

# Dell™ IN2010N Flat Panel Monitor User's Guide

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## Notes, Notices, and Cautions



**NOTE:** A NOTE indicates important information that helps you make better use of your computer.



**NOTICE:** A NOTICE indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.



**CAUTION:** A CAUTION indicates a potential for property damage, personal injury, or death.

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Model IN2010Nb

March 2009 Rev. A00

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## About Your Monitor

### Dell™ IN2010N Flat Panel Monitor User's Guide

- [Package Contents](#)
- [Product Features](#)
- [Identifying Parts and Controls](#)
- [Monitor Specifications](#)
- [Plug and Play Capability](#)
- [LCD Monitor Quality & Pixel Policy](#)
- [Maintenance Guidelines](#)

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## Package Contents

Your monitor ships with the components shown below. Ensure that you have received all the components and [contact Dell](#) if something is missing.

 **NOTE:** Some items may be optional and may not ship with your Monitor. Some features or media may not be available in certain countries.

	1 Monitor with stand
	1 Power Cable
	1 VGA Cable
	1 Drivers and Documentation media 1 Quick Setup Guide 1 Safety Information

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## Product Features

The **IN2010N** flat panel display has an active matrix, thin-film transistor (TFT), liquid crystal display (LCD). The monitor features include:

- 20-inch (508 mm) viewable area display.
- 1600 x 900 resolution, plus full-screen support for lower resolutions.
- Wide viewing angle to allow viewing from a sitting or standing position, or while moving from side to side.
- Tilt adjustment capability.
- Removable pedestal and Video Electronics Standards Association (VESA) 100 mm mounting holes for flexible mounting solutions.
- Plug and play capability if supported by your system.
- On-Screen Display (OSD) adjustments for ease of set-up and screen optimization.
- Software and documentation CD which includes an Information file (INF), Image Color Matching File (ICM), and product documentation.
- Energy Saver feature for Energy Star compliance.
- Security lock slot.

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## Identifying Parts and Features

### Front View



Front View

Front panel controls

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Label	Description
	Shortcut keys
1-2	*The default settings are Preset Modes Select and Brightness/Contrast Select.
1	Preset Modes Select
2	Brightness/Contrast Select
3	OSD menu select
4	EXIT
5	Power button (with power light indicator)

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### Back View



**Back view**

	Label	Description/Use
1	VESA mounting holes (100 mm) (behind attached base plate)	To mount the monitor.
2	Barcode serial number label	To contact Dell for technical support.
3	Security lock slot	To help secure your monitor.
4	Dell Soundbar mounting brackets	To attach the optional Dell Soundbar.
5	Regulatory rating label	Lists the regulatory approvals.

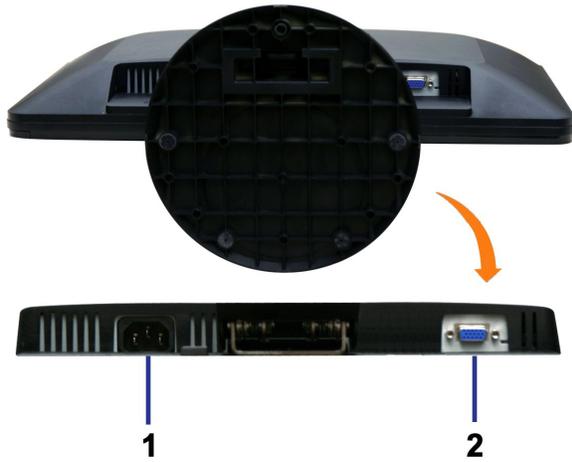
**Side View**



**Right side**

**Left side**

**Bottom View**



Bottom view

Label	Description
1	AC power cord connector
2	VGA connector

## Monitor Specifications

### Power Management Modes

If you have VESA's DPMS™ compliance display card or software installed in your PC, the monitor can automatically reduce its power consumption when not in use. This is referred to as Power Save Mode. If input from a keyboard, mouse or other input devices is detected by the computer, the monitor will automatically "wake up". The following table shows the power consumption and signaling of this automatic power-saving feature:

VESA Modes	Horizontal Sync	Vertical Sync	Video	Power Indicator	Power Consumption
Normal operation	Active	Active	Active	White	24.51 W (maximum)
Active-off mode	Inactive	Inactive	Blanked	Amber	Less than 1 W
Switch off	-	-	-	Off	Less than 1 W

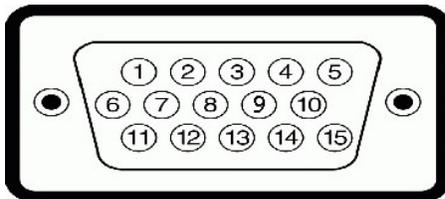
**NOTE:** This monitor is ENERGY STAR®-compliant.



**NOTE:** Zero power consumption in OFF mode can only be achieved by disconnecting the main cable from the monitor.

## Pin Assignments

### VGA Connector



Pin Number	15-pin Side of the Connected Signal Cable
1	Red
2	Green
3	Blue
4	Yellow
5	Black
6	Red
7	Green
8	Blue
9	Yellow
10	Black
11	Red
12	Green
13	Blue
14	Yellow
15	Black

1	Video-Red
2	Video-Green
3	Video-Blue
4	GND
5	Self-test
6	GND-R
7	GND-G
8	GND-B
9	Computer 5V/3.3V
10	GND-sync
11	GND
12	DDC data
13	H-sync
14	V-sync
15	DDC clock

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## Flat Panel Specifications

Screen type	Active matrix - TFT LCD
Panel type	TN
Screen dimensions	20 inches (20-inch viewable image size)
Preset display area:	
Horizontal	442.798 mm (17.433 inches)
Vertical	249.075 mm (9.806 inches)
Pixel pitch	0.2768 mm
Viewing angle	160° (vertical) typical, 160° (horizontal) typical
Luminance output	250 CD/m <sup>2</sup> (typical)
Contrast ratio	1000 to 1 (typical)
Faceplate coating	Antiglare with hard-coating 3H
Backlight	CCFL edgelight system
Response Time	5 ms typical
Color Depth	16.7 mil colors
Color Gamut	85 %*

\* IN2010N Color Gamut (Typical) is based on CIE1976 (85%) and CIE1931 (72%).

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## Resolution

Horizontal scan range	30 kHz to 83 kHz (automatic)
Vertical scan range	56 Hz to 76 Hz (automatic)
Maximum preset resolution	1600 x 900 at 60 Hz

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## Preset Display Modes

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal/Vertical)
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VGA, 720 x 400	31.469	70.087	28.3	-/+
VGA, 640 x 480	31.469	59.940	25.2	-/-
VGA, 640 x 480	37.500	75.000	31.5	-/-
VESA, 800 x 600	37.879	60.317	40.0	+/+
VESA, 800 x 600	46.875	75.000	49.5	+/+
VESA, 1024 x 768	48.363	60.004	65.0	-/-
VESA, 1024 x 768	60.023	75.029	78.8	+/+
VESA, 1152 x 864	67.500	75.000	108.0	+/+
VESA, 1280 x 1024	64.000	60.000	108.0	+/+
VESA, 1280 x 1024	79.976	75.025	135.0	+/+
CVT, 1600 x 900 - Analog & Digital	55.540	60.000	97.75	+/-

## Electrical

Video input signals	Analog RGB, 0.7 Volts +/- 5%, positive polarity at 75 ohm input impedance
Synchronization input signals	Separate horizontal and vertical synchronizations, polarity-free TTL level, SOG (Composite SYNC on green)
AC input voltage/frequency/current	100 to 240 VAC/50 or 60 Hz $\pm$ 3 Hz/2.0A (Max.)
Inrush iso surge current	120 V: 30 A (Max.) 240 V: 60 A (Max.)

## Physical Characteristics

Connector type	1 D-sub: blue connector
Signal cable type	1 D-sub: Detachable, Analog, 15 pin, shipped attached to the monitor
<b>Dimensions (with stand)</b>	
Height	361.8 mm (14.25 inches)
Width	486.2 mm (19.14 inches)
Depth	219.6 mm (8.65 inches)
<b>Dimensions (without stand)</b>	
Height	292.9 mm (11.53 inches)
Width	486.2 mm (19.14 inches)
Depth	59.7 mm (2.35 inches)
<b>Stand dimensions</b>	
Height	138.7 mm (5.46 inches)
Width	219.6 mm (8.65 inches)
Depth	219.6 mm (8.65 inches)
<b>Weight</b>	
Weight with packaging	5.79 kg (12.75 lb)
Weight with stand assembly and cables	4.638 kg (10.21 lb)
Weight without stand assembly (for wall mount or VESA mount considerations - no cables)	4.14 kg (9.12 lb)
Weight of stand assembly	0.358 kg (0.79 lb)

## Environmental

<b>Temperature</b>	
Operating	0° to 40° C (32° to 104°F)
Non-operating	Storage: -20° to 60° C (-4° to 140° F) Shipping: -20° to 60° C (-4° to 140° F)
<b>Humidity</b>	
Operating	10% to 80% (non-condensing)
Non-operating	Storage: 5% to 90% (non-condensing) Shipping: 5% to 90% (non-condensing)
<b>Altitude</b>	
Operating	3,048 m (12,000 ft) max
Non-operating	9,144 m (40,000 ft) max
<b>Thermal dissipation</b>	102.39 BTU/hour (maximum) 83.66 BTU/hour (typical)

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## Plug and Play Capability

You can install the monitor in any Plug and Play-compatible system. The monitor automatically provides the computer system with its Extended Display Identification Data (EDID) using Display Data Channel (DDC) protocols so that the system can configure itself and optimize the monitor settings. If required, the user can select different settings, but in most cases monitor installation is automatic.

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## LCD Monitor Quality & Pixel Policy

During the LCD Monitor manufacturing process, it is not uncommon for one or more pixels to become fixed in an unchanging state. The visible result is a fixed pixel that appears as an extremely tiny dark or bright discolored spot. When the pixel remains permanently lit, it is known as a "bright dot." When the pixel remains black, it is known as a "dark dot."

In almost every case, these fixed pixels are hard to see and do not detract from display quality or usability. A display with 1 to 5 fixed pixels is considered normal and within competitive standards. For more information, see Dell Support site at: [support.dell.com](http://support.dell.com).

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## Maintenance Guidelines

### Caring for Your Monitor

 **CAUTION:** Read and follow the [Safety Instructions](#) before cleaning the monitor.

 **CAUTION:** Before cleaning the monitor, unplug the monitor from the electrical outlet.

For best practices, follow the instructions in the list below while unpacking, cleaning, or handling your monitor:

- 1 To clean your antistatic screen, lightly dampen a soft, clean cloth with water. If possible, use a special screen-cleaning tissue or solution suitable for the antistatic coating. Do not use benzene, thinner, ammonia, abrasive cleaners, or compressed air.
- 1 Use a lightly-dampened, warm cloth to clean the monitor. Avoid using detergent of any kind as some detergents leave a milky film on the monitor.
- 1 If you notice a white powder when you unpack your monitor, wipe it off with a cloth.
- 1 Handle your monitor with care as dark-colored monitors may scratch and show white scuff marks more than lighter-colored monitors.
- 1 To help maintain the best image quality on your monitor, use a dynamically changing screen saver and turn off your monitor when not in use.

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## Appendix

### Dell™ IN2010N Flat Panel Monitor User's Guide

- [Safety Instructions](#)
  - [FCC Notice \(U.S. Only\) and Other Regulatory Information](#)
  - [Contacting Dell](#)
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## CAUTION: Safety Instructions

 **CAUTION:** Use of controls, adjustments, or procedures other than those specified in this documentation may result in exposure to shock, electrical hazards, and/or mechanical hazards.

For information on safety instructions, see the *Safety Information* that ships with your monitor.

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## FCC Notice (U.S. Only) and Other Regulatory Information

For FCC notices and other regulatory information, see the regulatory compliance website located at [www.dell.com/regulatory\\_compliance](http://www.dell.com/regulatory_compliance).

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## Contacting Dell

For customers in the United States, call 800-WWW-DELL (800-999-3355).

 **NOTE:** If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To contact Dell for sales, technical support, or customer service issues:

1. Visit [support.dell.com](http://support.dell.com).
  2. Verify your country or region in the **Choose A Country/Region** drop-down menu at the bottom of the page.
  3. Click **Contact Us** on the left side of the page.
  4. Select the appropriate service or support link based on your need.
  5. Choose the method of contacting Dell that is convenient for you.
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## Setting Up Your Monitor

### Dell™ IN2010N Flat Panel Monitor

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#### If you have a Dell™ desktop or a Dell™ portable computer with internet access

1. Go to <http://support.dell.com>, enter your service tag, and download the latest driver for your graphics card.
2. After installing the drivers for your Graphics Adapter, attempt to set the resolution to **1600x900** again.

 **NOTE:** If you are unable to set the resolution to 1600x900, please contact Dell™ to inquire about a Graphics Adapter that supports these resolutions.

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## Setting Up Your Monitor

### Dell™ IN2010N Flat Panel Monitor

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#### **If you have a non Dell™ desktop, portable computer, or graphics card**

1. Right-click on the desktop and click **Properties**.
2. Select the **Settings** tab.
3. Select **Advanced**.
4. Identify your graphics controller supplier from the description at the top of the window (e.g. NVIDIA, ATI, Intel etc.).
5. Please refer to the graphics card provider website for updated driver (for example, <http://www.ATI.com> OR <http://www.NVIDIA.com>).
6. After installing the drivers for your Graphics Adapter, attempt to set the resolution to **1600x900** again.

 **NOTE:** If you are unable to set the resolution to 1600x900 , please contact the manufacturer of your computer or consider purchasing a graphics adapter that will support the video resolution of 1600x900 .

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## Operating the Monitor

### Dell™ IN2010N Flat Panel Monitor User's Guide

- [Using the Front Panel Controls](#)
- [Using the On-Screen Display \(OSD\) Menu](#)
- [Setting the Maximum Resolution](#)
- [Using the Dell Soundbar \(Optional\)](#)
- [Using the Tilt](#)

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## Using the Front Panel

Use the control buttons on the side of the monitor to adjust the characteristics of the image being displayed. As you use these buttons to adjust the controls, an OSD shows the numeric values of the characteristics as they change.



1-2	<b>Shortcut keys</b>	Use this button for direct access to the control menu that you define in the personalize menu. *The default settings are Preset Modes Select and Brightness/Contrast Select.
1	 <b>Preset Modes Select</b>	Use this button for different display preset modes on your monitor.
2	 <b>Brightness/Contrast</b>	Use this button to access the "Brightness/Contrast" control menu.
3	 <b>OSD Menu</b>	Use this button to open the On-Screen Display (OSD). See <a href="#">Using the OSD Menu</a> .
4	 <b>Exit</b>	Use this button to exit the OSD menu.
5	 <b>Power button (with power light indicator)</b>	Use the power button to turn the monitor on and off. The white light indicates that the monitor is on and fully functional. An amber light indicates power save mode.

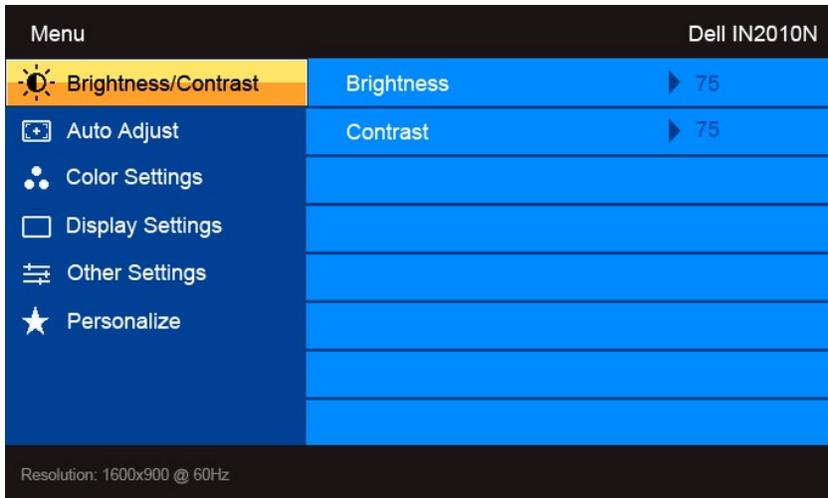
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## Using the On-Screen Display (OSD) Menu

 **NOTE:** If you change the settings and then either proceed to another menu, or exit the OSD menu, the monitor automatically saves the changes. The changes are also saved if you change the settings and then wait for the OSD menu to disappear.

1. Press any key to launch the OSD menu and press  to display the main menu.

### Main Menu for Analog (VGA) Input



2. Press the **▼** and **▲** buttons to move between the setting options. As you move from one icon to another, the option name is highlighted. See the table for a complete list of all the options available for the monitor.
3. Press the **→** button once to activate the highlighted option.
4. Press the **▼** and **▲** buttons to select the desired parameter.
5. Press the **→** button to enter the slide bar and then use the **▼** and **▲** buttons, according to the indicators on the menu, to make your changes.
6. Press the **↶** button to return to the main menu or exit the OSD menu.

Icon	Menu and Submenus	Description
	<b>Brightness/Contrast</b>	Allows you to adjust the brightness and contrast.  <b>Brightness</b> Brightness adjusts the luminance of the backlight. Press the <b>▲</b> button to increase the brightness and Press the <b>▼</b> button to decrease the brightness (min 0 ~ max 100). <b>Contrast</b> Adjust the Brightness first, and then adjust the Contrast only if further adjustment is necessary. Press the <b>▲</b> button to increase contrast and press the <b>▼</b> button to decrease contrast (min 0 ~ max 100). The Contrast function adjusts the degree of difference between the darkest and lightest areas on the monitor screen. <b>Back</b> Press the <b>↶</b> button to go back to or exit the main menu.
	<b>Auto Adjust</b>	Even though your computer recognizes your monitor on startup, the Auto Adjustment function optimizes the display settings for your particular setup.

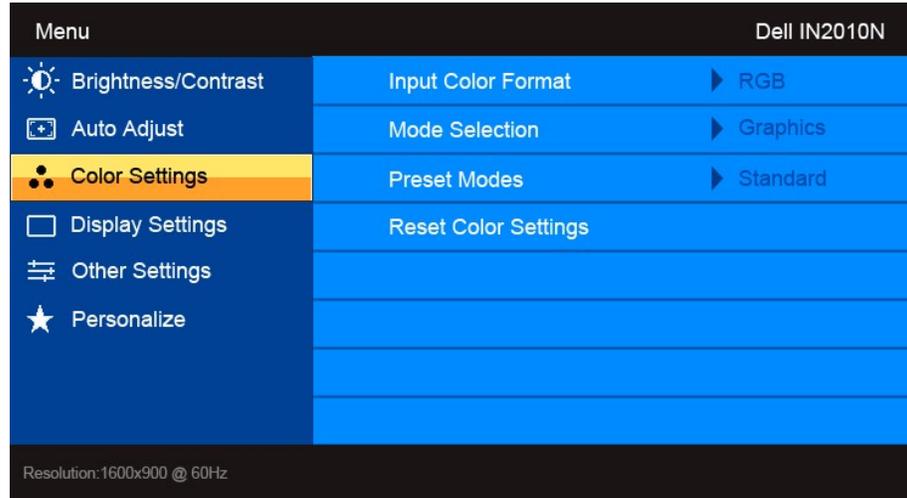
Auto Adjustment in Progress...

**NOTE:** In most cases, Auto Adjust produces the best image for your configuration.



**Color Settings**

Use the color settings to adjust the Image mode and color format.



**Input Color Format**

Allows you to set the color format.

**Mode Selection**

Allows you to set the display mode to Graphics or Video. If your computer is connected to your monitor, choose Graphics. If a D STB, or VCR is connected to your monitor, choose Video.

**Preset modes**

**VGA/DVI-D input**

**Standard**

Mode suitable for desktop applications.

**Multimedia**

Mode for multimedia applications, e.g., video playback.

**Game**

Mode suitable for gaming applications.

**Warm**

Select warm mode to obtain a red tint. This color setting is typically used for color-intensive applications (photograph image edi multimedia, movies, etc.).

**Cool**

Select cool mode to obtain a bluish tint. This color setting is typically used for text based applications (spreadsheets, programm text editors, etc.).

**Custom (RGB)**

Use the or button to increase or decrease each of the three colors (R, G, B) independently, in single-digit increments, frc 100.

**Video input**

**Movie**

Mode suitable for movie playback.

**Game**

Mode suitable for game applications.

**Sports** Mode suitable for sports scenes.

**Nature** Mode suitable for nature scenes.

**Hue** This feature can make the video image color shift from green to purple. Use this feature to adjust the skin tone. Use **▼** or **▲** to adjust the hue from '0' to '100'.

**▼** increases the green hue in the image

**▲** increases the purple hue in the image

**NOTE:** Hue adjustment is only available for video input.

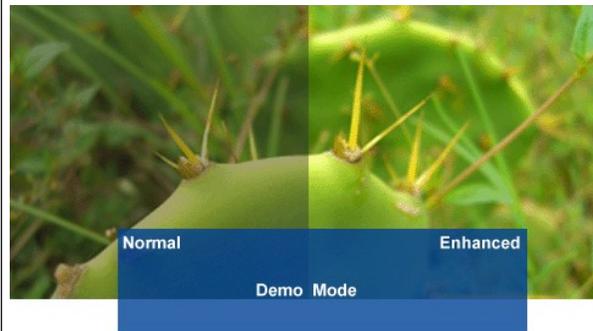
**Saturation** Allows you to adjust the color saturation of the video image. Use **▼** or **▲** button to adjust the saturation from '0' to '100'

**▼** makes video image looks monochrome

**▲** makes video image looks colorful

**NOTE:** Saturation adjustment is only available for video input.

**Demo Mode** Vertically splits the screen into two segments. The left half of the screen is in the normal mode and the right half of the screen is displayed in the color enhanced mode.



**NOTE:** Demo Mode is only available for video input.

**Reset Color Settings** Returns your monitor color settings to the factory default settings.

**Back** Press the  button to go back to or exit the main menu.



**Horizontal Position** Use the **▼** and **▲** buttons to adjust image left and right. Minimum is '0' (-). Maximum is '100' (+).

**Vertical Position** Use the **▼** and **▲** buttons to adjust image up and down. Minimum is '0' (-). Maximum is '100' (+).

**Sharpness** This feature can make the image look sharper or softer. Use **▼** or **▲** to adjust the sharpness from '0' to '100'.

**Pixel Clock** The Phase and Pixel Clock adjustments allow you to adjust your monitor to your preference. These settings are accessed through the main OSD menu, by selecting 'Display Settings'. Use the **▼** and **▲** buttons to adjust for best image quality.

**Phase** If satisfactory results are not obtained using the Phase adjustment, use the Pixel Clock (coarse) adjustment and then use Phase (fine), again.

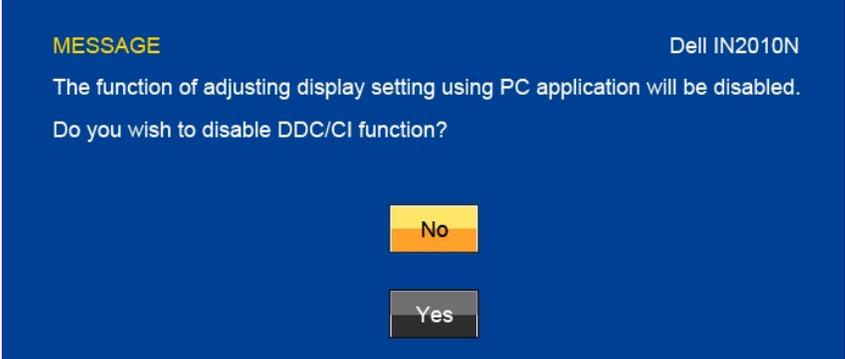
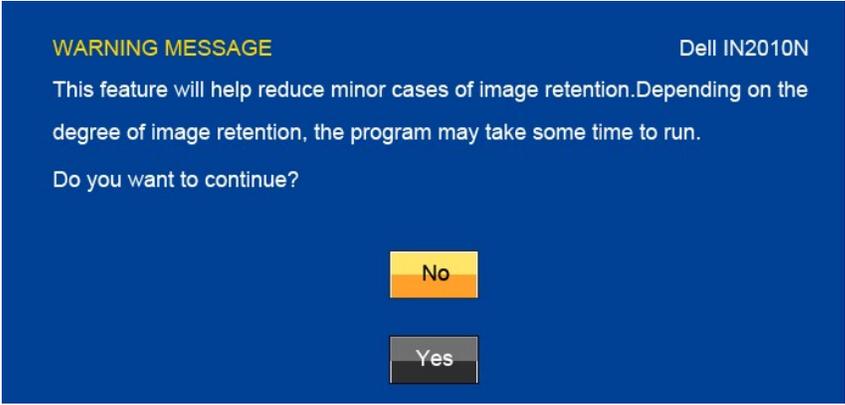
**Reset Display Setting** Resets the display settings to the factory default settings.

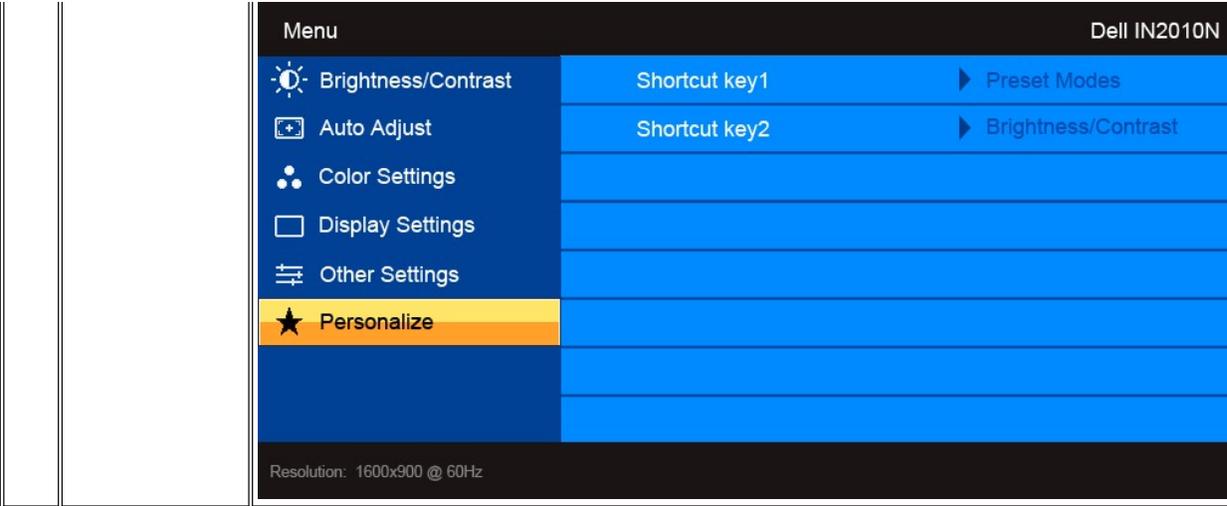
**Back** Press the  button to go back to or exit the main menu.



**Other Settings**



	<p><b>Language</b> Language option to set the OSD display to one of 6 languages (English, Espanol, Francais, Deutsch, Japanese, Simplified Chine)</p>
<p><b>Menu Transparency</b></p>	<p>Allows you to adjust the OSD background from opaque to transparent.</p>
<p><b>Menu Timer</b></p>	<p>OSD Hold Time: Sets the amount of time the OSD will remain active after the last time you pressed a button. Use the <b>▼</b> and <b>▲</b> buttons to adjust the slider in 5 second increments, from 5 to 60 seconds.</p>
<p><b>Menu Lock</b></p>	<p>Controls user access to adjustments. When selected, no user adjustments are allowed. All buttons are locked except the  button.</p>
	<p><b>NOTE:</b> When the OSD is locked, pressing the  button takes you directly to the OSD settings menu, with 'OSD Lock' pre-selected on entry. Choose "<b>Unlock</b>" and allow user access to all applicable settings.</p>
<p><b>DDC/CI</b></p>	<p>DDC/CI (Display Data Channel/Command Interface) allows your monitor parameters (brightness, color balance, etc.) to be adjusted using software on your computer. You can disable this feature by selecting "Disable". Enable this feature for best user experience and optimum performance of your monitor.</p>  <p>The screenshot shows a blue dialog box with the text: "MESSAGE Dell IN2010N. The function of adjusting display setting using PC application will be disabled. Do you wish to disable DDC/CI function?". There are two buttons: "No" (yellow) and "Yes" (grey).</p>
<p><b>LCD Conditioning</b></p>	<p>If an image appears to be retained on the monitor, select <b>LCD Conditioning</b> to help eliminate any image retention. Using the LCD Conditioning feature may take several hours. Severe cases of image retention are known as burn-in, the LCD Conditioning feature does not remove burn-in.</p>  <p>The screenshot shows a blue dialog box with the text: "WARNING MESSAGE Dell IN2010N. This feature will help reduce minor cases of image retention. Depending on the degree of image retention, the program may take some time to run. Do you want to continue?". There are two buttons: "No" (yellow) and "Yes" (grey).</p>
<p><b>Factory Reset</b></p>	<p>Reset all OSD settings to the factory default settings.</p>
<p><b>Back</b></p>	<p>Press  button to go back to or exit the main menu.</p>
<p> <b>Personalize</b></p>	<p>There are 2 shortcut keys on the front panel. Select one control menu for each shortcut key to allow direct access.</p>



### OSD Warning Messages

When the monitor does not support a particular resolution mode you will see the following message :



This means that the monitor cannot synchronize with the signal that it is receiving from the computer. See [Monitor Specifications](#) for the Horizontal and Vertical frequency ranges addressable by this monitor. The recommended mode is 1600x900.

When monitor enters Power Save mode, the following message appears :



Activate the computer and wake up the monitor to gain access to the [OSD](#)

If you press any button other than the power button the following message will appear:



If VGA input is selected and VGA cable is not connected, a floating dialog box as shown below appears.



See [Solving Problems](#) for more information.

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## Setting the Maximum Resolution

To set the maximum resolution for the monitor.

1. Right-click on the desktop and select **Properties**.
2. Select the **Settings** tab.
3. Set the screen resolution to 1600x900.
4. Click **OK**.

If you do not see 1600x900 as an option, you may need to update your graphics driver. Depending on your computer, complete one of the following procedures.

If you have a Dell desktop or portable computer:

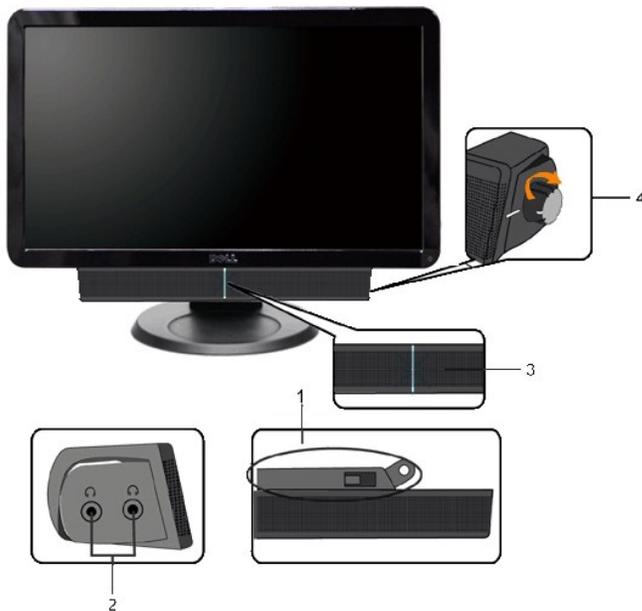
- o Go to [support.dell.com](http://support.dell.com), enter your service tag, and download the latest driver for your graphics card.

If you are using a non-Dell computer (portable or desktop):

- o Go to the support site for your computer and download the latest graphic drivers.
  - o Go to your graphics card website and download the latest graphic drivers.
- 

## Using the Dell Soundbar (Optional)

The Dell Soundbar is a stereo two channel system mountable on Dell flat panel displays. The Soundbar has a rotary volume and on/off control to adjust the overall system level, a blue LED for power indication, and two audio headset jacks.



1. Attach mechanism
  2. Headphone connectors
  3. Power indicator
  4. Power/Volume control
-

## Using the Tilt

### Tilt

With the built-in pedestal, you can tilt the monitor for the most comfortable viewing angle.



 **NOTE:** The stand is attached when the monitor is shipped from the factory.

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## Setting Up Your Monitor

### Dell™ IN2010N Flat Panel Monitor

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### Important instructions to set the display resolution to 1600x900 (Maximum)

For optimal display performance while using the Microsoft Windows® operating systems, set the display resolution to 1600 x 900 pixels by performing the following steps:

1. Right-click on the desktop and click **Properties**.
2. Select the **Settings** tab.
3. Move the slider-bar to the right by pressing and holding the left-mouse button and adjust the screen resolution to **1600x900**.
4. Click **OK**.

If you do not see **1600x900** as an option, you may need to update your graphics driver. Please choose the scenario below that best describes the computer system you are using, and follow the provided directions:

**1: [If you have a Dell™ desktop or a Dell™ portable computer with internet access.](#)**

**2: [If you have a non Dell™ desktop, portable computer, or graphics card.](#)**

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Model IN2010Nb

March 2009 Rev. A00

## Setting Up the Monitor

Dell™ IN2010N Flat Panel Monitor User's Guide

- [Attaching the Base](#)
- [Connecting the Monitor](#)
- [Attaching the Soundbar \(Optional\)](#)
- [Removing the Base](#)

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### Attaching the Base



 **NOTE:** The base is detached when the monitor is shipped from the factory.

After placing the monitor panel on a soft cloth or cushion, complete the following steps to attach the base.

1. Place the monitor on a flat surface.
2. Attach the base to the monitor.

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### Connecting Your Monitor

 **CAUTION:** Before you begin any of the procedures in this section, follow the [safety instructions](#).

To connect your monitor to the computer perform the following steps/instructions:

1. Turn off your computer and disconnect the power cable.
2. Connect the blue (analog VGA) display connector cable to the corresponding video port on the back of your computer.

#### Connecting the blue VGA cable



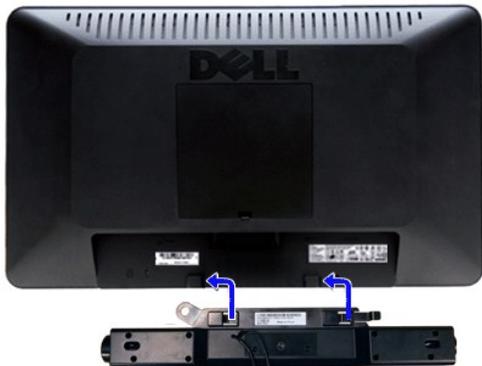
 **NOTE:** The Graphics are used for the purpose of illustration only. Appearance of the the computer may vary.

After you have completed connecting the VGA cable, follow the procedure below to complete your monitor setup:

1. Plug the power cables for your computer and monitor into a nearby outlet.

2. Turn on the monitor and the computer.  
If your monitor displays an image, installation is complete. If it does not display an image, see [Solving Problems](#).
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## Attaching the Soundbar (Optional)



1. Working from the rear of the monitor, attach the Soundbar by aligning the two slots with the two tabs along the bottom rear of the monitor.
2. Slide the Soundbar to the left until it snaps into place.
3. Connect the Soundbar with the DC power connector.
4. Insert the mini stereo plug from the rear of the Soundbar into the computer's audio output jack.

🔔 **NOTICE:** Do not use with any device other than the Dell Soundbar

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## Removing the Base



After placing the monitor panel on a soft cloth or cushion, complete the following steps to remove the base.

1. Pull down the tab on the bottom of the base.
  2. Detach the base away from the monitor.
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## Solving Problems

### Dell™ IN2010N Flat Panel Monitor User's Guide

- [Self-Test](#)
- [Built-in Diagnostics](#)
- [Common Problems](#)
- [Product-Specific Problems](#)
- [Troubleshooting the Dell™ Soundbar \(Optional\)](#)

 **CAUTION:** Before you begin any of the procedures in this section, follow the [Safety Instructions](#).

## Self-Test

Your monitor provides a self-test feature that allows you to check whether your monitor is functioning properly. If your monitor and computer are properly connected but the monitor screen remains dark, run the monitor self-test by performing the following steps:

1. Turn off both your computer and the monitor.
2. Unplug the video cable from the back of the computer. To ensure proper Self-Test operation, remove the Analog (blue connector) cable from the back of computer.
3. Turn on the monitor.

The floating dialog box should appear on-screen (against a black background) if the monitor cannot sense a video signal and is working correctly. While in self-test mode, the power LED remains white. Also, the dialog shown below will continuously scroll through the screen.



4. This box also appears during normal system operation, if the video cable becomes disconnected or damaged.
5. Turn off your monitor and reconnect the video cable; then turn on both your computer and the monitor.

If your monitor screen remains blank after you have performed Step 5, check your video controller and computer system.

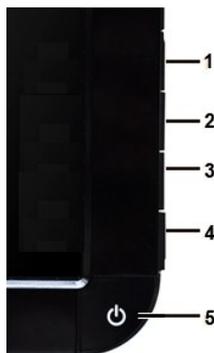
## Built-in Diagnostics

Your monitor has a built-in diagnostic tool that helps you determine if the screen abnormality you are experiencing is an inherent problem with your monitor, or with your computer and video card.

 **NOTE:** You can run the built-in diagnostics only when the video cable is unplugged and the monitor is in *self-test mode*.

To run the built-in diagnostics:

1. Ensure that the screen is clean (no dust particles on the surface of the screen).
2. Unplug the video cable(s) from the back of the computer or monitor. The monitor then goes into the self-test mode.
3. On the front panel, press and hold the **shortcut button 1** and **shortcut button 4** keys on the front panel, simultaneously for 2 seconds. A gray screen appears.



4. Carefully inspect the screen for abnormalities.
5. Press the **shortcut button 4** key on the front panel again. The color of the screen changes to red.
6. Inspect the display for any abnormalities.
7. Repeat steps 5 and 6 to inspect the display in green, blue, and white colored screens.

The test is complete when the white screen appears. To exit, press the **shortcut button 4** again.

If you do not detect any screen abnormalities upon using the built-in diagnostic tool, the monitor is functioning properly. Check the video card and computer.

## OSD Warning Messages

For OSD-related issues, see [OSD Warning Messages](#).

## Common Problems

The following table contains general information about common monitor problems that you might encounter and the possible solutions.

Common Symptoms	What You Experience	Possible Solutions
No Video/Power LED off	No picture	<ul style="list-style-type: none"> <li>1 Ensure that the video cable connecting the monitor and the computer is properly connected and secure.</li> <li>1 Verify that the power outlet is functioning properly using any other electrical equipment.</li> <li>1 Ensure that the power button is depressed fully.</li> </ul>
No Video/Power LED on	No picture or no brightness	<ul style="list-style-type: none"> <li>1 Increase brightness &amp; contrast controls via OSD.</li> <li>1 Perform monitor self-test feature check.</li> <li>1 Check for bent or broken pins in the video cable connector.</li> <li>1 Run the built-in diagnostics.</li> </ul>
Poor Focus	Picture is fuzzy, blurry, or ghosting	<ul style="list-style-type: none"> <li>1 Perform Auto Adjust via OSD.</li> <li>1 Adjust the Phase and Pixel Clock controls via OSD.</li> <li>1 Eliminate video extension cables.</li> <li>1 Reset the monitor to Factory Settings.</li> <li>1 Change the video resolution to the correct aspect ratio (16:9).</li> </ul>
Shaky/Jittery Video	Wavy picture or fine movement	<ul style="list-style-type: none"> <li>1 Perform Auto Adjust via OSD.</li> <li>1 Adjust the Phase and Pixel Clock controls via OSD.</li> <li>1 Reset the monitor to Factory Settings.</li> <li>1 Check environmental factors.</li> <li>1 Relocate the monitor and test in another room.</li> </ul>
Missing Pixels	LCD screen has spots	<ul style="list-style-type: none"> <li>1 Cycle power on-off.</li> <li>1 Pixel that is permanently off is a natural defect that can occur in LCD technology.</li> <li>1 Run the built-in diagnostics.</li> </ul>
Stuck-on Pixels	LCD screen has bright spots	<ul style="list-style-type: none"> <li>1 Cycle power on-off.</li> <li>1 Pixel that is permanently off is a natural defect that can occur in LCD technology.</li> <li>1 Run the built-in diagnostics.</li> </ul>
Brightness Problems	Picture too dim or too bright	<ul style="list-style-type: none"> <li>1 Reset the monitor to Factory Settings.</li> <li>1 Auto Adjust via OSD.</li> <li>1 Adjust brightness &amp; contrast controls via OSD.</li> </ul>
Geometric Distortion	Screen not centered correctly	<ul style="list-style-type: none"> <li>1 Reset the monitor to Factory Settings.</li> <li>1 Auto Adjust via OSD.</li> <li>1 Adjust brightness &amp; contrast controls via OSD.</li> </ul>
Horizontal/Vertical Lines	Screen has one or more lines	<ul style="list-style-type: none"> <li>1 Reset the monitor to Factory Settings.</li> <li>1 Perform Auto Adjust via OSD.</li> <li>1 Adjust Phase and Pixel Clock controls via OSD.</li> <li>1 Perform monitor self-test feature check and determine if these lines are also in self-test mode.</li> <li>1 Check for bent or broken pins in the video cable connector.</li> </ul>
Synchronization Problems	Screen is scrambled or appears torn	<ul style="list-style-type: none"> <li>1 Reset the monitor to Factory Settings.</li> <li>1 Perform Auto Adjust via OSD.</li> <li>1 Adjust Phase and Pixel Clock controls via OSD.</li> <li>1 Perform monitor self-test feature check to determine if scrambled screen appears in self-test mode.</li> <li>1 Check for bent or broken pins in the video cable connector.</li> <li>1 Restart the computer in the <i>safe mode</i>.</li> </ul>
Safety Related Issues	Visible signs of smoke or sparks	<ul style="list-style-type: none"> <li>1 Do not perform any troubleshooting steps.</li> <li>1 Contact Dell immediately.</li> </ul>
Intermittent Problems	Monitor turns on & off	<ul style="list-style-type: none"> <li>1 Ensure that the video cable connecting the monitor to the computer is connected properly and secure.</li> </ul>

		<ul style="list-style-type: none"> <li>1 Reset the monitor to Factory Settings.</li> <li>1 Perform monitor self-test feature check to determine if the intermittent problem occurs in mode.</li> </ul>
Missing Color	Picture lacks color	<ul style="list-style-type: none"> <li>1 Perform monitor self-test feature check.</li> <li>1 Ensure that the video cable connecting the monitor to the computer is connected properly and secure.</li> <li>1 Check for bent or broken pins in the video cable connector.</li> </ul>
Wrong Color	Picture color is not good	<ul style="list-style-type: none"> <li>1 Change the Color Setting Mode in the Color Settings OSD to Graphics or Video dependent application.</li> <li>1 Try a different Color Preset Setting in Color Settings OSD. Adjust R/G/B value in Color OSD if the Color Management is turned off.</li> <li>1 Change the Input Color Format to PC RGB or YPbPr in the Advance Setting OSD.</li> </ul>
Image retention from a static image left on the monitor for a long period of time	Faint shadow from the static image displayed appears on the screen	<ul style="list-style-type: none"> <li>1 Use the Power Management feature to turn off the monitor at all times when not in use. For more information, see <a href="#">Power Management Modes</a>.</li> <li>1 Alternatively, use a dynamically changing screensaver.</li> </ul>

## Product-Specific Problems

SPECIFIC SYMPTOMS	WHAT YOU EXPERIENCE	POSSIBLE SOLUTIONS
Screen image is too small	Image is centered on screen, but does not fill entire viewing area	<ul style="list-style-type: none"> <li>1 Perform monitor reset on "Factory Reset"</li> </ul>
Cannot adjust the monitor with the buttons on the front panel	OSD does not appear on the screen	<ul style="list-style-type: none"> <li>1 Turn the monitor off and unplug the power cord and then plug back and power on</li> </ul>
No Input Signal when user controls pressed	No picture, the LED light is amber. When "▲", "▼" or "Menu" button is pressed, the message " No VGA cable" will appear.	<ul style="list-style-type: none"> <li>1 Check the signal source. Ensure that the computer is not in power saving by moving the mouse or pressing any key on the keyboard.</li> <li>1 <b>Check whether the signal cable is plugged in and seated properly.</b> Re-plug the signal cable if necessary.</li> <li>1 Re-boot the computer or video player.</li> </ul>
The monitor will not fill the entire screen.	The picture does not fill the height or width of the screen.	<ul style="list-style-type: none"> <li>1 Due to the non-standard formats of DVDs, the monitor may not show the full screen.</li> </ul>

## Troubleshooting the Dell™ Soundbar (Optional)

COMMON SYMPTOMS	WHAT YOU EXPERIENCE	POSSIBLE SOLUTIONS
No Sound	Soundbar has power - power indicator is on.	<ul style="list-style-type: none"> <li>1 Plug the audio line-in cable into the computer's audio out jack.</li> <li>1 Set all Windows volume controls to their maximum.</li> <li>1 Play some audio content on the computer (i.e., audio CD, or MP3).</li> <li>1 Turn the Power/Volume knob on the Soundbar clockwise to a higher volume setting.</li> <li>1 Clean and reseat the audio line-in plug.</li> <li>1 Test the Soundbar using another audio source (i.e., portable CD player).</li> </ul>
Distorted Sound	Computer's sound card is used as the audio source.	<ul style="list-style-type: none"> <li>1 Clear any obstructions between the Soundbar and the user.</li> <li>1 Confirm that the audio line-in plug is completely inserted into the jack of the sound card.</li> <li>1 Set all Windows volume controls to their midpoints.</li> <li>1 Decrease the volume of the audio application.</li> <li>1 Turn the Power/Volume knob on the Soundbar counter-clockwise to a lower volume setting.</li> <li>1 Clean and reseat the audio line-in plug.</li> <li>1 Troubleshoot the computer's sound card.</li> <li>1 Test the Soundbar using another audio source (i.e., portable CD player).</li> </ul>
Distorted Sound	Other audio source is used.	<ul style="list-style-type: none"> <li>1 Clear any obstructions between the Soundbar and the user.</li> <li>1 Confirm that the audio line-in plug is completely inserted into the jack of the audio source.</li> <li>1 Decrease the volume of the audio source.</li> <li>1 Turn the Power/Volume knob on the Soundbar counter-clockwise to a lower volume setting.</li> <li>1 Clean and reseat the audio line-in plug.</li> </ul>
Unbalanced Sound Output	Sound from only one side of Soundbar	<ul style="list-style-type: none"> <li>1 Clear any obstructions between the Soundbar and the user.</li> <li>1 Confirm that the audio line-in plug is completely inserted into the jack of the sound card.</li> <li>1 Set all Windows audio balance controls (L-R) to their midpoints.</li> <li>1 Clean and reseat the audio line-in plug.</li> <li>1 Troubleshoot the computer's sound card.</li> <li>1 Test the Soundbar using another audio source (i.e., portable CD player).</li> </ul>
Low Volume	Volume is too low	<ul style="list-style-type: none"> <li>1 Clear any obstructions between the Soundbar and the user.</li> <li>1 Turn the Power/Volume knob on the Soundbar clockwise to the maximum volume setting.</li> </ul>

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|  |  | <ul style="list-style-type: none"><li>1 Set all Windows volume controls to their maximum.</li><li>1 Increase the volume of the audio application.</li><li>1 Test the Soundbar using another audio source (i.e., portable CD player).</li></ul> |
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