

# Dell™ S2230MX/S2330MX monitor

[User's Guide](#)

[Setting the display resolution to 1920 x 1080 \(Maximum\)](#)

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**Model S2230MXf/S2330MXc**

**June 2011 Rev. A00**

# Dell™ S2230MX/S2330MX Monitor User's Guide

[About Your Monitor](#)

[Setting Up the Monitor](#)

[Operating the Monitor](#)

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## Notes, Cautions, Warnings



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



**CAUTION:** A CAUTION indicates potential damage to hardware or loss of data if instructions are not followed.



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

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Model S2230MXf/S2330MXc

June 2011 Rev. A00

# Setting Up Your Monitor

Dell™ S2230MX/S2330MX monitor

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## Setting the display resolution to 1920 x 1080 (Maximum)

For optimal display performance while using the Microsoft Windows operating systems, set the display resolution to 1920 x 1080 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 **1920 x 1080**.
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 **1920 x 1080**.
4. Click **OK**.

If you do not see 1920 x 1080 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

**[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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# About Your Monitor

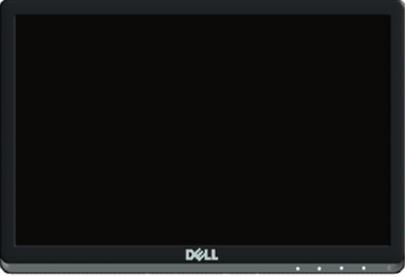
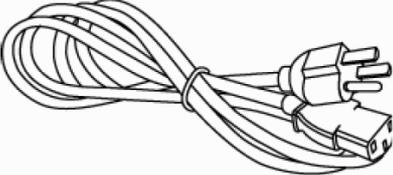
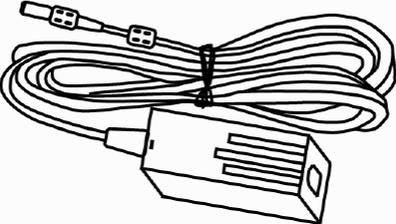
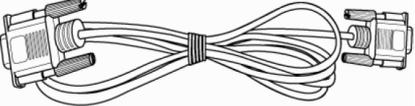
## Dell™ S2230MX/S2330MX Monitor User's Guide

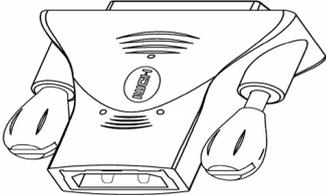
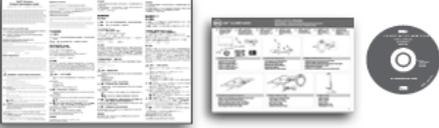
- [Package Contents](#)
- [Product Features](#)
- [Identifying Parts and Controls](#)
- [Monitor Specifications](#)
- [Plug and Play Capability](#)
- [LCD Monitor Quality & Pixel Policy](#)
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## Package Contents

Your monitor ships with all the components shown below. Ensure that you have received all the components and [Contact Dell™](#) if anything 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.

	<ul style="list-style-type: none"><li>• Monitor</li></ul>
	<ul style="list-style-type: none"><li>• Stand Riser</li></ul>
	<ul style="list-style-type: none"><li>• Stand Base</li></ul>
	<ul style="list-style-type: none"><li>• Power Cable</li></ul>
	<ul style="list-style-type: none"><li>• Adapter Cable</li></ul>
	<ul style="list-style-type: none"><li>• VGA Cable</li></ul>
	<ul style="list-style-type: none"><li>• DVI Cable(optional purchase)</li></ul>

	<ul style="list-style-type: none"> <li>• DVI-HDMI Dongle</li> </ul> <p>Notes: The image is for illustration purpose only and appearance of the actual dongle included may vary.</p>
	<ul style="list-style-type: none"> <li>• Drivers and Documentation media</li> <li>• Quick Setup Guide</li> <li>• Product Information Guide</li> </ul>

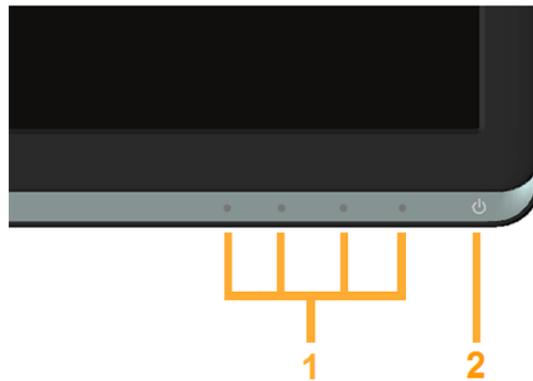
## Product Features

The Dell™ S2230MX/S2330MX flat panel display has an active matrix, Thin-Film Transistor, Liquid Crystal Display. The monitor's features include:

- **S2230MX:** 54.61 cm (21.5 inches) viewable area display. 1920 x 1080 resolution, plus full-screen support for lower resolutions.
- **S2330MX:** 58.42 cm (23.0 inches) 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 while moving from side-to-side.
- Removable pedestal.
- 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 which includes an information file (INF), Image Color Matching File (ICM), and product documentation.
- ENERGY STAR compliant.
- Security lock slot.
- EPEAT™ Silver compliant.

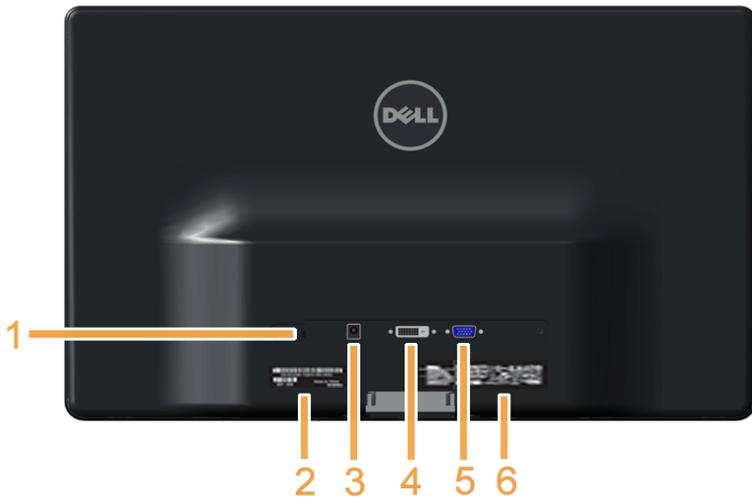
## Identifying Parts and Controls

### Front View



1.	Function buttons (For more information, see <a href="#">Operating the Monitor</a> )
2.	Power On/Off button (with LED indicator)

### Back View



Label	Description	Use
1	Security lock slot	Use a security lock with the slot to help secure your monitor.
2	Barcode serial number label	Refer to this label if you need to contact Dell for technical support.
3	Adapter connector	To connect the monitor power cable using a 12V DC adapter for transition.
4	DVI connector	To connect your computer to the monitor using a DVI cable.
5	VGA connector	To connect your computer to the monitor using a VGA cable.
6	Regulatory rating label	Lists the regulatory approvals.

## Side View



Right Side

## Bottom View



## Monitor Specifications

The following sections give you information about the various power management modes and pin assignments for the various connectors of your monitor.

### Power Management Modes

If you have VESA's DPM compliance display card or software installed in your PC, the monitor automatically reduces its power consumption when not in use. This is referred to as *Power Save Mode*. If the computer detects input from keyboard, mouse, or other input devices, the monitor automatically resumes functioning. The following table shows the power consumption and signaling of this automatic power saving feature:

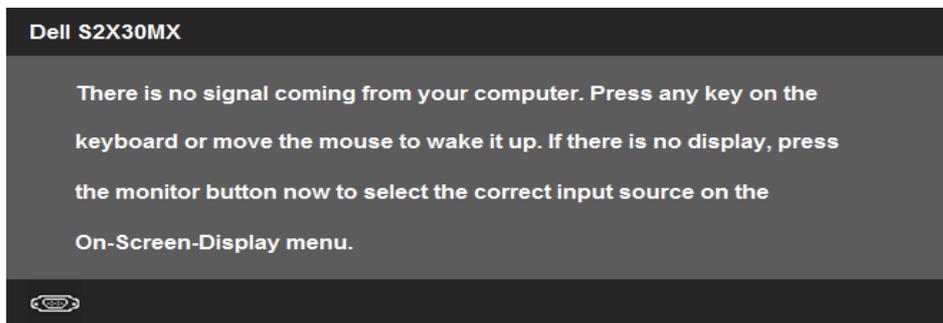
**S22330MX:**

VESA Modes	Horizontal Sync	Vertical Sync	Video	Power Indicator	Power Consumption
Normal operation	Active	Active	Active	White	20 W (Maximum) 13 W (Typical)
Active-off mode	Inactive	Inactive	Blank	Amber	Less than 0.5 W
Switch off	-	-	-	Off	Less than 0.5 W

#### S2330MX:

VESA Modes	Horizontal Sync	Vertical Sync	Video	Power Indicator	Power Consumption
Normal operation	Active	Active	Active	White	33 W (Maximum) 27 W (Typical)
Active-off mode	Inactive	Inactive	Blank	Amber	Less than 0.5 W
Switch off	-	-	-	Off	Less than 0.5 W

The OSD will only function in the *normal operation* mode. When any button except power button is pressed in Active-off mode, the following messages will be displayed:



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

**NOTE:** Dell S2230MX/S2330MX monitor is **ENERGY STAR**® compliance.

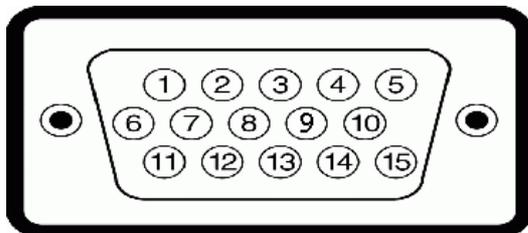


\* Zero power consumption in OFF mode can only be achieved by disconnecting the main cable from the monitor.

\*\* Maximum power consumption with max luminance and contrast.

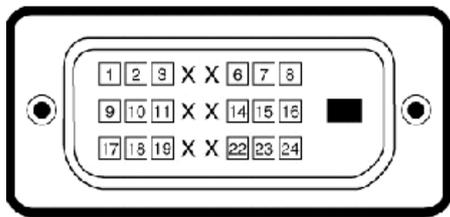
## Pin Assignments

### 15-pin D-Sub connector



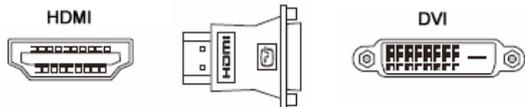
Pin Number	Monitor Side of the 15-pin Side Signal Cable
1	Video-Red
2	Video-Green
3	Video-Blue
4	GND
5	Self-test
6	GND-R
7	GND-G
8	GND-B
9	DDC +5 V
10	GND-sync
11	GND
12	DDC data
13	H-sync
14	V-sync
15	DDC clock

### DVI Connector



Pin Number	24-pin Side of the Connected Signal Cable
1	TMDS RX2-
2	TMDS RX2+
3	TMDS Ground
4	Floating
5	Floating
6	DDC Clock
7	DDC Data
8	Floating
9	TMDS RX1-
10	TMDS RX1+
11	TMDS Ground
12	Floating
13	Floating
14	+5 V power
15	Self test
16	Hot Plug Detect
17	TMDS RX0-
18	TMDS RX0+
19	TMDS Ground
20	Floating
21	Floating
22	TMDS Ground
23	TMDS Clock+
24	TMDS Clock-

**DVI -HDMI Dongle**



Pin Number	19-pin Side of the Connected Signal Cable	Pin Number	24-pin Side of the Connected Signal Cable
1	TMDS Date2+	1	TX 2 -
2	TMDS Date2 GND	2	TX 2 +
3	TMDS Date2-	3	SHLD 2 / 4
4	TMDS Date1 +	4	TX 4 -
5	TMDS Date1 GND	5	TX 4 +
6	TMDS Date1-	6	DDC Clk
7	TMDS Date0+	7	DDC Data
8	TMDS Date0 GND	8	NC
9	TMDS Date0-	9	TX 1 -
10	TMDS Clock+	10	TX 1 +
11	TMDS Clock GND	11	SHLD 1 / 3
12	TMDS Clock-	12	TX 3 -
13	CEC	13	TX 3 +
14	NC	14	+5V
15	SCL	15	GND
16	SDA	16	HPD

17	DDC/CEC GND	17	TX 0 -
18	+5V	18	TX 0 +
19	Hot Plug Detect	19	SHLD 0 / 5
		20	TX 5 -
		21	TX 5 +
		22	TX CLK SHLD
		23	TX CLK +
		24	TX CLK -

## Plug and Play Capability

You can install the monitor in any Plug and Play compatible system. The monitor automatically provides the computer 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. Most monitor installations are automatic. You can select different settings if required.

## Flat Panel Specifications

Model number	Dell S2230MX monitor	Dell S2330MX monitor
Screen type	Active matrix - TFT LCD	Active matrix - TFT LCD
Panel Type	TN	TN
Screen dimensions	54.61 cm (21.5 inches) (21.5-inch diagonal viewable image size)	58.42 cm (23 inches) (23-inch diagonal viewable image size)
Preset display area:		
• Horizontal	476.6 mm (18.76 inches)	509.18 mm (20.05 inches)
• Vertical	268.1 mm (10.56 inches)	286.42 mm (11.28 inches)
Pixel pitch	0.248 mm	0.265 mm
Viewing angle:		
• Horizontal	170 ° typical	170 ° typical
• Vertical	160 ° typical	160 ° typical
Luminance output	250 cd/m <sup>2</sup> (typical)	250 cd/m <sup>2</sup> (typical)
Contrast ratio	1000 to 1 (typical)	1000 to 1 (typical)
Dynamic Contrast Ratio	8,000,000 to 1 (typical) *	8,000,000 to 1 (typical) *
Faceplate coating	Antiglare with hard-coating 3H	Antiglare with hard-coating 3H
Backlight	LED light bar system	LED light bar system
Response Time	5 ms typical ( black to white); 2 ms typical with overdrive (grey to grey)	5 ms typical ( black to white); 2 ms typical with overdrive (grey to grey)
Color Depth	16.7 mil colors	16.7 mil colors
Color Gamut	82 % (typical) **	82 % (typical) **

\* Based on estimation.

\*\* [S2230MX/S2330MX] color gamut (typical) is based on CIE1976 (82 %) and CIE1931 (72 %) test standards.

## Resolution Specifications

Model number	Dell S2230MX monitor	Dell S2330MX monitor
Scan range		
• Horizontal	30 kHz to 83 kHz (automatic)	30 kHz to 83 kHz (automatic)
• Vertical	56 Hz to 75 Hz (automatic)	56 Hz to 75 Hz (automatic)
Maximum preset resolution	1920 x 1080 at 60 Hz	1920 x 1080 at 60 Hz

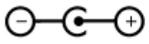
## Electrical Specifications

Model number	Dell S2230MX monitor	Dell S2330MX monitor
Video input signals	Analog RGB: 0.7 Volts +/- 5 %, 75 ohm input impedance	Analog RGB: 0.7 Volts +/- 5 %, 75 ohm input impedance
Synchronization input signals	Separate horizontal and vertical synchronizations, polarity-free TTL level, SOG (Composite SYNC on green)	Separate horizontal and vertical synchronizations, polarity-free TTL level, SOG (Composite SYNC on green)
	Delta adapter ADP-40DD B: 100 VAC to 240	Delta adapter ADP-40DD B: 100 VAC to 240

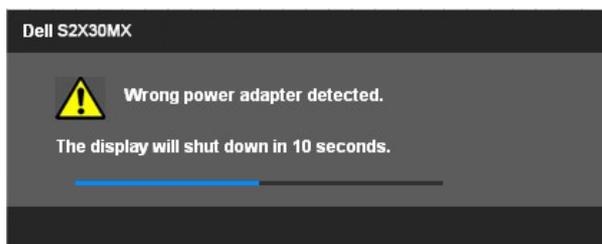
AC/DC Adapter*	input voltage / frequency / current	VAC / 50 Hz to 60 Hz $\pm$ 3 Hz / 1.5 A (Max.), Lite-On adapter PA-1041-0: 100 VAC to 240 VAC / 50 Hz or 60 Hz $\pm$ 3 Hz / 1.2 A (Max.)	VAC / 50 Hz to 60 Hz $\pm$ 3 Hz / 1.5 A (Max.), Lite-On adapter PA-1041-0: 100 VAC to 240 VAC / 50 Hz or 60 Hz $\pm$ 3 Hz / 1.2 A (Max.)
	output voltage / current	OUTPUT: 12 VDC / 3.33 A	OUTPUT: 12 VDC / 3.33 A
Inrush current		120 V: 30 A (Max.) 240 V: 60 A (Max.)	120 V: 30 A (Max.) 240 V: 60 A (Max.)

\* Qualified Compatible AC/DC adapters:

CAUTION: To avoid damage to the monitor, use only the adapter designed for this particular Dell monitor.

Manufacturer	Model	Polarity
Delta	ADP-40DD BA	
Lite-On	PA-1041-0	

This monitor comes equipped with a failsafe mechanism to shut down the monitor when a non-compliant power adapter is plugged in the DC socket. The following messages will be displayed when the monitor has detected that a wrong power adapter is used.



To avoid damage to the unit, user is strongly advised to use the original power adapter that comes packaged together with the monitor.

## Preset Display Modes

The following table lists the preset modes for which Dell guarantees image size and centering:

### S2230MX:

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

### S2330MX:

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

## Physical Characteristics

The following table lists the monitor's physical characteristics:

Model Number	Dell S2230MX monitor	Dell S2330MX monitor
Connector type	D-subminiature, blue connector; DVI-D: White connector	D-subminiature, blue connector; DVI-D: White connector
Signal cable type	Analog: Detachable, D-Sub, 15 pins, shipped attached to the monitor Digital: Detachable, DVI-D, Solid pins, shipped detached from the monitor (optional)	Analog: Detachable, D-Sub, 15 pins, shipped attached to the monitor Digital: Detachable, DVI-D, Solid pins, shipped detached from the monitor (optional)
Dimensions: (with stand) <ul style="list-style-type: none"><li>Height</li><li>Width</li><li>Depth</li></ul>	391.36 mm (15.41 inches) 519.60 mm (20.46 inches) 188.25 mm (7.41 inches)	410.22 mm (16.15 inches) 552.20 mm (21.74 inches) 188.26 mm (7.41 inches)
Dimensions: (without stand) <ul style="list-style-type: none"><li>Height</li><li>Width</li><li>Depth</li></ul>	324.03 mm (12.76 inches) 519.60 mm (20.46 inches) 30.30 mm (1.19 inches)	342.13 mm (13.47 inches) 552.20 mm (21.74 inches) 30.30 mm (1.19 inches)
Stand dimensions: <ul style="list-style-type: none"><li>Height</li><li>Width</li><li>Depth</li></ul>	127.90 mm (5.04 inches) 188.25 mm (7.41 inches) 188.25 mm (7.41 inches)	127.98 mm (5.04 inches) 188.26 mm (7.41 inches) 188.26 mm (7.41 inches)
Weight:		
Weight with packaging	4.88 kg (10.76 lb)	4.70 kg (10.36 lb)
Weight with stand assembly, cables, adapter, and dongle	3.96 kg (8.73 lb)	3.76 kg (8.29 lb)
Weight of stand assembly	0.39 kg (0.86 lb)	0.38 kg (0.84 lb)

## Environmental Characteristics

The following table lists the environmental conditions for your monitor:

Model Number	Dell S2230MX monitor	Dell S2330MX monitor
Temperature <ul style="list-style-type: none"><li>Operating</li><li>Non-operating</li></ul>	0 ° C to 40 ° C (32 ° F to 104 ° F) Storage: -20 ° C to 60 ° C (-4 ° F to 140 ° F) Shipping: -20 ° C to 60 ° C (-4 ° F to 140 ° F)	0 ° C to 40 ° C (32 ° F to 104 ° F) Storage: -20 ° C to 60 ° C (-4 ° F to 140 ° F) Shipping: -20 ° C to 60 ° C (-4 ° F to 140 ° F)
Humidity <ul style="list-style-type: none"><li>Operating</li><li>Non-operating</li></ul>	10 % to 80 % (non-condensing) Storage: 5 % to 90 % (non-condensing) Shipping: 5 % to 90 % (non-condensing)	10 % to 80 % (non-condensing) Storage: 5 % to 90 % (non-condensing) Shipping: 5 % to 90 % (non-condensing)
Altitude <ul style="list-style-type: none"><li>Operating</li><li>Non-operating</li></ul>	3,048 m (10,000 ft) max 10,668 m (35,000 ft) max	3,048 m (10,000 ft) max 10,668 m (35,000 ft) max
Thermal dissipation	68.26 BTU/hour (maximum) 44.37 BTU/hour (typical)	112.63 BTU/hour (maximum) 92.15 BTU/hour (typical)

## 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).

## 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 power cable from the electrical outlet.

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

- To clean your antistatic screen, slightly 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.
- Use a slightly dampened, warm cloth to clean the plastics. Avoid using detergent of any kind as some detergents leave a milky film on the plastics.
- If you notice a white powder when you unpack your monitor, wipe it off with a cloth. This white powder occurs during the shipping of the monitor.
- Handle your monitor with care as a darker-colored monitor may scratch and show white scuff marks more than a lighter-colored monitor.
- To help maintain the best image quality on your monitor, use a dynamically changing screen saver and power off your monitor when not in use.

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# Setting Up the Monitor

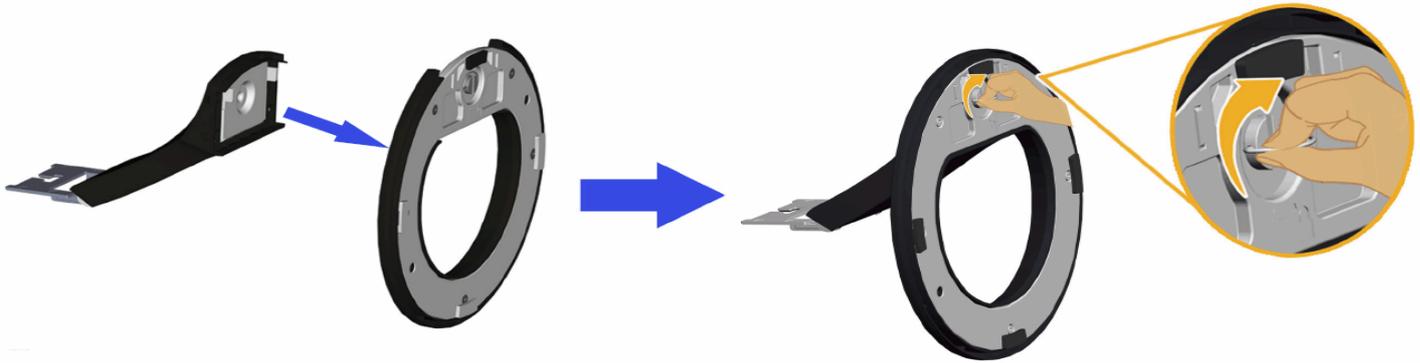
Dell™ S2230MX/S2330MX Monitor User's Guide

- [Attaching the Stand](#)
- [Connecting Your Monitor](#)
- [Removing the Stand](#)

## Attaching the Stand

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

1. Assemble the stand riser to stand base.



- Attach the stand riser to the stand base.
- Tighten the screw located on the base.

2. Attach the stand assembly to the monitor:



- Place the monitor on a soft cloth or cushion near the edge of desk.
- Align the stand assembly bracket to the monitor groove.
- Insert the bracket towards monitor until it locks in place.

## 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:

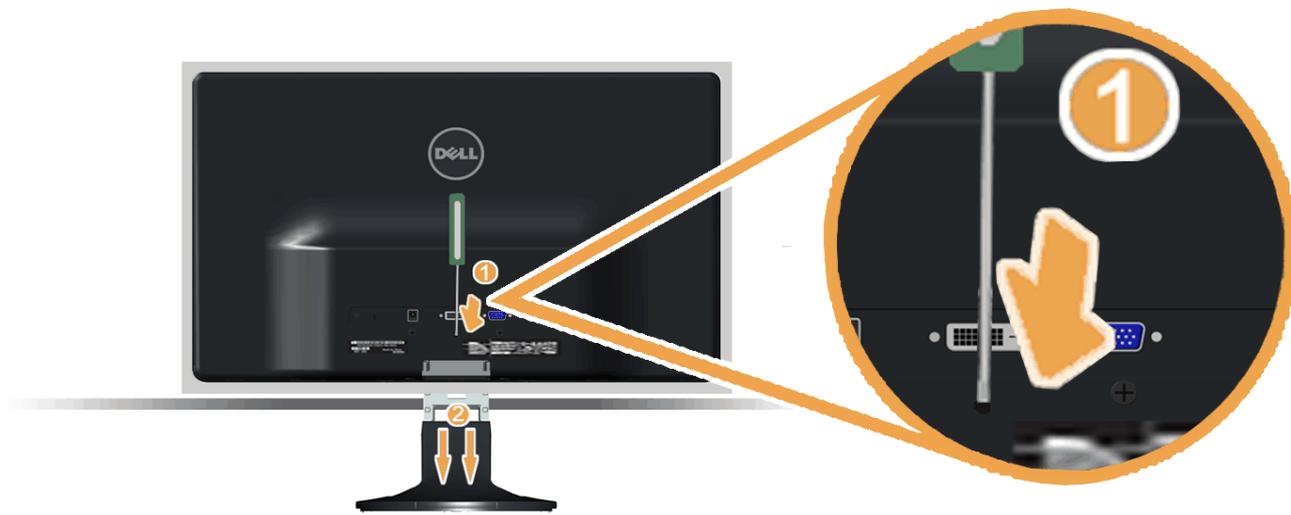
1. Turn off your computer and disconnect the power cable.
2. Connect the white (digital DVI-D) or the blue (analog VGA) or the DVI-HDMI Dongle and HDMI display connector cable to the corresponding video port on the back of your computer. Do not use both cables on the same computer. Use both the cables only when they are connected to two different computers with appropriate video systems.

### Connecting the Blue VGA Cable



### Connecting the monitor with DVI -HDMI Dongle





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

1. Use a long screwdriver to push the release latch located in a hole just above the stand.
2. While pushing the release latch, pull the stand away from the monitor.

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# Operating the Monitor

## Dell™ S2230MX/S2330MX Monitor User's Guide

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

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## Power On the Monitor

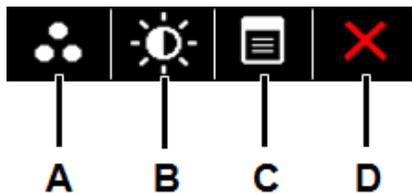
Press the  button to turn on the monitor.



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## Using the Front Panel Controls

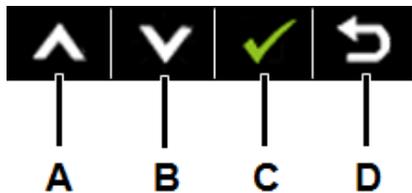
Use the keys on the front of the monitor to adjust the image settings.



	Front panel Key	Description
A	 Preset modes	Use the Preset modes key to choose from a list of preset color modes. See <a href="#">Using the OSD Menu</a> .
B	 Brightness / Contrast	Use the Brightness / Contrast key to direct access to the "Brightness" and "Contrast" control menu.
C	 Menu	Use the Menu key to open the on-screen display (OSD).
D	 Exit	Use the Exit key to exit on-screen display (OSD) from menu and sub-menus.

## Front panel Key

[Use the keys](#) on the front of the monitor to adjust the image settings.



	Front panel Key	Description
A	 Up	Use the Up key to adjust (increase ranges) items in the OSD menu.
B		

	 Down	Use the Down key to adjust (decrease ranges) items in the OSD menu.
C	 OK	Use the OK key to confirm your selection.
D	 Back	Use the Back key to go back to the previous menu.

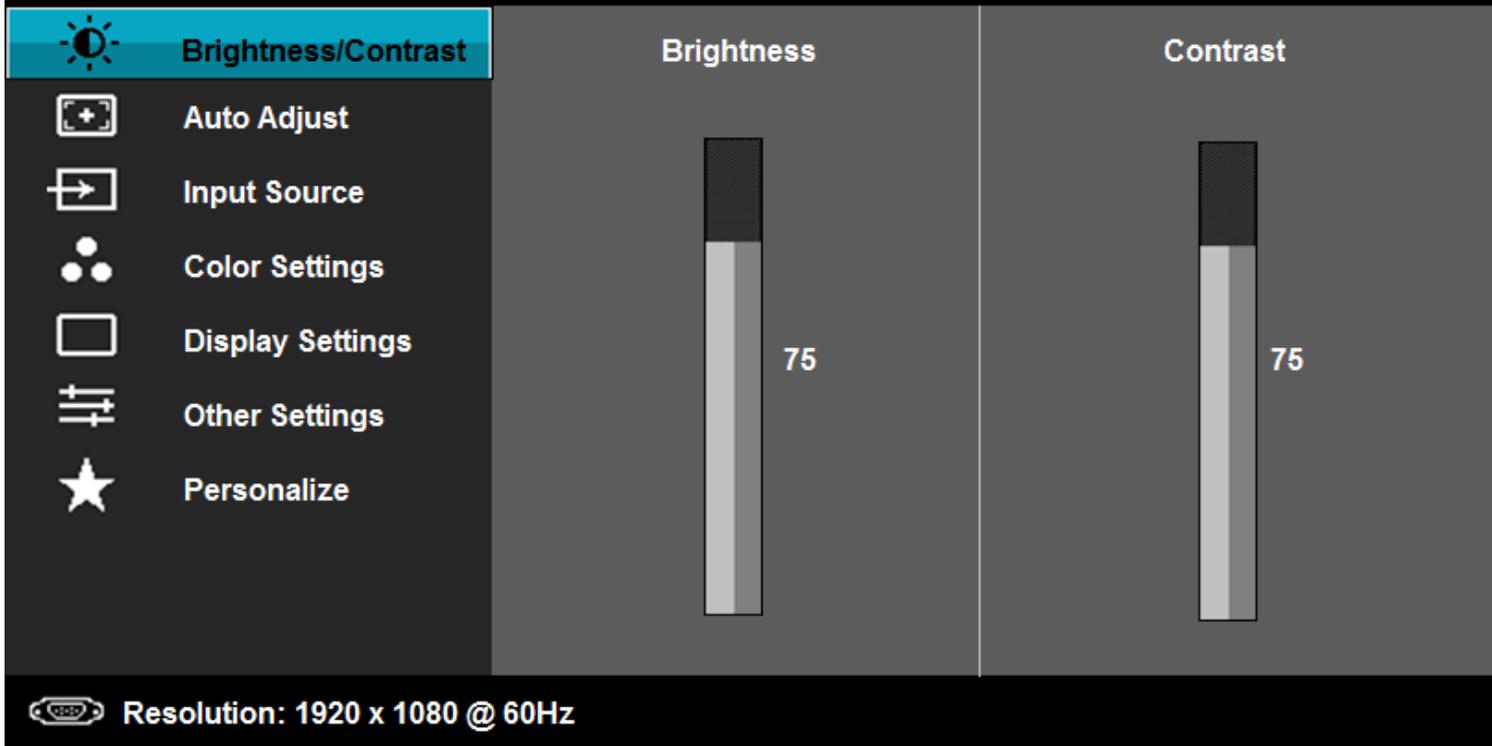
## Using the On-Screen Display (OSD) Menu

### 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. Press the  button to open the OSD menu and display the main menu.

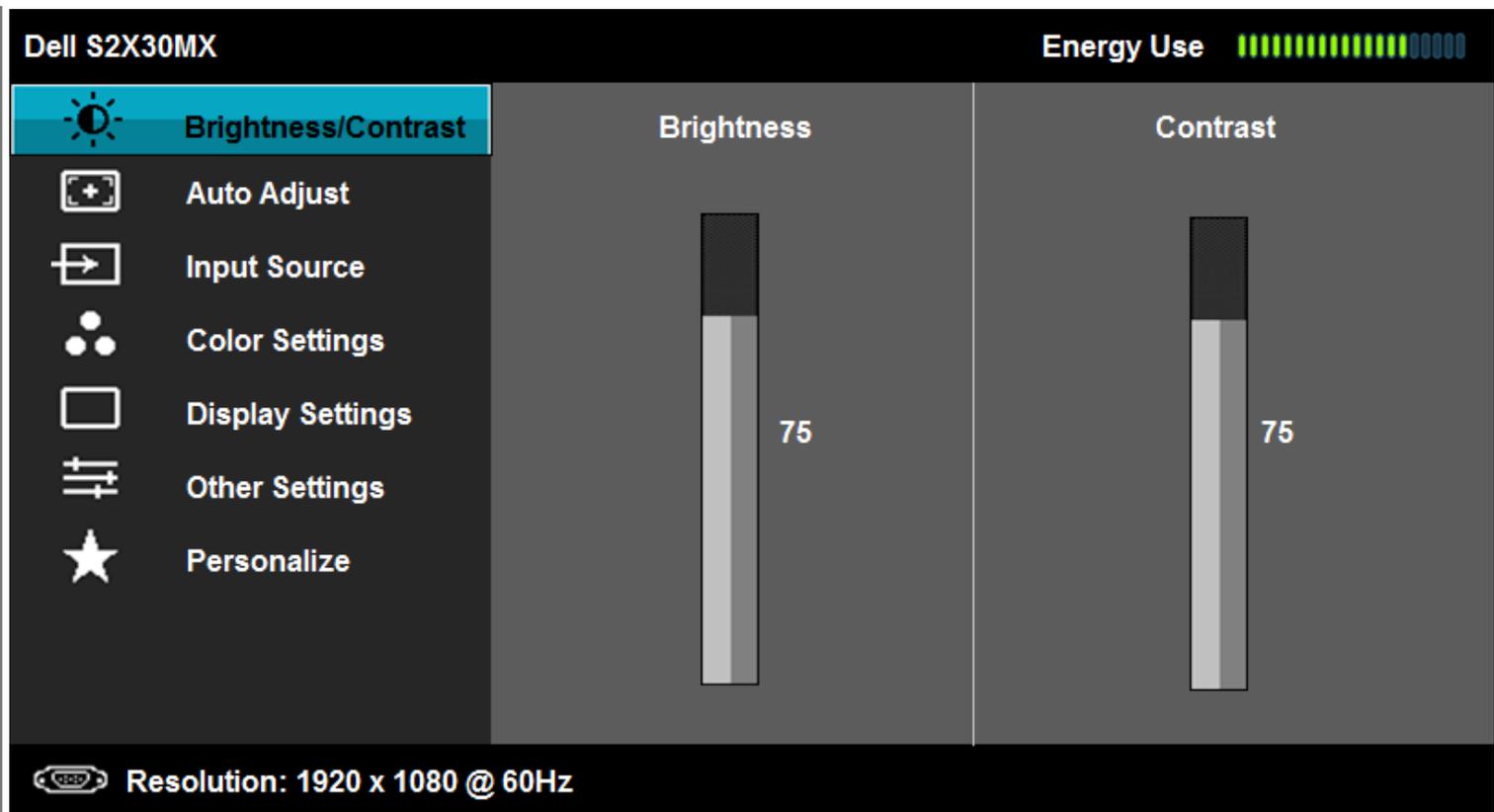
#### Main Menu




2. Press the  and  buttons to toggle between options in the Menu. As you move from one icon to another, the option name is highlighted.
3. To select the highlighted item on the menu press the  button again.
4. Press the  and  buttons to select the desired parameter.
5. Press the  button to enter the slide bar and then use the  or  buttons, according to the indicators on the menu, to make your changes.
6. Select the  to return to previous menu without accepting current settings or  to accept and return to previous menu.

The table below provides a list of all the OSD menu options and their functions.

Icon	Menu and Submenus	Description
	Energy Use	This meter shows the energy level being consumed by the monitor in real time.
	<b>BRIGHTNESS/CONTRAST</b>	Use the Brightness and Contrast menu to adjust the Brightness/Contrast.



**Brightness**

Allows you to adjust the brightness or luminance of the backlight.

Press the  key to increase brightness and press the  key to decrease brightness (min 0 ~ max 100).

**Contrast**

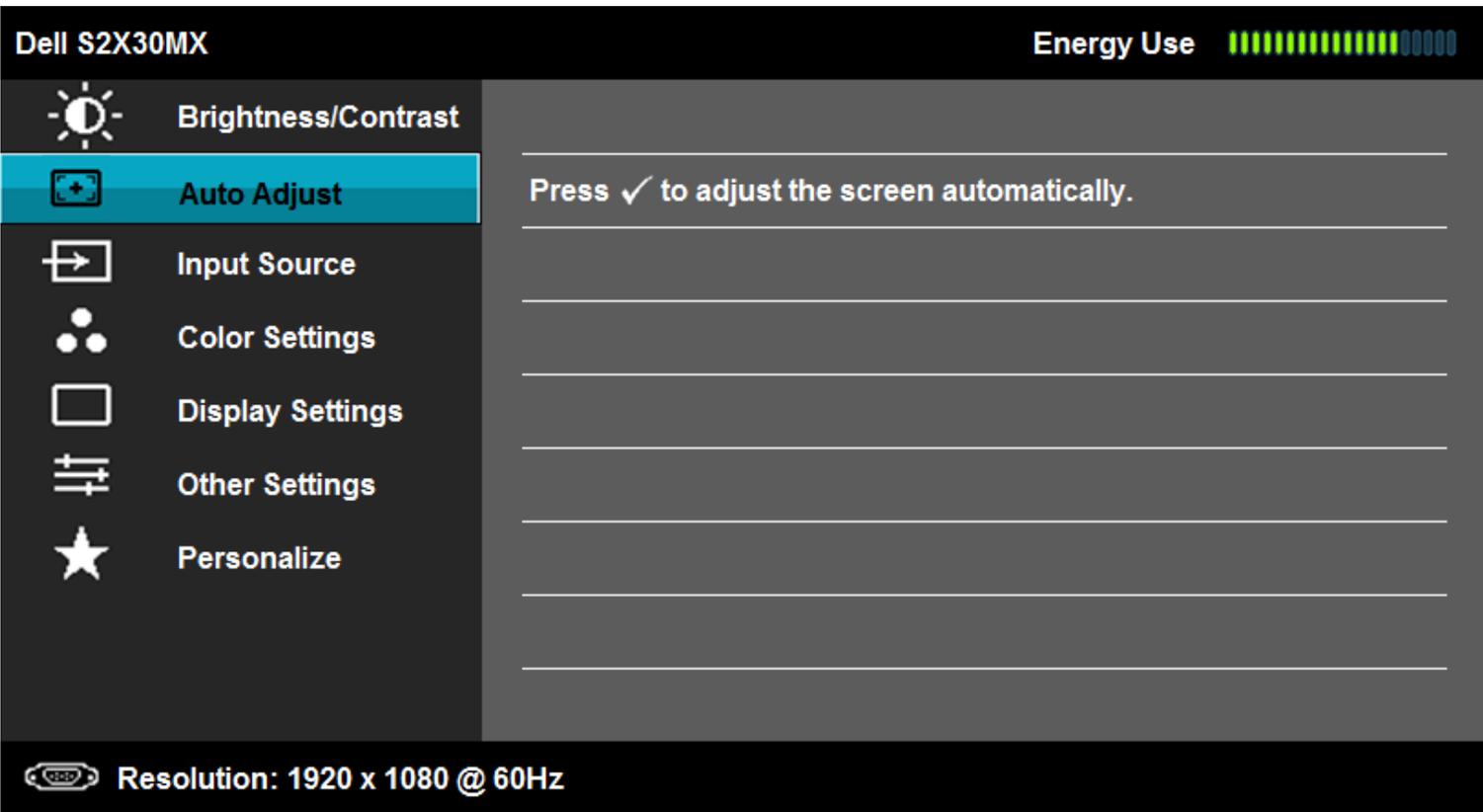
Allows you to adjust the contrast or the degree of difference between darkness and lightness on the monitor screen. Adjust brightness first, and adjust contrast only if you need further adjustment.

Press the  key to increase contrast and press the  key to decrease contrast (min 0 ~ max 100).



**Auto Adjust**

Use this key to activate automatic setup and adjust menu. The following dialog appears on a black screen as the monitor self-adjusts to the current input:



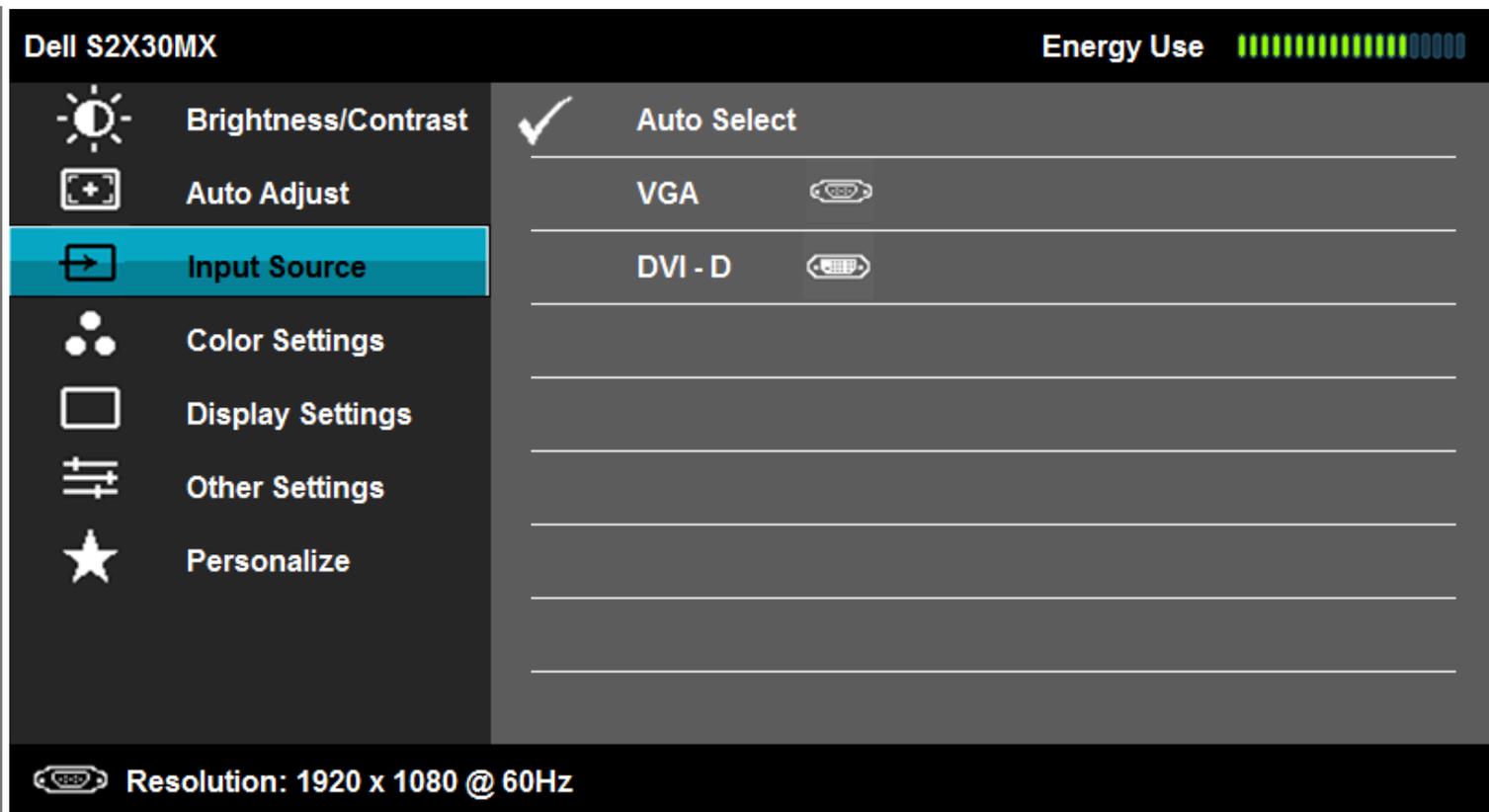
Auto Adjustment allows the monitor to self-adjust to the incoming video signal. After using Auto Adjustment, you can further tune your monitor by using the Pixel Clock (Coarse) and Phase (Fine) controls under Image Settings.

**NOTE:** *Auto Adjust does not occur if you press the button while there are no active video input signals or attached cables.*

Use the **Input Source** menu to select between different video signals that may be connected to your monitor.



**Input Source**



**Auto Select**

Select Auto Select to scan for available input signals.

**VGA**

Select VGA input when you are using the analog (VGA) connector. Push  to select the VGA input source.

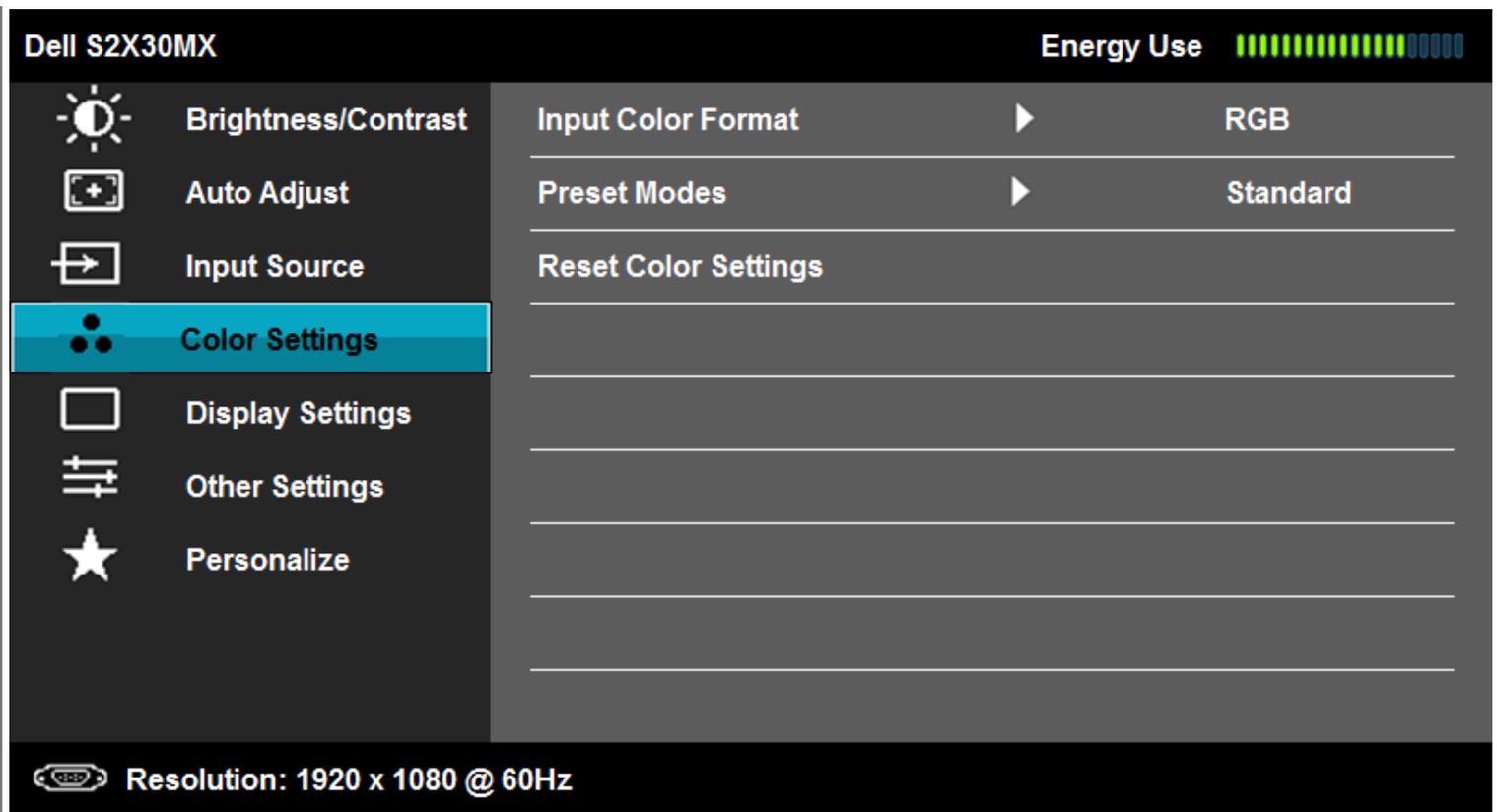
**DVI -D**

Select DVI-D input when you are using the Digital (DVI) connector. Push  to select the DVI input source.



**COLOR SETTINGS**

Use the **Color Setting** menu to adjust the monitor's color settings.



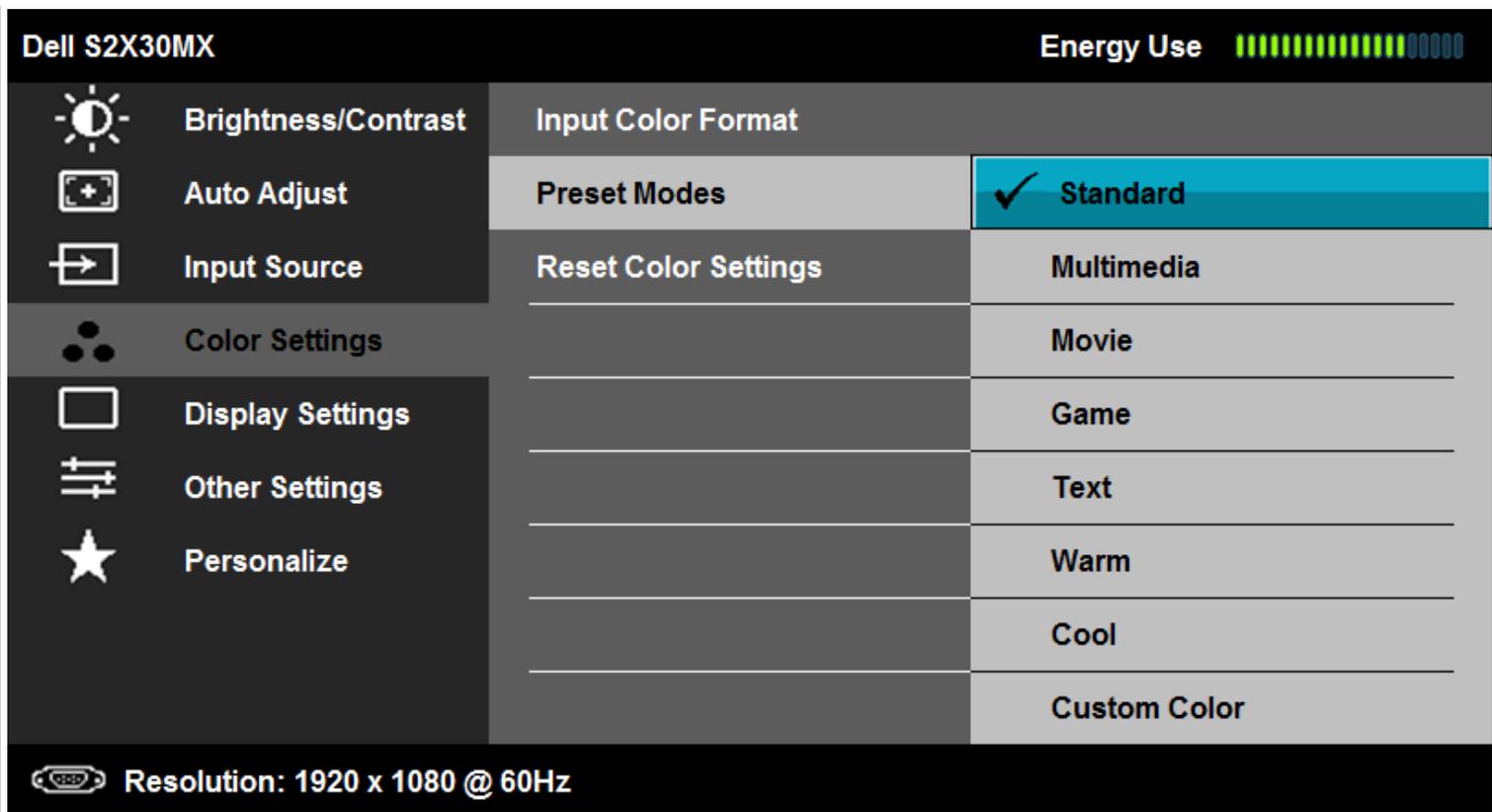
**Input Color Format**

Allows you to set the video input mode to:

- **RGB**: Select this option if your monitor is connected to a computer or DVD player using the HDMI cable or the HDMI to DVI adapter.
- **YPbPr**: Select this option if your DVD player supports only YPbPr output.

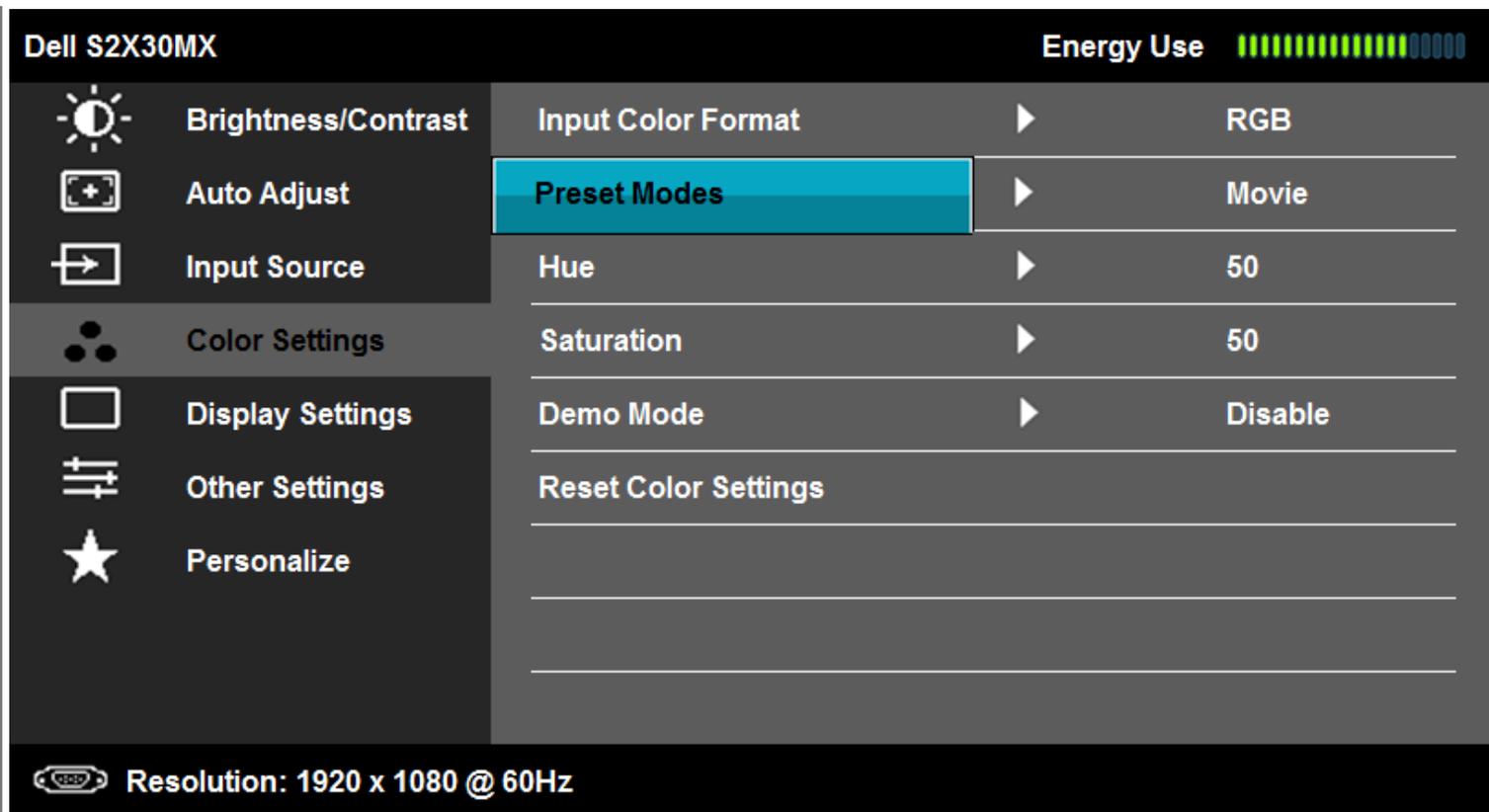
**Preset Modes**

Allows you to choose from a list of preset color modes.



- **Standard**: Loads the monitor's default color settings. This is the default preset mode.
- **Multimedia**: Loads color settings ideal for multimedia applications.
- **Movie**: Loads color settings ideal for movies.
- **Game**: Loads color settings ideal for most gaming applications.
- **Text**: Loads color settings ideal for office environment.
- **Warm**: Increases 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 Color**: Allows you to manually adjust the color settings. Press the  and  keys to adjust the Red, Green, and Blue values and create your own preset color mode.

In the **Movie** preset mode:



**Hue**

Allows you to adjust the skin tone of the image. Use or to adjust the hue from '0' to '100'.

**Saturation**

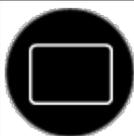
Allows you to adjust the color saturation of the image. Use or to adjust the saturation from '0' to '100'.

**Demo Mode**

You can launch the Demo Mode to identify the monitor display difference between Normal and Enhanced.

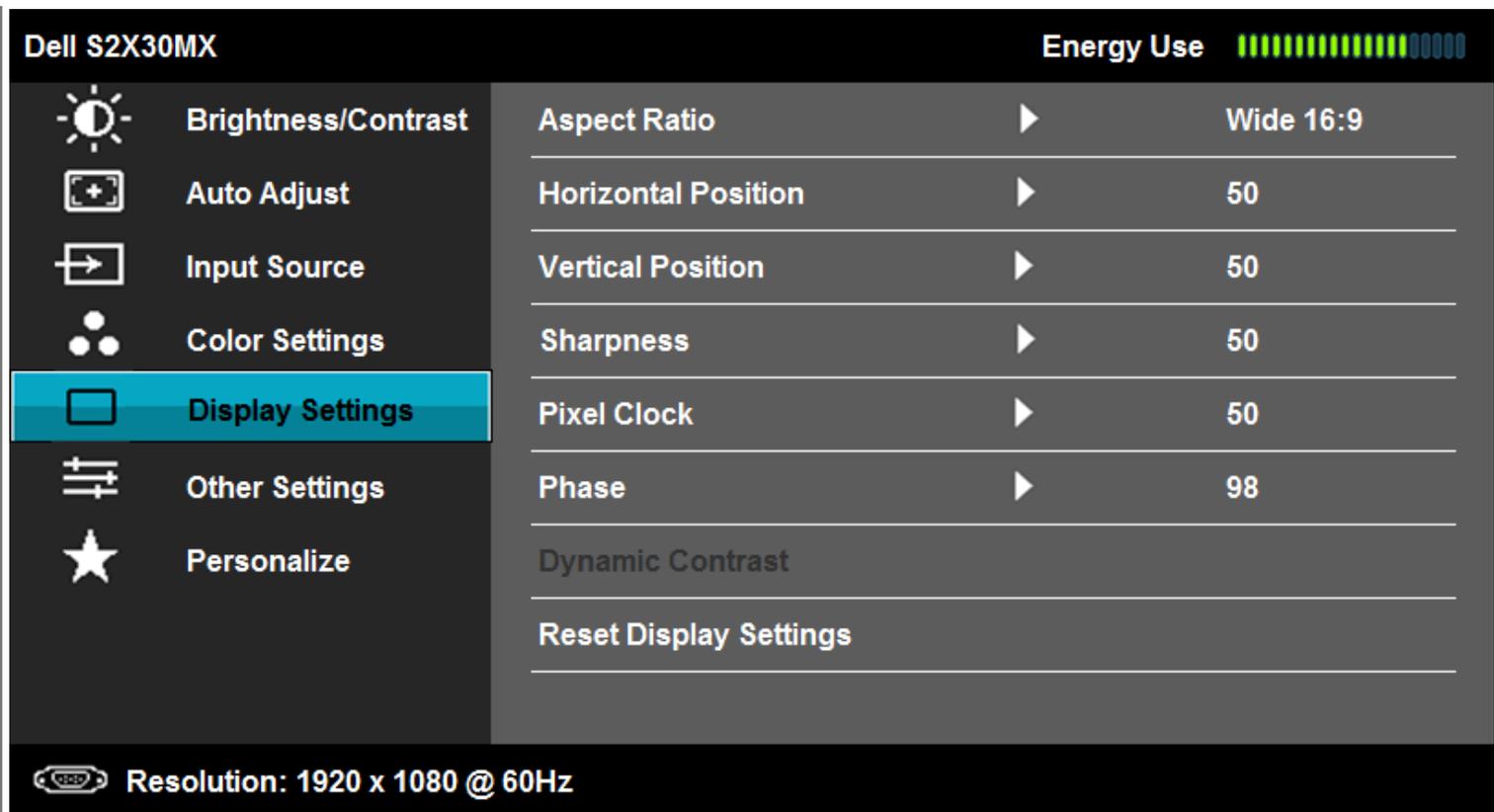
**Reset Color Settings**

Resets your monitor's color settings to the factory defaults.



**DISPLAY SETTINGS**

Use the **Displays Settings** menu to adjust the monitor's display settings.



**Aspect Ratio**

Adjusts the image ratio as Wide 16:9, 4:3, or 5:4.

**NOTE:** Wide 16:9 adjustment is not required at maximum preset resolution 1920 x 1080.

**Horizontal Position**

Use the  or  buttons to adjust image left and right. Minimum is '0' (-). Maximum is '100' (+).

**Vertical Position**

Use the  or  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. Use  or  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.

**Dynamic Contrast**

Allows you to increase the level of contrast to provide sharper and more detailed image quality.

**NOTE:** Dynamic Contrast is not available (greyed out) in Energy Smart modes.

**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**

Allows you to set the OSD display to one of six languages: English, Spanish, French, German, Simplified Chinese, or Japanese.

**Menu Transparency**

Allows you to adjust the OSD background from opaque to transparent.

**Menu Timer**

Allows you to set the time for which the OSD remains active after you press a key on the monitor.

Use the  and  keys to adjust 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. All keys are locked except  key.

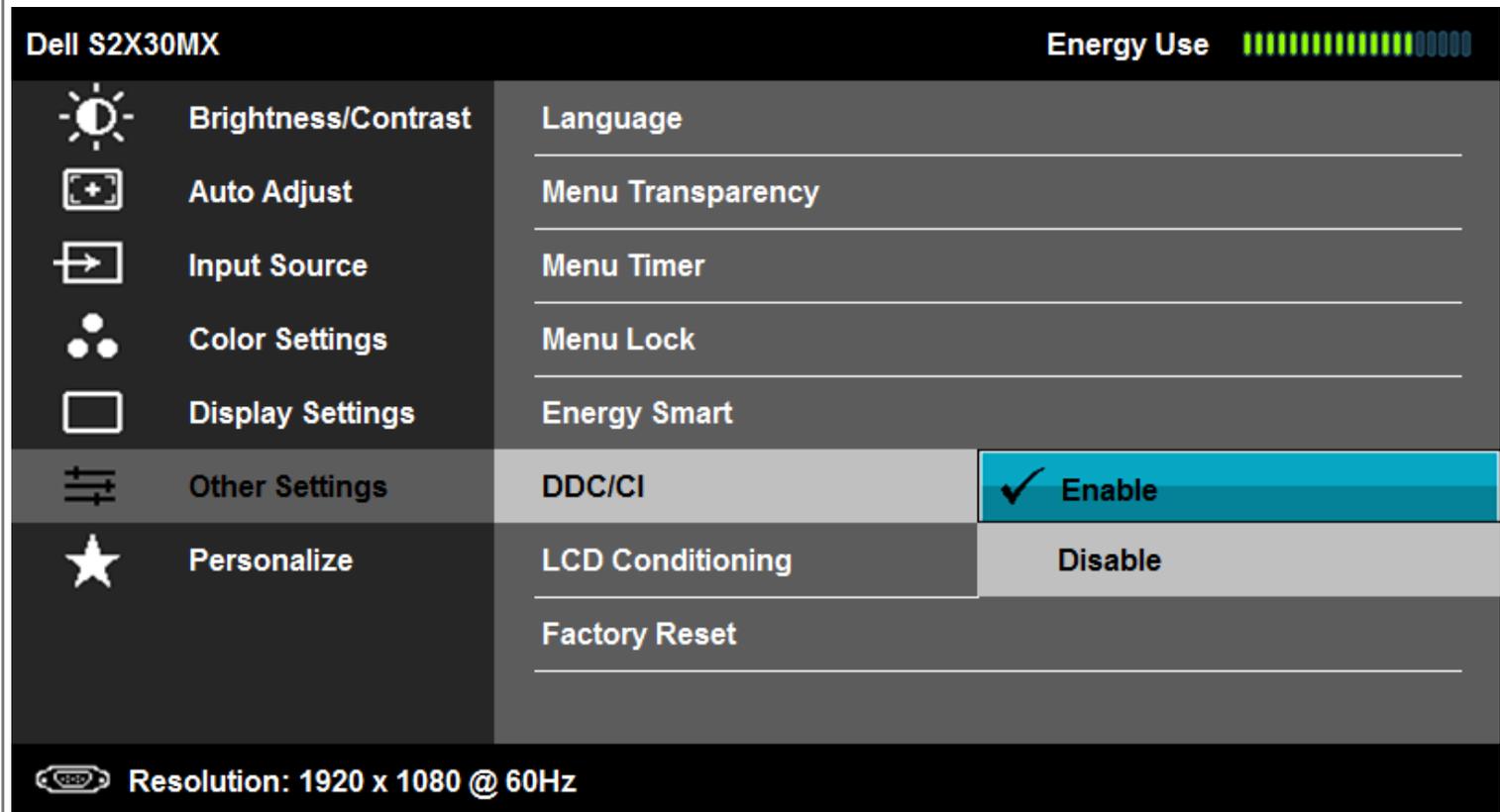
**NOTE:** When the OSD is locked, pressing the menu key takes you directly to the OSD settings menu, with 'OSD Lock' pre-selected on entry. press and hold  key for 10 seconds to unlock and allow user access to all applicable settings.

**Energy Smart**

Dynamic dimming activated (The Dynamic dimming feature automatically reduces the screen-brightness level when the displayed image contains a high proportion of bright areas).

**DDC/CI**

DDC/CI (Display Data Channel/Command Interface) allows a software on your computer to adjust the monitor display settings like the brightness, color balance etc.



**Enable** (Default): Optimizes the performance of your monitor and provides a better customer experience.

**Disable:** Disables the DDC/CI option and the following message appears on the screen.

Dell S2X30MX

The function of adjusting display setting using PC application will be disabled.

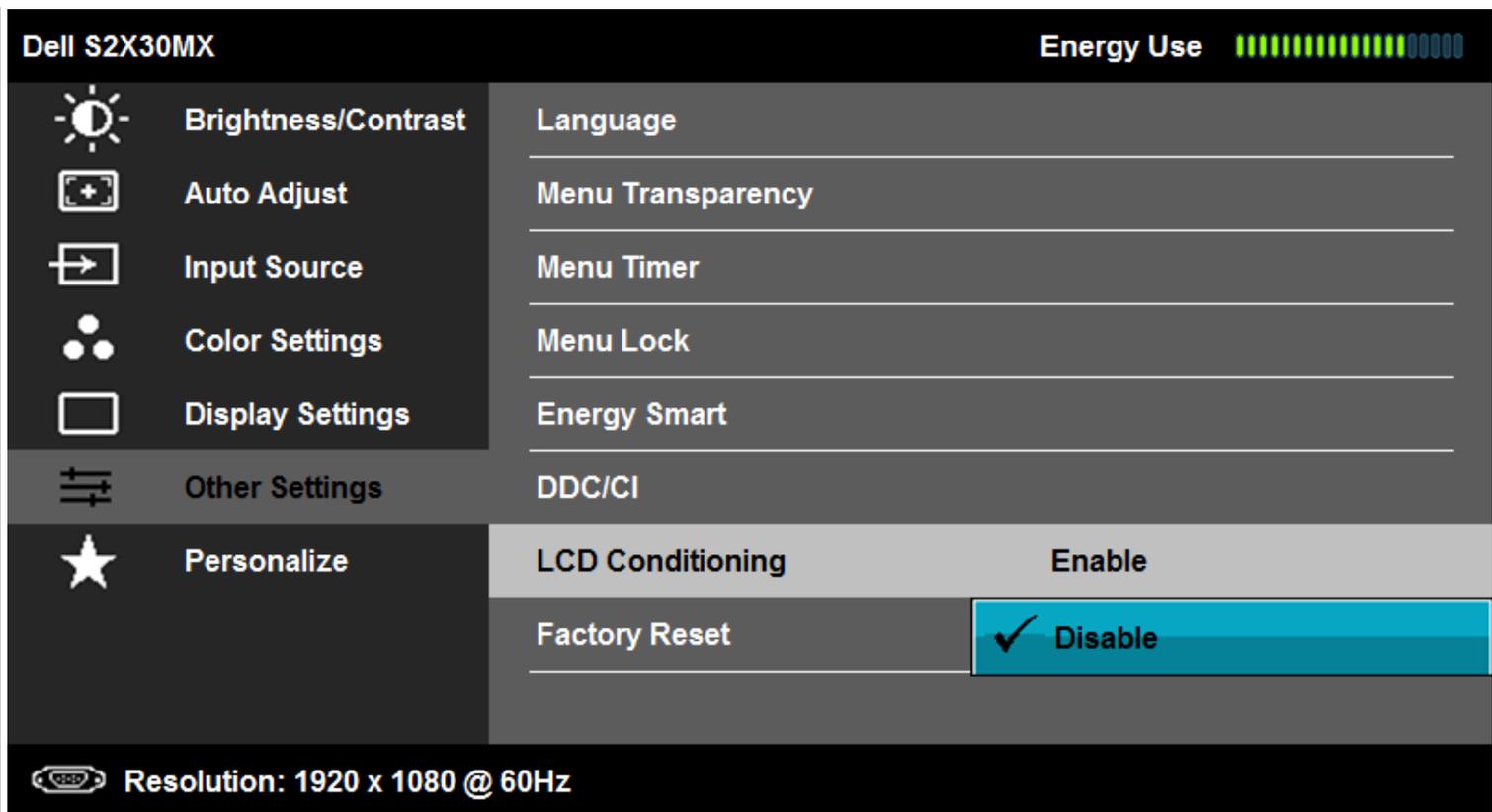
Do you wish to disable DDC/CI function?

No

Yes

#### LCD Conditioning

This feature will help reduce minor cases of image retention.



If an image appears to be stuck on the monitor, select **LCD Conditioning** to help eliminate any image retention. Using the LCD Conditioning feature may take some time. LCD Conditioning feature cannot remove severe cases of image retention or burn-in.

**NOTE:** Use LCD Conditioning only when you experience a problem with image retention.

The below warning message appears once user selects "Enable" LCD Conditioning.

Dell S2X30MX

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 wish to continue?

No

Yes

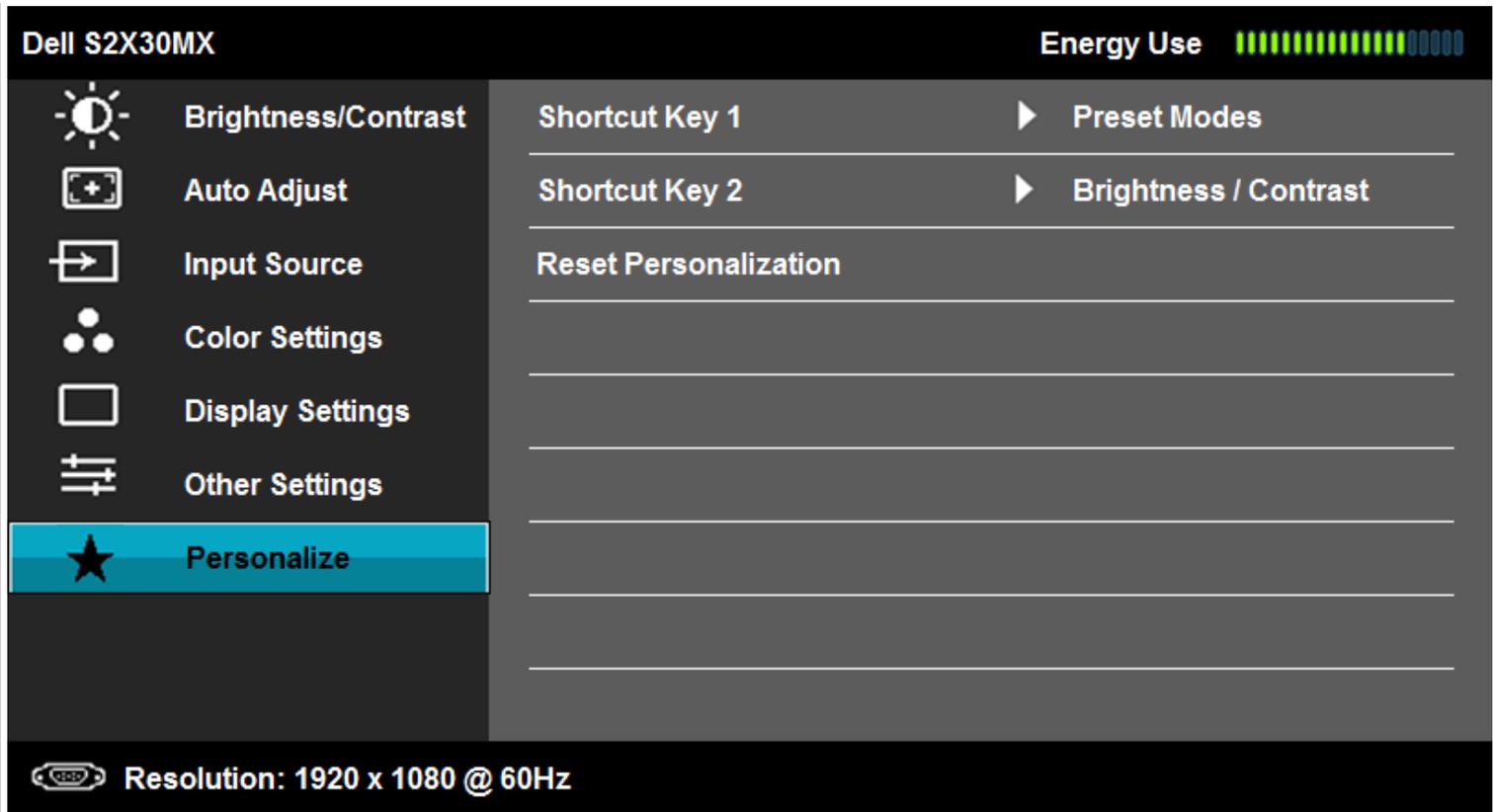
**Factory Reset**

Resets all OSD settings to the factory preset values.



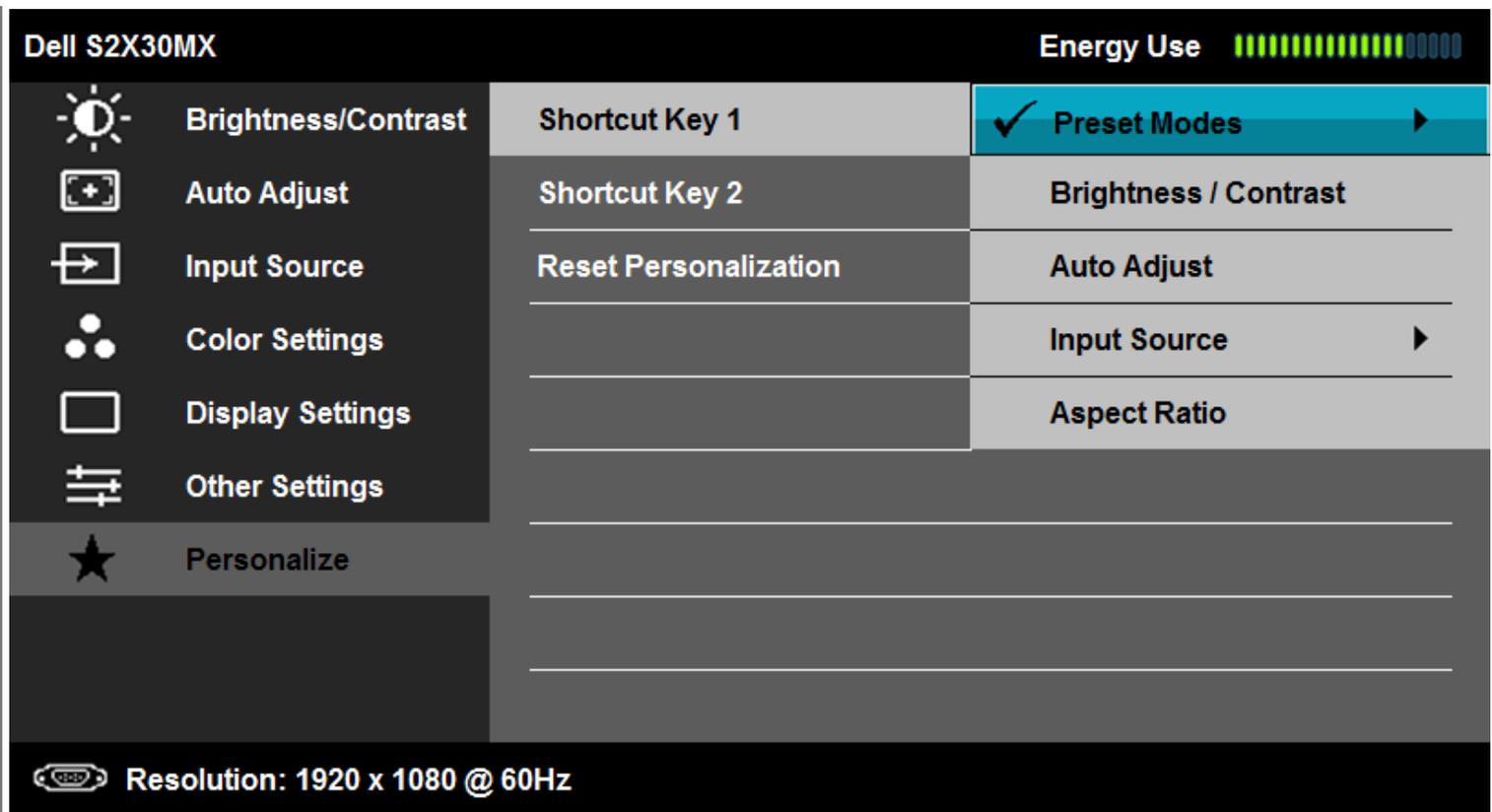
**Personalize**

Select this option allows you to set two shortcut keys.



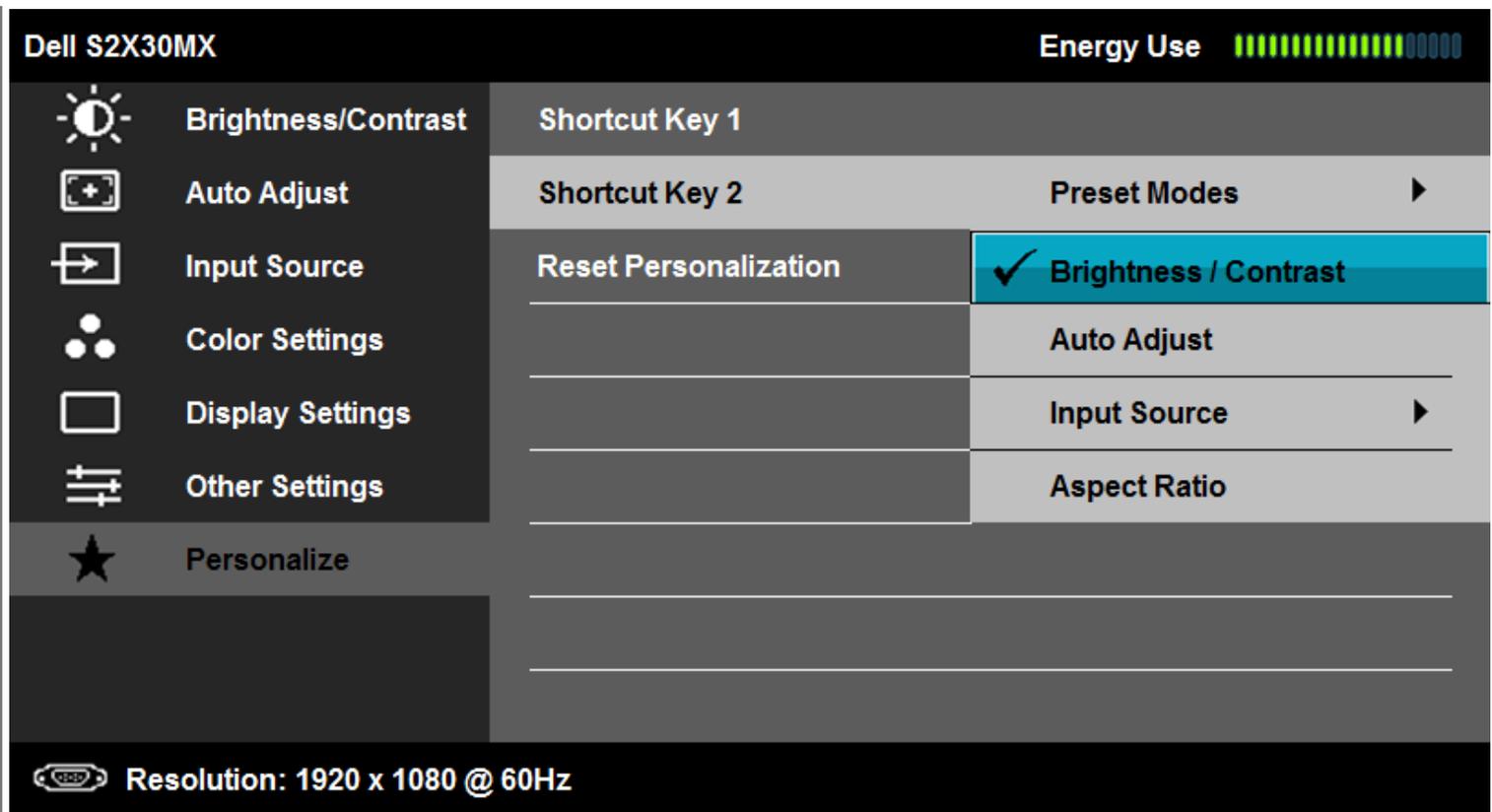
**Shortcut Key 1**

User can select from "Preset Modes", "Brightness/Contrast", "Auto Adjust", "Input Source", "Aspect Ratio" and set as shortcut key.



**Shortcut Key 2**

User can select from "Preset Modes", "Brightness/Contrast", "Auto Adjust", "Input Source", "Aspect Ratio" and set as shortcut key.



**Reset Personalization**

Allows you to restore shortcut key to the default setting.

## OSD Messages

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

**Dell S2X30MX**

The current input timing is not supported by the monitor display. Please change your input timing to **1920x1080@60Hz** or any other monitor listed timing as per the monitor specifications.



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 1920 x 1080.

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

**Dell S2X30MX**

The function of adjusting display setting using PC application will be disabled.

Do you wish to disable DDC/CI function?

**No**

**Yes**

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

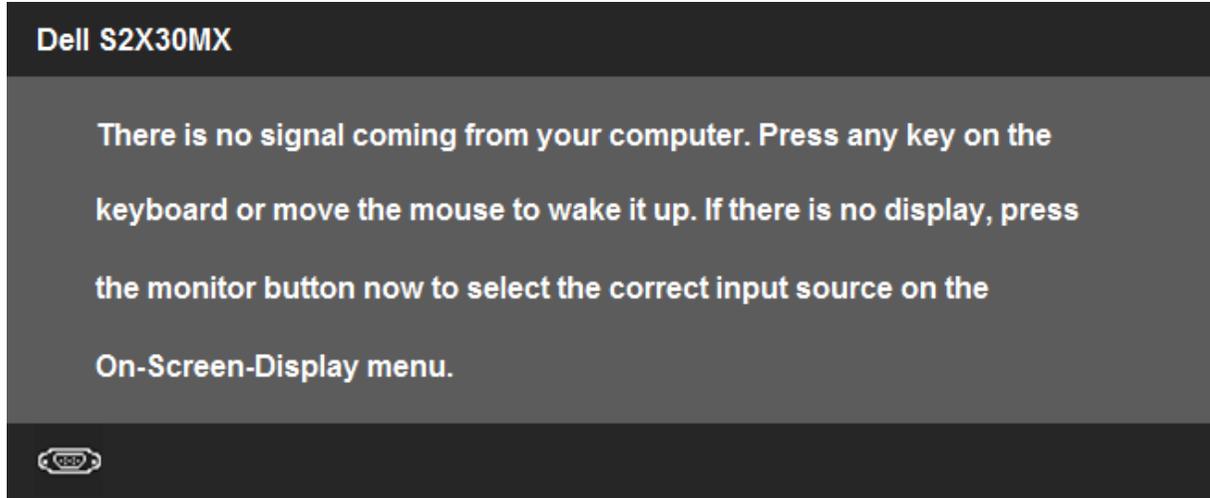
**Dell S2X30MX**

Entering Power Save Mode.

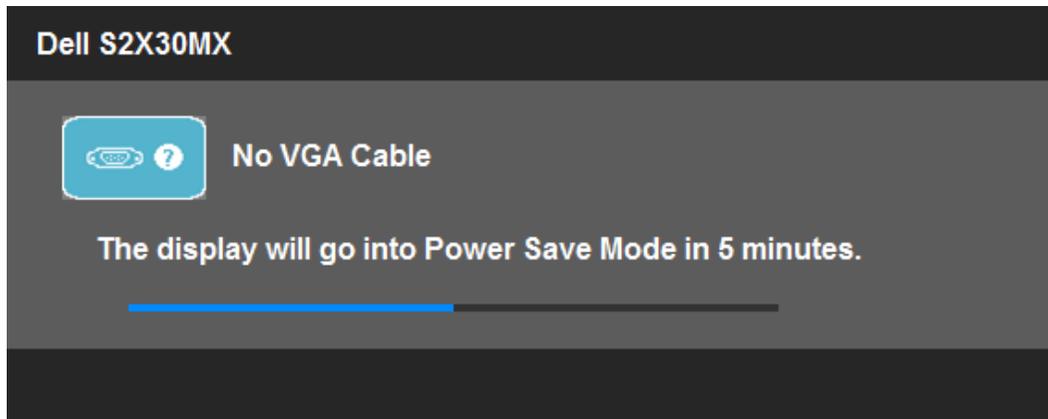


Activate the computer and wake up the monitor to gain access to the [OSD](#).

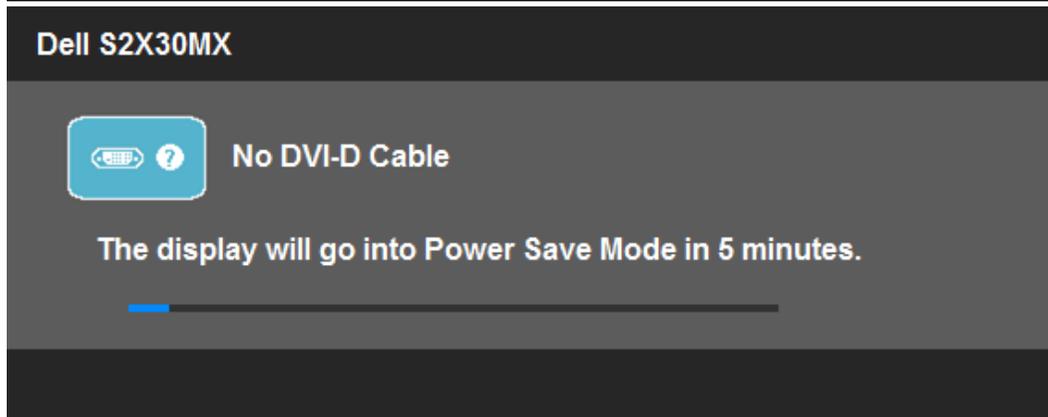
If you press any button other than the power button the following messages will appear depending on the selected input:



If VGA or DVI cable is not connected, a floating dialog box as shown below appears. The monitor will enter **Power Save Mode after 5 minutes** if left at this state.



or



## Setting the Maximum Resolution

To set the Maximum resolution for the monitor:

Windows XP:

1. Right-click on the desktop and select **Properties**.
2. Select the **Settings** tab.
3. Set the screen resolution to **1920 x 1080**.
4. Click **OK**.

Windows Vista® or Windows® 7:

1. Right-click on the desktop and select **Personalization**.
2. Click **Change Display Settings**.
3. Move the slider-bar to the right by pressing and holding left-mouse button and adjust the screen resolution to **1920 x 1080**.
4. Click **OK**.

If you do not see 1920 x 1080 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:

- Go to **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):

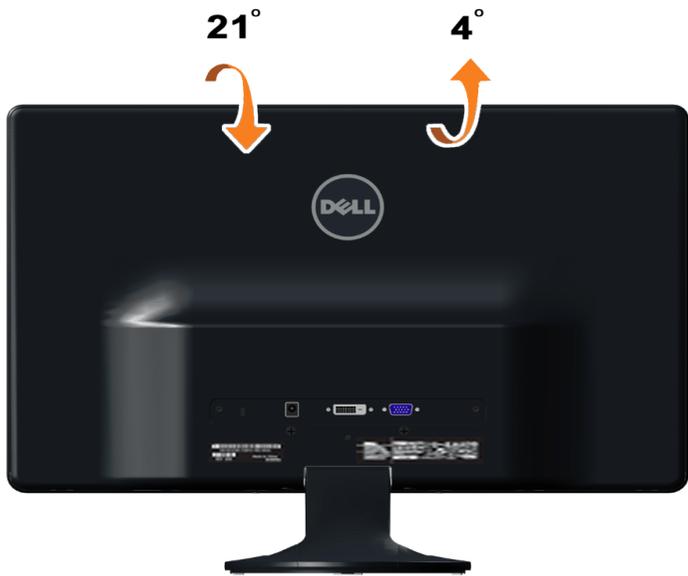
- Go to the support site for your computer and download the latest graphic drivers.
- Go to your graphics card website and download the latest graphic drivers.

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## Using the Tilt

### Tilt

With the stand assembly, you can tilt the monitor for the most comfortable viewing angle.



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

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# Troubleshooting

## Dell™ S2230MX/S2330MX monitor

- [Self-Test](#)
- [Built-in Diagnostics](#)
- [In-Store Demo](#)
- [Common Problems](#)
- [Product Specific Problems](#)

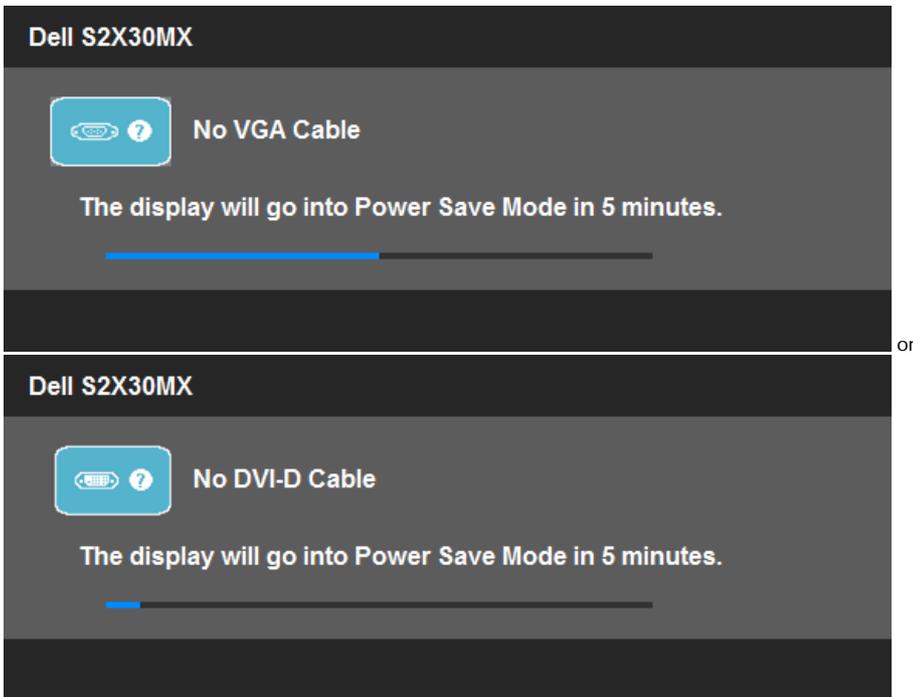
**WARNING:** Before you begin any of the procedures in this section, follow the [Safety Instructions](#).

## 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 both 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 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. The monitor will enter **Power Save Mode after 5 minutes** if left at this state.
5. Turn off your monitor and reconnect the video cable; then turn on both your computer and the monitor.

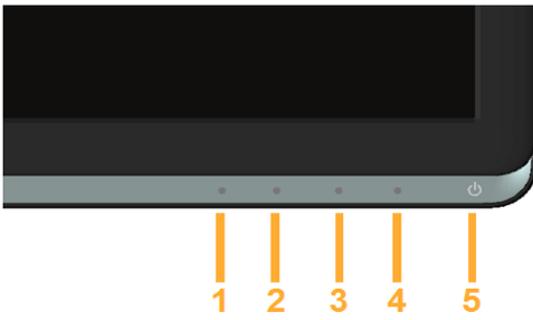
If your monitor screen remains blank after you use the previous procedure, check your video controller and computer, because your monitor is functioning properly.

**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, black, white 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.

## In-Store Demo

To activate the In-Store Demo:

1. Ensure the monitor is powered off.
2. Unplug the video cable(s) from the back of the monitor.
3. Turn on the monitor.
4. Press and hold the Button 2 along with the Button 4 on the front panel for 5 seconds. Flashing labels appear floating randomly on screen.
5. The demo mode continues as long as the monitor remains powered.
6. To exit In-Store Demo, press the power button once.

Note: If a video cable is inserted while in demo mode, the labels superimpose on the video.

Note: In-Store Demo is not a diagnostic tool to test for abnormalities. Instead, use the built-in diagnostics.

## 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"> <li>• Ensure that the video cable connecting the monitor and the computer is properly connected and secure.</li> <li>• Verify that the power outlet is functioning properly using any other electrical equipment.</li> <li>• 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>• Increase brightness &amp; contrast controls via OSD.</li> <li>• Perform monitor self-test feature check.</li> <li>• Check for bent or broken pins in the video cable connector.</li> <li>• Ensure that the correct input source is selected via the <a href="#">Input Source Select</a> menu.</li> <li>• Run the built-in diagnostics.</li> </ul>
Poor Focus	Picture is fuzzy, blurry, or ghosting	<ul style="list-style-type: none"> <li>• Perform Auto Adjust via OSD.</li> <li>• Adjust the Phase and Pixel Clock controls via OSD.</li> <li>• Eliminate video extension cables.</li> <li>• Reset the monitor to Factory Settings.</li> <li>• 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>• Perform Auto Adjust via OSD.</li> <li>• Adjust the Phase and Pixel Clock controls via OSD.</li> <li>• Reset the monitor to Factory Settings.</li> <li>• Check environmental factors.</li> <li>• Relocate the monitor and test in another room.</li> </ul>
Missing Pixels	LCD screen has spots	<ul style="list-style-type: none"> <li>• Cycle power on-off.</li> <li>• Pixel that is permanently off is a natural defect that can occur in LCD technology.</li> </ul> <p>For more information on Dell Monitor Quality and Pixel Policy, see Dell Support site at: <a href="http://support.dell.com">support.dell.com</a>.</p>
Stuck-on Pixels	LCD screen has bright spots	<ul style="list-style-type: none"> <li>• Cycle power on-off.</li> <li>• Pixel that is permanently off is a natural defect that can occur in LCD technology.</li> </ul> <p>For more information on Dell Monitor Quality and Pixel Policy, see Dell Support site at: <a href="http://support.dell.com">support.dell.com</a>.</p>
Brightness Problems	Picture too dim or too bright	<ul style="list-style-type: none"> <li>• Reset the monitor to Factory Settings.</li> <li>• Auto Adjust via OSD.</li> </ul>

		<ul style="list-style-type: none"> <li>Adjust brightness &amp; contrast controls via OSD.</li> </ul>
Geometric Distortion	Screen not centered correctly	<ul style="list-style-type: none"> <li>Reset the monitor to Factory Settings.</li> <li>Auto Adjust via OSD.</li> <li>Adjust brightness &amp; contrast controls via OSD.</li> </ul> <p>NOTE: When using 'DVI-D', the positioning adjustments are not available.</p>
Horizontal/Vertical Lines	Screen has one or more lines	<ul style="list-style-type: none"> <li>Reset the monitor to Factory Settings.</li> <li>Perform Auto Adjust via OSD.</li> <li>Adjust Phase and Pixel Clock controls via OSD.</li> <li>Perform monitor self-test feature check and determine if these lines are also in self-test mode.</li> <li>Check for bent or broken pins in the video cable connector.</li> </ul> <p>NOTE: When using '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"> <li>Reset the monitor to Factory Settings.</li> <li>Perform Auto Adjust via OSD.</li> <li>Adjust Phase and Pixel Clock controls via OSD.</li> <li>Perform monitor self-test feature check to determine if the scrambled screen appears in self-test mode.</li> <li>Check for bent or broken pins in the video cable connector.</li> <li>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>Do not perform any troubleshooting steps.</li> <li>Contact Dell immediately.</li> </ul>
Intermittent Problems	Monitor malfunctions on & off	<ul style="list-style-type: none"> <li>Ensure that the video cable connecting the monitor to the computer is connected properly and is secure.</li> <li>Reset the monitor to Factory Settings.</li> <li>Perform monitor self-test feature check to determine if the intermittent problem occurs in self-test mode.</li> </ul>
Missing Color	Picture missing color	<ul style="list-style-type: none"> <li>Perform monitor self-test feature check.</li> <li>Ensure that the video cable connecting the monitor to the computer is connected properly and is secure.</li> <li>Check for bent or broken pins in the video cable connector.</li> </ul>
Wrong Color	Picture color not good	<ul style="list-style-type: none"> <li>Change the Color Setting Mode in the Color Settings OSD to Graphics or Video depending on the application.</li> <li>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.</li> <li>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>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>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>Reset the monitor to Factory Settings.</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>Turn off the monitor, unplug the power cord, plug back, and then turn on the monitor.</li> <li>Check if the OSD menu is locked. If yes, press and hold  key for 10 seconds to unlock. See <a href="#">Menu Lock</a>.</li> </ul>
No Input Signal when user controls are pressed	No picture, the LED light is white. When you press "up", "down" or "Menu" key, the message "No input signal" will appear.	<ul style="list-style-type: none"> <li>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.</li> <li>Check whether the signal cable is plugged in properly. Re-plug the signal cable if necessary.</li> <li>Reset the computer or video player.</li> </ul>
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"> <li>Due to different video formats (aspect ratio) of DVDs, the monitor may display in full screen.</li> <li>Run the built-in diagnostics.</li> </ul>

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

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# Appendix

## Dell™ S2230MX/S2330MX Monitor 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*.

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## 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](http://www.dell.com/regulatory_compliance).

**This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:**

- (1) this device may not cause harmful interference
  - (2) this device must accept any interference received including interference that may cause undesired operation
- 

## 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™ S2230MX/S2330MX 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 **1920 x 1080** again.

 **NOTE:** If you are unable to set the resolution to 1920 x 1080, please contact Dell™ to inquire about a graphics adapter that supports these resolutions.

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## If you have a non Dell™ 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. 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 **1920 x 1080** 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. 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 **1920 x 1080** again.



**NOTE:** If you are unable to set the resolution to 1920 x 1080, please contact the manufacturer of your computer or consider purchasing a graphics adapter that will support the video resolution of 1920 x 1080.

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