

Dell™ P2210 SFF AIO Flat Panel Monitor User's Guide

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Notes, Cautions, and Warnings



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



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



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

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P2210f

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About Your Monitor

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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
	1 Cable cover

	<ul style="list-style-type: none"> 1 Stand
	<ul style="list-style-type: none"> 1 Power Cable
	<ul style="list-style-type: none"> 1 VGA Cable (attached to the monitor)
	<ul style="list-style-type: none"> 1 DVI Cable
	<ul style="list-style-type: none"> 1 USB up stream cable (enables the USB ports on the monitor)
	<ul style="list-style-type: none"> 1 <i>Drivers and Documentation</i> media 1 <i>Quick Setup Guide</i> 1 <i>Safety Information</i> 1 <i>Stand Template sheet</i>

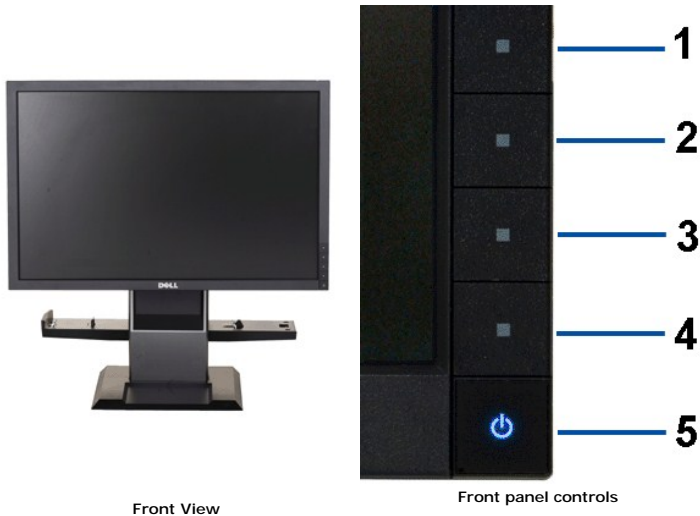
Product Features

The **P2210 SFF AIO** flat panel display has an active matrix, thin-film transistor (TFT), liquid crystal display (LCD). The monitor features include:

- 22-inch (558.68 mm) viewable area display (Measured diagonally) .
- 1680 x 1050 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, swivel, vertical extension adjustment capabilities.
- 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.
- Retractable label card allows convenient access to monitor serial number for technical support and easily hidden away providing label-free clean look.
- On-Screen Display (OSD) adjustments for ease of set-up and screen optimization.
- Software and documentation media includes an information file (INF), Image color Matching File (ICM), and product documentation.
- Energy Saver feature for Energy Star compliance.
- Security lock slot on monitor and stand.
- Asset Management Capabilities.
- Capability to switch from wide aspect to standard aspect ratio while maintaining the image quality.
- Halogen Reduced
- Monitor stand integrating a Dell OptiPlex™960 Small Form Factor computer, cable cover and monitor in an All-In-One configuration.
- Single step auto engagement and removal of computer and cable cover from the monitor stand.
- Provision of screw holes below stand base allow desktop mounting for added security.
- Lockable cable cover helps cable arrangement and prevents cable theft.
- Cable management clip on the back of stand to route cables.

Identifying Parts and Controls

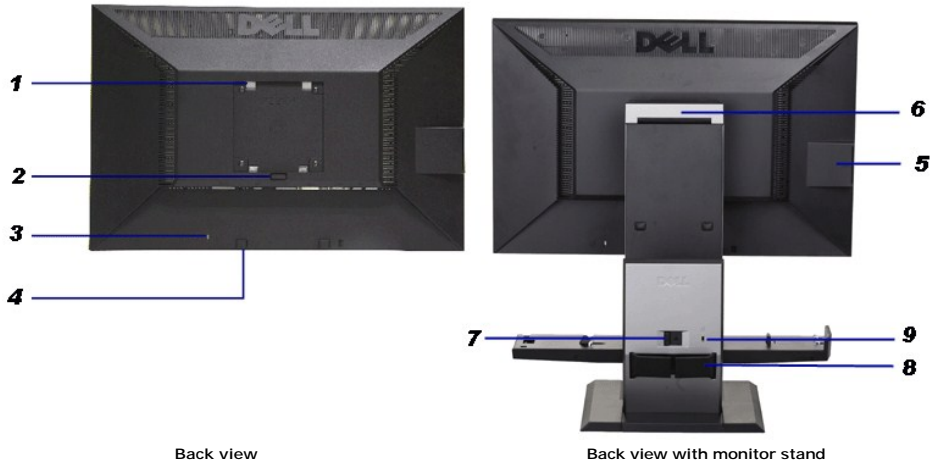
Front View



Label	Description
1	Preset Modes (default, but configurable)
2	Brightness & Contrast (default, but configurable)
3	Menu
4	Exit

5	Power (with power light indicator)
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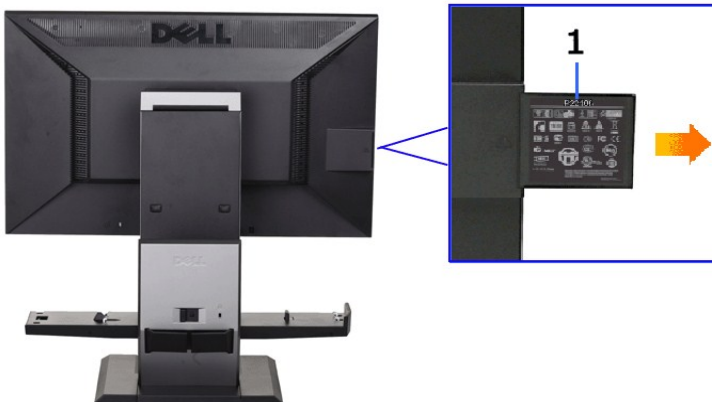
Back View



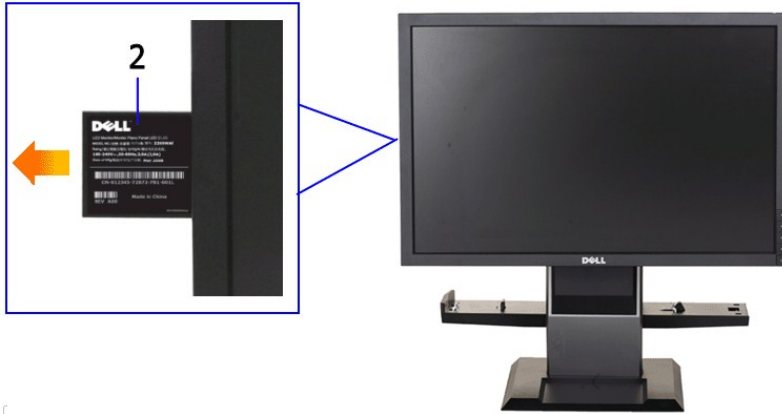
Label	Description	Use
1	VESA mounting holes (100 mm x 100 mm - behind attached base plate)	Wall mount monitor using VESA compatible wall mount kit (100 mm x 100 mm)
2	Stand removal button	Release stand from monitor.
3	Security lock slot	Secures monitor with security cable lock
4	Dell Soundbar mounting brackets	Attaches the optional Dell Soundbar.
5	Information mark	Help locating regulatory and barcode labels
6	Auto retractable handle	Enable full monitor and computer system transportability.
7	Unlock switch	Releases computer and cable cover from stand.
8	Cable management clip	Organizes cables
9	Stand security lock slot	Secures computer and cable cover with security lock

Label Card View

NOTE: Monitor shipped with label card fully inserted in USB compartment. Pull out the label card to access the barcode serial number label and regulatory rating label.



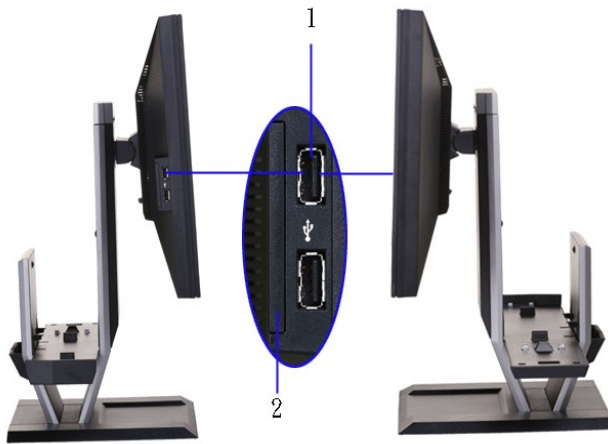
Back View with label card pulled out



Front View with label card pulled out

Label	Description	Use
1	Regulatory label	Lists the regulatory approvals.
2	Barcode serial number label	To contact Dell for technical support.

Side View

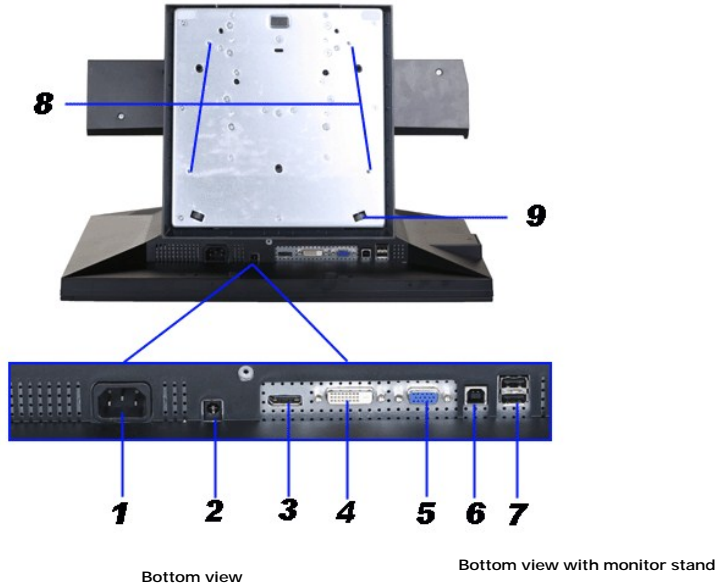


Left view

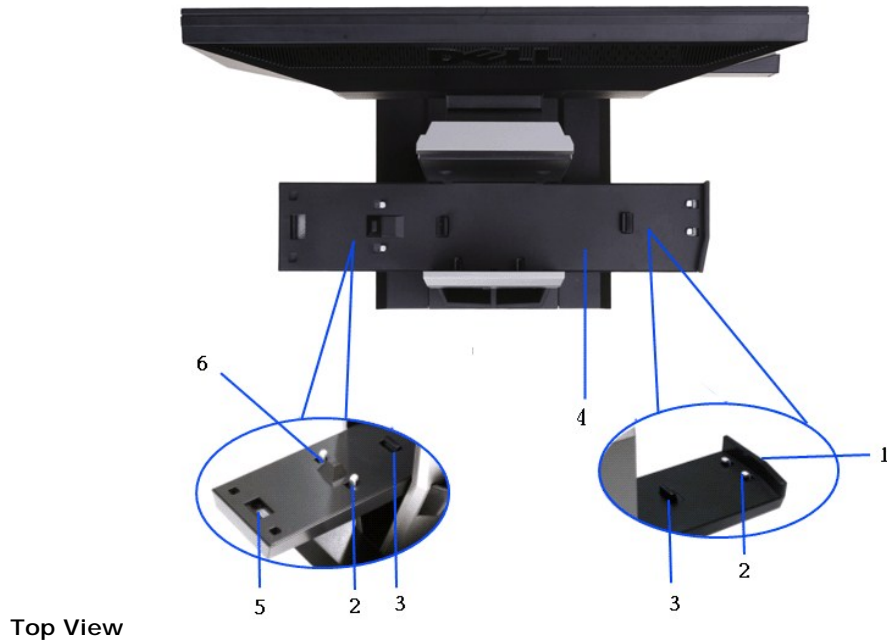
Right view

Label	Description	Use
1	USB downstream ports	Connect your USB devices.
2	Label card	Provide clean monitor back view when reference to labels is not required.

Bottom View



Label	Description	Use
1	AC power cord connector	Connect the power cable
2	DC power connector for Dell Soundbar.	Connect the power cord for the soundbar (optional)
3	DisplayPort connector	Connect your computer DP cable
4	DVI connector	Connect your computer DVI cable
5	VGA connector	Connect your computer VGA cable
6	USB upstream port	Connect the USB cable that came with your monitor to the monitor and the computer. Once this cable is connected you can use the USB connectors on the side and bottom of the monitor.
7	USB downstream ports	Connect your USB devices. You can only use this connector after you have connected the USB cable to the computer and USB upstream connector on the monitor.
8	Desktop mount screw holes (4x)	To mount stand on desktop for added security
9	Swivel rollers	To swivel monitor



Top View

Label	Description	Use
1	Computer alignment feature	Matches the front contour of computer.
2	Chassis hooks	Locks computer onto stand.
3	Hook trigger	Detects when computer is on stand and engages chassis hooks.
4	Computer platform	Supports computer and cable cover on stand.
5	Cable cover latch	Release cable cover from stand.
6	Computer alignment ramp	Matches the rear edge of computer.

Monitor Specifications

Flat Panel Specifications

Screen type	Active matrix - TFT LCD
Panel type	TN
Screen dimensions	22 inches (22-inch viewable image size)
Preset display area:	473.76(H)X296.1(V)
Horizontal	473.76 mm (18.7 inches)
Vertical	296.1 mm (11.7 inches)
Pixel pitch	0.282 mm
Viewing angle	160° (vertical) typical 170° (horizontal) typical
Luminance output	250 CD/m ² (typical)
Contrast ratio	1000 to 1 (typical), 10000 to 1 (typical Dynamic Contrast On)
Faceplate coating	Antiglare with hard-coating 3H
Backlight	2-CCFL edge light system
Response Time	5ms panel typical
Color depth	16.7 million colors
Color Gamut	83%*

*[P2210 SFF AIO color gamut (typical) is based on CIE1976 (83%) and CIE1931 (72%) test standards.

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Appendix

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



CAUTION: Safety Instructions



WARNING: 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 *Product Information Guide*.

FCC Notices (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.

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.
 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™ P2210 SFF AIO Flat Panel Monitor

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 **1680x1050** again.

 **NOTE:** If you are unable to set the resolution to 1680x1050, please contact Dell™ to inquire about a Graphics Adapter that supports these resolutions.

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Setting Up Your Monitor

Dell™ P2210 SFF AIO Flat Panel Monitor

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. Refer to the graphic 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 **1680X1050** again.

 **NOTE:** If you are unable to set the resolution to 1680x1050, please contact the manufacturer of your computer or consider purchasing a graphics adapter that will support the video resolution of 1680x1050.

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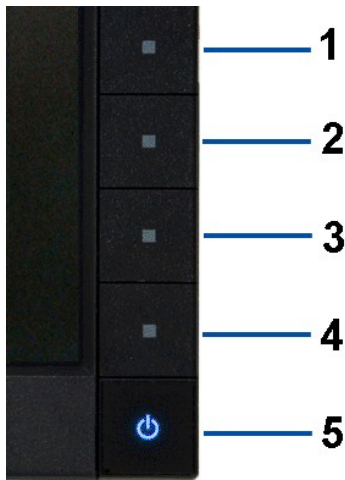
Operating the Monitor

Dell™ P2210 SFF AIO 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 \(Optional\)](#)
- [Operating the Adjustable Stand](#)

Using the Front Panel

Use the control buttons on the front 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.



The following table describes the front panel buttons:


Front panel Button	Description
1  Shortcut key/ PresetModes	Use Preset Modes to set the display mode to Graphics or Video according to the input signal. Select Graphics if you are connecting a computer to your monitor; Select Video if you are connecting a DVD player, STB, or VCR player to your monitor.
2  Shortcut key / Brightness/Contrast	Use this button to directly access the "Brightness/Contrast" menu or to increase the values of the selected menu option.
3  Menu	Use the MENU button to launch the on-screen display (OSD) and select the OSD Menu. See Accessing the Menu System .
4  Exit	Use this button to go back to the main menu or exit the OSD main menu.
5 	Use the Power button to turn the monitor on and off.


Power
(with power light
indicator)

The Blue LED indicates the monitor is on and fully functional. An amber LED indicates DPMS power save mode.

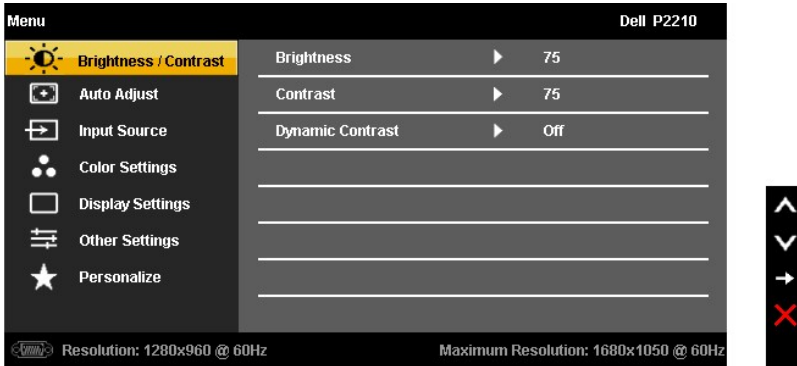
Using the On-Screen Display (OSD) Menu

Accessing the Menu System

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

1. Push the  button to launch the OSD menu and display the main menu.

Main Menu for analog (VGA) Input



The OSD menu for analog (VGA) input is displayed. The menu is titled "Menu" and "Dell P2210". The "Brightness / Contrast" option is selected and highlighted in yellow. The menu items are:

- Brightness / Contrast (selected)
- Auto Adjust
- Input Source
- Color Settings
- Display Settings
- Other Settings
- Personalize

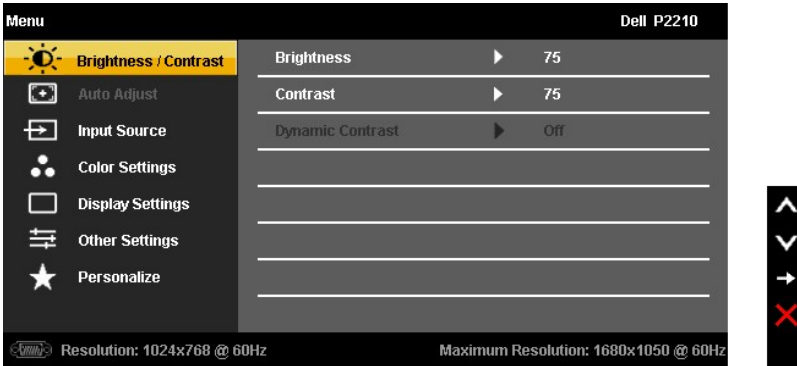
The settings for the selected menu item are:

- Brightness: 75
- Contrast: 75
- Dynamic Contrast: Off

The resolution is 1280x960 @ 60Hz. The maximum resolution is 1680x1050 @ 60Hz. A vertical navigation bar on the right side of the menu contains the following icons: up arrow, down arrow, right arrow, and a red X.

or

Main Menu for digital (DVI) Input



The OSD menu for digital (DVI) input is displayed. The menu is titled "Menu" and "Dell P2210". The "Brightness / Contrast" option is selected and highlighted in yellow. The menu items are:

- Brightness / Contrast (selected)
- Auto Adjust
- Input Source
- Color Settings
- Display Settings
- Other Settings
- Personalize

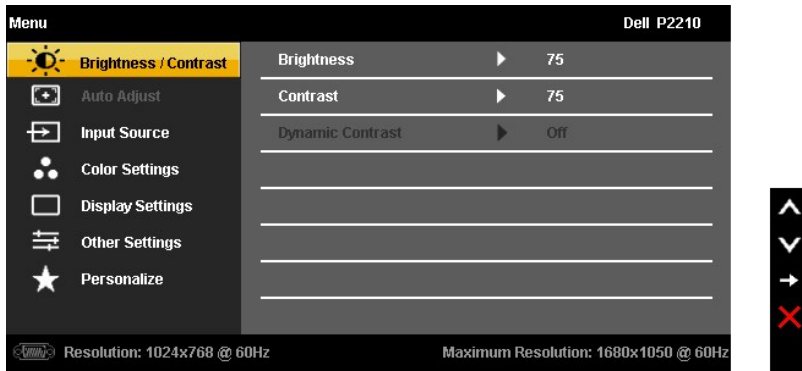
The settings for the selected menu item are:

- Brightness: 75
- Contrast: 75
- Dynamic Contrast: Off

The resolution is 1024x768 @ 60Hz. The maximum resolution is 1680x1050 @ 60Hz. A vertical navigation bar on the right side of the menu contains the following icons: up arrow, down arrow, right arrow, and a red X.

or







Main Menu for display (DP) Input

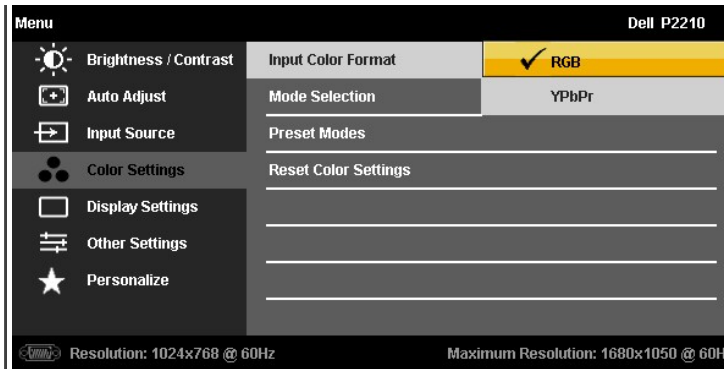


NOTE: AUTO ADJUST is only available when you use the analog (VGA) connector.

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

Icon	Menu and Submenus	Description
	Brightness/Contrast	Use This menu to activate Brightness/Contrast adjustment.
	Brightness	Brightness adjusts the luminance of the backlight. Push the button to increase brightness and push the button to decrease brightness (min 0 ~ max 100).
	Contrast	Adjust Brightness first, and then adjust Contrast only if further adjustment is necessary. Push the button to increase contrast and push the button to decrease contrast (min 0 ~ max 100). The Contrast function adjusts the degree of difference between darkness and lightness on the monitor screen.
	Dynamic Contrast	Dynamic Contrast adjusts the contrast ratio to 10000:1. Push the button to select the Dynamic Contrast "On" or "Off" .

	Auto Adjust	<p>Even though your computer recognizes your monitor on startup, the Auto Adjustment function optimizes the display settings for with your particular setup.</p> <p>Auto Adjustment allows the monitor to self-adjust to the incoming video signal. After using Auto Adjustment, you can further tun your monitor by using the Pixel Clock (Coarse) and Phase (Fine) controls under Image Settings.</p> <div data-bbox="451 441 880 556" style="background-color: #333; color: #ccc; padding: 10px; text-align: center; margin: 10px 0;"> Auto Adjustment in Progress... </div> <p>NOTE: In most cases, Auto Adjust produces the best image for your configuration.</p> <p>NOTE: Auto Adjust option is only available when you are using the analog (VGA) connector.</p>
	Input Source	<p>Use the Input Source menu to select between different video signals that may be connected to your monitor.</p> <div data-bbox="451 693 1172 1066" style="background-color: #333; color: #ccc; padding: 5px;"> <div style="display: flex; justify-content: space-between;"> Menu Dell P2210 </div> <ul style="list-style-type: none"> Brightness / Contrast Auto Adjust <li style="background-color: #eee; color: #333;"> Input Source Color Settings Display Settings Other Settings Personalize <div style="margin-top: 10px;"> <p><input checked="" type="checkbox"/> Auto Select</p> <p>VGA </p> <p>DVI - D </p> <p>DisplayPort </p> </div> <div style="display: flex; justify-content: space-between; font-size: 0.8em;"> Resolution: 1024x768 @ 60Hz Maximum Resolution: 1680x1050 @ 60Hz </div> </div> <div data-bbox="1209 882 1250 1066" style="background-color: #333; color: #ccc; padding: 5px; text-align: center; margin-left: 10px;"> ^ v → X </div>
	Auto Source	<p>Push to select the Auto source, the monitor will Auto detc the analog siganl.</p>
	VGA	<p>Select VGA input when you are using the analog (VGA) connector. Push to select the VGA input source.</p>
	DVI-D	<p>Select DVI-D input when you are using the Digital (DVI) connector. Push to select the DVI input source.</p>
	DisplayPort	<p>Select DisplayPort input when you are using the DisplayPort (DP) connector. Push to select the DisplayPort input source.</p>
	Color Setting	<p>Use the Color Settings to adjust the color setting mode and color temperature. There are different color setting sub-menus for VGA/DVI-D and Video input.</p> <div data-bbox="451 1438 1172 1795" style="background-color: #333; color: #ccc; padding: 5px;"> <div style="display: flex; justify-content: space-between;"> Menu Dell P2210 </div> <ul style="list-style-type: none"> Brightness / Contrast Auto Adjust Input Source <li style="background-color: #eee; color: #333;"> Color Settings Display Settings Other Settings Personalize <div style="margin-top: 10px;"> <p>Input Color Format ▶ RGB</p> <p>Mode Selection ▶ Graphics</p> <p>Preset Modes ▶ Standard</p> <p>Reset Color Settings</p> </div> <div style="display: flex; justify-content: space-between; font-size: 0.8em;"> Resolution: 1024x768 @ 60Hz Maximum Resolution: 1680x1050 @ 60Hz </div> </div> <div data-bbox="1209 1617 1250 1801" style="background-color: #333; color: #ccc; padding: 5px; text-align: center; margin-left: 10px;"> ^ v → ↶ </div>
	Input Color Format	<p>Choose the RGB option if monitor is connected to a computer or a DVD using a VGA or DVI cable. Choose the YPbPr option if mon connected to a DVD by a YPbPr to VGA or YPbPr to DVI cable or if the DVD color output setting is not RGB.</p>



Mode Selection

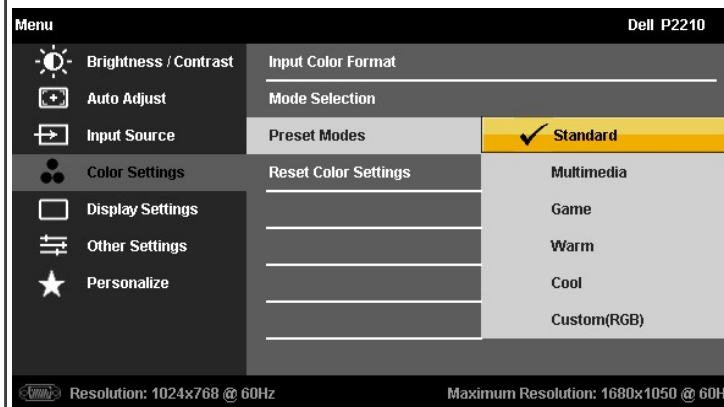
You can choose **Graphics** or **Video** according to the input signal.

- | **Graphics:** Select this mode if your monitor is connected to your computer.
- | **Video:** Select this mode if you monitor is connected to a DVD player.

Preset Modes

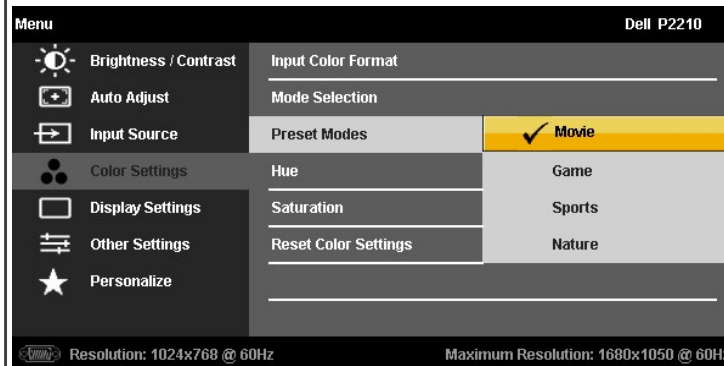
When you select **Graphics**, you can choose **Standard**, **Multimedia**, **Game**, **Warm**, **Cool**, or **Custom (R,G,B)**:

- | **Standard:** Loads the monitor's default color settings. This is the default preset mode.
- | **Multimedia:** Loads color settings ideal for multimedia applications.
- | **Game:** Loads color settings ideal for most gaming applications.
- | **Warm:** Increase the color temperature. The screen appears warmer with a red/yellow tint.
- | **Cool:** Decreases the color temperature. The screen appears cooler with a blue tint.
- | **Custom (R, G, B):** Allows you to manually adjust the color settings. Press the and buttons to adjust the three colors (R, G values and create your own preset color mode.



When you select **Video**, you can choose **Movie**, **Game**, **Sports**, or **Nature** preset:







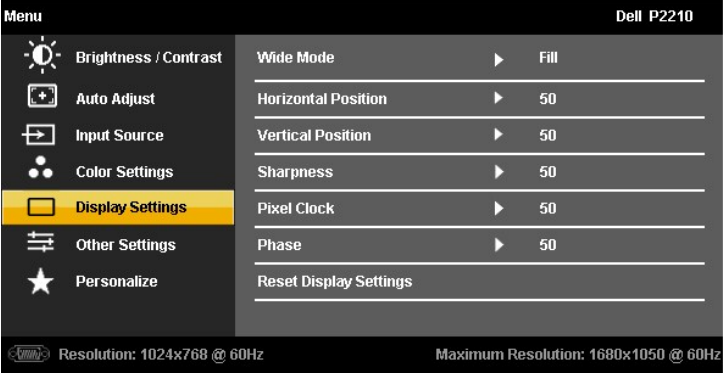









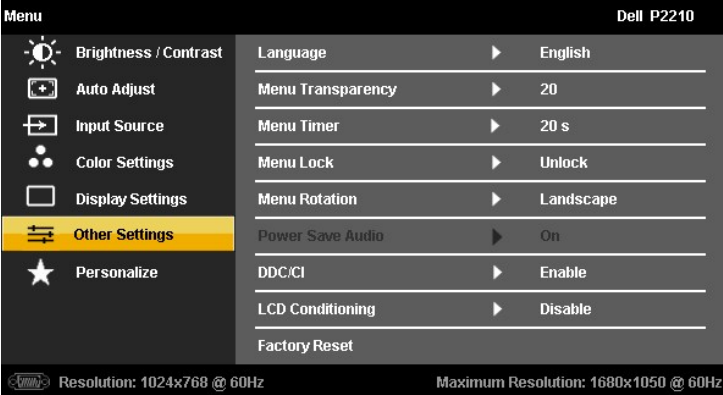
- | **Movie:** Loads color settings ideal for movies. This is the default preset mode.
- | **Sports:** Loads color settings ideal for sports.
- | **Game:** Loads color settings ideal for game.
- | **Nature:** Loads color settings ideal for nature.



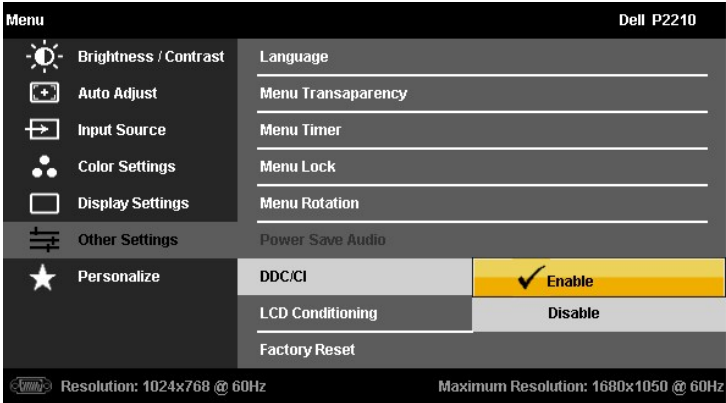
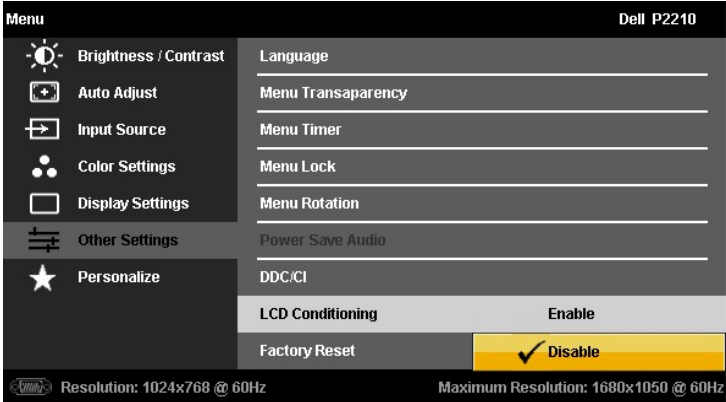

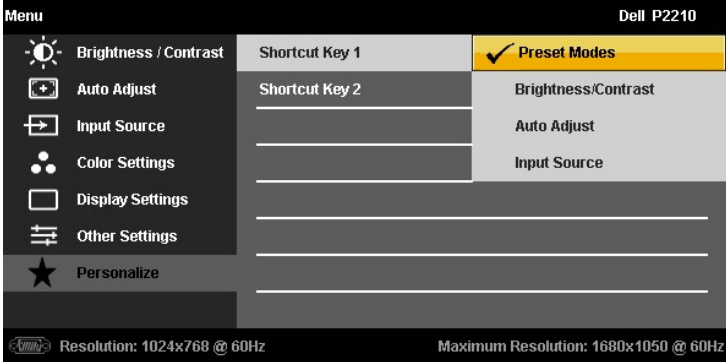


Hue

This feature can shift color of video image to green or purple. This is used to adjust the desired flesh tone color. Use or to adjust hue from '0' to '100' .

Press to increase the green shade of the video image

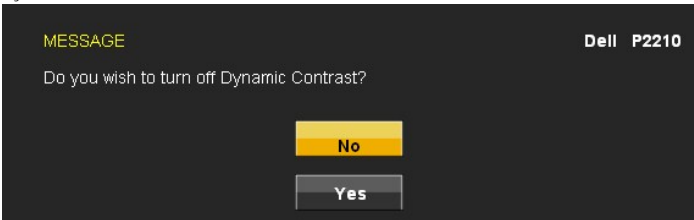
		<p>Press  to increase the purple shade of the video image</p> <p>NOTE: Hue adjustment is available only for video input.</p>
	Saturation	<p>This feature can adjust the color saturation of the video image. Use  or  to adjust the saturation from '0' to '100'.</p> <p>Press  to increase the monochrome appearance of the video image</p> <p>Press  to increase the colorful appearance of the video image</p> <p>NOTE: Saturation adjustment is available only for video input.</p>
	Reset Color Settings	Reset your monitor color settings to the factory settings.
	Display Settings	<p>Use the Display Settings to adjust image.</p> 
	Wide Mode	Adjust the image ratio as 16: 10 or full screen.
	Horizontal Position	Use the  or  to adjust image left or right. Minimum is '0' (-). Maximum is '100' (+).
	Vertical Position	Use the  or  to adjust image up or 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	<p>The Phase and Pixel Clock adjustments allow you to adjust your monitor to your preference.</p> <p>Use the  or  to adjust for best image quality.</p>
	Phase	<p>If satisfactory results are not obtained using the Phase adjustment, use the Pixel Clock (coarse) adjustment and then use Phase (fine), again.</p> <p>NOTE: Pixel Clock and Phase Adjustments are only available for "VGA" input.</p>
	Reset Display Settings	Select this option to restore default display settings.
	Other Settings	Select this option to adjust the settings of the OSD, such as, the languages of the OSD, the amount of time the menu remains on screen, and so on.
		
	Language	Language option to set the OSD display to one of eight languages (English, Espanol, Francais, Deutsch, Brazilian Portuguese, Russian, Simplified chinese or Japanese).
	Menu Transparency	Select this option to change the menu transparency by pressing 1st or 2nd buttons (Minimum: 0 ~ Maximum: 100).

	Menu Timer	OSD Hold Time: Sets the length of time the OSD will remain active after the last time you pressed a button. Use the  or  to adjust the slider in 5 second increments, from 5 to 60 seconds.
	Menu Lock	Controls user access to adjustments. When Lock is selected, no user adjustments are allowed. All buttons are locked . NOTE: When the OSD is locked, pressing the menu button takes the user directly to the OSD settings menu, with OSD Lock selected. Select "Unlock" to unlock and allow user access to all applicable settings.
	Menu Rotation	Rotates the OSD by 90 degrees counter-clockwise.
	Power Save Audio	To turn on or off Audio Power during Power Save mode.
	DDC/CI	DDC/CI (Display Data Channel/Command Interface) allows your monitor parameters (brightness, color balance etc) to be adjusted via 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. 
	LCD Conditioning	Helps reduce minor cases of image retention. Depending on the degree of image retention, the program may take some time to You can enable this feature by selecting "Enable". 
	Factory Reset	Reset all OSD settings to the factory preset values.
	Personalize	User can select from "Preset Modes", "Brightness/Contrast", "Auto Adjust", "Input Source", "Energy Modes" and set as shortcut 

Note: This monitor has a built-in feature to automatically calibrate the brightness to compensate for CCFL aging.

OSD Warning Messages

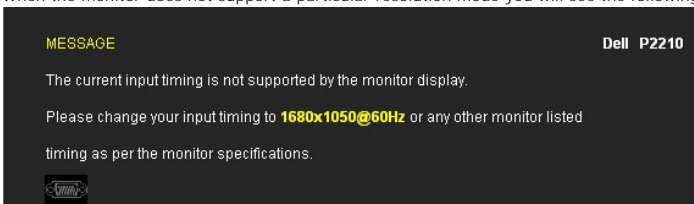
Dynamic Contrast Feature is offered in Game, Movie, Sport and Nature Mode only. When switching from these modes to other modes, Dynamic Contrast feature will be disabled.



When Dynamic Contrast Feature is enabled (in these modes: Game, Movie, Sport and Nature), the manual brightness adjustment is disabled

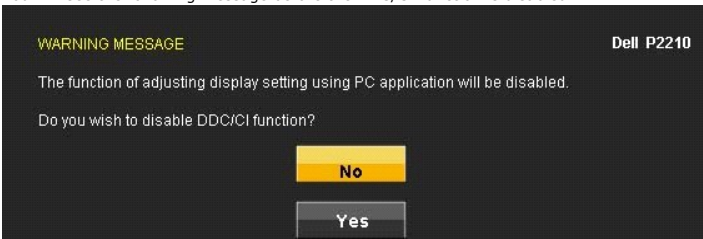


When the monitor does not support a particular resolution mode you will see the following message:



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. Recommended mode is 1680 x 1050.

You will see the following message before the DDC/CI function is disabled.



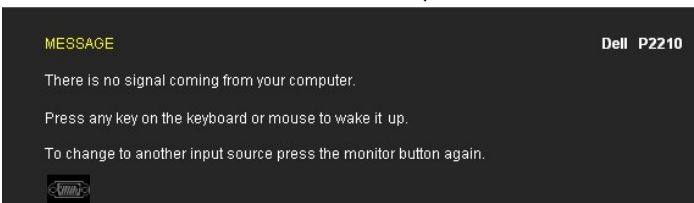
When monitor enters Power Save mode, the following message appears:



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

If you press any button other than the power button one of the following messages will appear depending on the selected input:

VGA/DVI-D/DP input



If either VGA or DVI-D or DP input is selected and both VGA and DVI-D cables are not connected, a floating dialog box as shown below appears.



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

Setting the Maximum Resolution

To set the Maximum resolution for the monitor:

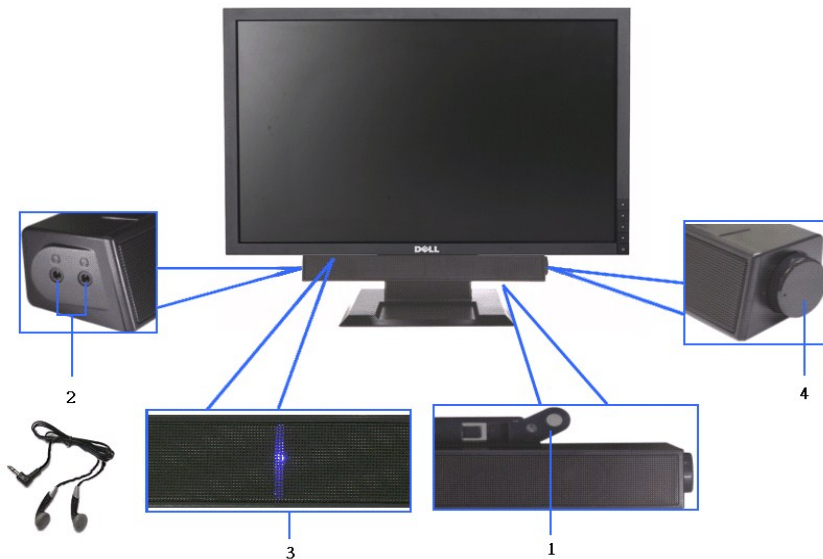
1. Right-click on the desktop and select **Properties**.
2. Select the **Settings** tab.
3. Set the screen resolution to 1680 x 1050.
4. Click **OK**.

If you do not see 1680 x 1050 as an option, you may need to update your graphics driver. Depending on your computer, complete one of the following procedures:

1. If you have a Dell desktop or portable computer:
 - o Go to support.dell.com, enter your service tag, and download the latest driver for your graphics card.
1. 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 adaptable to mount 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 jacks
3. Power indicator
4. Power/Volume control

Operating the Adjustable Stand

Tilt Adjustment


Viewing angle can be adjusted 4° forwards and 21° backwards for viewing comfort.



Height Adjustment

Stand extends vertically 90mm for viewing comfort.




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

Swivel Adjustment

Swivel the monitor for viewing comfort.



 **NOTE:** The stand will lose the swivel functionality if the stand is mounted to desktop surface.

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Setting Up Your Monitor

Dell™ P2210 SFF AIO Flat Panel Monitor

Setting the display resolution to 1680x1050 (maximum)

For optimal display performance while using the Microsoft Windows operating systems, set the display resolution to 1680 x 1050 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 left-mouse button and adjust the screen resolution to **1680 X1050**.
4. Click **OK**.

If you do not see **1680x1050** 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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Dell™ P2210 SFF AIO Flat Panel Monitor

[User Guide](#)

[Setting the display resolution to 1680x1050\(maximum\)](#)

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P2210f

28 August 2009 Rev. A01

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Setting Up the Monitor

Dell™ P2210 SFF A10 Flat Panel Monitor For Dell OptiPlex™960 SFF Computer

- [Cable Connections on the Back of the Monitor and the Computer](#)
 - [Removing the Cable Cover and the Computer from the Stand](#)
 - [Detaching the Monitor from the Stand](#)
 - [Attaching the Dell Soundbar \(optional\)](#)
-

Cable Connections on the Back of the Monitor and the Computer

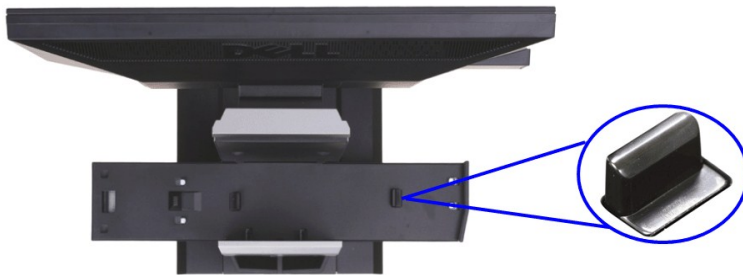
1. Attach the monitor to the stand


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

- Fit the groove on the back of the monitor onto the two tabs on the stand.
- Lower the monitor until it locked in to place on the stand.



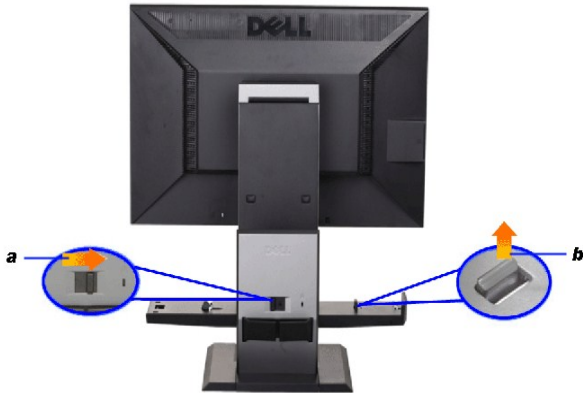
2. Verify if the hook triggers are at extended position before mounting the OptiPlex 960 SFF (small-form-factor) computer to the stand



 **NOTE:** The hooks trigger are extended when the stand is shipped from the factory.

If the trigger hooks are at locked down position

- Slide the unlock switch to the right.
- The hook triggers will be released to the extended position.



3. Place the OptiPlex 960 SFF (small-form-factor) computer on the stand with the back of the computer resting on the step




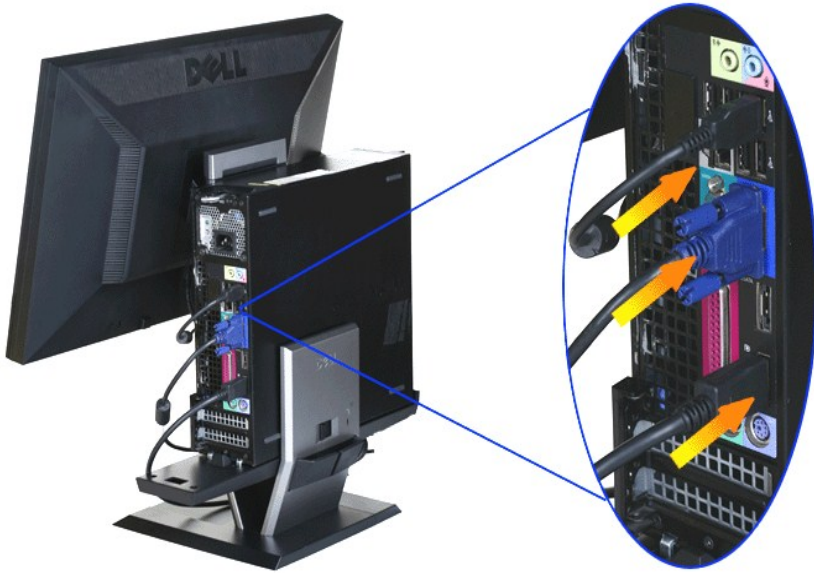
4. Engage the OptiPlex 960 SFF (small-form-factor) computer to the stand auto locking mechanism.

- a. Toe-in the computer towards the chassis hooks until it reaches the alignment ramp.
- b. Lower the front side of computer within the alignment feature.
- c. Press on the front edge of computer until the auto chassis hooks lock the OptiPlex 960 SFF (small-form-factor) computer to the stand.




5. Connect the blue Analog (VGA) cable or DP(optional purchase) cable and the USB cable to the computer.

 **NOTE:** This blue Analog (VGA) cable is shipped attached to the monitor.



6. Connect the power cables to the monitor and the computer.

 **NOTE:** The monitor power cable and the Cable Cover are shipped with the monitor.

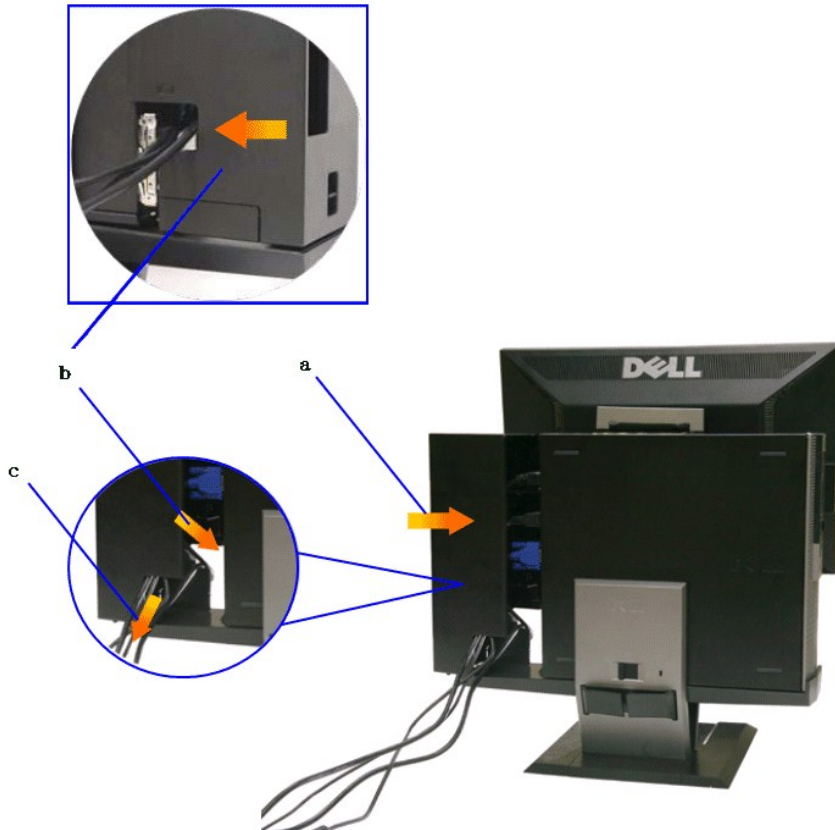


7. Connect the keyboard, mouse and other cables to the computer.

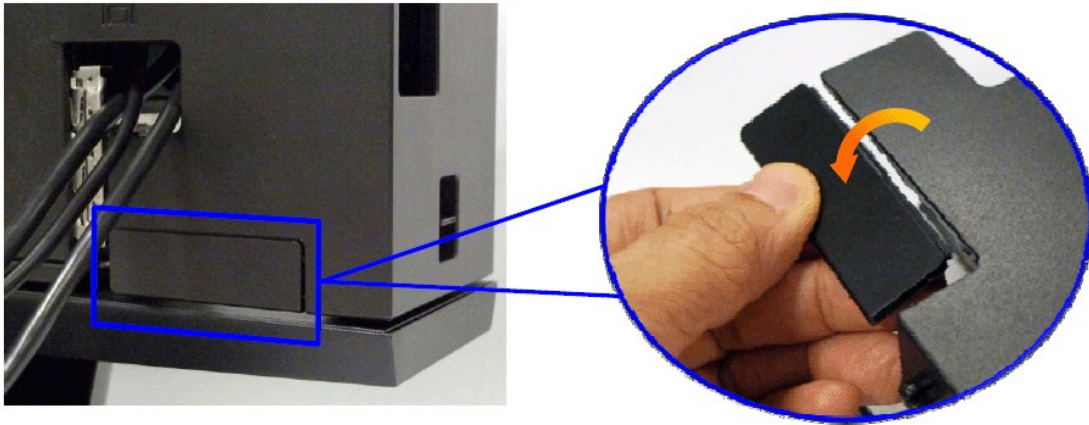


8. To route the cables through the cable cover openings.

- a. Hold the cable cover close to the computer
- b. Route the cables connected to the monitor (power, USB and VGA cables) through the cable cover front opening.
- c. Route the computer power cables, monitor power cables any other cables that connect to the computer (mouse, keyboard, network, printer, external audio, etc.) through the cable cover back opening.



NOTE: For computer system installed with add-on video card that requires the use of video dongles, remove "breakaway piece" by breaking it along the outline.



Remove "breakaway piece" by breaking it along the outline.

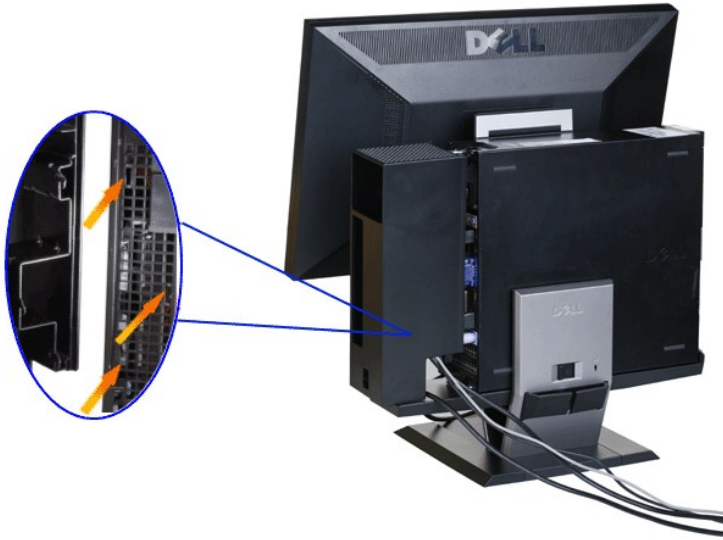


Dongle route through the new opening

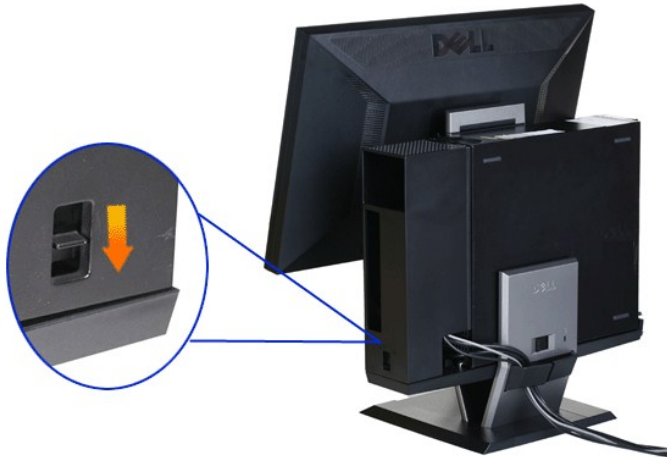
List of video dongles for Optiplex SFF computer

Video Dongle	Video Card
DMS 59 to dual DVI dongle (included)	256MB ATI RADEON HD 3450
DMS 59 to dual VGA dongle (included)	
DP to DVI dongle (2 included)	256MB ATI RADEONHD3470
DP to DVI dongle (optional)	Integrated Display Port

9. Install the back cover to the computer back panel by engaging the 3 hooks on the cable cover to the 3 slots on the computer back panel. Be careful not to disconnect any cable.



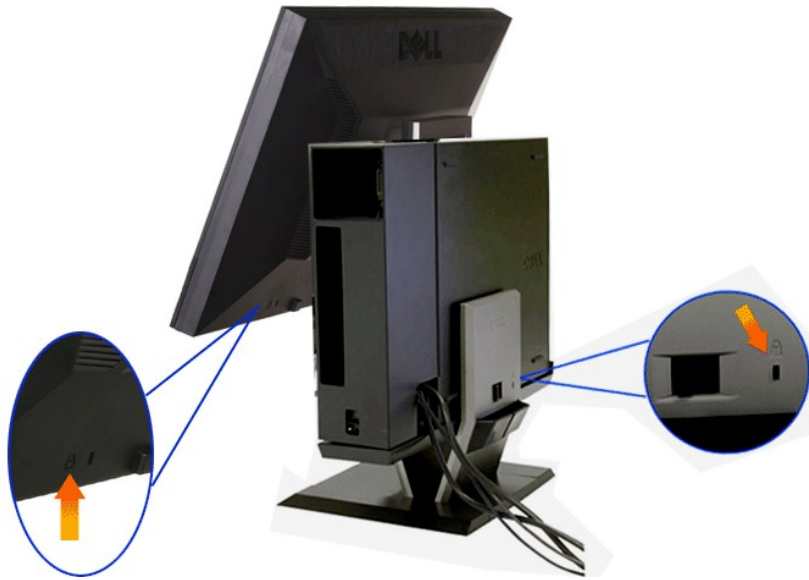
10. Press down the cable cover lock switch to lock the cable cover to the stand.



11. Use the cable management clip to neatly organize all the cables as shown below.



12. Install security locks to the computer and the monitor (Optional)



13. Plug the power cables of the computer and the monitor into a nearby outlet.



14. Power on both the monitor and the computer.

If your monitor displays an image, installation is complete. If it does not display an image, see [Troubleshooting](#).



Removing the Cable Cover and the OptiPlex 960 SFF (small-form-factor) Computer from the Stand

1. Unplug the power cables of the monitor and the computer.



2. Release the cable cover and the OptiPlex 960 SFF (small-form-factor) computer from the stand.

1. Remove the optional security lock on stand (if used).
2. Slide the unlock switch to the right to unlock the cable cover and the OptiPlex 960 SFF (small-form-factor) computer from the stand.




3. Remove the cables from the cable management clip.
4. Lift and remove the cable cover from the computer and the stand.



5. Unplug all cables from the computer.
6. Lift and remove the OptiPlex 960 SFF (small-form-factor) computer from the stand.



Detaching the Monitor from the Stand

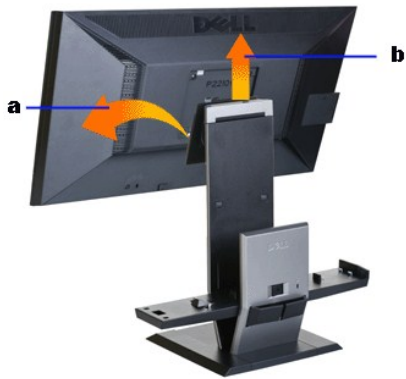
 **NOTE:** This monitor is VESA compliant for wall mounting, and detaching the monitor from the stand is necessary.

1. Press the stand removal button to release the monitor from the stand.



2. Remove the monitor from the stand.

- a. Pull away the bottom of the monitor from the stand.
- b. Lift the monitor away from the stand.



Attaching the Dell Soundbar (optional)



➡ **CAUTION:** Do not use the soundbar power connector with any other device.

1. Attach the Soundbar by aligning the two slots on the Soundbar with the two tabs on the bottom of the monitor.
2. Slide the Soundbar to the left until it snaps in to place.
3. Plug in the power cord from the Soundbar in to the connector on the back of the monitor.
4. Insert the green stereo plug from the Soundbar in to your computer's audio output connector.

📌 **NOTE:** Soundbar Power Connector +12V DC output is optional .

➡ **CAUTION:** Do not use with any device other than Dell Soundbar .

Troubleshooting

Dell™ P2210 SFF AIO Flat Panel Monitor

- [Self-Test](#)
- [Built-in Diagnostics](#)
- [Common Problems](#)
- [Product Specific Problems](#)
- [Universal Serial Bus Specific Problems](#)
- [Dell Soundbar Problems](#)

⚠ WARNING: 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 all Digital (white connector) and the Analog (blue connector) cables 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 green. Also, depending upon the selected input, one of the dialogs 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.

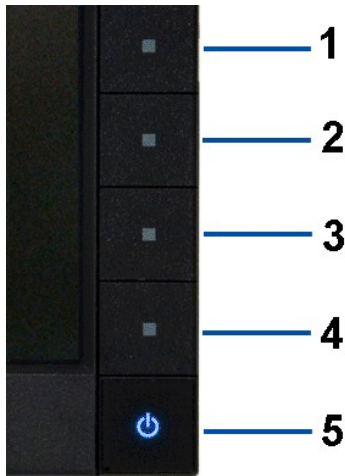
If your monitor screen remains blank after you use the previous procedure, check your video controller and computer, because your monitor is functioning properly.

📌 NOTE: Self test feature check is not available for S-Video, Composite, and Component video modes.

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. Press and hold the **Button 1** and **Button 4** on the front panel, simultaneously for 2 seconds. A gray screen appears.
4. Carefully inspect the screen for abnormalities.
5. Press the **Button 4** 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 **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.

Common Problems


The following table contains general information about common monitor problems 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"> 1 Ensure that the video cable connecting the monitor and the computer is properly connected and secure. 1 Verify that the power outlet is functioning properly using any other electrical equipment. 1 Ensure that the power button is depressed fully.
No Video/Power LED on	No picture or no brightness	<ul style="list-style-type: none"> 1 Increase brightness & contrast controls via OSD. 1 Perform monitor self-test feature check. 1 Check for bent or broken pins in the video cable connector. 1 Run the built-in diagnostics.
Poor Focus	Picture is fuzzy, blurry, or ghosting	<ul style="list-style-type: none"> 1 Perform Auto Adjust via OSD. 1 Adjust the Phase and Pixel Clock controls via OSD. 1 Eliminate video extension cables. 1 Reset the monitor to Factory Settings. 1 Change the video resolution to the correct aspect ratio (16:10).
Shaky/Jittery Video	Wavy picture or fine movement	<ul style="list-style-type: none"> 1 Perform Auto Adjust via OSD. 1 Adjust the Phase and Pixel Clock controls via OSD. 1 Reset the monitor to Factory Settings. 1 Check environmental factors. 1 Relocate the monitor and test in another room.
Missing Pixels	LCD screen has spots	<ul style="list-style-type: none"> 1 Cycle power on-off. 1 Pixel that is permanently off is a natural defect that can occur in LCD technology. 1 Run the built-in diagnostics.
Stuck-on Pixels	LCD screen has bright spots	<ul style="list-style-type: none"> 1 Cycle power on-off. 1 Pixel that is permanently off is a natural defect that can occur in LCD technology. 1 Run the built-in diagnostics.
Brightness Problems	Picture too dim or too bright	<ul style="list-style-type: none"> 1 Reset the monitor to Factory Settings. 1 Auto Adjust via OSD. 1 Adjust brightness & contrast controls via OSD.
Geometric Distortion	Screen not centered correctly	<ul style="list-style-type: none"> 1 Reset the monitor to Factory Settings. 1 Auto Adjust via OSD. 1 Adjust brightness & contrast controls via OSD. <p>NOTE: When using '2: DVI-D', the positioning adjustments are not available.</p>
Horizontal/Vertical Lines	Screen has one or more lines	<ul style="list-style-type: none"> 1 Reset the monitor to Factory Settings. 1 Perform Auto Adjust via OSD. 1 Adjust Phase and Pixel Clock controls via OSD.

		<ul style="list-style-type: none"> 1 Perform monitor self-test feature check and determine if these lines are also in self-test mode. 1 Check for bent or broken pins in the video cable connector. 1 Run the built-in diagnostics. <p>NOTE: When using '2: DVI-D', the Pixel Clock and Phase adjustments are not available.</p>
Synchronization Problems	Screen is scrambled or appears torn	<ul style="list-style-type: none"> 1 Reset the monitor to Factory Settings. 1 Perform Auto Adjust via OSD. 1 Adjust Phase and Pixel Clock controls via OSD. 1 Perform monitor self-test feature check to determine if the scrambled screen appears in self-test mode. 1 Check for bent or broken pins in the video cable connector. 1 Restart the computer in the <i>safe mode</i>.
Safety Related Issues	Visible signs of smoke or sparks	<ul style="list-style-type: none"> 1 Do not perform any troubleshooting steps. 1 Contact Dell immediately.
Intermittent Problems	Monitor malfunctions on & off	<ul style="list-style-type: none"> 1 Ensure that the video cable connecting the monitor to the computer is connected properly and is secure. 1 Reset the monitor to Factory Settings. 1 Perform monitor self-test feature check to determine if the intermittent problem occurs in self-test mode.
Missing Color	Picture missing color	<ul style="list-style-type: none"> 1 Perform monitor self-test feature check. 1 Ensure that the video cable connecting the monitor to the computer is connected properly and is secure. 1 Check for bent or broken pins in the video cable connector.
Wrong Color	Picture color not good	<ul style="list-style-type: none"> 1 Change the Color Setting Mode in the Color Settings OSD to Graphics or Video depending on the application. 1 Try different Color Preset Settings in Color Settings OSD. Adjust R/G/B value in Color Settings OSD if the Color Management is turned off. 1 Change the Input Color Format to PC RGB or YPbPr in the Advance Setting OSD. 1 Run the built-in diagnostics.
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"> 1 Use the Power Management feature to turn off the monitor at all times when not in use (for more information, see Power Management Modes). 1 Alternatively, use a dynamically changing screensaver.

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"> 1 Check the Scaling Ratio setting in Image Setting OSD 1 Reset the monitor to Factory Settings.
Cannot adjust the monitor with the buttons on the front panel	OSD does not appear on the screen	<ul style="list-style-type: none"> 1 Turn off the monitor, unplug the power cord, plug back, and then turn on the monitor.
No Input Signal when user controls are pressed	No picture, the LED light is green. When you press anyone of buttons except the power button , the message "No S-Video input signal", or "No Composite input signal", or "No Component input signal" appears	<ul style="list-style-type: none"> 1 Check the signal source. Ensure the Computer is not in the power saving mode by moving the mouse or pressing any key on the keyboard. 1 Check to make sure Video Source to S-Video, Composite or Component is powered and playing video media. 1 Check whether the signal cable is plugged in properly. Re-plug the signal cable if necessary. 1 Reset the computer or video player.
The picture does not fill the entire screen.	The picture cannot fill the height or width of the screen	<ul style="list-style-type: none"> 1 Due to different video formats (aspect ratio) of DVDs, the monitor may display in full screen. 1 Run the built-in diagnostics.

 **NOTE:** When choosing DVI-D mode, the **Auto Adjust** function is not available.

Universal Serial Bus (USB) Specific Problems

Specific Symptoms	What You Experience	Possible Solutions
USB interface is not working	USB peripherals are not working	<ul style="list-style-type: none"> 1 Check that your monitor is turned ON. 1 Reconnect the upstream cable to your computer. 1 Reconnect the USB peripherals (downstream connector). 1 Switch off and then turn on the monitor again. 1 Reboot the computer. 1 Some USB devices like external portable HDD require higher electric current; connect the device directly to the computer system.
High Speed USB 2.0 interface is slow.	High Speed USB 2.0 peripherals working slowly or not working at all	<ul style="list-style-type: none"> 1 Check that your computer is USB 2.0-capable. 1 Some computers have both USB 2.0 and USB 1.1 ports. Ensure that the correct USB port is used. 1 Reconnect the upstream cable to your computer. 1 Reconnect the USB peripherals (downstream connector). 1 Reboot the computer.

Dell™ Soundbar Problems

Common Symptoms	What You Experience	Possible Solutions
No Sound	No power to Soundbar - the power indicator is off	<ul style="list-style-type: none"> 1 Turn the Power/Volume knob on the Soundbar clockwise to the middle position; check if the power indicator (Blue LED) on the front of the Soundbar is illuminated. 1 Confirm that the power cable from the Soundbar is plugged into the adapter.
No Sound	Soundbar has power - power indicator is on	<ul style="list-style-type: none"> 1 Plug the audio line-in cable into the computer's audio out jack. 1 Set all Windows volume controls to their maximum 1 Play some audio content on the computer (i.e. audio CD, or MP3). 1 Turn the Power/Volume knob on the Soundbar clockwise to a higher volume setting. 1 Clean and reseal the audio line-in plug. 1 Test the Soundbar using another audio source (i.e. portable CD player).
Distorted Sound	Computer's sound card is used as the audio source	<ul style="list-style-type: none"> 1 Clear any obstructions between the Soundbar and the user. 1 Confirm that the audio line-in plug is completely inserted into the jack of the sound card. 1 Set all Windows volume controls to their midpoints. 1 Decrease the volume of the audio application. 1 Turn the Power/Volume knob on the Soundbar counter-clockwise to a lower volume setting. 1 Clean and reseal the audio line-in plug. 1 Troubleshoot the computer's sound card. 1 Test the Soundbar using another audio source (i.e. portable CD player, MP3 player).
Distorted Sound	Other audio source is used	<ul style="list-style-type: none"> 1 Clear any obstructions between the Soundbar and the user. 1 Confirm that the audio line-in plug is completely inserted into the jack of the audio source. 1 Decrease the volume of the audio source. 1 Turn the Power/Volume knob on the Soundbar counter-clockwise to a lower volume setting. 1 Clean and reseal the audio line-in plug.
Unbalanced Sound Output	Sound from only one side of Soundbar	<ul style="list-style-type: none"> 1 Clear any obstructions between the Soundbar and the user. 1 Confirm that the audio line-in plug is completely inserted into the jack of the sound card or audio source. 1 Set all Windows audio balance controls (L-R) to their midpoints. 1 Clean and reseal the audio line-in plug. 1 Troubleshoot the computer's sound card. 1 Test the Soundbar using another audio source (i.e. portable CD player).
Low Volume	Volume is too low	<ul style="list-style-type: none"> 1 Clear any obstructions between the Soundbar and the user. 1 Turn the Power/Volume knob on the Soundbar clockwise to the maximum volume setting. 1 Set all Windows volume controls to their maximum. 1 Increase the volume of the audio application. 1 Test the Soundbar using another audio source (i.e. portable CD player, MP3 player).

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