Alienware OptX™ AW2210 User's Guide

About Your Monitor

Setting Up the Monitor

Operating the Monitor

Troubleshooting

Appendix

Notes, Cautions, and Warnings

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

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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Model AW2210t

August 2009 Rev. A03

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Back to Contents Page

About Your Monitor

Alienware OptX™ AW2210 User's Guide

- Package Contents
- Product Features
- Identifying Parts and Controls
- Monitor Specifications
- Universal Serial Bus (USB) Interface
- Plug and Play Capability
- Maintenance Guidelines

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.

	• Monitor with stand
	• Cable Cover
	• Power Cable
	• DVI Cable
	• HDMI Cable
	• USB Cable

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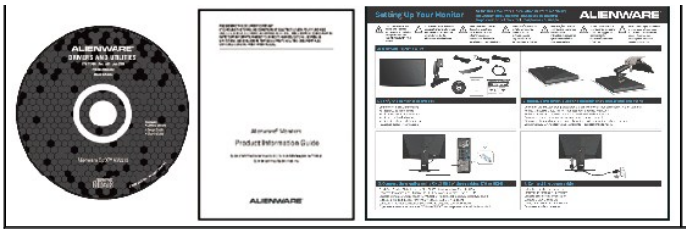


- *Drivers and Documentation* media
- *Setup Guide*
- Safety Information

Product Features

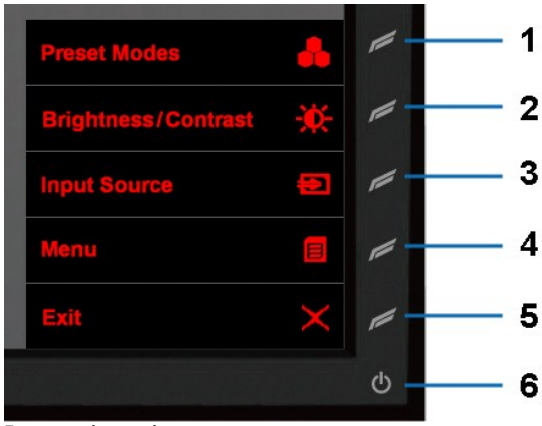
The **Alienware OptX™ AW2210** has an active matrix, thin-film transistor (TFT), liquid crystal display (LCD), and LED backlight. The monitor features include:

- 21.5-inch (546.86 mm) viewable area display. 1920 x 1080 resolution, plus full-screen support for lower resolutions.
- Wide viewing angle to allow viewing from a sitting or standing position, or moving side-to-side.
- Tilt, swivel, and vertical extension capabilities.
- 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 media includes an information file (INF), Image Color Matching File (ICM), and product documentation.
- Energy Saver feature for Energy Star compliance.
- Security lock slot.

Identifying Parts and Controls

Front View

Front View



Front panel controls

Label	Description
1	Shortcut Key 1 (Preset Modes)
2	Shortcut Key 2 (Brightness/Contrast)
3	Shortcut Key 3 (Input Source)
4	Menu
5	Exit
6	Power On/Off

Back View

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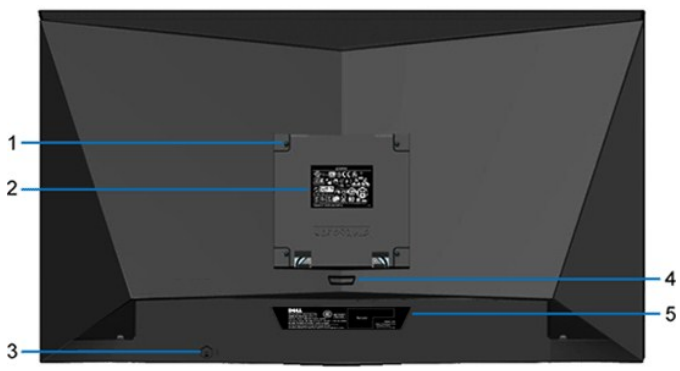

Back view

Back view with monitor stand

	Label	Description / Use
1	VESA mounting holes (100 mm) (behind attached VESA plate)	Use to mount the monitor.
2	Regulatory rating label	Lists the regulatory approvals.
3	Security lock slot	Use a security lock with the slot to help secure your monitor.
4	Stand removal button	Press to release the stand.
5	Barcode serial number label	Refer to this label if you need to contact Dell for technical support.
6	Cable management slot	Use to organize cables by placing them through the slot.

Side View

Left view Right view

Bottom View

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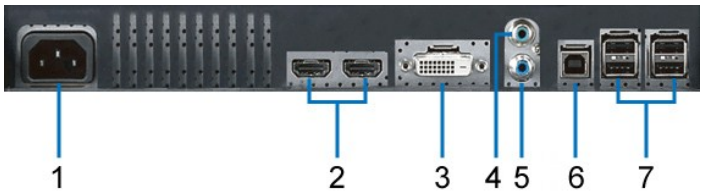

Bottom view

Label	Description
1	AC power cord connector
2	HDMI connectors (2)
3	DVI connector
4	Audio Line-in
5	Audio Line-out
6	USB upstream port
7	USB downstream ports (4)

Monitor Specifications

Flat Panel Specifications

Model	AW2210
Screen type	Active matrix - TFT LCD
Panel type	TN
Screen dimensions	21.5 inches (21.5-inch viewable image size)
Preset display area:	
Horizontal	476.64 mm (18.77 inches)
Vertical	268.11 mm (10.56 inches)
Pixel pitch	0.248 mm
Viewing angle	160° (vertical) typ, 170° (horizontal) typ
Luminance output	300 cd/m ²(typ)
Contrast ratio	1000 to 1 (typ)
Dynamic contrast ratio	Up to 80,000 : 1 (max)
Faceplate coating	Antiglare with hard-coating 3H
Backlight	4 CCFL
Response Time	2ms typical (Grey to Grey)
Color gamut (Typical)	85%*

* AW2210 color gamut (typical) is based on CIE1976 (85%) and CIE1931 (72%) test standards.

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Resolution Specifications

Model	AW2210
Horizontal scan range	30 kHz to 83 kHz (automatic)
Vertical scan range	56 Hz to 75 Hz (automatic)
Maximum resolution	1920 x 1080 at 60 Hz

Video Supported Modes

Model	AW2210
Video display capabilities (DVI playback)	480i/480p/576i/576p/720p/1080i/1080p (Support HDCP)

Preset Display Modes

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal / Vertical)
720 x 400	31.5	70.0	28.3	-/+
640 x 480	31.5	60.0	25.2	-/-
640 x 480	37.5	75.0	31.5	-/-
800 x 600	37.9	60.0	40.0	+/+
800 x 600	46.9	75.0	49.5	+/+
1024 x 768	48.4	60.0	65.0	-/-
1024 x 768	60.0	75.0	78.8	+/+
1152 x 864	67.5	75.0	108.0	+/+
1280 x 1024	64.0	60.0	135.0	+/+
1280 x 1024	80.0	75.0	135.0	+/+
1920 x 1080	67.5	60.0	148.5	+/+

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Electrical Specifications

Model	AW2210
Video input signals	Digital DVI-D TMDS, 600 mV for each differential line, positive polarity at 50 ohm input impedance HDMI TMDS, 600 mV for each differential line, positive polarity at 50 ohm input impedance or 100 Ohm per differential pair Audio Input and Output signals : Input signal level: 1 Vrms without clipping
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 ± 3 Hz/1.5 A (Max.)
Inrush current	120V:40A (Max.) 240V:80A (Max.)

Physical Characteristics

Model	AW2210
Connector type	DVI-D, white connector; HDMI, black connector
Signal cable type	Digital: Detachable, DVI-D, Solid pins, shipped detached from the monitor High Deinition Multimedia Interface: Detachable, HDMI, 19 pins
Dimensions (with stand)	
Height	18.14 inches (460.82 mm)
Width	20.33 inches (516.27 mm)
Depth	7.64 inches (193.97 mm)
Dimensions (without stand)	
Height	12.35 inches (313.75 mm)
Width	20.33 inches (516.27 mm)
Depth	3.25 inches (82.46 mm)
Stand dimensions	
Height	14.57 inches (370.2 mm)
Width	15.75 inches (400.1 mm)
Depth	7.64 inches (193.97 mm)
Weight	
Weight with packaging	15.80 lbs (7.18 kg)
Weight with stand assembly and cables	13.05 lbs (5.92 kg)
Weight without stand assembly (For wall mount or VESA mount considerations - no cables)	8.75 lbs (3.97 kg)
Weight of stand assembly	4.30 lbs (1.95 kg)

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Environmental Characteristics

Model	AW2210
Temperature	
Operating	5° to 35°C (41° to 95°F)
Non-operating	Storage: -20° to 60°C (-4° to 140°F) Shipping: -20° to 60°C (-4° to 140°F)
Humidity	
Operating	10% to 80% (non-condensing)
Non-operating	Storage: 5% to 90% (non-condensing) Shipping: 5% to 90% (non-condensing)
Altitude	
Operating	3,657.6 m (12,000 ft) max
Non-operating	12,192 m (40,000 ft) max
Thermal dissipation	256.08 BTU/hour (maximum) 153.65 BTU/hour (typical)

Power Management Modes

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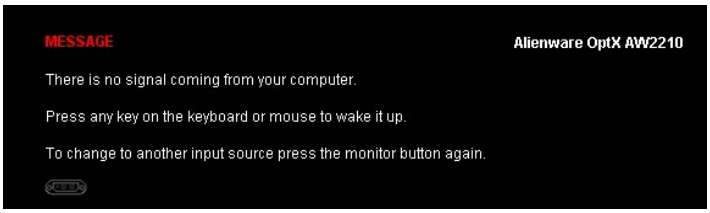
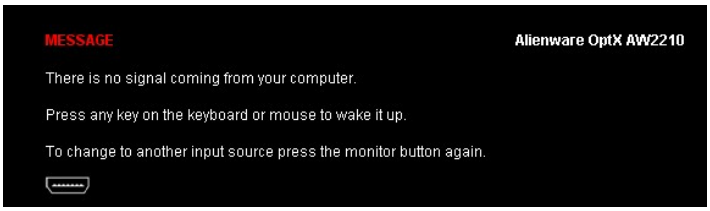
If you have VESA's DPM™ compliance display card or software installed on your computer, the monitor can automatically reduce its power consumption when not This is referred to as *Power Save Mode**. If the computer detects input from keyboard, mouse, or other input devices, the monitor automatically resumes functioni 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	45 W (typical)/75 W (maximum)
Active-off mode	Inactive	Inactive	Blanked	Amber (Breathing)	2 W
Switch off	-	-	-	Off	Less than 1 W

The OSD will only function in the *normal operation* mode. When the **Exit** control is touched in Active-off mode, one of the following messages will be displayed:



OR



Activate the computer and the monitor to gain access to the OSD.

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

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

Pin Assignments

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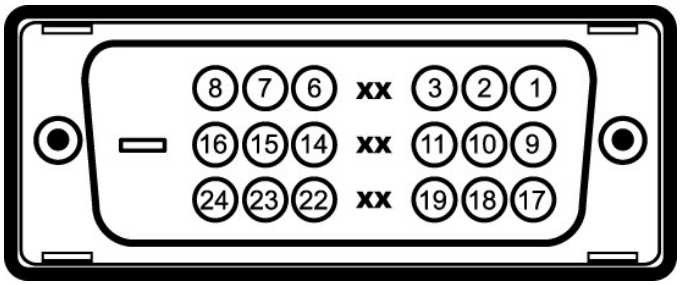
DVI Connector



Pin Number	24-pin Side of the Connected Signal Cable

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Back to Contents Page

Appendix

Alienware OptX™ AW2210 User's Guide

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

WARNING: 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: http://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.

Back to Contents Page

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Back to Contents Page

Setting Up Your Monitor

Alienware OptX™ AW2210

If you have an Alienware™ desktop or an Alienware™ 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 **1920X1080** again.

NOTE: If you are unable to set the resolution to 1920x1080, please contact Dell™ to inquire about a Graphics Adapter that supports these resolutions.

Back to Contents Page

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Back to Contents Page

Setting Up Your Monitor

Alienware OptX™ AW2210

If you have a non Alienware™ desktop, portable computer, or graphics card

In Windows XP:

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 **1920X1080** again.

In Windows Vista® or Windows 7:

1. Right-click on the desktop and click **Personalization**.

2. Click **Change Display Settings**.

3. Click **Advanced Settings**.

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 **1920X1080** again.

NOTE: If you are unable to set the resolution to 1920x1080, contact the manufacturer of your computer or consider purchasing a graphics adapter that will s resolution of 1920x1080.

Back to Contents Page

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Back to Contents Page

Operating the Monitor

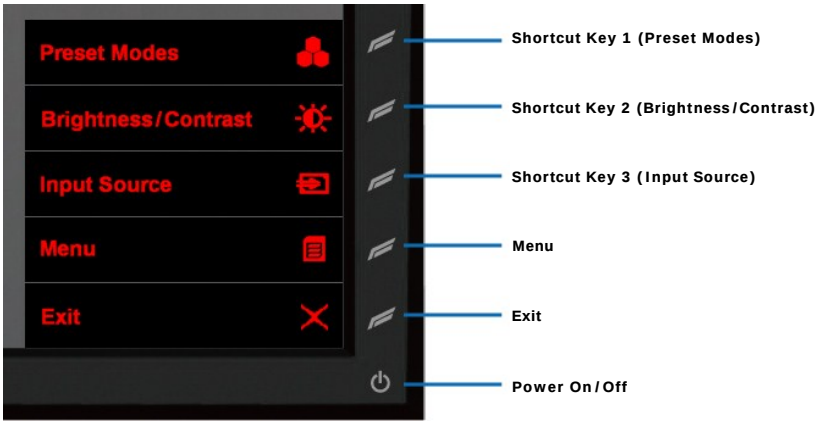
Alienware OptX™ AW2210 User's Guide

- Using the On-Screen Display (OSD) Menu
- Setting the Maximum Resolution
- Using the Tilt, Swivel, and Vertical Extension

Using the On-Screen Display (OSD) Menu

Using the OSD Controls

Use the controls on the front of the monitor to select a Shortcut Key function, to navigate the OSD menu and to adjust the characteristics of the image being displayed.



Icon		Description
	Shortcut Key 1 (Preset Modes)	Select this Shortcut to choose from a list of preset color modes.
	Shortcut Key 2 (Brightness/Contrast)	Select this Shortcut to activate Brightness/Contrast adjustment.
	Shortcut Key 3 (Input Source)	Select this Shortcut to select between different video signals that may be connected to your monitor.
	Menu	Launch the Menu. See Navigating the Menu.
	Exit	Exit On-Screen Display.
	Power On/Off	Turn monitor on or off. The white LED indicates the monitor is on and fully functional. A breathing amber LED indicates it is in power save mode.

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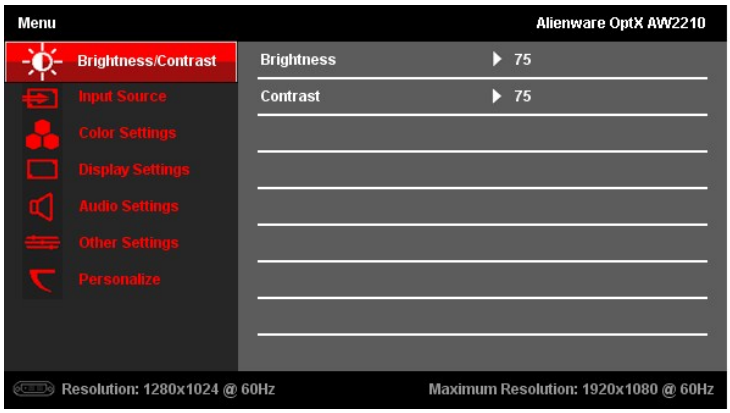
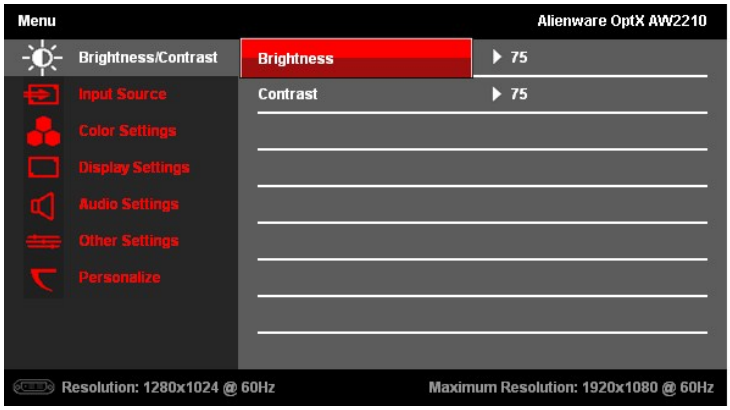
Navigating the Menu

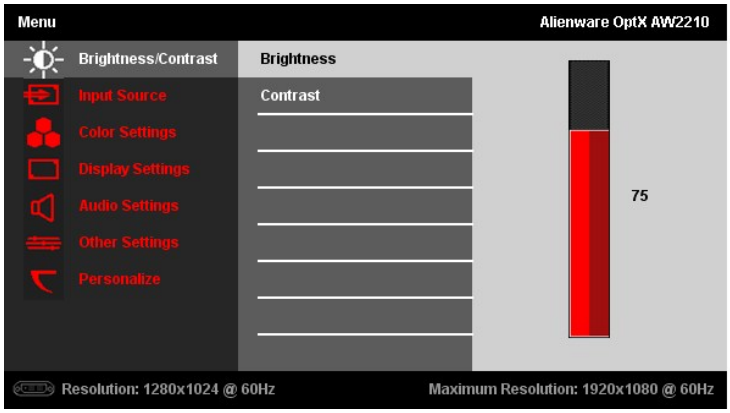
1. Select to launch the menu.



2. Select or to move between the setting options. As you move from one icon to another, the option name is highlighted. See Menu Options for a complete list of all the options available for the monitor.
3. Select to move to the Sub-menu.



4. Select or to move between the setting options.
5. Select to call out the slider bar for adjusting the value if the setting.



6. Select or , to adjust the value of the setting.
7. Select to return to the Sub-menu.

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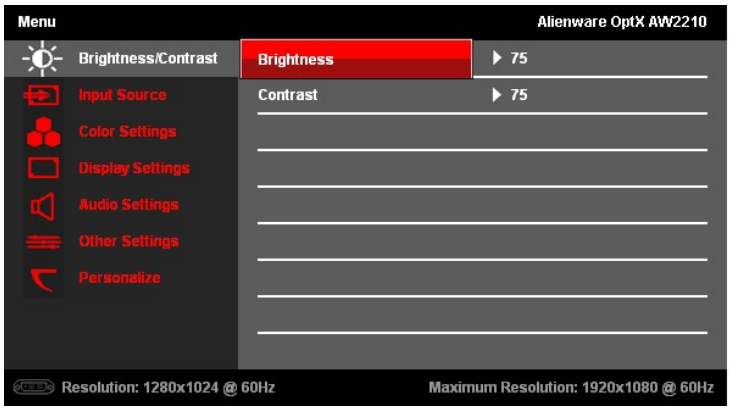
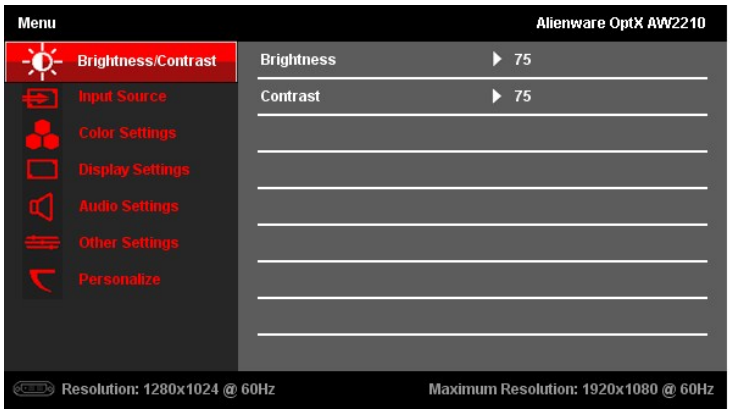


8. Select again to return to the Main menu.



9. Select to exit from the On-screen Display menu.

Menu Options

Icon	Menu and Submenus	Description
	BRIGHTNESS/CONTRAST	Use this menu to activate Brightness/Contrast adjustment.

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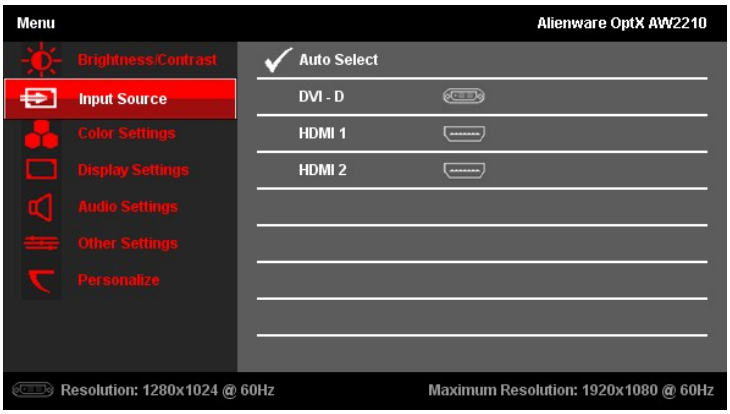
	Brightness	Brightness adjusts the luminance of the backlight.
	Contrast	Adjust Brightness first, and then adjust Contrast only if further adjustment is necessary. The Contrast function adjusts the degree of difference between darkness and lightness on the monitor screen.
	INPUT SOURCE	Use the INPUT SOURCE menu to select between different video signals that may be connected to your monitor. 
	Auto Select	Select Auto Select to scan for available input signals.

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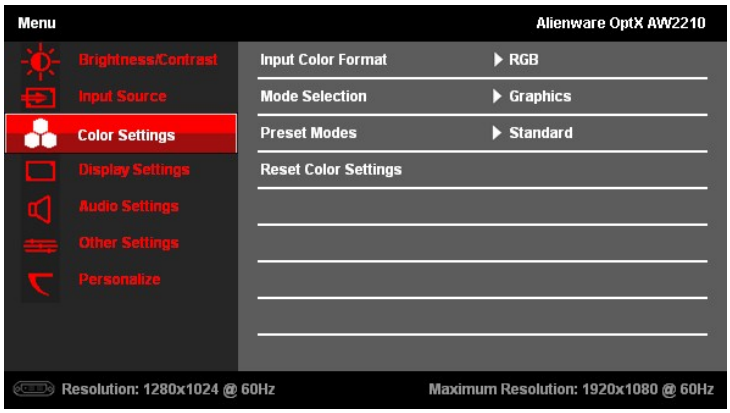
	DVI-D	Select DVI-D input when you are using the Digital (DVI) connector.
	HDMI	Select HDMI input when you are using the HDMI connector.
	COLOR SETTINGS	Use the Color Settings to adjust the color setting mode and color temperature. There are different color setting sub-menus for DVI-D and Video input. 
	Input Color Format	Allows you to set the color format of the video input signal to: • **RGB**: Select this option if your computer, DVD player or Game Console using the HDMI or DVI cable to connect to t • **YPbPr**: Select this option if your DVD player, Game Console or other device connected to the display only support format.
	Mode Selection	Allows you to set the display mode to:

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	ı **Graphics**: Select this mode if your monitor is connected to your computer. ı **Video**: Select this mode if you are enjoying video movies on your display. For DVD playback, selecting this mode g viewing experience. **NOTE:** Depending upon the Display Mode you select the Preset Modes available for your monitor changes.
Preset Modes	Allows you to choose from a list of preset color modes. In the **Graphics** mode, you can set the color to the following preset values: ı **Standard**: Loads the monitor's default color settings. This is the default preset mode. ı **Multimedia**: Loads color settings ideal for multimedia applications. ı **Game**: Loads color settings ideal for most gaming applications. ı **Warm**: Increase the color temperature. The screen appears warmer with a red/yellow tint. ı **Cool**: Decreases the color temperature. The screen appears cooler with a blue tint. ı **Custom (R, G, B)**: Allows you to manually adjust the color settings. In the **Video** mode, you can set the color to the following preset values: ı **Movie**: Loads color settings ideal for movies. This is the default preset mode. ı **Game**: Loads color settings ideal for gaming. ı **Sports**: Loads color settings ideal for sports. ı **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. Decrease the value of the Hue, increases the green shade of the video image. Increase the value of the Hue, increases the purple shade of the video image. **NOTE:** Hue adjustment is available only for video input.
Saturation	This feature can adjust the color saturation of the video image.

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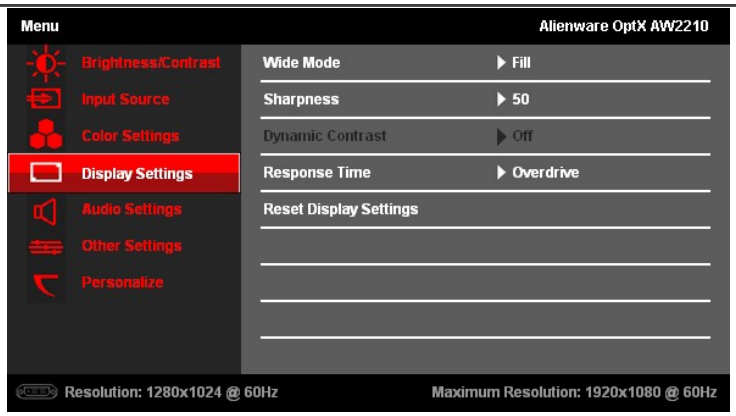
		Decrease the value of the Saturation, increases the monochrome appearance of the video image. Increase the value of the Saturation, increases the colorful appearance of the video image. **NOTE:** Saturation adjustment is available only for video input.
	Reset Color Settings	Resets your monitor's color settings to the factory defaults.
	DISPLAY SETTINGS	
	Wide Mode	Adjust the image ratio as 4:3 or full screen.
	Sharpness	This feature can make the image look sharper or softer.
	Dynamic Contrast	Dynamic Contrast provides higher contrast if you choose Game preset, Movie Preset, Sports Preset and Nature Preset. **NOTE:** Brightness control is disabled while in Dynamic Contrast mode and will be grayed out.

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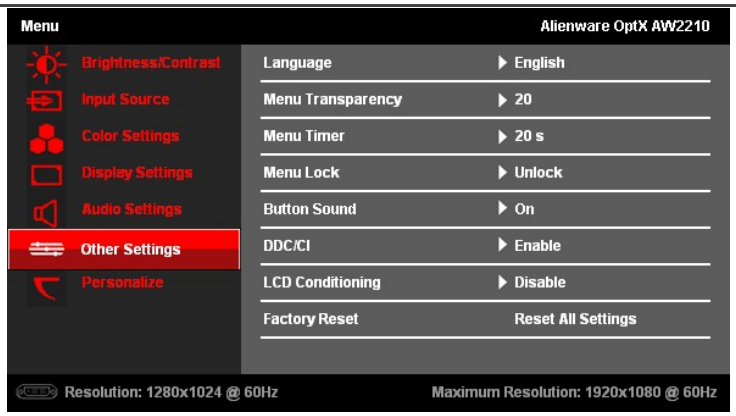
	Response Time	This function improves the response time in Multimedia preset, gaming preset, sports preset and theatre presets.
	Reset Display Settings	Reset the image to the original factory setting.
	AUDIO SETTINGS	
	Line out source	Use the LINE OUT SOURCE menu to select between different video signals that may be connected to your monitor.
	Reset audio settings	Reset the audio to the original factory setting.
	OTHER SETTINGS	

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Language	Language option to set the OSD display to one of six languages (English, Espanol, Francais, Deutsch, Japanese, or Simp Chinese).
Menu Transparency	This function is used to change the OSD background from opaque to transparent.
Menu Timer	This function is used to change the slider in 1 second increments, from 5 to 60 seconds.
Menu Lock	Controls user access to adjustments. When 'Lock' is selected, no user adjustments are allowed. **NOTE:** When the OSD is locked, press the first OSD control above the Power On/Off control for 15 seconds to unlock it.
Button Sound	Turns on or off the button sound.

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Back to Contents Page

Setting Up Your Monitor

Alienware OptX™ AW2210

Setting the display resolution to 1920X1080 (maximum)

For maximum display performance with Microsoft® Windows® operating systems, set the display resolution to 1920X1080 pixels by performing the following steps:

In Windows XP:

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 **1920X1080**.

4. Click **OK**.

In Windows Vista® or Windows 7:

1. Right-click on the desktop and click **Personalization**.

2. Click **Change Display Settings**.

3. Move the slider-bar to the right by pressing and holding the left-mouse button and adjust the screen resolution to **1920X1080**.

4. Click **OK**.

If you do not see **1920X1080** 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 an Alienware desktop or an Alienware portable computer with internet access.

2: If you have non Alienware desktop, portable computer, or graphics card.

Back to Contents Page

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Alienware OptX™ AW2210

User's Guide

Setting the display resolution to 1920X1080 (maximum)

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Model AW2210t.

August 2009 Rev. A03

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Back to Contents Page

Setting Up the Monitor

Alienware OptX™ AW2210 User's Guide

- Attaching the Stand
- Connecting the Monitor
- Organizing the Cables and Attaching the Cable Cover
- Removing the Stand
- Wall Mounting (Optional)

Attaching the Stand

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

Remove the monitor cover and place the monitor on it.

1. Fit the two tabs on the upper part of the stand into the grooves on the back of the monitor.
2. Lower the stand so that the monitor mounting area snaps onto the stand.

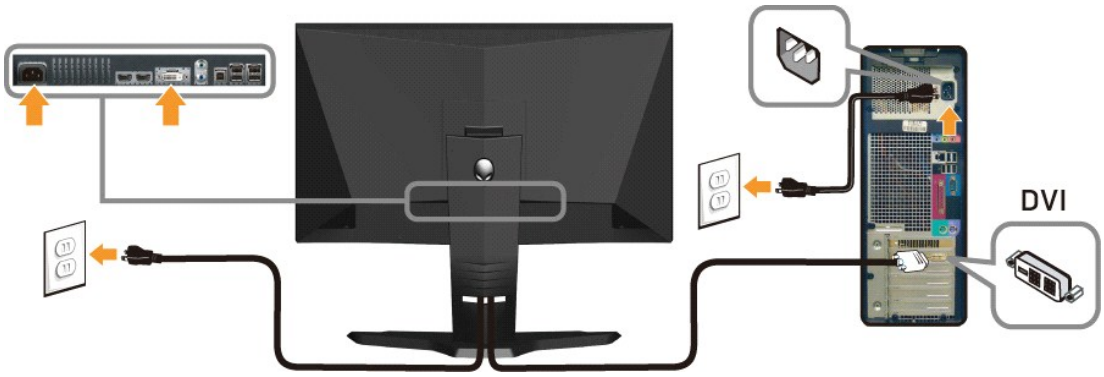
Connecting Your Monitor

WARNING: Before you begin any of the procedures in this section, follow the Safety Instructions.

To connect your monitor to the computer:

1. Turn off your computer and disconnect the power cable.
2. Connect your monitor to your computer using ONLY ONE of the following cables: the DVI (digital DVI-D) or the HDMI cable. Use both the cables only when they are connected to two different computers with appropriate video systems.

Connecting the White DVI Cable



OR

Connecting the HDMI Cable

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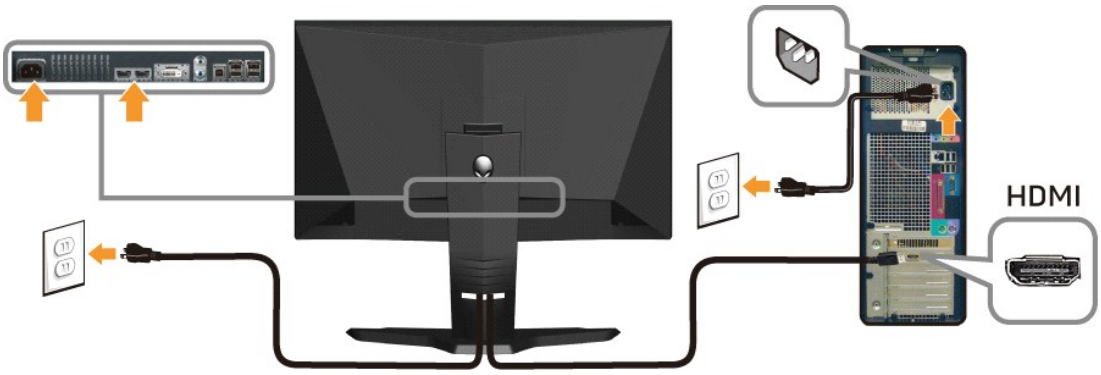

NOTE: You can connect your Alienware display to an Xbox, PlayStation or DVD player.

CAUTION: The graphics are used for the purpose of illustration only. Appearance of the computer may vary.

Connecting the USB cable

Connect one end of the USB cable that shipped with your monitor to the USB upstream port (see Bottom View) on your monitor, and the other end to an availble USB port on your computer/device.

Organizing the Cables and Attaching the Cable Cover

After attaching all necessary cables to your monitor and computer (see Connecting Your Monitor for cable attachments), use the cable management slot to organize all cables as shown above.

Attaching the Cable Cover

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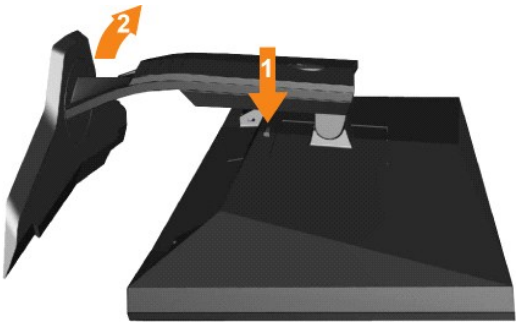
Attach the cable cover to the monitor after making the required cable connections to the monitor.

Removing the Stand

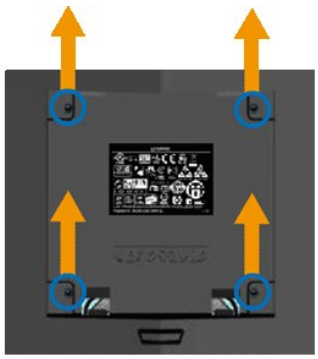
NOTE: To prevent scratches on the LCD screen while removing the stand, ensure that the monitor is placed on a clean surface.

To remove the stand:



1. Press and hold the stand release button.
2. Lift the stand up and away from the monitor .

Wall Mounting (Optional)



(Screw dimension: M4 x 10mm).

Refer to the instructions that came with the VESA compatible base mounting kit.

1. Place the monitor panel on a soft cloth or cushion on a stable flat table.
2. Remove the stand
3. Use a screwdriver to remove the four screws securing the plastic cover.
4. Attach the mounting bracket from the wall mounting kit to the LCD.
5. Mount the LCD on the wall by following the instructions that came with the base mounting kit.

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NOTE: For use only with UL Listed Wall Mount Bracket with minimum weight/load bearing capacity of 4.36 kg.

Back to Contents Page

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Back to Contents Page

Troubleshooting

Alienware OptX™ AW2210 User's Guide

- Troubleshooting Your Monitor
- Common Problems
- Product-Specific Problems
- Universal Serial Bus Specific Problems

⚠ **WARNING:** Before you begin any of the procedures in this section, follow the Safety Instructions

Troubleshooting Your Monitor

Self-Test Feature Check

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 both Digital (white connector) and the HDMI 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 white. 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.

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. Touch the **A** and **D** controls on the front panel, simultaneously for 2 seconds. A gray screen appears.

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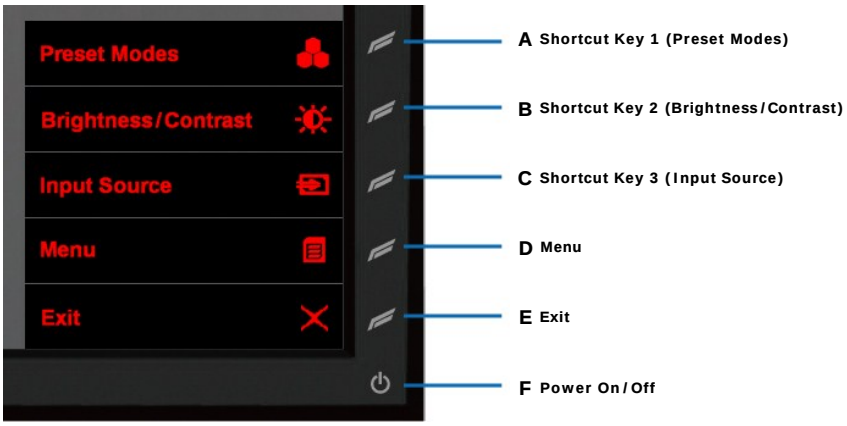

4. Carefully inspect the screen for abnormalities.
5. Touch the **D** control on the front panel again. The color of the screen changes to red.
6. Inspect the display for any abnormalities.
7. Repeat steps 5 and 6 to inspect the display in green, blue, and white colored screens.

The test is complete when the white screen appears. To exit, touch the **D** control 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	ı Ensure that the video cable connecting the monitor and the computer is properly connected and secure. ı Verify that the power outlet is functioning properly by using any other electrical equipment. ı Ensure that the power control is depressed fully.
No Video/Power LED on	No picture or no brightness	ı Increase brightness & contrast controls using the OSD. ı Perform monitor self-test feature check. ı Check for bent or broken pins in the video cable connector. ı Run the built-in diagnostics.
Poor Focus	Picture is fuzzy, blurry, or ghosting	ı Eliminate video extension cables. ı Reset the monitor to Factory Settings. ı Change the video resolution to the correct aspect ratio (16:9).
Shaky/Jittery Video	Wavy picture or fine movement	ı Reset the monitor to Factory Settings. ı Check environmental factors. ı Relocate the monitor and test it in another room.
Missing Pixels	LCD screen has spots	ı Cycle power on-off. ı Pixel that is permanently off is a natural defect that can occur in LCD technology. ı Run the built-in diagnostics.
Stuck-on Pixels	LCD screen has bright spots	ı Cycle power on-off. ı Pixel that is permanently off is a natural defect that can occur in LCD technology. ı Run the built-in diagnostics.
Brightness Problems	Picture too dim or too bright	ı Reset the monitor to Factory Settings. ı Adjust brightness & contrast controls using the OSD.

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