

# User's Guide

Dell P2214H

Dell P2414H

Model No.: P2214H / P2414H

Regulatory model: P2214Hb / P2214Hb



# Notes, Cautions, and 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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# 1






## About Your Monitor

### Package Contents

Your monitor ships with the components shown below. Ensure that you have received all the components and [Contacting 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.
-  **NOTE:** To set up with any other stand, please refer to the respective stand setup guide for setup instructions.

	<ul style="list-style-type: none"><li>• Monitor</li></ul>
	<ul style="list-style-type: none"><li>• Stand</li></ul>
	<ul style="list-style-type: none"><li>• Cable Cover</li></ul>

	<ul style="list-style-type: none"> <li>• Power Cable (Varies by Countries)</li> </ul>
	<ul style="list-style-type: none"> <li>• VGA Cable</li> </ul>
	<ul style="list-style-type: none"> <li>• DP Cable</li> </ul>
	<ul style="list-style-type: none"> <li>• USB Upstream Cable</li> </ul>
	<ul style="list-style-type: none"> <li>• Drivers and Documentation Media</li> <li>• Quick Setup Guide</li> <li>• Product and Safety Information Guide</li> </ul>

## Product Features

The **Dell P2214H/P2414H** flat panel display has an active matrix, Thin-Film Transistor (TFT), Liquid Crystal Display (LCD) and LED backlight. The monitor features include:

- **P2214H:** 54.61 cm (21.5-inch) viewable area display (measured diagonally). 1920 x 1080 resolution, plus full-screen support for lower resolutions.
- **P2414H:** 60.47 cm (23.8-inch) viewable area display (measured diagonally). 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.
- Tilt, swivel, vertical extension and rotate adjustment capabilities.
- Removable stand and Video Electronics Standards Association (VESA™) 100 mm mounting holes for flexible mounting solutions.
- Plug and play capability if supported by your system.

- On-Screen Display (OSD) adjustments for ease of set-up and screen optimization.
- Software and documentation media includes an Information File (INF), Image Color Matching File (ICM), and product documentation.
- Dell Display Manager Software included (comes in the CD shipped with the monitor).
- Energy Saver feature for Energy Star compliance.
- Security lock slot.
- Stand lock.
- Capability to switch from wide aspect to standard aspect ratio while maintaining the image quality.
- EPEAT Gold Rating.
- P2214H/P2414H monitor is BFR/PVC-free (Halogen-free) excluding external cables.
- TCO-Certified Displays.
- Arsenic-Free glass and Mercury-Free for the panel only.
- High Dynamic Contrast Ratio (2,000,000:1).
- 0.3 W standby power when in the sleep mode.
- Energy Gauge shows the energy level being consumed by the monitor in real time.

# Identifying Parts and Controls

## Front View



Front panel controls

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

# Back View



Back View with monitor stand

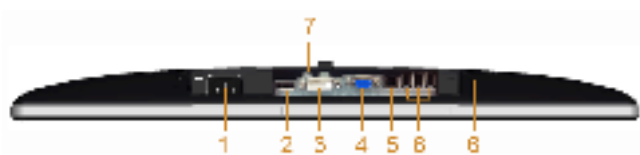
Label	Description	Use
1	VESA mounting holes (100 mm x 100 mm - behind attached VESA Cover)	Wall mount monitor using VESA-compatible wall mount kit (100 mm x 100 mm).
2	Regulatory label	Lists the regulatory approvals.
3	Stand release button	Release stand from monitor.
4	Security lock slot	Secures monitor with security lock (security lock not included).
5	Barcode serial number label	Refer to this label if you need to contact Dell for technical support.
6	Dell Soundbar mounting slots	Attaches the optional Dell Soundbar.
7	Cable management slot	Use to organize cables by placing them through the slot.



# Side View



# Bottom View



Bottom view without monitor stand

Label	Description	Use
1	AC power cord connector	Connect the power cable.
2	DP connector	Connect your computer with DP cable.
3	DVI connector	Connect your computer with DVI cable.
4	VGA connector	Connect your computer with VGA cable.
5	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 monitor.

6	USB downstream port	Connect your USB device. You can only use this connector after you have connected the USB cable to the computer and USB upstream connector on the monitor.
7	Stand lock feature	To lock the stand to the monitor using a M3 x 6 mm screw (screw not included).

## Monitor Specifications

### Flat Panel Specifications

Model	P2214H	P2414H
Screen type	Active matrix - TFT LCD	Active matrix - TFT LCD
Panel type	In Plane Switching	In Plane Switching
Screen dimensions	54.61 cm (21.5-inch diagonal viewable image size)	60.47 cm (23.8-inch diagonal viewable image size)
Viewable image dimension <ul style="list-style-type: none"><li>Horizontal</li><li>Vertical</li></ul>	476.64 mm (18.77 inches) 267.78 mm (10.54 inches)	527.04 mm (20.75 inches) 296.46 mm (11.67 inches)
Pixel pitch	0.248 x 0.248 mm	0.2745 x 0.2745 mm
Viewing angle	178° (vertical) typical 178° (horizontal) typical	178° (vertical) typical 178° (horizontal) typical
Luminance output	250 cd/m <sup>2</sup> (typical)	250 cd/m <sup>2</sup> (typical)
Contrast ratio	1000 to 1 (typical) 2M to 1 (typical Dynamic Contrast On)	1000 to 1 (typical) 2M to 1 (typical Dynamic Contrast On)
Faceplate coating	Anti-Glare with 3H hardness	Anti-Glare with 3H hardness
Backlight	LED edgelight system	LED edgelight system
Response time	8 ms grey to grey (typical)	8 ms grey to grey (typical)
Color depth	16.7 million colors	16.7 million colors
Color gamut	CIE1931 (72%)*	CIE1931 (72%)**

\*[P2214H] color gamut (typical) is based on CIE1976 (85%) and CIE1931 (72%) test standards.

\*\*[P2414H] color gamut (typical) is based on CIE1976 (86%) and CIE1931 (72%) test standards.

# Resolution Specifications

Model	P2214H	P2414H
Horizontal scan range	30 kHz to 83 kHz (automatic)	30 kHz to 83 kHz (automatic)
Vertical scan range	56 Hz to 76 Hz (automatic)	56 Hz to 76 Hz (automatic)
Maximum preset resolution	1920 x 1080 at 60 Hz	1920 x 1080 at 60 Hz

# Supported Video Modes

Model	P2214H/P2414H
Video display capabilities (DVI & DP playback)	480i, 480p, 576i, 576p, 720p, 1080i, 1080p

# Preset Display Modes

P2214H/P2414H

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal/ Vertical)
VESA, 720 x 400	31.5	70.1	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	60.3	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, 1280 x 1024	63.9	60.0	108.0	+/+
VESA, 1280 x 1024	80.0	75.0	135.0	+/+
VESA, 1152 x 864	67.5	75.0	108.0	+/+
VESA, 1600 x 900	60.0	60.0	108.0	+/+
VESA, 1920 x 1080	67.5	60.0	148.5	+/+

# Electrical Specifications

Model	P2214H/P2414H
Video input signals	<ul style="list-style-type: none"><li>• Analog RGB, 0.7 Volts +/- 5%, positive polarity at 75 ohm input impedance</li><li>• Digital DVI-D TMDS, 600 mV for each differential line, positive polarity at 50 ohm input impedance</li><li>• DP 1.2 signal input support*</li></ul>
Synchronization input signals	Separate horizontal and vertical synchronizations, polarity-free TTL level, SOG (Composite SYNC on green)
AC input voltage/frequency/ current	100 VAC to 240 VAC / 50 Hz or 60 Hz $\pm$ 3 Hz / 1.2 A (typical)
Inrush current	<ul style="list-style-type: none"><li>• 120 V: 30 A (Max)</li><li>• 240 V: 60 A (Max)</li></ul>

\*Support DP1.2 (CORE) specification. Excludes High Bit Rate 2 (HBR2), Fast AUX transaction, Multi-stream transport (MST), 3D stereo transport, HBR Audio (or high data rate audio)

# Physical Characteristics

Model	P2214H	P2414H
Connector type	15-pin D-subminiature, blue connector; DVI-D, white connector; DP, black connector	15-pin D-subminiature, blue connector; DVI-D, white connector; DP, black connector
Signal cable type	<ul style="list-style-type: none"><li>• Digital: detachable, DVI-D, solid pins, shipped detached from the monitor</li><li>• Digital: DisplayPort, 20 pin</li><li>• Analog: attachable, D-Sub, 15 pins, shipped attached to the monitor</li></ul>	<ul style="list-style-type: none"><li>• Digital: detachable, DVI-D, solid pins, shipped detached from the monitor</li><li>• Digital: DisplayPort, 20 pin</li><li>• Analog: attachable, D-Sub, 15 pins, shipped attached to the monitor</li></ul>
Dimensions (with stand)		
Height (extended)	483.6 mm (19.04 inches)	499.0 mm (19.65 inches)
Height (compressed)	354.2 mm (13.94 inches)	369.0 mm (14.53 inches)
Width	512.7 mm (20.19 inches)	565.6 mm (22.27 inches)

Depth	180.0 mm (7.09 inches)	180.0 mm (7.09 inches)
<b>Dimensions (without stand)</b>		
Height	304.4 mm (11.98 inches)	335.1 mm (13.19 inches)
Width	512.7 mm (20.19 inches)	565.6 mm (22.27 inches)
Depth	46.3 mm (1.82 inches)	47.0 mm (1.85 inches)
<b>Stand dimensions</b>		
Height (extended)	399.7 mm (15.74 inches)	399.7 mm (15.74 inches)
Height (compressed)	354.2 mm (13.94 inches)	354.2 mm (13.94 inches)
Width	225.0 mm (8.86 inches)	225.0 mm (8.86 inches)
Depth	180.0 mm (7.09 inches)	180.0 mm (7.09 inches)
<b>Weight</b>		
Weight with packaging	7.18 kg (15.80 lb)	7.79 kg (17.14 lb)
Weight with stand assembly and cables	5.58 kg (12.28 lb)	5.83 kg (12.83 lb)
Weight without stand assembly (For wall mount or VESA mount considerations - no cables)	3.26 kg (7.17 lb)	3.51 kg (7.72 lb)
Weight of stand assembly	1.87 kg (4.11 lb)	1.87 kg (4.11 lb)
Front frame gloss	Black Frame - 5~8% gloss unit (max.)	Black Frame - 5~8% gloss unit (max.)

## Environmental Characteristics

Model	P2214H/P2414H
<b>Temperature</b>	
Operating	0 °C to 40 °C (32 °F to 104 °F)
Non-operating	<ul style="list-style-type: none"> <li>Storage: -20 °C to 60 °C (-4 °F to 140 °F)</li> <li>Shipping: -20 °C to 60 °C (-4 °F to 140 °F)</li> </ul>
<b>Humidity</b>	
Operating	10% to 80% (non-condensing)
Non-operating	<ul style="list-style-type: none"> <li>Storage: 5% to 90% (non-condensing)</li> <li>Shipping: 5% to 90% (non-condensing)</li> </ul>
<b>Altitude</b>	
Operating	5,000m (16,400 ft) (maximum)

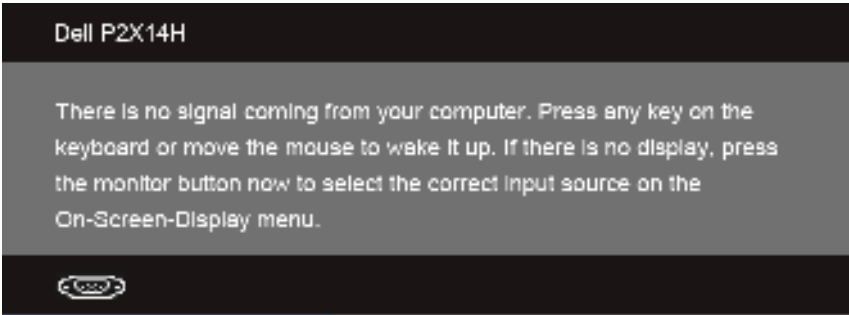
Non-operating	12,192m (40,000 ft) (maximum)
<b>Thermal dissipation</b>	<ul style="list-style-type: none"> <li>• 102.3 BTU/hour (maximum)</li> <li>• 62.8 BTU/hour (typical)</li> </ul>

## Power Management Modes

If you have VESA's DPM™ compliance display card or software installed in your PC, the monitor can automatically reduce its power consumption when not in use. This is referred to as *Power Save Mode\**. If the computer detects input from the 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.

VESA Modes	Horizontal Sync	Vertical Sync	Video	Power Indicator	Power Consumption	
Normal operation	Active	Active	Active	White	P2214H	P2414H
					42 W (maximum)** 26 W (typical)	45 W (maximum)** 28 W (typical)
Active-off mode	Inactive	Inactive	Blanked	White (Breathing)	Less than 0.3 W	Less than 0.3 W
Switch off	-	-	-	Off	Less than 0.3 W	Less than 0.3 W

The OSD functions only in the normal operation mode. When any button is pressed in the Active-off mode, one of the following messages will be displayed:



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



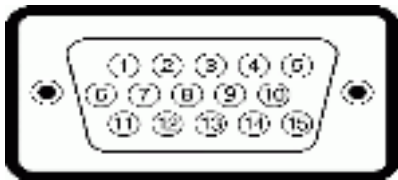
**NOTE:** This monitor is **ENERGY STAR®**-compliant.



- \* Zero power consumption in OFF mode can only be achieved by disconnecting the main cable from the monitor.
- \*\* Maximum power consumption with max luminance, and USB active.

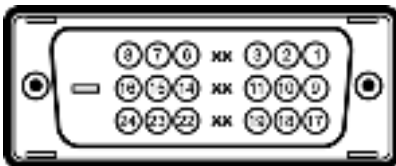
## Pin Assignments

### VGA Connector



Pin Number	15-pin Side of the Connected 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	Computer 5 V/3.3 V
10	GND-sync
11	GND
12	DDC data
13	H-sync
14	V-sync
15	DDC clock

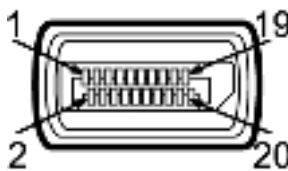
DVI Connector



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/+3.3 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-



## DisplayPort Connector



Pin Number	20-pin Side of the Connected Signal Cable
1	ML0(p)
2	GND
3	ML0(n)
4	ML1(p)
5	GND
6	ML1(n)
7	ML2(p)
8	GND
9	ML2(n)
10	ML3(p)
11	GND
12	ML3(n)
13	GND
14	GND
15	AUX(p)
16	GND
17	AUX(n)
18	GND
19	Re-PWR
20	PWR

## Plug and Play Capability

You can install the monitor in any Plug and Play-compatible system. The monitor automatically provides the computer system with its Extended Display Identification Data (EDID) using Display Data Channel (DDC) protocols so the system can configure itself and optimize the monitor settings. Most monitor installations are automatic; you can select different settings if desired. For more information about changing the monitor settings, see [Operating the Monitor](#).

# Universal Serial Bus (USB) Interface

This section gives you information about the USB ports that are available on the monitor.



**NOTE:** This monitor supports High-Speed Certified USB 2.0 interface.

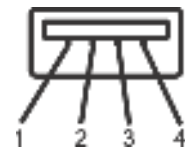
Transfer Speed	Data Rate	Power Consumption
High speed	480 Mbps	2.5 W (Max, each port)
Full speed	12 Mbps	2.5 W (Max, each port)
Low speed	1.5 Mbps	2.5 W (Max, each port)

## USB Upstream Connector



Pin Number	4-pin Side of the Connector
1	DMU
2	VCC
3	DPU
4	GND

# USB Downstream Connector



Pin Number	4-pin Side of the Connector
1	VCC
2	DMD
3	DPD
4	GND

## USB Ports

- 1 upstream - back
- 4 downstream - back



**NOTE:** USB 2.0 functionality requires a USB 2.0-capable computer.



**NOTE:** The monitor's USB interface works only when the monitor is On or in the power save mode. If you turn Off the monitor and then turn it On, the attached peripherals may take a few seconds to resume normal functionality.

## LCD Monitor Quality and Pixel Policy

During the LCD Monitor manufacturing process, it is not uncommon for one or more pixels to become fixed in an unchanging state which are hard to see and do not affect the display quality or usability. For more information on Dell Monitor Quality and Pixel Policy, see Dell Support site at: <http://www.dell.com/support/monitors>.

## Maintenance Guidelines

### Cleaning Your Monitor



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



**WARNING:** 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 anti-static screen, lightly dampen a soft, clean cloth with water. If possible, use a special screen-cleaning tissue or solution suitable for the anti-static coating. Do not use benzene, thinner, ammonia, abrasive cleaners, or compressed air.

- Use a lightly-dampened, warm cloth to clean the monitor. Avoid using detergent of any kind as some detergents leave a milky film on the monitor.
- If you notice white powder when you unpack your monitor, wipe it off with a cloth.
- Handle your monitor with care as a darker-colored monitor may get scratched 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 turn off your monitor when not in use.

# 2

## Setting Up the Monitor

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### Attaching the Stand



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



**NOTE:** This is applicable for a monitor with a stand. When any other stand is bought, please refer to the respective stand setup guide for the set up instructions.



To attach the monitor stand:

1. Remove the cover and place the monitor on it.
2. Fit the two tabs on the upper part of the stand to the groove on the back of the monitor.
3. Press the stand till it snaps into place.

### Connecting Your Monitor



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

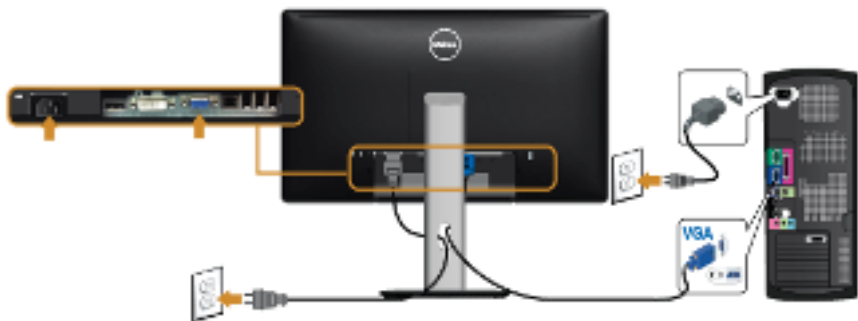


**NOTE:** Do not connect all cables to the computer at the same time.

To connect your monitor to the computer:

1. Turn off your computer and disconnect the power cable.  
Connect the VGA/DVI/DP cable from your monitor to the computer.

## Connecting the blue VGA cable




## Connecting the white DVI cable



## Connecting the black DisplayPort cable

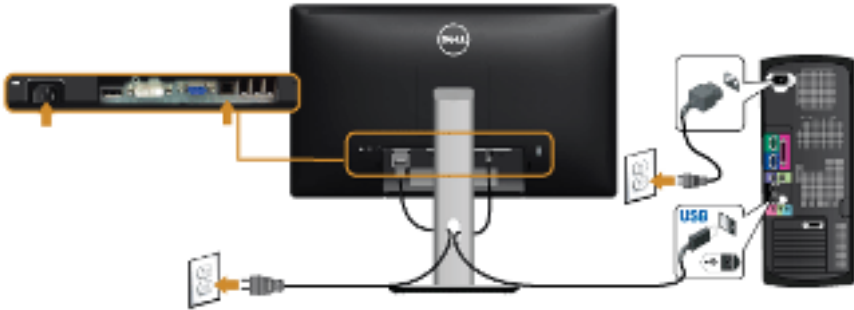


 **CAUTION:** The graphics are used for the purpose of illustration only. Appearance of the computer may vary.

## Connecting the USB cable

After you have completed connecting the VGA/DVI/DP cable, follow the procedures below to connect the USB cable to the computer and complete your monitor setup:

1. Connect the upstream USB port (cable supplied) to an appropriate USB port on your computer. (See [Bottom View](#) for details.)
2. Connect the USB peripherals to the downstream USB ports on the monitor.
3. Plug the power cables for your computer and monitor into a nearby outlet.
4. Turn on the monitor and the computer.  
If your monitor displays an image, installation is complete. If it does not display an image, see [Universal Serial Bus \(USB\) Specific Problems](#).
5. Use the cable slot on the monitor stand to organize the cables.



## Organizing Your Cables



After attaching all necessary cables to your monitor and computer, (See [Connecting Your Monitor](#) for cable attachment,) organize all cables as shown above.

## Attaching the Cable Cover



The Cable Cover is detached when the monitor is shipped from the factory.



1. Fit the two tabs on the bottom part of the Cable Cover to the groove on the back of the monitor.
2. Press the Cable Cover till it snaps into place.

## Removing the Monitor Stand



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



**NOTE:** This is applicable for a monitor with a stand. When any other stand is bought, please refer to the respective stand setup guide for the set-up instructions.



To remove the stand:

1. Place the monitor on a soft cloth or cushion.
2. Press and hold the stand release button.
3. Lift the stand up and away from the monitor



## Wall Mounting (Optional)



(Screw dimension: M4 x 10 mm).

Refer to the instructions that come with the VESA-compatible wall 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 Phillips crosshead screwdriver to remove the four screws securing the plastic cover.
4. Attach the mounting bracket from the wall mounting kit to the monitor.
5. Mount the monitor on the wall by following the instructions that comes with the wall mounting kit.




**NOTE:** For use only with UL-listed wall mount bracket with minimum weight/load bearing capacity of 5.88 kg.



# 3

## Operating the Monitor

### Power On the Monitor

Press the  button to turn on the monitor.








### Using the Front Panel Controls

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/ Preset Modes	Use this button to choose from a list of preset color modes.



2		Use this button to directly access the <b>Brightness/Contrast</b> menu.
	<b>Shortcut key/ Brightness/ Contrast</b>	
3		Use the <b>MENU</b> button to launch the On-Screen Display (OSD) and select the OSD Menu. See <a href="#">Accessing the Menu System</a> .
	<b>Menu</b>	
4		Use this button to go back to the main menu or exit the OSD main menu.
	<b>Exit</b>	
5		Use the <b>Power</b> button to turn the monitor <b>On</b> and <b>Off</b> . The white light indicates the monitor is <b>On</b> and fully functional. A breathing white light indicates the power save mode.
	<b>Power (with power light indicator)</b>	

## Front Panel Button

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




Front Panel Button	Description
1  <b>Up</b>	Use the <b>Up</b> button to adjust (increase ranges) items in the OSD menu.
2  <b>Down</b>	Use the <b>Down</b> button to adjust (decrease ranges) items in the OSD menu.

3		Use the <b>OK</b> button to confirm your selection.
4		Use the <b>Back</b> button to go back to the previous menu.

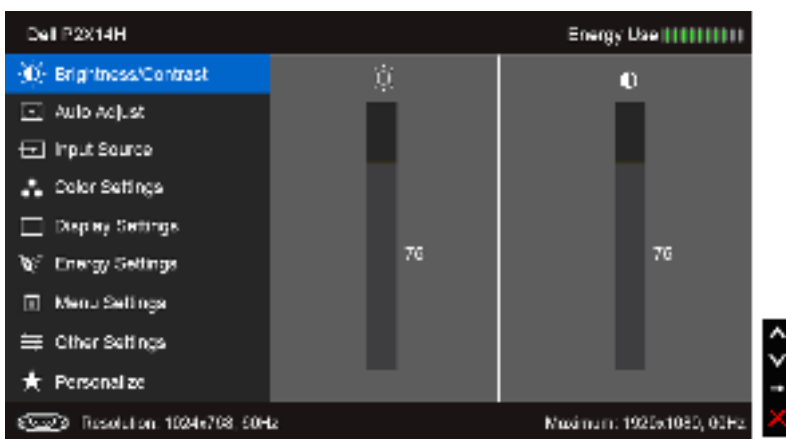
## Using the On-Screen Display (OSD) Menu

### 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.

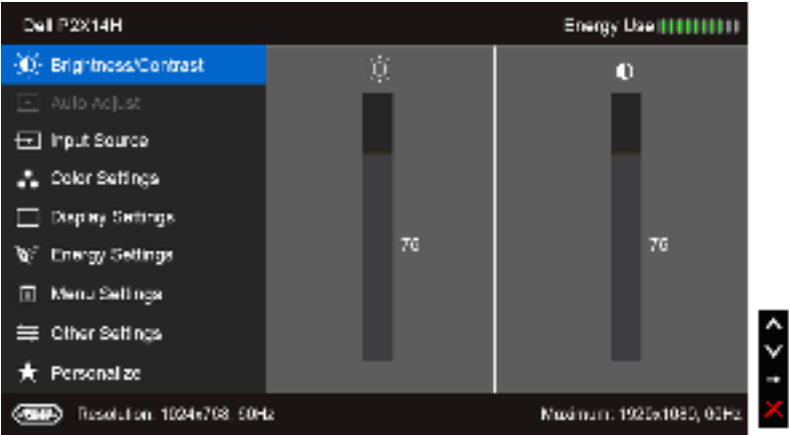
1. Press the  button to launch the OSD menu and display the main menu.

### Main Menu for analog (VGA) input



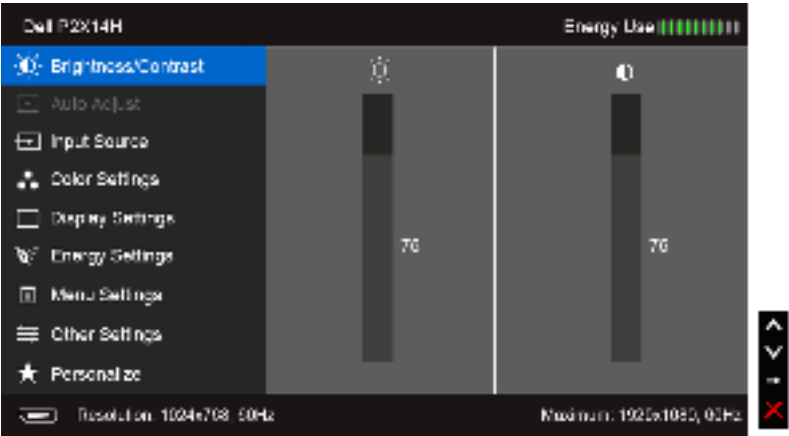
or

Main Menu for digital (DVI) input












or


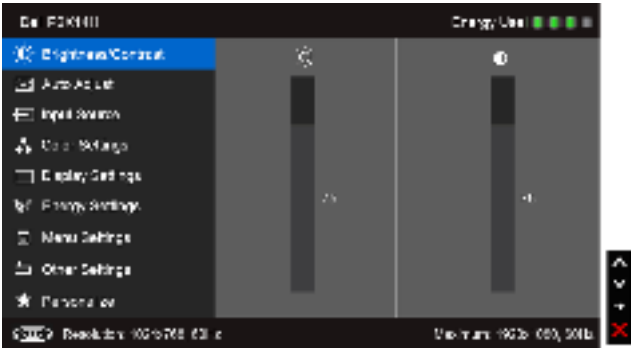






Main Menu for digital (DP) input



**NOTE: Auto Adjust** is only available when you use the analog (VGA) connector.

- 2. Press the  and  buttons to move between the setting options. As you move from one icon to another, the option name is highlighted. See the following table for a complete list of all the options available for the monitor.
- 3. Press the  button once to activate the highlighted option.
- 4. Press  and  button to select the desired parameter.

5. Press 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  button to return to the main menu.

Icon	Menu and Submenus	Description
	<b>Brightness/Contrast</b>	Use this menu to activate <b>Brightness/Contrast</b> adjustment.
		
	<b>Brightness</b>	<p><b>Brightness</b> adjusts the luminance of the backlight.</p> <p>Press the  button to increase the brightness and press the  button to decrease the brightness (min. 0 / max 100).</p> <p><b>NOTE:</b> Manual adjustment of <b>Brightness</b> is disabled when <b>Energy Smart</b> or <b>Dynamic Contrast</b> is switched on.</p>
	<b>Contrast</b>	<p>Adjust the <b>Brightness</b> first, and then adjust the <b>Contrast</b> only if further adjustment is necessary.</p> <p>Press the  button to increase the contrast and press the  button to decrease the contrast (min. 0 / max 100).</p> <p>The <b>Contrast</b> function adjusts the degree of difference between darkness and lightness on the monitor screen.</p>
	<b>Auto Adjust</b>	<p>Even though your computer recognizes your monitor on startup, the <b>Auto Adjustment</b> function optimizes the display settings for use with your particular setup.</p> <p><b>Auto Adjustment</b> allows the monitor to self-adjust to the incoming video signal. After using <b>Auto Adjustment</b>, you can further tune your monitor by using the <b>Pixel Clock</b> (Coarse) and <b>Phase</b> (Fine) controls under <b>Display Settings</b>.</p> <div data-bbox="360 1166 738 1265">  </div> <p><b>NOTE:</b> In most cases, <b>Auto Adjust</b> produces the best image for your configuration.</p> <p><b>NOTE:</b> <b>Auto Adjust</b> option is only available when you are using the analog (VGA) connector.</p>





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

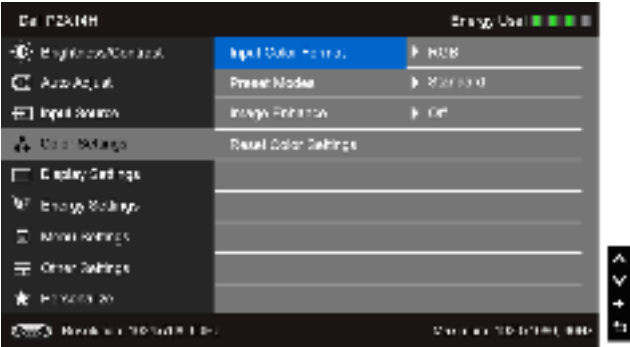


- |  |  |
|--|--|
|  | <b>Auto Select</b> Press  to select <b>Auto Select</b> , the monitor scans for available input sources.  |
|  | <b>VGA</b> Select the <b>VGA</b> input when you are using the analog (VGA) connector. Press  to select the VGA input source.                             |
|  | <b>DVI-D</b> Select the <b>DVI-D</b> input when you are using the Digital (DVI) connector. Press  to select the DVI input source.                        |
|  | <b>DisplayPort</b> Select the <b>DisplayPort</b> input when you are using the DisplayPort (DP) connector. Press  to select the DisplayPort input source. |



## Color Settings

Use **Color Settings** to adjust the color setting mode.



### 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 VGA and DVI cable.

**YPbPr:** Select this option if your monitor is connected to a DVD player by YPbPr to VGA, or YPbPr to DVI cable; or if the DVD color output setting is not RGB.





<b>Image Enhance</b>	<p>Makes upsized images higher quality by removing image fading and roughness of edge.</p> <p><b>NOTE: Image Enhance</b> is available only when you select <b>Standard</b>, <b>Multimedia</b>, <b>Movie</b>, or <b>Game</b> preset mode.</p>
<b>Reset Color Settings</b>	<p>Reset your monitor color settings to the factory settings.</p>
	<p><b>Display Settings</b> Use the <b>Display Settings</b> to adjust image.</p>
<b>Aspect Ratio</b>	<p>Adjusts the image ratio to <b>Wide 16:9</b>, <b>4:3</b>, or <b>5:4</b>.</p>
<b>Horizontal Position</b>	<p>Use  or  to adjust the image left or right. Minimum is '0' (-). Maximum is '100' (+).</p>
<b>Vertical Position</b>	<p>Use  or  to adjust the image up or down. Minimum is '0' (-). Maximum is '100' (+).</p> <p><b>NOTE: Horizontal Position</b> and <b>Vertical Position</b> adjustments are only available for "VGA" input.</p>
<b>Sharpness</b>	<p>This feature can make the image look sharper or softer. Use  or  to adjust the sharpness from '0' to '100'.</p>
<b>Pixel Clock</b>	<p>The <b>Phase</b> and <b>Pixel Clock</b> adjustments allow you to adjust your monitor to your preference.</p> <p>Use  or  to adjust for best image quality.</p>
<b>Phase</b>	<p>If satisfactory results are not obtained using the <b>Phase</b> adjustment, use the <b>Pixel Clock</b> (coarse) adjustment and then use <b>Phase</b> (fine), again.</p> <p><b>NOTE: Pixel Clock</b> and <b>Phase</b> adjustments are only available for "VGA" input.</p>
<b>Dynamic Contrast</b>	<p>Allows you to increase the level of contrast to provide sharper and more detailed image quality.</p> <p>Press the  button to select the <b>Dynamic Contrast "On"</b> or <b>"Off"</b>.</p> <p><b>NOTE: Dynamic Contrast</b> provides higher contrast if you select <b>Game</b> or <b>Movie</b> preset mode.</p>
<b>Reset Display Settings</b>	<p>Select this option to restore default display settings.</p>



## Energy Settings







<b>Energy Smart</b>	To turn on or off dynamic dimming. The dynamic dimming feature automatically reduces the screen's brightness level when the displayed image contains a high proportion of bright areas.
<b>Power Button LED</b>	Allows you to set the power LED indicator on or off to save energy.
<b>USB</b>	Allows you to enable or disable USB function during monitor standby mode. <b>NOTE:</b> USB ON/OFF under standby mode is only available when the USB upstream cable is unplugged. This option will be greyed out when the USB upstream cable plugs in.
<b>Reset Energy Settings</b>	Select this option to restore default <b>Energy Settings</b> .



## Menu Settings

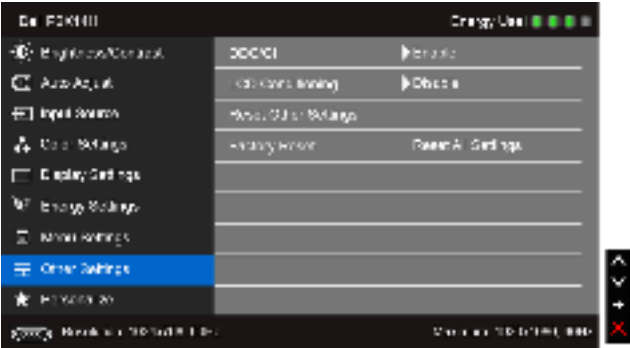
Select this option to adjust the settings of the OSD, such as, the languages of the OSD, the amount of time the menu remains on screen, and so on.



Language	<b>Language</b> options set the OSD display to one of the eight languages (English, Spanish, French, German, Brazilian Portuguese, Russian, Simplified Chinese or Japanese).
Rotation	Rotates the OSD by 90 degrees counter-clockwise. You can adjust the menu according to your <a href="#">Display Rotation</a> .
Transparency	Select this option to change the menu transparency by pressing the  and  buttons (Minimum: 0 ~ Maximum: 100).
Timer	<b>OSD Hold Time:</b> sets the length of time the OSD will remain active after the last time you pressed a button. Use  or  to adjust the slider in 1 second increments, from 5 to 60 seconds.
Lock	Controls user access to adjustments. When <b>Lock</b> is selected, no user adjustments are allowed. All buttons are locked. <b>NOTE:</b> <b>Lock</b> function – Either soft lock (through the OSD menu) or hard lock (press and hold the button above the power button for 10 seconds) <b>Unlock</b> function– Only hard unlock (press and hold the button above the power button for 10 seconds)
Reset Menu Settings	Reset all OSD settings to the factory preset values.



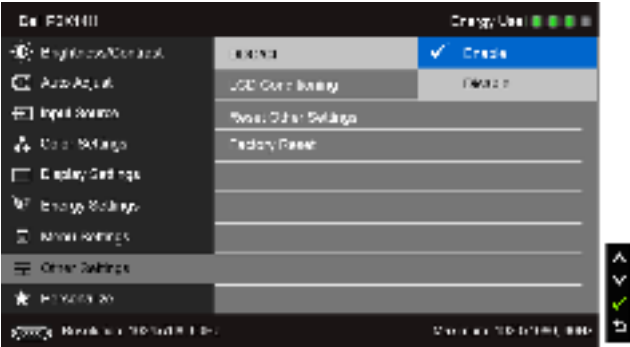
## Other Settings



**DDC/CI**     **DDC/CI** (Display Data Channel/Command Interface) allows your monitor parameters (brightness, color balance, and etc.) to be adjustable via the 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 run. You can enable this feature by selecting **Enable**.

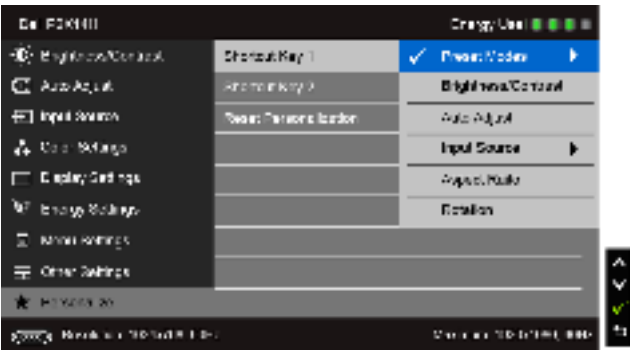


**Reset Other Settings** Reset all settings under the **Other Settings** menu to the factory preset values.

**Factory Reset** Reset all settings to the factory preset values.



**Personalize** Users can choose a feature from **Preset Modes**, **Brightness/Contrast**, **Auto Adjust**, **Input Source**, **Aspect Ratio**, or **Rotation** and set it as a shortcut key.

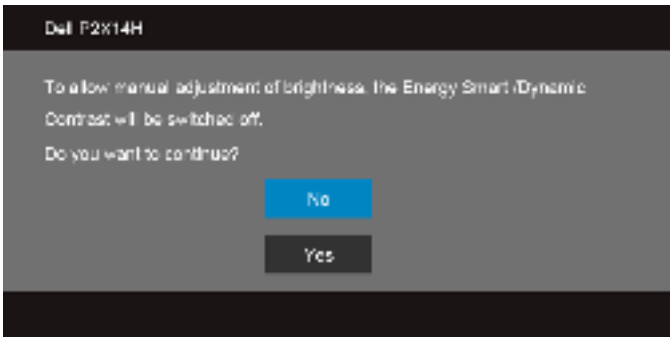


**NOTE:** This monitor has a built-in feature to automatically calibrate the brightness to compensate for LED aging.



### OSD Warning Messages

When the **Energy Smart** or **Dynamic Contrast** feature is enabled (in these preset modes: **Game** or **Movie**), the manual brightness adjustment is disabled.

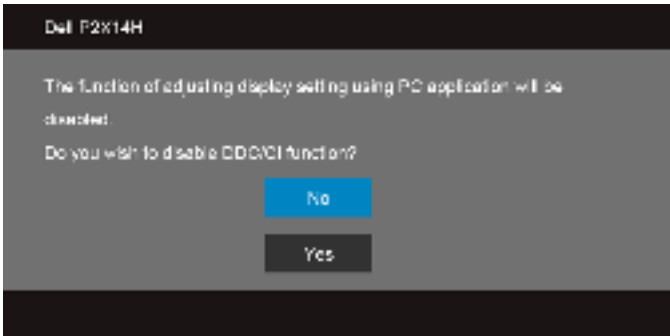


When the monitor does not support a particular resolution mode, you will see the following message:



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 1920 x 1080.

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

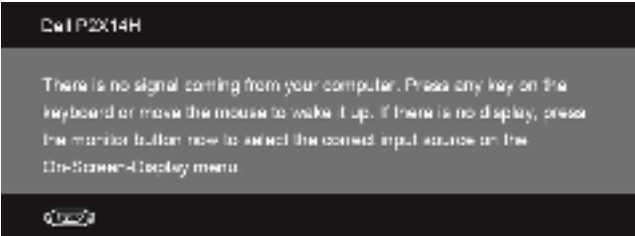


When the monitor enters the **Power Save** mode, the following message appears:

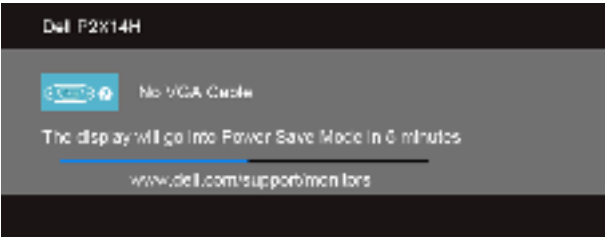


Activate the computer and wake up the monitor to gain access to the [OSD](#).  
If you press any button other than the power button, one of the following messages will appear depending on the selected input:

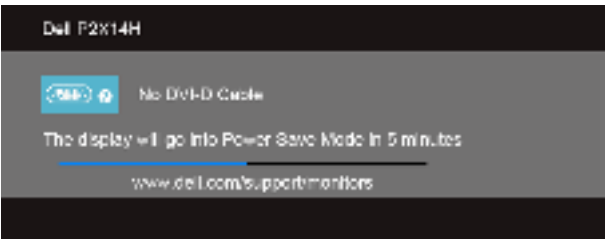
**VGA/DVI-D/DP input**



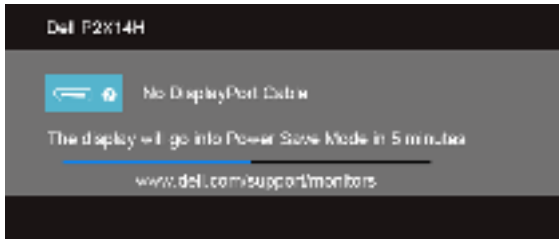
If either VGA, DVI-D, or DP input is selected and the corresponding cable is not connected, a floating dialog box as shown below appears.



or



or



See [Troubleshooting](#) for more information.

## Setting the Maximum Resolution

To set the maximum resolution for the monitor:

Windows® 7 or Windows® 8:

1. For Windows® 8 only, select the Desktop tile to switch to classic desktop.
2. Right-click on the desktop and click **Screen Resolution**.
3. Click the Dropdown list of the Screen Resolution and select **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 <http://www.dell.com/support>, enter your service tag, and download the latest driver for your graphics card.

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

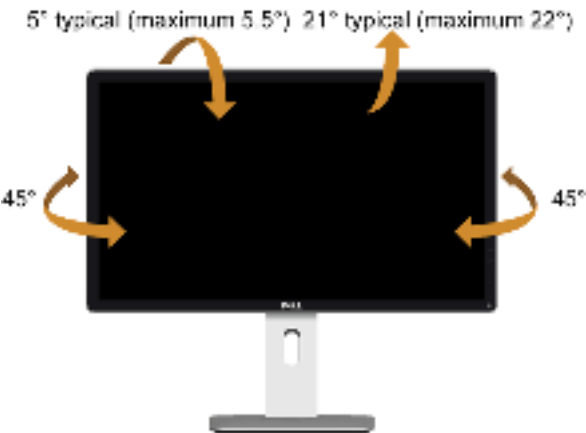
- Go to the support site for your computer and download the latest graphic drivers.
- Go to your graphics card website and download the latest graphic drivers.


# Using the Tilt, Swivel, and Vertical Extension

 **NOTE:** This is applicable for a monitor with a stand. When any other stand is bought, please refer to the respective stand setup guide for set up instructions.


## Tilt, Swivel

With the stand attached to the monitor, you can tilt and swivel the monitor for the most comfortable viewing angle.



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

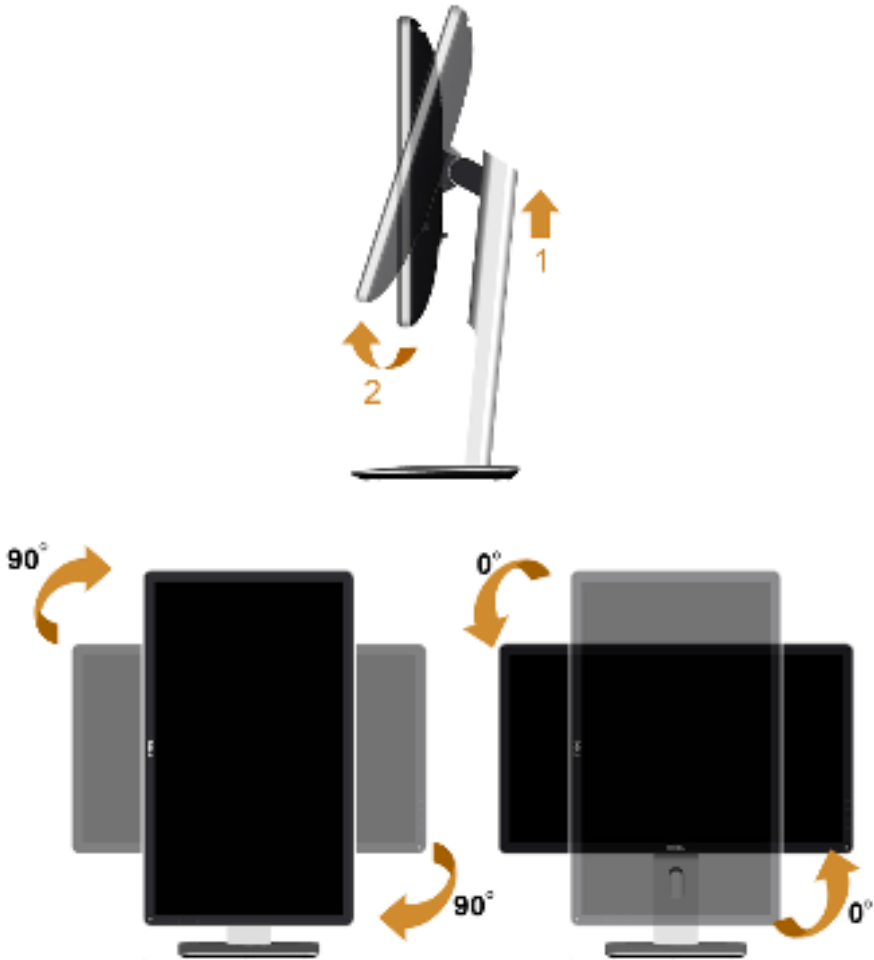
## Vertical Extension



 **NOTE:** The stand extends vertically up to 130 mm. The figure below illustrates how to extend the stand vertically.



## Rotating the Monitor

Before you rotate the monitor, your monitor should be fully vertically extended ([Vertical Extension](#)) and fully tilted up to avoid hitting the bottom edge of the monitor.



-  To use the Display Rotation function (Landscape versus Portrait view) with your Dell computer, you require an updated graphics driver that is not included with this monitor. To download the graphics driver, go to [www.dell.com/support](http://www.dell.com/support) and see the **Download** section for **Video Drivers** for latest driver updates.
-  When in the *Portrait View Mode*, you may experience performance degradation in graphic-intensive applications (3D Gaming and etc.).

# Adjusting the Rotation Display Settings of Your System

After you have rotated your monitor, you need to complete the procedure below to adjust the Rotation Display Settings of your system.



If you are using the monitor with a non-Dell computer, you need to go to the graphics driver website or your computer manufacturer website for information on rotating the 'contents' on your display.

To adjust the Rotation Display Settings:

1. Right-click on the desktop and click **Properties**.
2. Select the **Settings** tab and click **Advanced**.
3. If you have an ATI graphics card, select the **Rotation** tab and set the preferred rotation.
4. If you have an nVidia graphics card, click the **nVidia** tab, in the left-hand column select **NVRotate**, and then select the preferred rotation.
5. If you have an Intel® graphics card, select the **Intel** graphics tab, click **Graphic Properties**, select the **Rotation** tab, and then set the preferred rotation.



**NOTE:** If you do not see the rotation option or it is not working correctly, go to [www.dell.com/support](http://www.dell.com/support) and download the latest driver for your graphics card.



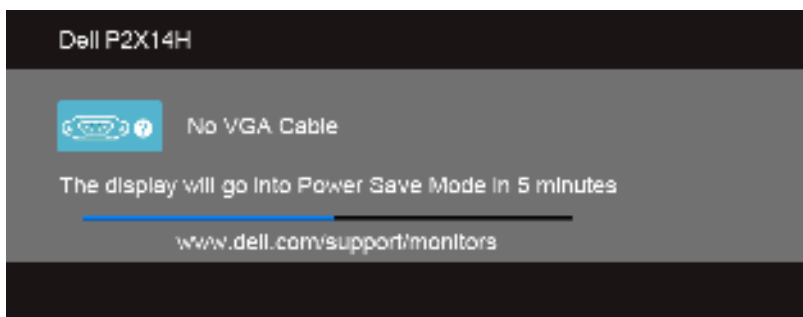
**WARNING:** Before you begin any of the procedures in this section, follow the [Safety Instructions](#).

## Self-Test

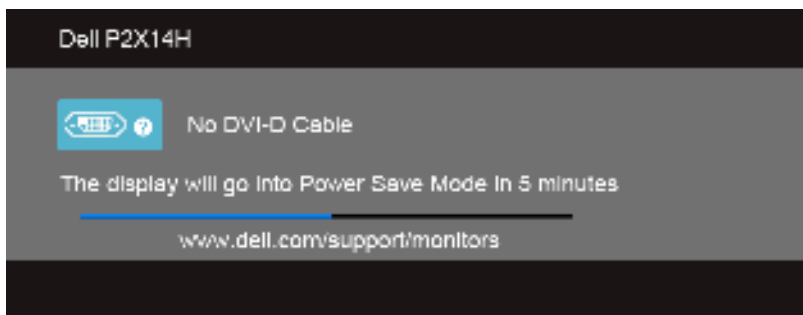
Your monitor provides a self-test feature that allows you to check whether your monitor is functioning properly. If your monitor and computer are properly connected but the monitor screen remains dark, run the monitor self-test by performing the following steps:

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.

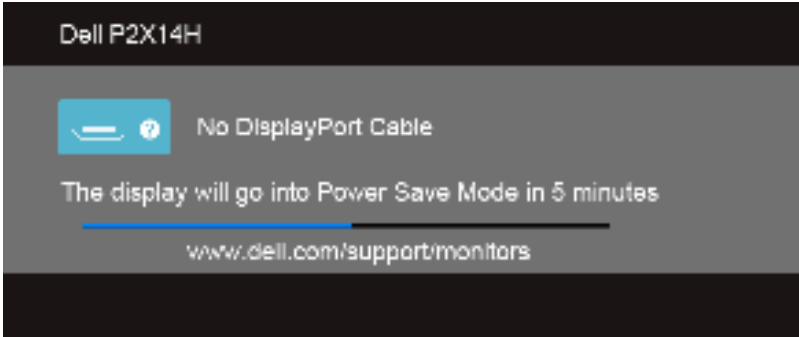
The floating dialog box should appear on-screen (against a black background), if the monitor cannot sense a video signal and is working correctly. While in self-test mode, the power LED remains white. Also, depending upon the selected input, one of the dialogs shown below will continuously scroll through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



or



or




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. Press and hold **Button 1** and **Button 4** on the side panel simultaneously for 2 seconds. A gray screen appears.
- 4. Carefully inspect the screen for abnormalities.
- 5. Press **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 and text screens.

The test is complete when the text screen appears. To exit, press **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"><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><li>• Ensure that the correct input source is selected via the <a href="#">Input Source</a> menu.</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>• Run the built-in diagnostics.</li><li>• Ensure that the correct input source is selected via the <a href="#">Input Source</a> menu.</li></ul>
Poor Focus	Picture is fuzzy, blurry, or ghosting	<ul style="list-style-type: none"><li>• Perform <b>Auto Adjust</b> via OSD.</li><li>• Adjust the <b>Phase</b> and <b>Pixel Clock</b> controls via OSD.</li><li>• Eliminate video extension cables.</li><li>• Reset the monitor to <b>Factory Settings</b>.</li><li>• Change the video resolution to the correct aspect ratio.</li></ul>
Shaky/Jittery Video	Wavy picture or fine movement	<ul style="list-style-type: none"><li>• Perform <b>Auto Adjust</b> via OSD.</li><li>• Adjust the <b>Phase</b> and <b>Pixel Clock</b> controls via OSD.</li><li>• Reset the monitor to <b>Factory Settings</b>.</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> <li>• For more information on Dell Monitor Quality and Pixel Policy, see Dell Support site at: <a href="http://www.dell.com/support/monitors">http://www.dell.com/support/monitors</a>.</li> </ul>
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> <li>• For more information on Dell Monitor Quality and Pixel Policy, see Dell Support site at: <a href="http://www.dell.com/support/monitors">http://www.dell.com/support/monitors</a>.</li> </ul>
Brightness Problems	Picture too dim or too bright	<ul style="list-style-type: none"> <li>• Reset the monitor to <b>Factory Settings</b>.</li> <li>• <b>Auto Adjust</b> via OSD.</li> <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 <b>Factory Settings</b>.</li> <li>• <b>Auto Adjust</b> via OSD.</li> <li>• Adjust horizontal &amp; vertical controls via OSD.</li> </ul> <p><b>NOTE:</b> When using DVI-D/DisplayPort input, 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 <b>Factory Settings</b>.</li> <li>• Perform <b>Auto Adjust</b> via OSD.</li> <li>• Adjust <b>Phase</b> and <b>Pixel Clock</b> 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> <li>• Run the built-in diagnostics.</li> </ul> <p><b>NOTE:</b> When using DVI-D/DisplayPort input, the <b>Pixel Clock</b> and <b>Phase</b> adjustments are not available.</p>
Synchronization Problems	Screen is scrambled or appears torn	<ul style="list-style-type: none"> <li>• Reset the monitor to <b>Factory Settings</b>.</li> <li>• Perform <b>Auto Adjust</b> via OSD.</li> <li>• Adjust <b>Phase</b> and <b>Pixel Clock</b> 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 <b>Factory Settings</b>.</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 <b>Color Setting Mode</b> in the <b>Color Settings</b> OSD to <b>Graphics</b> or <b>Video</b> depending on the application.</li> <li>• Try different <b>Color Preset Settings</b> in <b>Color Settings</b> OSD. Adjust R/G/B value in <b>Color Settings</b> OSD if the <b>Color Management</b> is turned off.</li> <li>• Change the <b>Input Color Format</b> to PC RGB or YPbPr in the <b>Advance Setting</b> OSD.</li> <li>• Run the built-in diagnostics.</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>• Check the <b>Scaling Ratio</b> setting in the <b>Image Setting</b> OSD.</li> <li>• Reset the monitor to <b>Factory Settings</b>.</li> </ul>
Cannot adjust the monitor with the buttons on the side panel	OSD does not appear on the screen	<ul style="list-style-type: none"> <li>• Turn off the monitor, unplug the power cord, plug it back, and then turn on the monitor.</li> <li>• Check whether the OSD menu is locked. If yes, press and hold the button above the Power button for 10 seconds to unlock (for more information, see <a href="#">"Lock"</a>).</li> </ul>
No Input Signal when user controls are pressed	No picture, the LED light is blue.	<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 will not be 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"><li>• Check that your monitor is turned on.</li><li>• Reconnect the upstream cable to your computer.</li><li>• Reconnect the USB peripherals (downstream connector).</li><li>• Switch off and then turn on the monitor again.</li><li>• Reboot the computer.</li><li>• Some USB devices like external portable HDD require higher electric current; connect the device directly to the computer system.</li></ul>
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"><li>• Check that your computer is USB 2.0-capable.</li><li>• Some computers have both USB 2.0 and USB 1.1 ports. Ensure that the correct USB port is used.</li><li>• Reconnect the upstream cable to your computer.</li><li>• Reconnect the USB peripherals (downstream connector).</li><li>• Reboot the computer.</li></ul>

**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 [www.dell.com/regulatory\\_compliance](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 get online Monitor support content:**

1. Visit [www.dell.com/support/monitors](http://www.dell.com/support/monitors).

**To contact Dell for sales, technical support, or customer service issues:**

1. Visit [www.dell.com/support](http://www.dell.com/support).
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.

## Setting Up Your Monitor

### Setting the display resolution

For maximum display performance with Microsoft® Windows® operating systems, set the display resolution to **1920 x 1080** pixels by performing the following steps:

In Windows® 7 and Windows® 8:

1. For Windows® 8 only, select the Desktop tile to switch to classic desktop.
2. Right-click on the desktop and click **Screen Resolution**.
3. Click the Dropdown list of the Screen Resolution and select **1920 x 1080**.
4. Click **OK**.

If you do not see the recommended resolution 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 given steps.

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](#)

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

1. Go to **www.dell.com/support**, 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.

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

In Windows® 7 and Windows® 8:

1. For Windows® 8 only, select the Desktop tile to switch to classic desktop.
2. Right-click on the desktop and click **Personalization**.
3. Click **Change Display Settings**.
4. Click **Advanced Settings**.
5. Identify your graphics controller supplier from the description at the top of the window (e.g. NVIDIA, ATI, Intel etc.).
6. Refer to the graphic card provider website for updated driver (for example, <http://www.ATI.com> OR <http://www.NVIDIA.com>).
7. 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 recommended resolution, please contact the manufacturer of your computer or consider purchasing a graphics adapter that will support the video resolution.