Help

For more information about adjusting the screen, click **Start**, then click **Help and Support**. Type **adjusting monitor settings** in the **Search Help** box, then press **ENTER**.

► To change the color depth and screen resolution in Windows Vista®:

- 1 Click **® (Start)**, **Control Panel**, then under **Appearance and Personalization**, click **Adjust Screen Resolution**. The *Display Settings* dialog box opens.



Shortcut

You can also right-click on your Windows desktop, then click **Personalize**.

- 2 To change the color depth, click the **Colors** list, then click the color depth you want.

Color quality settings:

- **Low (8-bit)** = 256 colors
- **Medium (16-bit)** = 65,500 colors
- **Highest (32-bit)** = 16,700,000 colors

- 3 To change the screen resolution, drag the **Resolution** slider to the size you prefer.
- 4 Click **Apply**. If the new settings do not look right, click **No**. If the new settings make the screen illegible and you cannot click **No**, the settings return to their previous values after several seconds.
- 5 Click **OK**, then click **Yes** to save your changes.



► To change the color depth and screen resolution in Windows XP:

- 1 Click **Start**, then click **Control Panel**. The *Control Panel* opens. If your Control Panel is in Category View, click **Appearance and Themes**.



Shortcut

You can also right-click on your Windows desktop, then click **Properties**.

- 2 Click **Display**. The *Display Properties* dialog box opens.
- 3 Click the **Settings** tab.
- 4 To change the color depth, click the arrow button to open the **Color quality** list, click the color depth you want.
Color quality settings:
 - **Low (8-bit)** = 256 colors
 - **Medium (16-bit)** = 65,500 colors
 - **Highest (32-bit)** = 16,700,000 colors
- 5 To change the screen resolution, drag the **Screen resolution** slider to the size you prefer. The optimum resolution for your display is **2560 × 1600**.
- 6 Click **Apply**. If the new settings do not look right, click **No**. If the new settings make the screen illegible and you cannot click **No**, the settings return to their previous values after several seconds.
- 7 Click **OK**



Using the speaker bar



Important

If you connect the speaker bar to the monitor while the monitor is turned on, the speaker bar will not initialize and will not work correctly. If this happens, turn the monitor off, then back on to enable the speaker bar.

► To turn on the speaker bar:

- The speaker bar is always on. If you connected the speaker bar by following the instructions in [“Setting up the optional speaker bar” on page 19](#), the speaker bar receives power constantly from the monitor’s speaker bar power connector.



► **To use headphones:**

- Plug headphones into either of the speaker bar's headphone jacks. The speaker bar's volume is muted, and sound is played through the connected headphones. You can connect headphones to both headphone jacks, and sound plays out of both sets of headphones.








Power management

Whenever no video signal is detected by your monitor, it enters Standby mode, a mode that uses very little power. When in Standby mode, the power button turns orange. Turning off your computer stops its video signal to the monitor, so if your computer is the only video source connected, your monitor enters Standby.

If the monitor does not enter Standby, and instead displays a prompt for the product tour, you should disable the product tour.

► **To disable the product tour and enable Standby mode:**

- 1 Touch  (**Menu**),  (**Main Menu**), then touch  (**Advanced**).
- 2 Touch one of the  (**Adjust**) buttons to select **Integrated Product Tour**, then press  (**Select**) to disable the tour.



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	≤168 W
Standby	Amber	≤19 W
Off	Purple	≤19 W

To “wake” the monitor when it is in Standby/Active Off mode, move the mouse or press any keyboard key. You can change the monitor’s power management settings using the Windows Control Panel. For more information, see your computer’s User Guide.

Maintaining

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.



Caution

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

- To clean the monitor, use a soft cloth slightly moistened with water only. Wipe the cabinet, screen, and controls.

CHAPTER 4

Troubleshooting

- [Troubleshooting guidelines](#)
- [Troubleshooting symptoms](#)
- [HDCP FAQs](#)
- [Video FAQs](#)

Troubleshooting guidelines

- If you have problems with the monitor, the information in this chapter may help you solve them without needing to call Customer Care.
- Make sure that the monitor has warmed up for about 30 minutes before making any judgments about the picture quality.

Troubleshooting symptoms

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 power” on page 17](#).





Important

If the power LED is on, the monitor is receiving power.

No picture

- Touch  (**Menu**), then touch  (**Input Select**) 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 power” on page 17](#).
- 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 video inputs” on page 12](#).
- Make sure that the monitor is turned on.
- Reset the monitor to the factory settings. For more information, see [“Advanced menu” on page 38](#).

- If the power LED is orange, it means that the monitor is not detecting a video source or input detection is disabled. Complete the following steps:
 - Move the mouse or press any key on the keyboard to bring the computer monitor out of sleep mode.
 - Press **Input** on the remote control to choose another input or touch  (**Menu**), then touch  (**Input Select**) to choose another input.
 - Make sure that your computer is turned on.
 - 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.
 - Reset the OSD. For more information, see [“Advanced menu” on page 38](#).



Important




If the monitor is not detecting a video signal, you will see a “No Signal” message on the display followed by a “No Input Detected” message. At this point, a video tutorial will play.

- 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 video inputs” on page 12](#).




You have the monitor connected to your notebook's VGA port but see no image on the screen.

- 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.

Display colors are wrong

- Touch  (**Menu**),  (**Main Menu**), then  (**Auto**) to automatically adjust the display image to the ideal settings. (VGA input only.)
- 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 video inputs” on page 12](#).
- 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”

- Touch  (**Menu**),  (**Main Menu**), then  (**Auto**) to automatically adjust the display image to the ideal settings. (VGA input only.)
- 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 video inputs” on page 12](#).
- 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.
- Make sure that your monitor connection is using the VGA cable that came with your monitor.

Color is not uniform











- Touch  (**Menu**),  (**Main Menu**), then  (**Auto**) to automatically adjust the display image to the ideal settings. (VGA input only.)
- 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

- Touch  (**Menu**),  (**Main Menu**), then  (**Auto**) to automatically adjust the display image to the ideal settings. (VGA input only.)
- Use the position controls to adjust the image. For instructions on how to adjust the display image position, see ["Adjusting monitor settings" on page 33](#).

If you see black bars on left and right of the screen and want to stretch the video to fit more of the screen:

- Touch  (**Menu**),  (**Main Menu**),  (**Video Adjust**), then touch  (**Video Scaling**). To fill more of the screen, choose **Wide**, **Zoom**, or **1:1** modes.

Bad picture



Important

To use the monitor's full (highest) resolution (2560 × 1600), you must use the included dual-link DVI cable to connect the monitor to a dual-link capable video card on your computer.

A single-link DVI cable or video card limits resolution to 1920 × 1200.

VGA and HDMI connections are also limited to 1920 × 1200 resolution.

The image looks stretched or fuzzy when you connect the monitor to your computer

- You must adjust the operating system's display settings to match the monitor's optimal (*native*) 2560 × 1600 setting (available only on systems using a dual-link DVI cable attached to a dual-link DVI-capable video card). VGA, HDMI, or a single-link DVI cable or video card have a maximum resolution on this monitor of 1920 × 1200. For information on adjusting settings in Windows, see ["Changing Windows screen settings" on page 38](#).

You do not see 2560 × 1600 available in the Windows display control panel

- Make sure that your video card can display at 2560 × 1600 resolution. If you have only a single-link DVI cable or video card, the maximum resolution you can display on this monitor is 1920 × 1200.
- Make sure that you are using either the DVI cable that came with your monitor or a third party cable that is dual-link capable.
- Some video cards that have two DVI ports support dual-link on one of the DVI ports. Turn off your computer, move the DVI cable to the alternate DVI port, then restart your computer.

- This may be caused by older video drivers on your computer. See the Gateway support Web site at www.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®: www.ati.com
Intel®: www.intel.com
Nvidia®: www.nvidia.com

You see “noise” or “trash” on the screen

- The signal on HDMI or DVI-D may be HDCP encoded. If the signal is not decoded correctly, the video either flashes or shows colored *snow*.
 - Make sure that the output device is directly plugged into the monitor (remove any video switchers/receivers).
 - Unplug the HDMI or DVI cable to reestablish a connection with the output device.
 - Stop and restart the output device to allow renegotiation.

Gaming support

Your games do not have support for widescreen displays.

- 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: 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.

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.

Speaker bar does not work

You installed the speaker bar, but no sound is coming out of the speakers.

- Make sure that the speaker bar power cord is plugged into the power connector on the back of your monitor and that the monitor is plugged into an AC power outlet.
- Make sure that the speaker bar's audio cable is plugged into the speaker bar audio jack on the back of your monitor.
- Make sure that the cable from the audio output jack on your device is plugged into the correct audio input jack on the monitor. For more information, see ["Connecting audio inputs and outputs"](#) on [page 14](#).
- If you are using HDMI audio, you must set your device to output audio in PCM mode. See the user guide that came with your device for more information.
- If you just finished installing and connecting the speaker bar, restart your monitor so that it can recognize the new speaker bar.
- Make sure that the volume is turned up.
- Make sure that headphones are not plugged into the headphone jacks on the sides of the speaker bar. When headphones are connected, no sound comes out of the speaker bar's speakers.
- Your headphone/speaker jack may have been muted using Windows sound controls. To check your headphone/speaker mute settings, click the speaker icon in the Windows taskbar, or click **® (Start), Control Panel, Sounds and Audio Devices**, the **Volume** tab, then click **Advanced**. For optimum volume control using the speaker bar, we recommend that you set the Windows volume mid-way between the lowest and highest setting.

You want to plug in your headphones, but there is a headphone jack on both sides of the speaker bar.

- You can use either jack or both jacks at the same time. When headphones are connected, no sound comes out of the speaker bar's speakers.

You do not get sound from your headphones.

- Make sure that your speaker bar is connected to an audio source by unplugging your headphones and adjusting the speaker bar's volume.

The sound coming from the speakers sounds distorted.

- Turn down the volume until the distortion disappears.
- Check the audio output volume of the sound device the speaker bar is connected to. If the audio device's output volume is set too high, the speaker bar's sound may always be distorted. To adjust the audio device's output volume, see the device's user guide. To adjust the volume in Windows, click the speaker icon in the Windows taskbar, or click **@ (Start), Control Panel, Sounds and Audio Devices**, the **Volume** tab, then click **Advanced**. For optimum volume control using the speaker bar, we recommend that you set the Windows volume mid-way between the lowest and highest setting.

HDPC FAQs

What is HDPC and how do I troubleshoot it?

- High-bandwidth Digital Content Protection (HDPC) is a specification developed by the Intel® Corporation to protect digital entertainment content that uses a digital visual interface (DVI), including HDMI connections. HDPC 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, or projector). HDPC 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.

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.

My computer has an HD-DVD or Blu-Ray DVD player and I receive an error message when I try to play an HD or Blu-Ray DVD

- This issue occurs when you have your PC desktop set to 2560 x 1600 (Dual-Link mode) resolution. Currently, PC graphics cards are incapable of negotiating the HDCP key while in Dual-Link mode. HDCP key negotiation is required to play consumer High Definitions DVDs. To resolve this issue, set your Windows desktop resolution to 1920 x 1200 before playing your HD or Blu-Ray DVD. For more information about adjusting settings in Windows, see ["Changing Windows screen settings" on page 38](#).

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 monitor.

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 FAQs

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.
- You can also optimize the video scaling settings in the monitor. Touch  (**Menu**),  (**Main Menu**),  (**Video Adjust**), then touch  (**Video Scaling**). To change to the mode you want, choose **Wide**, **Zoom**, or **1:1** modes.





When I try to use Picture in Picture (PIP), why can I not select other video inputs?

- PIP is available only when 2560 × 1600 PC video over dual-link DVI is selected as the primary video source.

Can I connect my game console to this monitor?

- Yes. Using optional video cables you can connect your game console directly to the monitor. Use Component Video (YPbPr) or HDMI if your game console supports it, because this results in the best picture quality.

When playing DVDs or watching video sources, I sometimes see random black and white noise at the top of the picture.

- This information is known as the Vertical Blanking Interval or VBI data. This is typically where information such as sub-titles or closed captioning text is stored on a video frame by frame basis. To remove this information, Touch  (**Menu**),  (**Main Menu**),  (**Video Adjust**), then touch  (**Overscan**) to set this option to enabled. The video will slightly zoom to eliminate this effect.

CHAPTER 5

Using the Universal Remote Control

- Programming the universal remote control
- Using the IR Blaster
- Remote control programming codes

Programming the universal remote control

You can program the remote control directly (by entering a five-digit code) or by browsing codes.

► **To directly program the remote control with a code:**

- 1 Press and hold the mode button (**CBL/SAT**, **DVD**, **LCD**, or **MEDIA CENTER**) for the device you want to program for about four seconds. The LED flashes twice, indicating that the button is ready to be programmed.
- 2 Press the five-digit code for the device. After the code is entered, the LED flashes twice, indicating that programming is complete.

If an invalid key or code is entered, or if ten seconds passes without a button press, programming mode ends and the previous values are restored. The LED lights for about a half second, then turns off.



► **To program the remote control by browsing through the most common codes:**

- 1 Press and hold the mode button (**CBL/SAT**, **DVD**, **LCD**, or **MEDIA CENTER**) for the device you want to program for about four seconds. The LED flashes twice, indicating that the button is ready to be programmed.
- 2 Press **991**, then press the digit that corresponds to the type of device you want to associate with that mode's button:

Device type	Digit
LCD	0
DVD	1
CBL/SAT	2
Media Center	3
Tuner	4

The remote is temporarily programmed with the first most common code for the selected device type.

- 3 Press the control buttons (power, **Vol+**, play, stop, and **Mute**) to test whether the current code is valid. If the buttons work as they should, press the mode button you pressed in step 1 once to save the code. The LED blinks twice. You are done.

- OR -

If the buttons do **not** work as they should, press **CH+** to temporarily program the next most common code, then press the control buttons again. Keep pressing the test and **CH+** buttons until you find a code that works. When you find a working code, press the mode button you pressed in step 1 once to save the code. The LED blinks twice, and you are done.



Resetting the remote control

You can clear all programming and reset all remote control settings to their factory defaults.

► To reset the remote control:

- 1 Press and hold a mode button (**CBL/SAT**, **DVD**, **LCD**, or **MEDIA CENTER**) for about four seconds. The LED flashes twice.
- 2 Press **977**. The LED flashes four times indicating that the remote control is reset to its factory defaults.



Recording with the remote control

You can use the universal remote control to record video from a compatible recordable video device. To prevent the accidental recording of video, you must press the record button twice before recording can start.

► To record a program:

- 1 Press and hold a mode button (**CBL/SAT**, **DVD**, **LCD**, or **MEDIA CENTER**) for the device you want to record from.
- 2 Press the record button. Recording begins.



Detecting low batteries

Your remote control's batteries can last several months of standard use, but you will need to replace them from time to time with fresh batteries.

► **To test your remote control's batteries:**

- Press and release any button on the remote control. If the batteries need to be replaced, the LED flashes five times.



Important

While the batteries are low, the remote control cannot enter programming mode.



Using the IR Blaster

You can use the provided IR Blaster cable to control a device such as a DVD player, cable or satellite box, or computer with a Windows Media Center IR receiver. By using the IR Blaster, you can place the device in an out of the way location where you do not normally have line-of-sight with the remote control.



Important

Do not connect the IR Blaster until after you have programmed the remote control for the device you want to control. For more information, see ["Programming the universal remote control" on page 54](#).

► **To connect the IR Blaster:**

- 1 Plug the IR Blaster into the IR Blaster connector located on the back of the monitor. For the location of the IR Blaster connector, see ["Monitor connections" on page 5](#).
- 2 Peel the backing off of the double-sided tape that is attached to the IR Blaster emitter.
- 3 Stick the emitter over the IR receiver on the device you want to control.



► **To use the IR Blaster:**

- 1 Point the remote control at the monitor, then press the mode button for the device you want to control. (For example, if you want to pause the DVD player, press **DVD**.)
- 2 Press the control button for the device. (For example, press the pause button.) The monitor rebroadcasts the command from the remote control to the device.



Remote control programming codes

Default device ID codes

Your remote control has the following codes programmed into it from the factory:

Remote control mode	Default device	Code
LCD	Gateway XHD3000	01756
DVD	Sony	10533
CBL/SAT	General Instrument	20476
Media Center		31272

Television codes

Admiral	00093, 00463	Memorex	00154, 00463, 00150, 00178
Advent	00761, 00783, 00815, 00817, 00842	MGA	00150, 00178, 00030
Aiko	00092	Midland	00047, 00017, 00051
Akai	00812, 00702, 00030, 00672	Mitsubishi	00250, 00093, 01250, 00150, 00178, 00836, 01171, 01182
Albatron	00700	Monivision	00700
America Action	00180	Motorola	00093
Anam	00180	MTC	00060, 00030
AOC	00030	Multitech	00180
Apex Digital	00748, 00879, 00765	NAD	00156, 00178, 00866
Audiovox	00451, 00180, 00092, 00802, 00875	NEC	00156, 00030, 01704
Aventura	00171	NetTV	01755
Bell & Howell	00154	Nikko	00178, 00030, 00092
Bradford	00180	Norcent	00748
Broksonic	00236, 00463	NTC	00092
Candle	00030	Onwa	00180
Carnivale	00030	Optimus	00154, 00250, 00166, 00650

Carver	00054	Optonica	00093
Celebrity	00000	Orion	00236, 00463, 01463
Celera	00765	Panasonic	00250, 00051, 00650, 01168
Changhong	00765	Penney	00047, 00156, 00051, 00060, 00178, 00030, 01347
Citizen	00060, 00030, 00092	Philco	00054, 00030
Clarion	00180	Philips	01454, 00054, 00690
Commercial Solutions	01447, 00047	Pilot	00030
Contec	00180	Pioneer	00166, 00679, 00866
Craig	00180	Polaroid	00765, 00865
Crosley	00054	Portland	00092
Crown	00180	Prima	00761, 00783, 00815, 00817
Curtis Mathes	00047, 00054, 00154, 00451, 00093, 00060, 00702, 00030, 00145, 00166, 01147, 01347	Princeton	00700
CXC	00180	Prism	00051
Daewoo	00451, 00092, 01661, 00672	Proscan	01447, 00047, 01347
Dell	01080, 01178	Proton	00178
Denon	00145, 00511	Pulsar	00017
Dumont	00017	Quasar	00250, 00051, 00650
Durabrand	00463, 00180, 00178, 00171, 01034	RadioShack	00047, 00154, 00180, 00178, 00030
Electroband	00000	RCA	01447, 00047, 00090, 00679, 01047, 01147, 01247, 01347, 01547
Electrograph	01755	Realistic	00154, 00180, 00178, 00030
Emerson	00154, 00236, 00463, 00180, 00178, 00171	Runco	00017, 00030
Envision	00030, 00813	Sampo	00030, 01755

ESA	00812, 00171	Samsung	00060, 00812, 00702, 00178, 00030, 00766, 00814, 01060
Fisher	00154	Sansui	00463
Fujitsu	00683, 00809, 00853, 01181	Sanyo	00154, 00088, 01179
Funai	00180, 00171	Scotch	00178
Futuretech	00180	Scott	00236, 00180, 00178
Gateway	01755, 01756	Sears	00047, 00054, 00154, 00156, 00178, 00171
GE	01447, 00047, 00051, 00451, 00178, 01347	Sharp	00093, 01165
Gibraltar	00017, 00030	Sheng Chia	00093
Go Video	00886	Sony	01100, 00000, 01167
GoldStar	00178, 00030	Soundesign	00180, 00178
Goodmans	00360	Squareview	00171
Grunpy	00180	SSS	00180
Haier	01034	Starlite	00180
Hallmark	00178	Superscan	00093, 00864
Harman/Kardon	00054	Supreme	00000
Harvard	00180	SVA	00748, 00587, 00865, 00870, 00871
Havermy	00093	Sylvania	00054, 00030, 00171
Helios	00865	Symphonic	00180, 00171
Hello Kitty	00451	Tandy	00093
Hisense	00748	Tatung	01756
Hitachi	00178, 01145, 00145, 01245	Technics	00250, 00051
Hyundai	00849	Techview	00847
Infinity	00054	Techwood	00051
Insignia	00171	Teknika	00054, 00180, 00150, 00060, 00092
Inteq	00017	Telefunken	00702
JBL	00054	TMK	00178
JCB	00000	TNCi	00017

Jensen	00761, 00815, 00817	Toshiba	00154, 01256, 00156, 01265, 00060, 00650, 00845, 01156, 01169, 01356, 01656, 01704
JVC	00053, 00731, 01172, 01253	TVS	00463
KEC	00180	Vector Research	00030
Kenwood	00030	Victor	00053
KLH	00765	Vidikron	00054
KTV	00180, 00030	Vidtech	00178
LG	01265, 00178, 00442, 00700, 00856, 01178	Viewsonic	00857, 00864, 00885, 01755
Loewe	00136	Vizio	00864, 00885, 01756
LXI	00047, 00054, 00154, 00156, 00178	Wards	00054, 00178, 00030, 00866, 01156
Magnavox	01454, 00054, 00030, 00706, 00802, 01254	Waycon	00156
Marantz	00054, 00030, 00855	Westinghouse	00885, 00889
Matsushita	00250, 00650	White Westinghouse	00463
Maxent	01755	Yamaha	00030
Megapower	00700	Zenith	00017, 00463, 01265, 00178, 00092
Megatron	00178, 00145		

DVD player codes

Aiwa	10641	Magnavox	10503, 10539, 10646, 10675, 10821, 11268
Akai	10695, 10899	Marantz	10539
Alco	10790	Memorex	10695, 10831
Allegro	10869	Microsoft	10522
Apex Digital	10672, 10717, 10830, 11020, 11056, 11061	Mintek	10839, 10717
Arrgo	11023	Mitsubishi	11521, 10521, 11403
Audiovox	10790	NAD	10741
Blaupunkt	10717	NEC	10785
Blue Parade	10571	Nesa	10717

Broksonic	10695	Onkyo	10503, 10627, 11417
Cinea	10831	Oritron	10651
CineVision	10869	Panasonic	10490, 10703, 11362, 11462, 11490, 11762
Craig	10831	Philips	10503, 10539, 10646, 10675, 10854, 11260, 11267, 11354
CyberHome	10816, 10874, 11023, 11024, 11129	Pioneer	10525, 10571, 10631
Daewoo	10784, 10869, 11172	Polaroid	11020, 11061
Denon	10490, 10634	Polk Audio	10539
Disney	10675	Presidian	10675
DVD2000	10521	Proscan	10522
Emerson	10591, 10675, 10821, 11268	Qwestar	10651
Enterprise	10591	RCA	10522, 10571, 10717, 10790, 10822, 11022, 11132
ESA	10821, 11268	Rio	10869
Funai	10675, 11268	Rotel	10623
Gateway	11158	Sampo	10752
GE	10522, 10815, 10717	Samsung	10490, 10573, 10820, 10899, 11044, 11075
Go Video	10744, 10741, 10783, 10869, 11044, 11075, 11158	Sansui	10695
GoldStar	10741	Sensory Science	11158
Greenhill	10717	Sharp	10630, 10675, 10752, 11256
Harman/Kardon	10582, 10702	Shinsonic	10533, 10839
Hitachi	10573, 10664, 11247	Sonic Blue	10869
Hiteker	10672	Sony	10533, 11533, 10864, 11033, 11431
iLo	11348	Superscan	10821
Initial	10717	Sylvania	10675, 10821, 11268
Insignia	11268	Symphonic	10675, 10821
Integra	10627	Teac	10717, 10790
JBL	10702	Technics	10490, 10703
JVC	10558, 10623, 10867, 11164	Theta Digital	10571

Kawasaki	10790	Toshiba	10503, 10695, 11045, 11154
Kenwood	10490, 10534	Urban Concepts	10503
KLH	10717, 10790, 11020	US Logic	10839
Koss	10651	Venturer	10790
LG	10591, 10741, 10869	Xbox	10522
LiteOn	11058, 11158	Yamaha	10490, 10539, 10545
Loewe	10511	Zenith	10503, 10591, 10741, 10869

VCR codes

ABS	11972	Mitsubishi	10067, 10043, 10807
Admiral	10048, 10209	Motorola	10035, 10048
Adventura	10000	MTC	10240, 10000
Aiwa	10037, 10000	Multitech	10000
Alienware	11972	NEC	10104, 10067, 11287
American High	10035	Nikko	10037
Asha	10240	Niveus Media	11972
Audiovox	10037	Noblex	10240
Beaumarck	10240	Northgate	11972
Bell & Howell	10104	Olympus	10035
Broksonic	10184, 10121, 10209, 11479	Optimus	11062, 10162, 10037, 10048, 10104
Calix	10037	Orion	10184, 10209, 11479
Canon	10035	Panasonic	11062, 10035, 10162, 10225, 10616, 11035
Carver	10081	Penney	10035, 10037, 10240, 10042, 11035, 11237
Citizen	10037, 11278	Pentax	10042
Craig	10037, 10047, 10240	Philco	10035
Curtis Mathes	10060, 10035, 10162, 11035	Philips	10035, 10081, 10618, 10739
Cybernex	10240	Pilot	10037
CyberPower	11972	Pioneer	10067
Daewoo	10045, 11278	Polk Audio	10081
Dell	11972	Profitronic	10240
Denon	10042	Proscan	10060, 11060

DirectTV	10739	Pulsar	10039
Durabrand	10039	Quasar	10035, 10162, 11035
Dynatech	10000	RadioShack	10000
Electrohome	10037	Radix	10037
Electroponic	10037	Randex	10037
Emerex	10032	RCA	10060, 10240, 10042, 10807, 10880, 11035, 11060
Emerson	10037, 10184, 10000, 10121, 10043, 10209, 11278, 11479	Realistic	10035, 10037, 10048, 10047, 10000, 10104
Fisher	10047, 10104	ReplayTV	10614, 10616
Fuji	10035, 10033	Ricavision	11972
Fujitsu	10045	Runco	10039
Funai	10000	Samsung	10240, 10045, 10739, 11014
Garrard	10000	Sanky	10048, 10039
Gateway	11972	Sansui	10000, 10067, 10209, 11479
GE	10060, 10035, 10240, 10807, 11035, 11060	Sanyo	10047, 10240, 10104, 11330
General	10045	Scott	10184, 10045, 10121, 10043
GoldStar	10037, 11237	Sears	10035, 10037, 10047, 10000, 10042, 10104, 11237
Gradiente	10000	Sharp	10048, 10807, 11285
Harley Davidson	10000	Shogun	10240
Harman/Kardon	10081	Sonic Blue	10614, 10616
Hewlett Packard	11972	Sony	10035, 10032, 10033, 10000, 10636, 11232, 11295, 11972
HI-Q	10047	Stack 9	11972
Hitachi	10037, 10000, 10042	STS	10042
Howard Computers	11972	Sylvania	10035, 10081, 10000, 10043, 11781
HP	11972	Symphonic	10000
Hughes Network Systems	10042, 10739	Systemax	11972

Humax	10739	Tagar Systems	11972
Hush	11972	Teac	10000
IBUYPOWER	11972	Technics	10035, 10162
JVC	10067, 11279	Teknika	10035, 10037, 10000
KEC	10037	Thomas	10000
Kenwood	10067	Tivo	10618, 10636, 10739, 11996
Kodak	10035, 10037	TMK	10240
Linksys	11972	Toshiba	10045, 10042, 10043, 10845, 11008, 11145, 11290, 11972, 11996
Lloyd's	10000	Totevision	10037, 10240
LXI	10037	Touch	11972
Magnasonic	11278	Unitech	10240
Magnavox	10035, 10039, 10081, 10000, 11781	Vector	10045
Magnin	10240	Video Concepts	10045
Marantz	10035, 10081	Videomagic	10037
Marta	10037	Videosonic	10240
Matsushita	10035, 10162	Viewsonic	11972
Media Center PC	11972	Villain	10000
MEI	10035	Voodoo	11972
Memorex	10035, 10162, 10037, 10048, 10039, 10047, 10240, 10000, 10104, 10209, 11237	Wards	10060, 10035, 10048, 10047, 10081, 10240, 10000, 10042
MGA	10240, 10043	White Westinghouse	10209
MGN Technology	10240	XR-1000	10035, 10000
Microsoft	11972	Zenith	10039, 10033, 10000, 10209, 11479
Mind	11972	ZT Group	11972
Minolta	10042		

PVR codes

ABS	11972	Niveus Media	11972
Alienware	11972	Northgate	11972
CyberPower	11972	Panasonic	10616

Dell	11972	Philips	10618, 10739
DirectTV	10739	RCA	10880
Gateway	11972	ReplayTV	10614, 10616
Hewlett Packard	11972	Samsung	10739
Howard Computers	11972	Sonic Blue	10614, 10616
HP	11972	Sony	10636, 11972
Hughes Network Systems	10739	Stack 9	11972
Humax	10739	Systemax	11972
Hush	11972	Tagar Systems	11972
iBUYPOWER	11972	Tivo	10618, 10636, 10739
JVC	11279	Toshiba	11008, 11972, 11996
Linksys	11972	Touch	11972
Media Center PC	11972	Viewsonic	11972
Microsoft	11972	Voodoo	11972
Mind	11972	ZT Group	11972

Video accessory codes

ABS	31272	Niveus Media	31272
Accurian	31653	Northgate	31272
ADS Tech	31596	Panasonic	31120
Alienware	31272	Pinnacle Systems	31268
Buffalo	31739	Pioneer	31010
CyberPower	31272	Princeton	30113, 30295
D-Link	31554, 31731	PrismIQ	31574
DDI	31644	Ricavision	31272
Dedicated Devices	31644	Roku	31486
Epson	31563	Samsung	31190, 31490
Gateway	31272	Sensory Science	31126
Hewlett Packard	31272, 31267	Sharp	31010
Howard Computers	31272	SMC	31456
HP	31272	Sony	31272, 31324, 31364
Hush	31272	Stack 9	31272
iBUYPOWER	31272	Streamzap	31309
Keyspan	31344	Sylvania	31563
Leviton	31644	Systemax	31272

LG	31415	Tagar Systems	31272
Linksys	31272, 31365	Toshiba	31272
Macro Image Technology	31383	Touch	31272
Media Center PC	31272	Viewsonic	31272, 31329
Microsoft	31272	Vizio	31126
Mind	31272	Voodoo	31272
Motorola	31363	ZT Group	31272
MyHD	31383		

Audio amplifier codes

Bose	40674	Optimus	40823
Durabrand	41561	Philips	40892
Elan	40647	Pioneer	40823
GE	40078	Polk Audio	40892
Harman/Kardon	40892	RCA	40823
JVC	40331	Soundesign	40078
Left Coast	40892	Victor	40331
Lenoxx	41561	Wards	40078
Marantz	40892	Yamaha	40354

Audio receiver codes

ADC	40531	Norcent	41389
Aiwa	41405, 41243, 41388, 41641	Nova	41389
Alco	41390	Onkyo	40135, 40842, 41298, 41320, 41531
Anam	41609, 41074	Optimus	41023, 40531, 40670, 41074
Apex Digital	41257, 41774	Oritron	41366
Audiotronic	41189	Panasonic	41308, 41518, 41288, 41316, 41548, 41633, 41763, 41764
Audiovox	41390	Philips	41189, 41269, 41266
B & K	40701, 40820, 40840	Pioneer	41023, 40014, 40150, 40531, 40630, 41384

BK	40702	Proscan	41254
Bose	41229, 41933	RCA	41023, 41609, 41254, 40531, 41074, 41390, 41511
Capetronic	40531	Rio	41869
Carver	41189	Samsung	41295, 41500
Coby	41389	Sansui	41764
Daewoo	41250	Sanyo	41469, 41801
Denon	41360, 41142	Sherwood	41077, 41517
Fisher	41801	Sonic Blue	41869
Gateway	41517	Sony	41058, 41441, 41258, 41759, 41622, 41558, 41658, 41758, 41858
Harman/Kardon	40110, 40891, 41304, 41306	Soundesign	40670
Hitachi	41801	Stereophonics	41023
Integra	40135, 41298, 41320	Sunfire	41313
JBL	40110, 41306	Teac	41074, 41390
JVC	41374, 41495	Technics	41308, 41518, 41384
Kenwood	41313, 41570, 41569	Thorens	41189
KLH	41390, 41428	Venturer	41390
Koss	41366	Wards	40014
LG	41293	Yamaha	40176, 41176, 41276, 41331, 41375
Magnavox	41189, 41269, 40531, 41514	Zenith	41293
Marantz	41189, 41269		

Audio accessory codes

Apple	41115, 41644	Netgear	41785
Creative	40872	Omnifi	41605
D-Link	41522	Onkyo	41789
Integra	41789	Roku	41828
Marantz	41491	Slim Devices	41844
Motorola	41464	SSI	41522
NaviPod	41644	Yamaha	41809, 41810

Cable set-top box codes

ABC	20003, 20008	Philips	21305, 20317
Americast	20899	Pioneer	21877, 20877, 20144, 20533
Bell South	20899	Pulsar	20000
Digeo	21187	Quasar	20000
Director	20476	Runco	20000
General Instrument	20476, 20810, 20276, 20003	Samsung	20144
GoldStar	20144	Scientific Atlanta	21877, 20877, 20477, 20008
Jerrold	20476, 20810, 20276, 20003	Sony	21006
Memorex	20000	Starcom	20003
Motorola	21376, 20476, 20810, 20276, 21187	Supercable	20276
Pace	21877, 20237, 20008	Torx	20003
Panasonic	20000	Toshiba	20000
Paragon	20000	Zenith	20000, 20525, 20899

Satellite set-top box codes

Aiwa	21514	Maspro	21530
Chaparral	20216	Mitsubishi	20749
Crossdigital	21109	NEC	21519
DirecTV	21377, 20392, 20566, 20639, 21639, 21142, 20247, 20749, 21749, 20819, 21856, 21076, 21108, 20099, 21109, 21392, 21414, 21442, 21609, 21640	Panasonic	20247, 20701, 21526
Dish Network System	21505, 21005, 20775, 21775	Philips	21142, 20749, 21749, 21076, 20722, 20099, 21442, 20856
Dishpro	21505, 21005, 20775, 21775	Proscan	20392, 20566
DX Antenna	21530	RCA	20566, 20855, 20143, 21392

Echostar	21505, 21005, 20775, 21775	Samsung	21377, 21276, 21108, 21109, 21442, 21609
Expressvu	20775, 21775	Sanyo	21219
GE	20566	Sharp	21517
GOI	20775, 21775	Sony	20639, 21639, 21524, 21640
Hitachi	20819, 21250, 21525	Tivo	21142, 21442
HTS	20775, 21775	Toshiba	20749, 21749, 20790, 21285, 21516, 21530
Hughes Network Systems	21142, 20749, 21749, 21442	UltimateTV	21392, 21640
JVC	20775, 21531, 21775	Uniden	20722
LG	21414	Zenith	21856, 20856
Magnavox	20722		

Media Center controller codes

ABS	31272	Niveus Media	31272
Alienware	31272	Northgate	31272
CyberPower	31272	PrismIQ	31574
Gateway	31272	Ricavision	31272
Hewlett Packard	31272	Sony	31272, 31324
Howard Computers	31272	Stack 9	31272
HP	31272	Streamzap	31309
Hush	31272	Systemax	31272
iBUYPOWER	31272	Tagar Systems	31272
Keyspan	31344	Toshiba	31272
Linksys	31272	Touch	31272
Media Center PC	31272	Viewsonic	31272
Microsoft	31272	Voodoo	31272
Mind	31272	ZT Group	31272

APPENDIX **A**

Specifications

- Monitor specifications
- Speaker bar specifications
- Remote control specifications

Monitor 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	30 inches (diagonal)
Panel type	30-inch viewable TFT active matrix S-PVA Anti-glare coating
Pixel resolution	2560 × 1600 (dual-link DVI) 1920 × 1200 (single-link DVI, VGA, and HDMI) (60 Hz)
Pixel pitch	0.0099 × 0.0099 inches (0.251 mm × 0.251 mm)
Aspect ratio	16:10
Brightness	400 cd/m ²
Contrast ratio	1000:1 (typical)
Viewing angles	176° horizontal, 176° vertical
Response time	6 ms (typical, gray to gray)
Frequency	Horizontal: 74 KHz Vertical: 60 Hz
Lamp type/life	50,000 hours (minimum)
Colors	16.7 million
OSD languages	English, French, Spanish, Italian, Japanese, Dutch

Connections and inputs

- Analog (VGA): 15-pin mini d-sub VGA
- Digital (DVI-D): 24-pin DVI-D (supports 480p, 720p, and 1080i). Includes HDCP (High-bandwidth Digital Content Protection)
- Composite
- S-Video
- Component Y Pb Pr (supports 480i and 1080p)
- HDMI (supports 480i, 480p, 720p, 1080i, and 1080p)
- 2.5 mm IR Blaster
- Audio input: 3.5 mm for DVI and VGA, RCA L/R for Component, Composite, and S-Video
- Audio output: Speaker bar, RCA L/R, S/PDIF Coax, and S/PDIF Toslink
- AC power input
- USB 2.0 B-type (input)
- USB 2.0 A-type (output × 6)
- 12V/2A speaker bar power output

Included cables	15-pin mini d-sub analog VGA Dual-Link DVI cable 3.5 mm male/male audio cable USB A-B Power
Power consumption	Normal operation: ≤168 W Standby mode: ≤19 W Off: ≤19 W
Power input	100~240 VAC, 50/60 Hz (external adapter) 24 VDC/5.5 A, 12 VDC/4.5 A (monitor)
Certifications	UL, cUL, FCC Class B, CE, PSE, NOM, VCCI, TCO'99
Wall mount bracket	VESA 4 3.937 inches (4 100 mm)
Weight	Monitor: 20.8 lbs. (9.4 kg) Speaker Bar: 3 lbs. (1.3 kg) Stand: 6.4 lbs. (2.9 kg)
Dimensions	22.24 × 17.02~22.15 × 15.37 inches (564.8 × 432.3~562.7 × 390.3 mm)
Temperature	Operating: 32~122°F (0~50°C) @ 50% humidity Storage: -13~140°F (-25~60°C)
Humidity	Operating: 20~90% (non-condensing) Storage: 5~90% (non-condensing)
Altitude	Operating: 15,000 feet (4,572 m) maximum Storage: 40,000 feet (12,192 m) maximum
Security	Kensington lock slot

IR extender Adhesive side: Straight to target: >5 feet (1.52 m).
Angle: 30° up/down, 30° left/right from center at 5 feet (1.52 m)

Shock and vibration Shock (non-operating): 50G
Vibration (non-operating): 1.5G

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.”

Resolution	Refresh Rate (Hz)	Horizontal frequency (kHz)	Pixel frequency (MHz)	Aspect Ratio	VGA EDD	DVI EDD	HDMI EDD
640 x 480	60	31.5	25.175	1.33	Y	Y	Y
800 x 600	60	37.9	40.0		Y	Y	Y
848 x 480	60	31.0	33.75	1.77	Y	N	N
1024 x 768	60	48.4	65.0	1.33	Y	Y	Y
1152 x 864	60	53.7	81.624	1.33	Y	Y	Y
1280 x 768	60	47.8	79.5	1.67	Y	Y	N
1280 x 800	60	49.702	83.499	1.6	Y	Y	Y
1280 x 960	60	60.0	108.0	1.33	Y	Y	Y
1280 x 1024	60	64.0	108.0	1.25	Y	Y	Y
1360 x 768	60	47.7	85.5	1.77	Y	Y	Y
1400 x 1050	60	65.3	121.75	1.33	Y	Y	N
1440 x 900	60	59.9	106.5	1.6	Y	Y	Y
1600 x 1200	60	75.0	162.0	1.33	Y	Y	Y
1680 x 1050	60	65.3	146.25	1.6	Y	Y	Y
1792 x 1344	60	83.64	204.75	1.33	N	Y	N
1856 x 1392	60	86.33	218.25	1.33	N	Y	N

Resolution	Refresh Rate (Hz)	Horizontal frequency (kHz)	Pixel frequency (MHz)	Aspect Ratio	VGA EDD	DVI EDD	HDMI EDD
1920 x 1200	60 RB	74.0	154.0	1.6	Y	Y	Y
1920 x 1440	60	90.0	234.0	1.3	N	Y	N
2048 x 1536	60	94.769	209.25	1.3	N	Y	N
2560 x 1600	60 RB	98.713	268.5	1.6	N	Y	N
480i	59.94	15.734	27.0	1.33	N	N	Y
480p	59.94	31.469	27.0	1.33	N	N	Y
720p	60	45.0	74.25	1.77	N	N	Y
1080i	60	33.75	74.25	1.77	N	N	Y
1080p	60	67.5	148.5	1.77	N	N	Y
576i	50	15.625	27.0	1.33	N	N	Y
576p	50	31.25	54.0	1.33	N	N	Y
720p	50	37.5	74.25	1.77	N	N	Y
1080i	50	28.125	74.25	1.77	N	N	Y
1080p	50	56.25	148.5	1.77	N	N	Y

Speaker bar 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.

Amplifier power output	7 Watts RMS x 2 channels at 8 Ω and \leq 10% THD+N (Amplifier filters flat. Audio Precision Analyzer filters: 10-22KHz, 12.0VDC In)
Signal-to-noise ratio	> 65 dBA (reference: 1 watt into 8 Ω)
Audio input impedance	> 10K Ω
Audio Input line level	<ul style="list-style-type: none"> 0.7Vrms at 10% THD (Vol = Max, Bass/Treble = Flat, 3D Off) 0.35Vrms at 10% THD (Vol = Max, Bass/Treble = +6dB, 3D Off)
Power supply	12VDC \pm 0.4VDC, 2.0 Amps minimum
Operating supply range	10.0VDC to 16.0VDC
Subsonic EQ	Fixed response
Audio processor	Volume, Bass, Treble, and Stereo enhance. I2C interface
Stereo enhancement	Yes
Amplifier turn on/off delay	< 0.2 seconds, noiseless
Amplifier mute/standby	Yes, activated by I2C Interface and headphone insertion
Thermal protection	Yes
Short circuit protection	Yes
Overload protection	Yes
Under voltage protection	Yes
Reverse power protection	Yes, polarized power plug, positive center pin
Cooling	Passive convection
Power amplifier	Class D

Remote control 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.

Range (straight to target)	50 feet (15.24 m)
Operating angle	20° up/down, 25° left/right from center at 20 feet (6.1 m)
Temperature	Operating range: 32° ~ 122°F (0° ~ 50°C) Non-operating range: -4° ~ 140°F (-20° ~ 60°C)
Power	Two AAA batteries (alkaline preferred, heavy duty/carbon acceptable), with memory backup
Keypress confirmation	Red LED

APPENDIX **B**

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.



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.

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.

Care during use



Warning

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

- 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.

Replacement parts and accessories

Use only replacement parts and accessories recommended by Gateway.

Environmental information

Recycling



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.

For additional recycling information specific to your area, please go to www.gateway.com/recycle.

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

Model: TFT30W90** (XHD3000)



Caution

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



Proposition 65 Warning

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

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.

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

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Patents

Patent numbers: UEI 6,587,067 (direct code setup; UEI 6,496,135 (code verification)

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