

Dell™ U2410 Flat Panel Monitor User's Guide

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Notes, Cautions, and Warnings

Throughout this guide, blocks of text may be accompanied by an icon and printed in bold type or in italic type. These blocks are notes, notices, and cautions, and they are used as follows:

 **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.

Some warnings may appear in alternate formats and may be unaccompanied by an icon. In such cases, the specific presentation of the caution is mandated by regulatory authority.

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Model U2410f

May 2011 Rev. A06

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About Your Monitor

Dell™ U2410 Flat Panel Monitor User's Guide

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Package Contents

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

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

	1 Monitor
	1 Stand
	1 Power Cable

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

Product Features

The **U2410** flat panel display has an active matrix, thin-film transistor (TFT), liquid crystal display (LCD). The monitor features include:

- 24-inch (518.4 mm x 324 mm) viewable area display measured diagonally.
- 1920 x 1200 resolution, plus full-screen support for lower resolutions.
- Wide viewing angle to allow viewing from a sitting or standing position, or moving side-to-side.
- Tilt, swivel, rotation and height adjustment capabilities.
- Removable pedestal and Video Electronics Standards Association (VESA) 100 mm mounting holes for flexible mounting solutions.
- Plug and Play capability if supported by your system.
- On-Screen Display (OSD) adjustments for ease of set-up and screen optimization.
- Software and documentation CD includes an information file (INF), Image color Matching File (ICM), and product documentation.
- Security lock slot.

Identifying Parts and Features

Front View



Front View

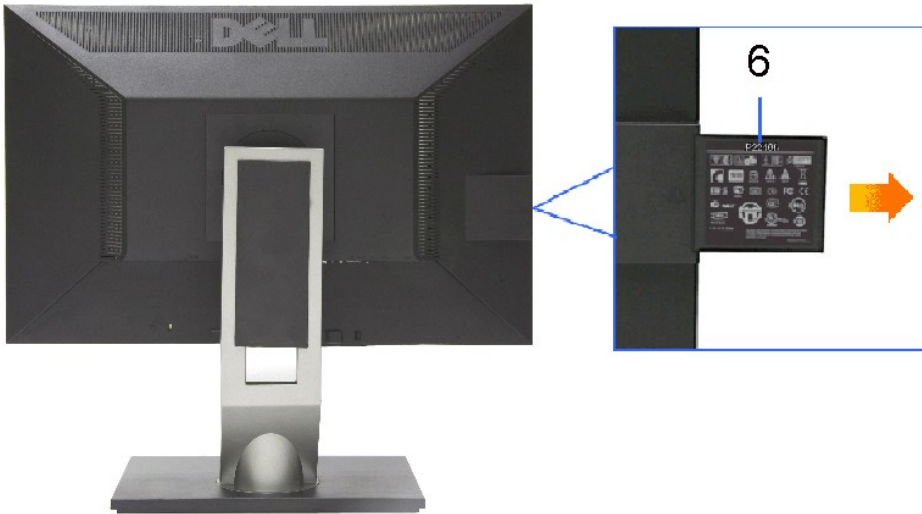
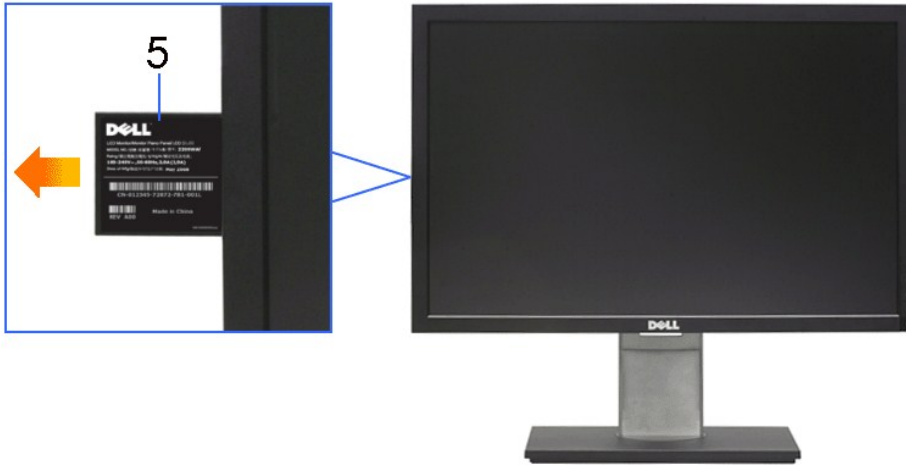
Control Panel

Label	Description
	Shortcut keys
1-3	*The default settings are Preset Modes Select, Brightness/Contrast Select and Input Source Select.
1	Preset Modes Select
2	Brightness/Contrast Select
3	Input Source Select
4	OSD Menu Select
5	Exit
6	Power Button (with power light indicator)

NOTE: 1~5 buttons are capacitive touch buttons, which are activated by placing your finger on the blue LED.

Back View



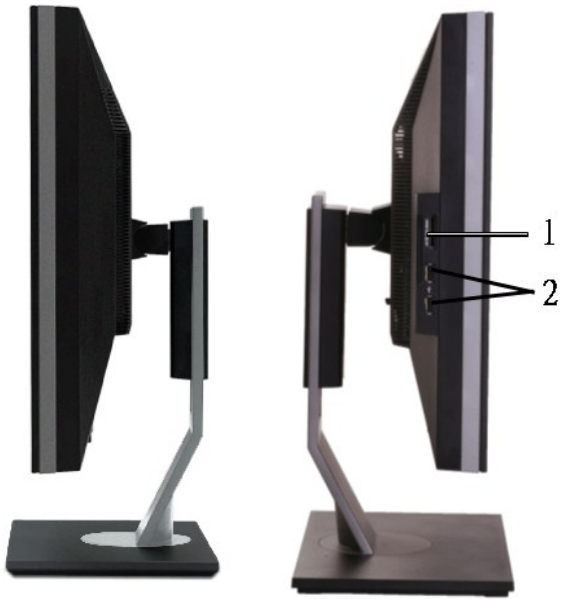


Back View

Back View with monitor stand

	Label	Description/Use
1	VESA Mounting Holes (100mm) (Behind attached VESA Plate)	To mount the monitor.
2	Connectors Label	To indicate the positions and types of connectors.
3	Security Lock Slot	To help secure your monitor.
4	Dell Soundbar Mounting Brackets	To attach the optional Dell Soundbar.
5	Barcode Serial Number Label	To contact Dell for technical support.
6	Regulatory Rating Label	Lists the regulatory approvals.
7	Cable Management Slot	To organize cables by placing them through the slot.

Side View

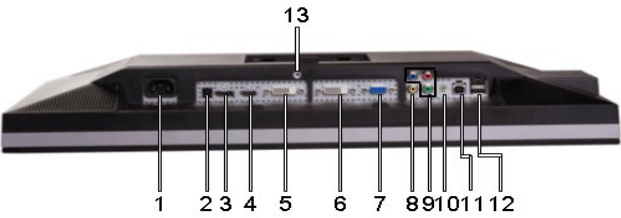
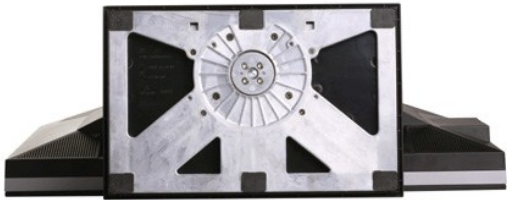


Right View

Left View

Label	Description
1	Card Reader. See Card Reader Specifications for more information.
2	USB Down Stream Ports

Bottom View



Bottom View

Label	Description
1	AC Power Cord Connector
2	DC Power Connector for Dell™ Soundbar

- 3 DisplayPort Connector
- 4 HDMI Connector
- 5 DVI Connector-1
- 6 DVI Connector-2
- 7 VGA Connector
- 8 Composite Video Connector
- 9 Component Video Connectors
- 10 Audio Out (Support two channel output)
- 11 USB Upstream Port
- 12 USB Downstream Port
- 13 Stand Lock (Use a M3x14 threaded screw to lock stand, screw not provided)

Monitor Specifications

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

Power Management Modes

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

VESA Modes	Horizontal Sync	Vertical Sync	Video	Power Indicator	Power Consumption
Normal operation (with max luminance, Dell Soundbar and USB active)	Active	Active	Active	Blue	132 W (Maximum)
Normal operation	Active	Active	Active	Blue	75 W (Typical)
Active-off mode	Inactive	Inactive	Blanked	Amber	Less than 1 W
Switch off	-	-	-	Off	Less than 1 W

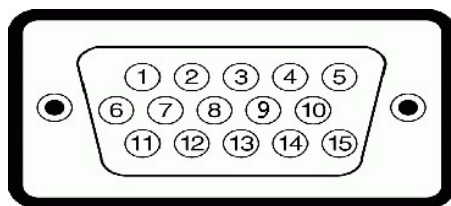
Activate the computer and wake up the monitor to gain access to the [OSD](#).

NOTE: This monitor is TCO' 03 power management compatible.

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

Pin Assignments

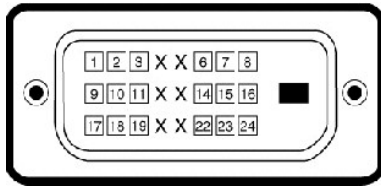
VGA Connector



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 5V/3.3V
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	+5V/+3.3V 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-

Composite Video Connector



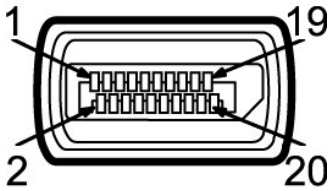
Luma composite chroma

Component Video Connector



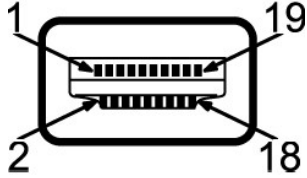
Pin Number	3-pin Side of the Connected Signal Cable (Cable not included)
1	Y (Luminance signal)
2	Pb (Color differential signal)
3	Pr (Color differential signal)

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	HPD
19	Re-PWR
20	PWR

HDMI Connector



Pin Number	19-pin Side of the Connected Signal Cable
1	TMDS DATA 2+
2	TMDS DATA 2 SHIELD
3	TMDS DATA 2-
4	TMDS DATA 1+
5	TMDS DATA 1 SHIELD
6	TMDS DATA 1-
7	TMDS DATA 0+
8	TMDS DATA 0 SHIELD
9	TMDS DATA 0-
10	TMDS CLOCK
11	TMDS CLOCK SHIELD
12	TMDS CLOCK-
13	Floating
14	Floating
15	DDC CLOCK (SDA)
16	DDC DATA (SDA)
17	GROUND
18	+5V POWER
19	HOT PLUG DETECT

Flat Panel Specifications

Screen type	Active matrix - TFT LCD
Panel type	IPS
Screen dimensions	24 inches (24-inch diagonal viewable image size)
Preset display area:	
Horizontal	518.4mm (20.41 inches)
Vertical	324.0mm (12.75 inches)
Pixel pitch	0.27mmx0.27mm
Viewing angle	178° (Vertical) typical, 178° (Horizontal) typical
Luminance output	400 cd/m ² (typ)
Contrast ratio	1000:1 (typ), 80,000:1 (Max, Dynamic Contrast on)
Faceplate coating	Antiglare with hard-coating 3H
Backlight	7 CCFL U-type system
Response Time	6ms panel typical (Grey to Grey)
Color Gamut	110 % (typ.)

* U2410 Color Gamut (Typical) is based on CIE1976 (110%) and CIE1931 (102%) .

Resolution

Horizontal scan range	30 kHz to 81 kHz (automatic)
Vertical scan range	56 Hz to 76 Hz
Maximum resolution	1920 x 1200 at 60 Hz

Video Supported Modes

Video display capabilities (DVI playback) 480i/480p/576i/576p/720p/1080i/1080p (Supports HDCP)

Video display capabilities (Composite playback) NTSC/PAL

Video display capabilities (HDMI playback) 480i/480p/576i/576p/720p/1080i/1080p

Video display capabilities (Component playback) 480i/480p/576i/576p/720p/1080i/1080p

Preset Display Modes

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

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal/Vertical)
VGA, 720 x 400	31.5	70.1	28.3	-/+
VGA, 640 x 480	31.5	59.9	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, 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, 1600 x 1200	75.0	60.0	162.0	+/+
VESA, 1920 x 1200	74.5	60.0	154.0	+/-


Electrical

The following table lists the electrical specification:

Video input signals	Analog RGB, 0.7 Volts +/-5%, 75 ohm input impedance Digital DVI-D TMDS, 600mV for each differential line, 50 ohm input impedance HDMI, 600mV for each differential line, 100 ohm input impedance per differential pair DisplayPort, 600mV for each differential line, 100 ohm input impedance per differential pair Composite, 1 volt(p-p), 75 ohm input impedance Component: Y, Pb, Pr are all 0.5~1volt(p-p), 75 ohm input impedance
Synchronization input signals	separate horizontal and vertical, 3.3V CMOS or 5V TTL level, positive or negative sync. SOG (Sync on green)
AC input voltage/frequency/current	100 to 240 VAC/50 or 60 Hz \pm 3 Hz/2.0A (Max.)
Inrush current	120V: 40A (Max.) 240V: 80A (Max.)

Physical Characteristics

The following table lists the physical characteristics:

Connector type	<ul style="list-style-type: none"> 1 VGA: Blue Connector 1 DVI-D: White Connector 1 DisplayPort: Black Connector 1 Composite 1 Component 1 HDMI
Signal cable type	<ul style="list-style-type: none"> 1 D-sub: Detachable, Analog, 15pin, shipped attached to the monitor 1 DVI-D: Detachable, Digital, 24pin, shipped detached from the monitor 1 DisplayPort: Detachable, Digital, 20pin, shipped detached from the monitor 1 Composite 1 Component 1 HDMI <p> NOTE: The composite, component and HDMI cables are not included with the monitor.</p>
Dimensions (with stand)	
Height (Compressed)	393.0mm (15.47 inches)
Height (Extended)	493.0 mm (19.40 inches)
Width	559.7 mm (22.03 inches)
Depth	201.5 mm (7.93 inches)
Dimensions (without stand)	
Height	365.1mm (14.37 inches)
Width	559.7 mm (22.03 inches)
Depth	81.0 mm (3.18 inches)
Stand Dimensions	
Height (Compressed)	340.7 mm (13.41 inches)
Height (Extended)	370.7 mm (14.59 inches)
Width	309.7 mm (12.19 inches)
Depth	201.5 mm (7.93 inches)
Weight	
Weight with packaging	11.60 kg (25.64 lb)
Weight with stand assembly and cables	9.57 kg (19.93 lb)
Weight without stand assembly (For wall mount or VESA mount considerations - no cables)	6.50 kg (14.30 lb)
Weight of stand assembly	2.41 kg (5.30 lb)

Environmental

The following table lists the environmental limitation:

Temperature	
Operating	0° to 40°C (32° to 104°F)
Non-Operating	Storage: -20° to 60°C (-4° to 140°F) Shipping: -20° to 60°C(-4° to 140°F)
Humidity	

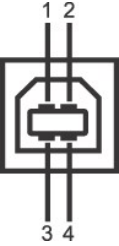
Operating	10% to 80% (noncondensing)
Non-Operating	Storage: 5% to 90% (noncondensing) Shipping: 5% to 90%(noncondensing)
Altitude	
Operating	3,657.6 m (12,000 ft) max
Non-Operating	12,192 m (40,000 ft) max
Thermal dissipation	
	375 BTU/hour (maximum) 195 BTU/hour (typical)

Universal Serial Bus (USB) Interface

This monitor supports High-Speed Certified USB 2.0 Interface.

Transfer speed	Data Rate	Power Consumption
High speed	480 Mbps	2.5W (Max., each port)
Full speed	12 Mbps	2.5W (Max., each port)
Low speed	1.5 Mbps	2.5W (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 Signal Cable
1	VCC
2	DMD
3	DPD
4	GND

USB Ports

- 1 1 upstream - rear
- 1 4 downstream - 2 on rear; 2 on left side

NOTE: The monitor's 2.0 USB interface functions only if the computer is USB 2.0 compatible.

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

Card Reader Specifications

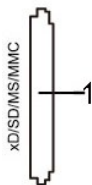
Overview

- 1 The Flash Memory Card Reader is a USB storage device that allows users to read and write information from and into the memory card.
- 1 The Flash Memory Card Reader is automatically recognized by Microsoft® Windows® 2000, Windows® XP, Windows® Vista and Windows® 7.
- 1 Once installed and recognized, each separate memory card (slot) appears as a separate drive/drive letter.
- 1 All standard file operations (copy, delete, drag-and-drop, etc.) can be performed with this drive.

Features

The Flash Memory Card Reader has the following features:

- 1 Supports Microsoft® Windows® 2000, Windows® XP, Windows® Vista and Windows® 7 operating systems
- 1 No Microsoft® Windows® 9X support from Dell
- 1 Mass Storage Class device (No drivers are required under Microsoft® Windows® 2000, Windows® XP, Windows® Vista and Windows® 7)
- 1 USB-IF certification
- 1 Supports various memory card media



The following table lists the memory cards supported:

Slot Number	Flash memory cards type
1	xD-Picture Card Memory Stick Card (MS)/High Speed Memory Stick (HSMS)/Memory Stick Pro Card (MS PRO)/Memory Stick Duo (with Adapter) Secure Digital Card (SD)/Mini Secure Digital (with Adapter)/TransFlash Card (with Adapter) MultiMedia Card (MMC)/Reduced Size MultiMedia Card (with Adapter)

Maximum Card Capacity Supported by the U2410 card reader

Card type	Support Specification	Memory Card Spec Version	Support Maximum Capacity by Spec	U2410
MS	Memory Stick Standard Format Specification	1.43	128MB	Supported
MSPRO	Memory Stick Pro Standard Format Specifications	1.02	32GB	Supported
MSDuo	Memory Stick Duo Standard Format Specifications	1.10	128MB/32GB	Supported
MSDuo-HG	Memory Stick Duo Standard Format Specifications	1.01	32GB	Supported
xD	xD Picture Card Specification	1.2	2GB	Supported
SD	SD Memory Card Specifications	2.0	32GB	Supported
MMC	MultiMedia Card System Specification	4.2	32GB	Supported

NOTE: MSPRO includes MSPRO Duo and MS Micro.

NOTE: xD includes TypeM and TypeH.

NOTE: SD includes HS-SD, MiniSD and SD Micro. SD v2.0 spec includes SDHC.

NOTE: MMC includes MMCPlus, RS-MMC, MMC Mobile and MMC micro.

General

Connection type USB 2.0 High Speed Device (USB Full Speed Device compatible)

Supported OS Microsoft® Windows® 2000, Windows® XP, Windows® Vista and Windows® 7

Performance

Transfer Speed	Read: 480 Mb/s (max.)
	Write: 480 Mb/s (max.)

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. If required, the user can select different settings, but in most cases monitor installation is automatic.

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: support.dell.com.

Maintenance Guidelines

Caring for Your Monitor

-  **WARNING:** Read and follow the [Safety Instructions](#) before cleaning the monitor.
-  **WARNING:** Before cleaning the monitor, unplug the monitor from the electrical outlet.

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

- 1 To clean your antistatic screen, lightly dampen a soft, clean cloth with water. If possible, use a special screen-cleaning tissue or solution suitable for the antistatic coating. Do not use benzene, thinner, ammonia, abrasive cleaners, or compressed air.
 - 1 Use a lightly dampened, warm cloth to clean the plastics. Avoid using detergent of any kind as some detergents leave a milky film on the plastics.
 - 1 Handle your monitor with care as dark-colored monitors may scratch and show white scuff marks more than lighter-colored monitors.
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Appendix

Dell™ U2410 Flat Panel 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 *Safety Information*.


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

For FCC notices and other regulatory information, see the regulatory compliance website located at www.dell.com/regulatory_compliance.

Contacting Dell

To contact Dell electronically, you can access the following websites and by phone:

- 1 For support through the web, go to support.dell.com.
- 1 For customers in the United States, call 800-WWW-DELL (800-999-3355).

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

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

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

Dell™ U2410 Flat Panel Monitor

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

1. Go to <http://support.dell.com>, enter your service tag, and download the latest driver for your graphics card.
2. After installing the drivers for your Graphics Adapter, attempt to set the resolution to **1920 x 1200** again.

 **NOTE:** If you are unable to set the resolution to 1920 x 1200, please contact Dell™ to inquire about a Graphics Adapter that supports these resolutions.

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Setting Up Your Monitor

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If you have non Dell™ desktop, portable computer, or graphic card

1. Right-click on the desktop and click **Properties**.
2. Select the **Settings** tab.
3. Select **Advanced**.
4. Identify your graphics controller supplier from the description at the top of the window (e.g. NVIDIA, ATI, Intel etc.).
5. Please refer to the graphic card provider website for updated driver (for example, <http://www.ATI.com> OR <http://www.NVIDIA.com>).
6. After installing the drivers for your Graphics Adapter, attempt to set the resolution to **1920 x 1200** again.

 **NOTE:** If you are unable to set the resolution to 1920 x 1200, please contact the manufacturer of your computer or consider purchasing a graphics adapter that will support the video resolution of 1920 x 1200.

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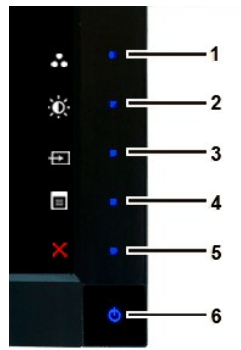
Operating the Monitor

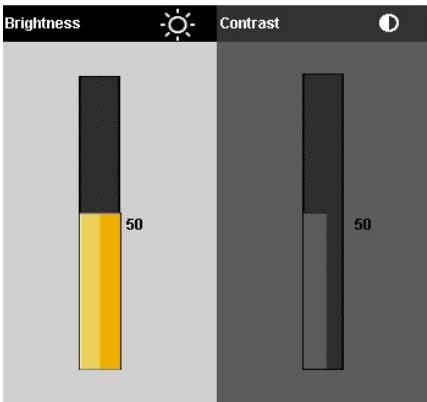



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- [Using the Front Panel Controls](#)
- [Using the On-Screen Display \(OSD\) Menu](#)
- [Setting the Maximum Resolution](#)
- [Using the Dell Soundbar \(Optional\)](#)
- [Using the Tilt, Swivel and Vertical Extension](#)
- [Rotating the monitor](#)
- [Adjusting the Rotation Display Settings of Your System](#)




Using the Front Panel

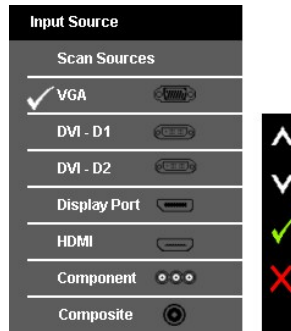
Use the buttons on the front of the monitor to adjust the image settings. 1–5 are capacitive touch sensor keys, activated by placing the finger on the Blue LED button.



1-3	<p>Shortcut keys</p>	<p>Use this key for direct access to the control menu that you define in the personalize menu.</p> <p>For example, use the second shortcut key to activate Brightness/Contrast adjustment.</p>  <p>*The default settings are Preset Modes Select, Brightness/Contrast Select and Input Source Select.</p>
1	 Preset Modes Select	<p>Use this button to select different image modes on your monitor.</p>
2	 Brightness/Contrast	<p>Use this button for direct access to the "Brightness/Contrast" control menu.</p>
3	 Input Source Select	<p>Use Input Source Select button to select between different video signals that may be connected to your monitor.</p> <ul style="list-style-type: none"> VGA input DVI-D 1 input DVI-D 2 input DisplayPort input

- 1 HDMI input
- 1 Component video input
- 1 Composite video input

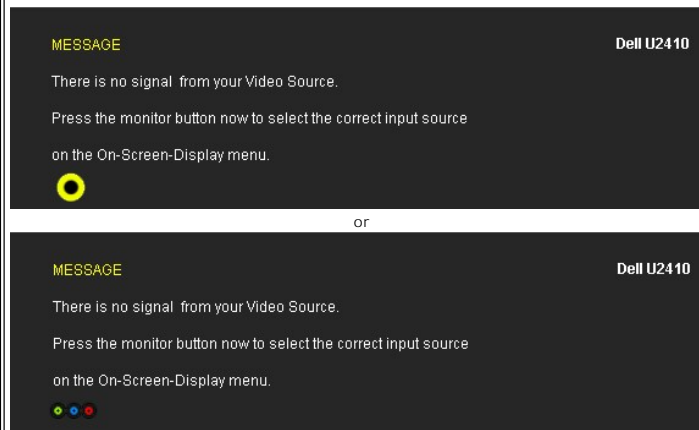
Displays the source selection bar. Touch  and  buttons to move between the setting options and Touch  to select the i source you want.





If VGA or DVI-D or DisplayPort or HDMI input is selected and all VGA and DVI-D and DisplayPort and HDMI cables are not connect floating dialog box as shown below appears.





If either Composite, or Component input is selected and the cables are not connected or the video source is turned off, the scr not have an image. If any button is Touched (except power button), the monitor displays the following message:



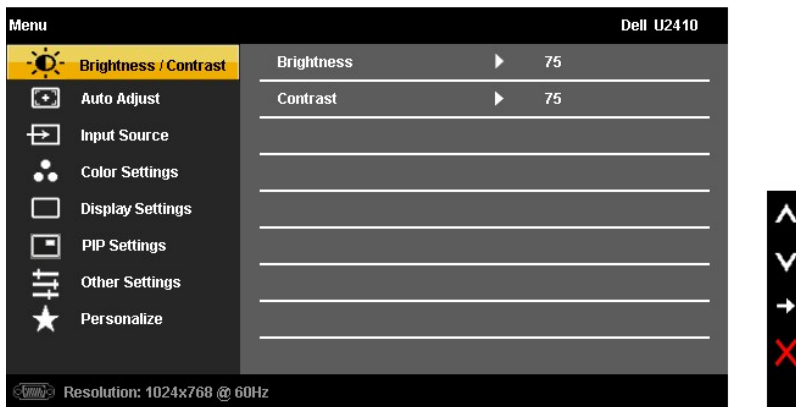
5	 Exit	Use this key to exit the OSD menu.
6	 Power button (with power light indicator)	Use the power button to turn the monitor on and off. The Blue LED indicates the monitor is on and fully functional. An amber LED indicates DPMS power save mode.

Using the OSD Menu

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

1. Touch  to launch the OSD menu and display the main menu.


Main Menu for Analog (VGA) Input












Or


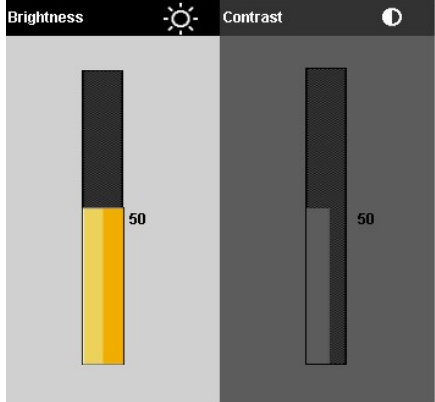









Main Menu for non Analog (non VGA) Input

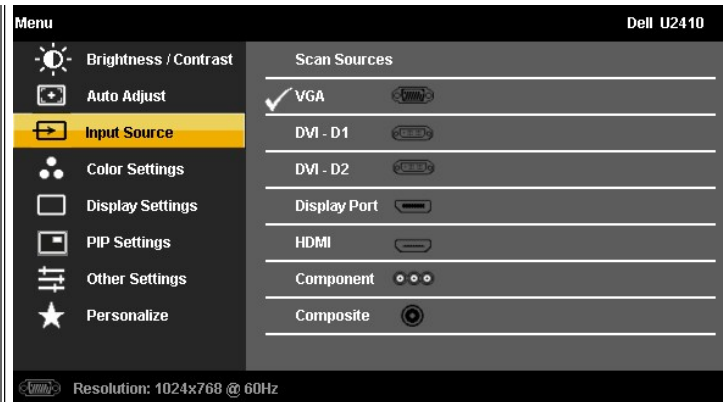


 **NOTE:** Auto Adjust is only available when you are using the analog (VGA) connector.

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

6. Touch  return to the main menu or  to exit the OSD menu.

Icon	Menu and Submenus	Description
	Brightness/Contrast	<p>Allows you to adjust the brightness and contrast.</p>  <p>Brightness Brightness adjusts the luminance of the backlight. Touch the  button to increase brightness and Touch the  button to decrease brightness (min 0 ~ max 100).</p> <p>Contrast Adjust Brightness first, and then adjust Contrast only if further adjustment is necessary. Touch the  button to increase contrast and Touch the  button to decrease contrast (min 0 ~ max 100). The Contrast function adjusts the degree of difference between the darkest and lightest areas on the monitor screen.</p> <p>Back Touch  to go back to the main menu.</p>
	Auto Adjust	<p>Even though your computer recognizes your monitor on startup, the Auto Adjustment function optimizes the display</p>   <p>NOTE: In most cases, Auto Adjust produces the best image for your configuration. This option is only available when connected to the monitor.</p>
	Input Source	<p>The Input Source menu is to select between different video signals that may be connected to your monitor.</p>



Scan Sources Scan for Sources, touch ✓ to scan for available input signals.



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



DVI-D 1 & 2 Select DVI-D input when you are using the Digital (DVI) connector. Touch ✓ to select the DVI input source.



DisplayPort Select DisplayPort input when you are using DisplayPort connector. Touch ✓ to select the DisplayPort input source



HDMI Select HDMI input when you are using HDMI connector. Touch ✓ to select the HDMI input source.



Component Select Component input when you are using component video connector. Touch ✓ to select the component input s



Composite Select Composite input when you are using composite video connector. Touch ✓ to select the composite input sou

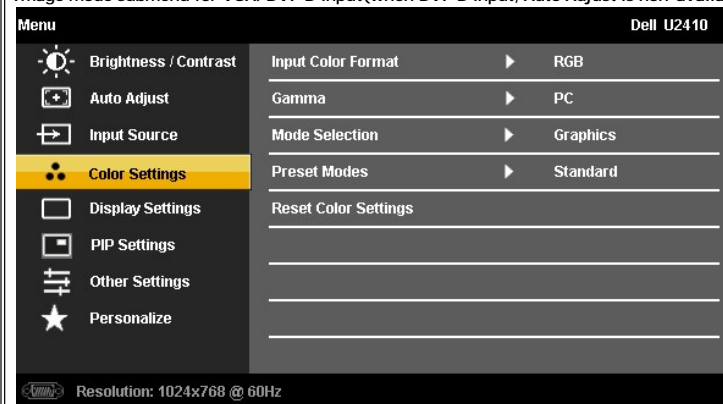
Back Touch ↶ to go back to the main menu.



Color Settings

Allows you to set the image mode and color format.

Image mode submenu for VGA/DVI-D input (when DVI-D input, Auto Adjust is non-available)



NOTE: Image modes are different between the VGA/DVI-D and Video inputs.

Input Color Format Choose the RGB option if monitor is connected to a computer or a DVD using a VGA or DVI cable. Choose the YPbPr (output setting is not RGB).

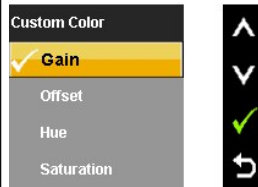
Gamma Allows you to set the color mode to PC or MAC.

Mode Selection Allows you to set the display mode to Graphics or Video. If your computer is connected to your monitor, choose Graf

Preset modes

VGA/DVI-D1/ DVD-D2/HDMI/DP input

- Standard** Mode suitable for desktop applications.
- Multimedia** Mode for multimedia applications, eg video playback.
- Game** Mode suitable for gaming applications. Use this mode for minimal input lag.
- Warm** Select warm mode to obtain a red tint. This color setting is typically used for color-intensive applications (photograph)
- Cool** Select cool mode to obtain a bluish tint. This color setting is typically used for text based applications (spreadsheets)
- Adobe RGB** This mode is compatible with Adobe RGB (96 % coverage).
- sRGB** Emulates 72 % NTSC color.
- Custom Color** This mode allows users to have full control of the monitor's advance 6-axis color adjustments.



Use the **▼** or **▲** button to select the Gain, Offset, Hue, Saturation.

Gain: Select it to adjust input RGB signal gain level (default value are 100).

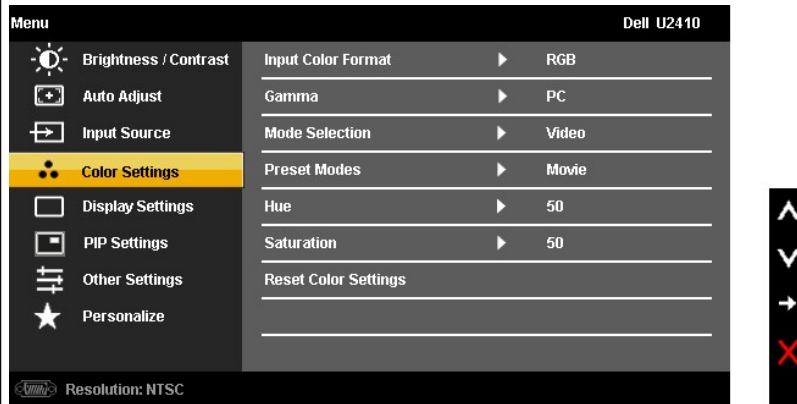
Offset: Select it to adjust RGB black-level offset value (default value are 50) to control your monitor base color.

Hue: Select it to adjust RGBCMY hue value individually.

Saturation: Select it to adjust RGBCMY saturation value individually.

Video input

Image mode submenu for Video input




- Movie** Mode suitable for movie playback.
- Game** Mode suitable for game applications.
- Nature** Mode suitable for nature scenes.
- xvMode** Mode suitable for xvYCC compliance source.

Hue This feature can make the video image color shift from green to purple. Use this feature to adjust the skin tone. Use **▼** increases the green hue in the image **▲** increases the purple hue in the image
NOTE: Hue adjustment is only available for video input.

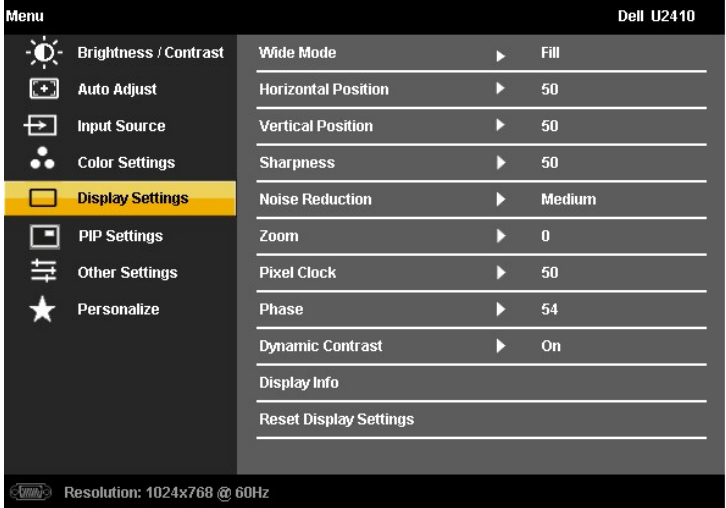
Saturation Allows you to adjust the color saturation of the video image. Use **▼** or **▲** button to adjust the saturation from '0'
▼ makes video image looks monochrome
▲ makes video image looks colorful
NOTE: Saturation adjustment is only available for video input.

Reset Color Settings Returns your monitor color settings to those that were set at the time of manufacture.



Back Touch  to go back to the main menu.



Display Settings



Use the Display Settings to adjust image.





Wide Mode Adjusts the image ratio as 1:1, Aspect or full screen.
NOTE: Wide Mode adjustment is not required at optimal preset resolution 1920 x 1200.



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

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

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

Noise Reduction Improve the motion picture quality by reducing noise on image edge.

Zoom Use the Zoom function to zoom in to specific area of interest.
Using the  and  keys to zoom in and out.


Pixel Clock The Phase and Pixel Clock adjustments allow you to adjust your monitor to your preference.
Use the  and  buttons to adjust for best image quality.

Phase If satisfactory results are not obtained using the Phase adjustment, use the Pixel Clock (coarse) adjustment and th
NOTE: Pixel Clock and Phase Adjustments are only available for "VGA" input.

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

Display Info Displays the monitor's current settings.

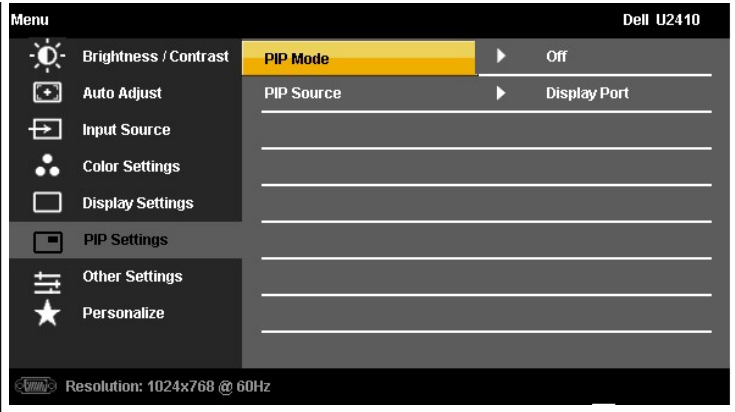
Reset Display Settings Select this option to restore default display settings.

Back Touch  to go back to the main menu.

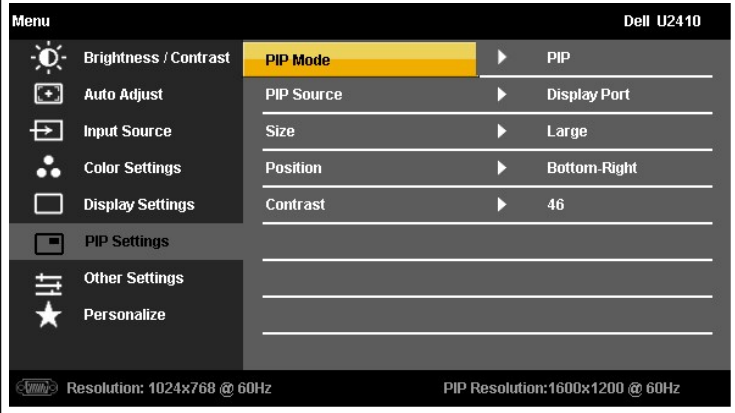
PIP Settings

This function brings up a window displaying image from another input source.

PIP/PBP submenu when PIP/PBP OFF (main source is VGA/DVI-D input) PIP/



PIP/PBP submenu when PIP/PBP ON (main source is VGA/DVI-D input)



NOTE: When using DVI source, the Auto adjustment is not available.

PIP Mode

There are two modes: Picture in Picture (PIP) and Picture by Picture (PBP)
Use **▼** and **▲** to browse and **✓** to select "Off", "PIP" or "PBP".

When PIP/PBP activated

When PIP/PBP is activated, select "Swap" to exchange the input source for the main screen and PIP/PBP window.

PIP Source

Select an input signal for PIP/PBP. (VGA/DVI-D 1/DVI-D 2/DP (DisplayPort)/HDMI/Composite/Component)
Use **▼** and **▲** to browse and **✓** to select.

Size

Select PIP window size.
Use **▼** and **▲** to browse and **✓** to select.

Position

Select PIP window position.
Use **▼** and **▲** to browse and **✓** to select.

Contrast

Adjust the contrast level of the picture in PIP/PBP Mode.
▼ reduces the contrast
▲ increases the contrast

Hue


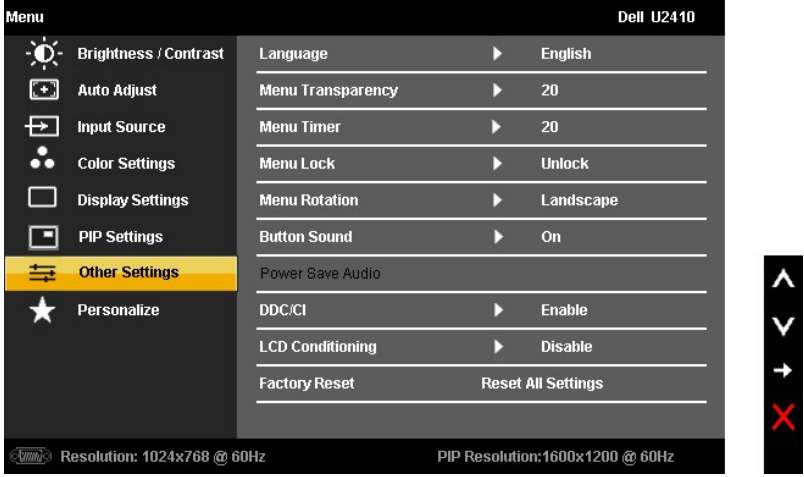
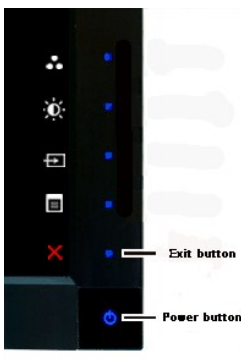
This function shifts the color of PIP/PBP image to green or purple. This is used to adjust for desired flesh tone color.
▼ shifts image color towards green
▲ shifts image color towards purple






Saturation

Adjust the color saturation of PIP/PBP image.
▼ makes the image look more monochrome
▲ makes the image look more colorful

Back

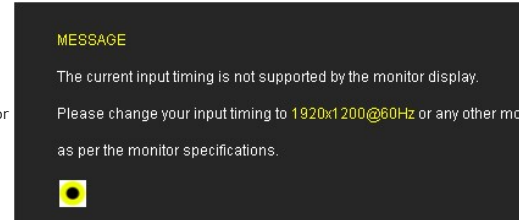
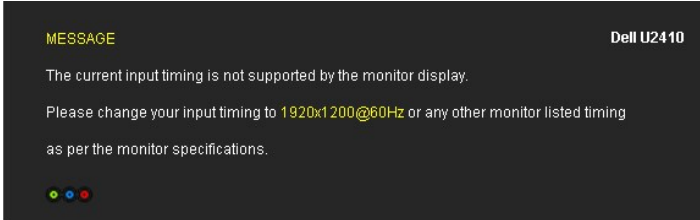
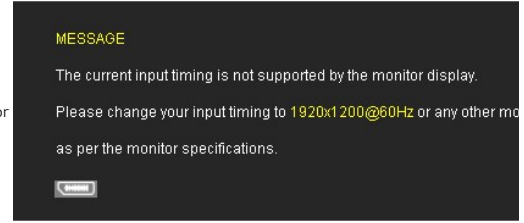
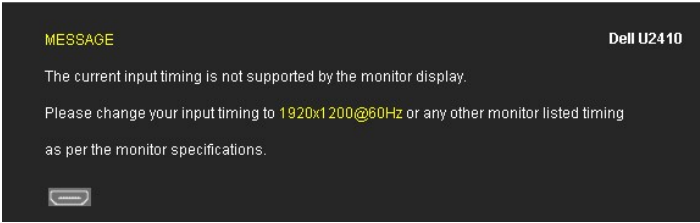
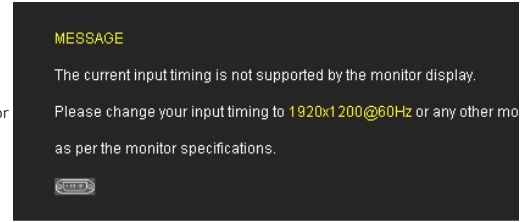
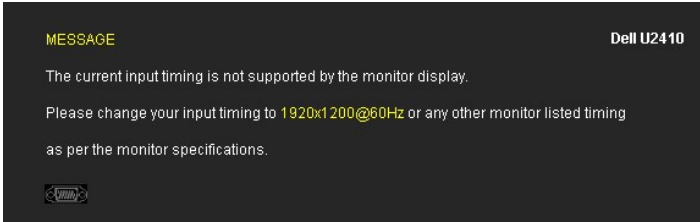
Touch **↶** to go back to the main menu.

	<p>Other Settings</p>	<p>Select this option to adjust the settings of the OSD, such as, the languages of the OSD, the amount of time the me</p>  <p>Language Language option to set the OSD display to one of eight languages (English, Espanol, Francais, Deutsch, Japanese, E</p> <p>Menu Transparency Allows you to adjust the OSD background from opaque to transparent.</p> <p>Menu Timer OSD Hold Time: Sets the length of time the OSD will remain active after the last time you Touched a button. Use the ∨ and ∧ buttons to adjust the slider in 5 second increments, from 5 to 60 seconds.</p> <p>Menu Lock Controls user access to adjustments. When lock, no user adjustments are allowed. All buttons are locked. To unloc button) for 15 sec.</p>  <p>NOTE: Menu lock can also be activated by touching the Exit button (located above power button) for 15 sec. Touch</p> <p>Menu Rotation Rotates the OSD by 90 degrees counter-clockwise. Your can adjust the menu according to your rotating your monit</p> <p>NOTE: Menu Rotation is not available when PIP/PBP is on.</p> <p>Button Sound The monitor beeps everytime a new option is selected in the menu. This button enables or disables the sound.</p> <p>Power Save Audio Turns the Audio Power on or off during power save mode.</p> <p>DDC/CI DDC/CI (Display Data Channel/Command Interface) allows your monitor parameters (brightness, color balance etc) can disable this feature by selecting "Disable". Enable this feature for best user experience and optimum performance of your monitor.</p>
	<p>Language</p> <p>Menu Transparency</p> <p>Menu Timer</p> <p>Menu Lock</p> <p>Menu Rotation</p> <p>Button Sound</p> <p>Power Save Audio</p> <p>DDC/CI</p>	<p>Language option to set the OSD display to one of eight languages (English, Espanol, Francais, Deutsch, Japanese, E</p> <p>Allows you to adjust the OSD background from opaque to transparent.</p> <p>OSD Hold Time: Sets the length of time the OSD will remain active after the last time you Touched a button. Use the ∨ and ∧ buttons to adjust the slider in 5 second increments, from 5 to 60 seconds.</p> <p>Controls user access to adjustments. When lock, no user adjustments are allowed. All buttons are locked. To unloc button) for 15 sec.</p> <p>Rotates the OSD by 90 degrees counter-clockwise. Your can adjust the menu according to your rotating your monit</p> <p>The monitor beeps everytime a new option is selected in the menu. This button enables or disables the sound.</p> <p>Turns the Audio Power on or off during power save mode.</p> <p>DDC/CI (Display Data Channel/Command Interface) allows your monitor parameters (brightness, color balance etc) can disable this feature by selecting "Disable". Enable this feature for best user experience and optimum performance of your monitor.</p>

		<div data-bbox="548 191 976 499"> <p>MESSAGE Dell U2410</p> <p>The function of adjusting display settings using PC application will be disabled.</p> <p>Do you wish to disable DDC/CI function?</p> <p style="text-align: center;">No</p> <p style="text-align: center;">Yes</p> </div> <p>LCD Conditioning If an image appears to be stuck on the monitor, select LCD Conditioning to help eliminate any image retention. Use several hours. Severe cases of image retention are known as burn-in, the LCD Conditioning feature does not remove</p> <div data-bbox="548 562 976 871"> <p>MESSAGE Dell U2410</p> <p>The feature will help reduce minor cases of image retention. Depending on the degree of image retention, the program may take some time to run.</p> <p>Do you want to continue?</p> <p style="text-align: center;">No</p> <p style="text-align: center;">Yes</p> </div> <div data-bbox="548 894 1057 968"> <p>LCD Conditioning is currently in progress, press any button on the monitor to terminate LCD Conditioning at any time.</p> </div> <p>Factory Reset Reset all OSD settings to the factory preset values.</p> <p>Back Touch  to go back to the main menu.</p>																								
★	Personalize	<p>There are three shortcut keys on the front panel. Select one control menu for each shortcut key to allow direct access</p> <div data-bbox="548 1188 1325 1591"> <p>Menu Dell U2410</p> <table border="1"> <tr> <td> Brightness / Contrast</td> <td>Shortcut Key 1</td> <td>▶ Preset Modes</td> </tr> <tr> <td> Auto Adjust</td> <td>Shortcut Key 2</td> <td>▶ Brightness/Contrast</td> </tr> <tr> <td> Input Source</td> <td>Shortcut Key 2</td> <td>▶ Input Source</td> </tr> <tr> <td> Color Settings</td> <td></td> <td></td> </tr> <tr> <td> Display Settings</td> <td></td> <td></td> </tr> <tr> <td> PIP Settings</td> <td></td> <td></td> </tr> <tr> <td> Other Settings</td> <td></td> <td></td> </tr> <tr> <td> Personalize</td> <td></td> <td></td> </tr> </table> <p style="text-align: center;">Resolution: 1024x768 @ 60Hz PIP Resolution:1600x1200 @ 60Hz</p> <div style="text-align: right;">     </div> </div>	Brightness / Contrast	Shortcut Key 1	▶ Preset Modes	Auto Adjust	Shortcut Key 2	▶ Brightness/Contrast	Input Source	Shortcut Key 2	▶ Input Source	Color Settings			Display Settings			PIP Settings			Other Settings			Personalize		
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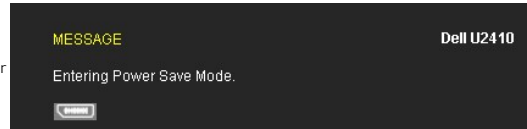
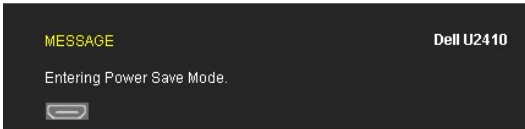
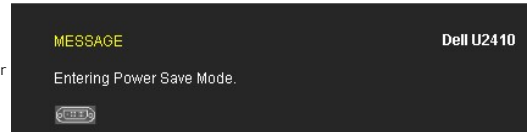
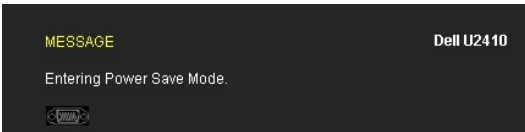
OSD Warning Messages

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



This means that the monitor cannot synchronize with the signal that it is receiving from the computer. See [Monitor Specifications](#) for the Horizontal and Vertical frequencies addressable by this monitor. Recommended mode is 1920 X 1200.

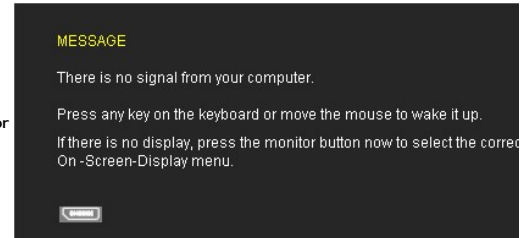
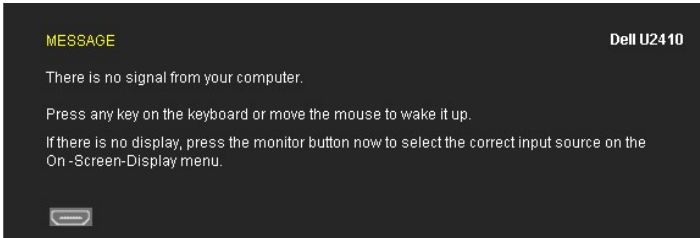
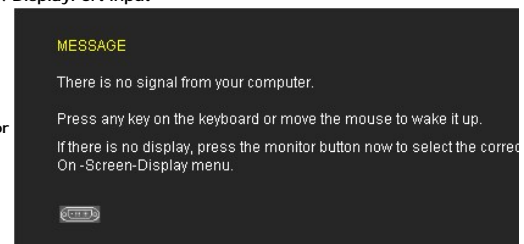
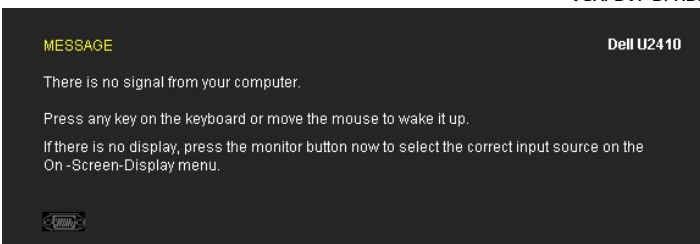
When monitor enters Power Save mode, the following message appears :



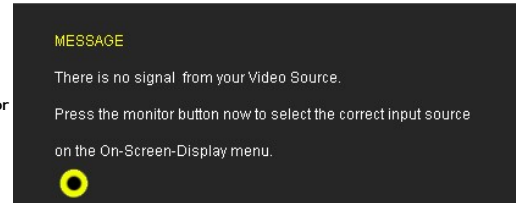
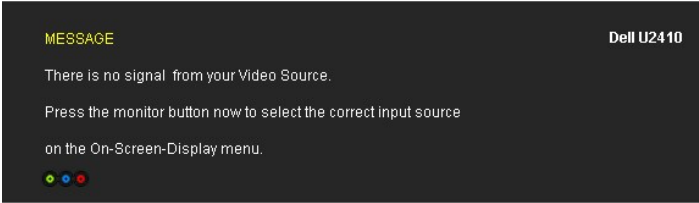
Activate the computer and wake up the monitor to gain access to the [OSD](#).

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

VGA/DVI-D/HDMI/DisplayPort input



Video Input



In PIP mode, when the monitor does not sense the selected second signal input, one of the following messages will appear depending upon the selected input as long as the OSD screen is closed.

1. VGA



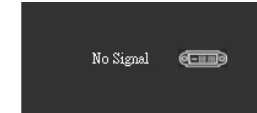
or

2. DVI -D 1



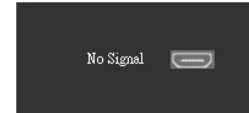
or

3. DVI -D 2



or

4. HDMI



5. DisplayPort



or

6. Composite



or

7. Component



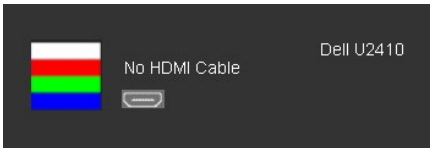
If either VGA, DVI-D, HDMI or DisplayPort input is selected and all VGA, DVI-D, HDMI and DisplayPort cables are not connected, a floating dialog box as shown below will appear.



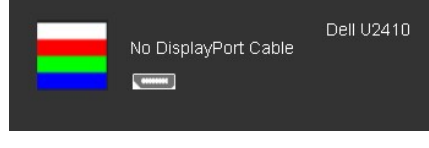
or



or



or



NOTE: When there is no valid input signal and the monitor is switch off and on, any active PIP/PBP window will disappear. Please enter PIP/PBP submenu if window.

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

Setting the Maximum Resolution

1. Right-click on the desktop and select **Properties**.
2. Select the **Settings** tab.
3. Set the screen resolution to 1920 x 1200.
4. Click **OK**.

If you do not see 1920 x 1200 as an option, you may need to update your graphics driver. Depending on your computer, complete one of the following procedures.

If you have a Dell desktop or portable computer:

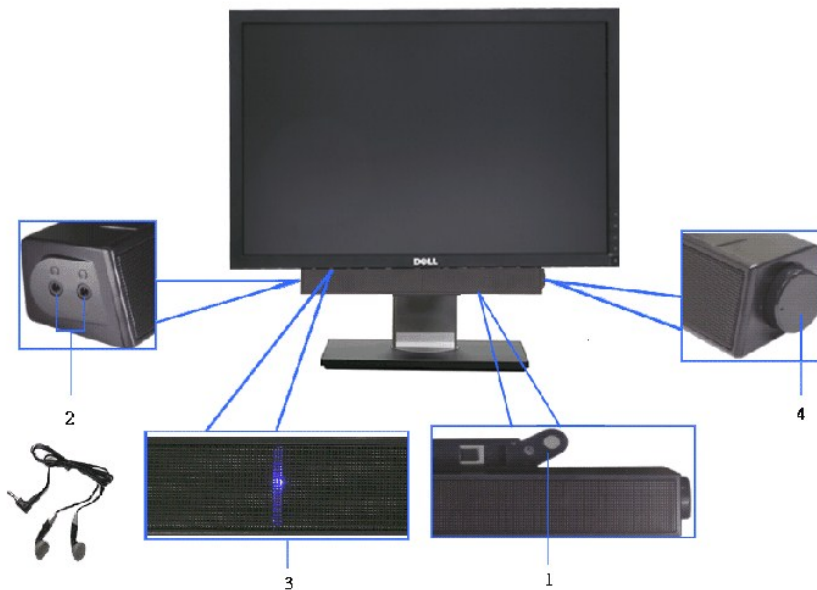
- o Go to support.dell.com, enter your service tag, and download the latest driver for your graphics card.

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

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

Using the Dell Soundbar (Optional)

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

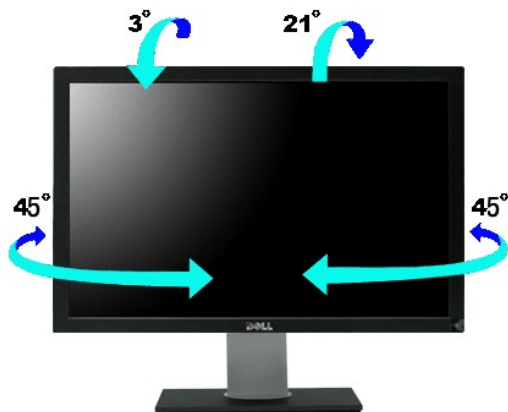



- 1 Attach Mechanism
- 2 Headphone Jacks
- 3 Power Indicator
- 4 Power/Volume Control

Using the Tilt, Swivel and Vertical Extension

Tilt/Swivel

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



 **NOTE:** Stand is NOT attached when the monitor is shipped from the factory.

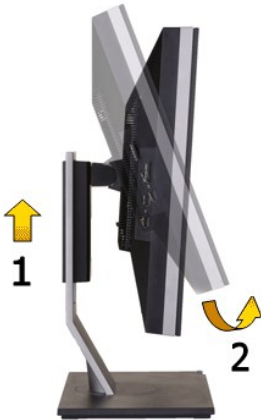
Vertical Extension

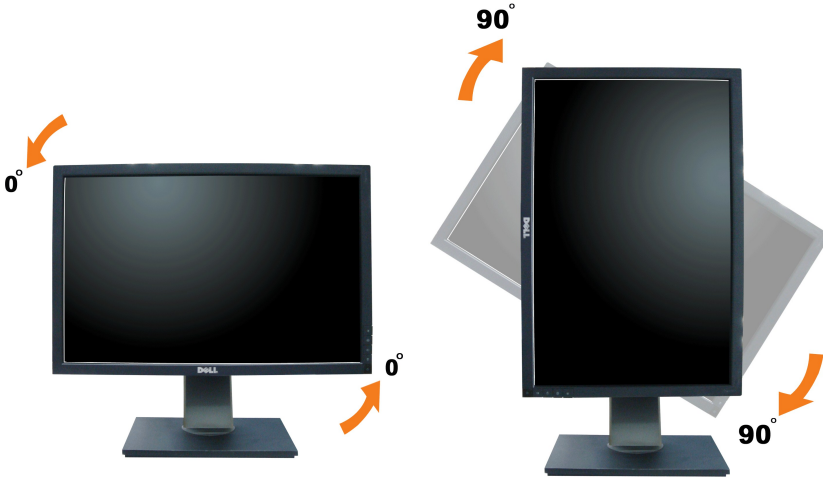
Stand extends vertically up to 100 mm \pm 5 mm.



Rotating the Monitor

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





NOTE: 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 support.dell.com and see the **Download** section for **Video Drivers** for latest driver updates.

NOTE: When in Portrait View Mode, you may experience performance degradation in graphic-intensive applications (3D Gaming etc.).

When in Portrait View Mode, PIP/PBP is not available.

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.

NOTE: If you are using the monitor with a non-Dell computer, you need to go 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.
If you have an nVidia graphics card, click the **nVidia** tab, in the left-hand column select **NVRotate**, and then select the preferred rotation.
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 support.dell.com and download the latest driver for your graphics card.

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Setting Up Your Monitor

Dell™ U2410 Flat Panel Monitor

Important instructions to set the display resolution to 1920 x 1200 (Maximum)

For optimal display performance while using the Microsoft® Windows® operating systems, set the display resolution to 1920 x 1200 pixels by performing the following steps:

1. Right-click on the desktop and click **Properties**.
2. Select the **Settings** tab.
3. Move the slider-bar to the right by pressing and holding left-mouse button and adjust the screen resolution to **1920 x 1200**.
4. Click **OK**.

If you do not see **1920 x 1200** as an option, you may need to update your graphics driver. Please choose the scenario below that best describes the computer system you are using, and follow the provided directions:

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

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

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Dell™ U2410 Flat Panel Monitor

- [User's Guide](#)
- [Important instructions to set the display resolution to 1920 x 1200 \(Maximum\)](#)

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Model U2410f


May 2011 Rev. A06

Setting Up the Monitor

Dell™ U2410 Flat Panel Monitor User's Guide

- [Attaching the Stand](#)
 - [Connecting the Monitor](#)
 - [Organizing Your Cables](#)
 - [Attaching the Soundbar \(optional\)](#)
-

Attaching the Stand


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



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 its place.
-

Connecting Your Monitor

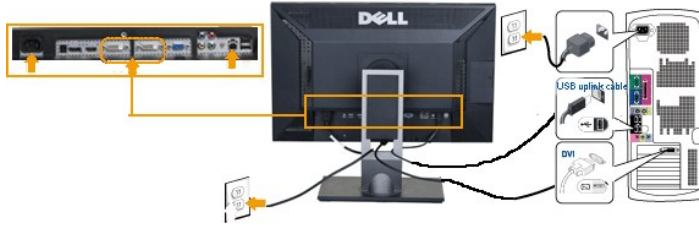
 **WARNING:** Before you begin any of the procedures in this section, follow the [safety instructions](#).

 **NOTE:** USB uplink cable connection enables USB ports and card reader on the monitor to work.

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

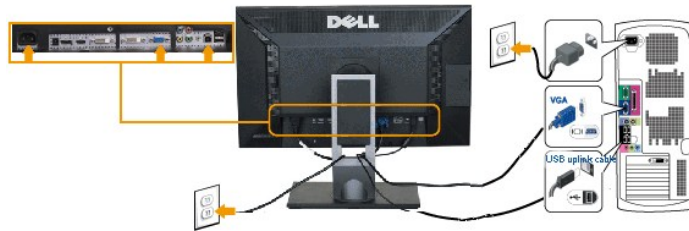
1. Turn off your computer and disconnect the power cable.
1. Connect the USB uplink cable.
1. Connect either the white (digital DVI-D) display connector cable, the blue (analog VGA) display connector cable, or the black DisplayPort cable to the corresponding video port on the back of your computer. Do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

Connecting the White DVI Cable and USB uplink cable

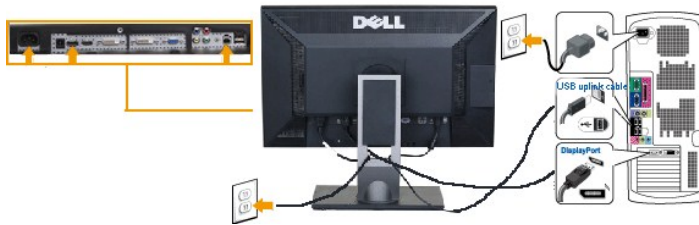


NOTE: Your monitor supports two DVI ports. You can either choose DVI-D 1 or DVI-D 2 via input source on the OSD menu using [Input source select](#).

Connecting the Blue VGA Cable and USB uplink cable



Connecting the Black DisplayPort Cable and USB uplink cable



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

After you have completed connecting the DVI/VGA/DisplayPort cable, follow the procedure below to complete setting up your monitor:

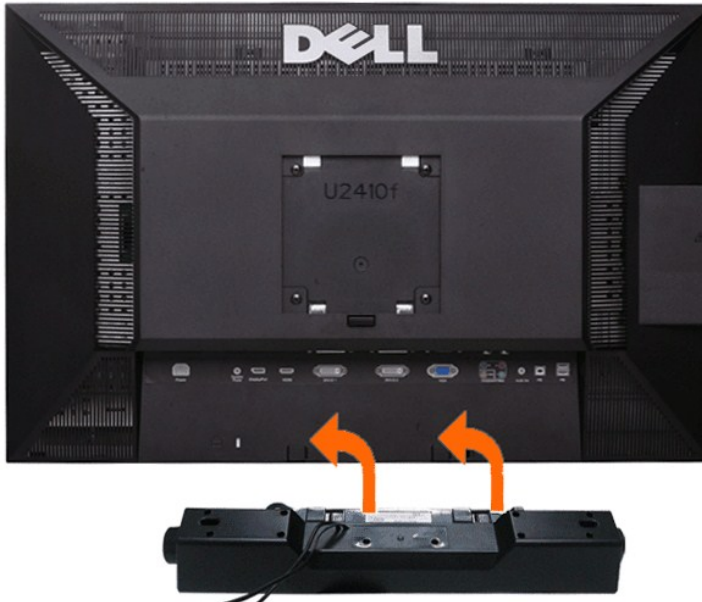
- 1 Plug the power cables for your computer and monitor into a nearby outlet.
- 1 Turn on the monitor and the computer. Then change the input source via the OSD Menu [Input Source Select](#) from VGA or DVI input to DisplayPort input.
- 1 If your monitor displays an image, installation is complete. If it does not display an image, see [Solving Problems](#).
- 1 Use the cable management 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,) use the cable management slot to neatly organize all cables as shown above.

Attaching the Soundbar(Optional)



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

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

 **NOTE:** Monitor DC power connector +12 V DC output is for Dell Soundbar, that does not have built-in AC adapter, eg Dell AX510.

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Solving Problems

Dell™ U2410 Flat Panel Monitor User's Guide

- [Monitor Specific Troubleshooting](#)
- [Built-in Diagnostics](#)
- [Common Problems](#)
- [Video Problems](#)
- [Product Specific Problems](#)
- [Universal Serial Bus \(USB\) Specific Problems](#)
- [Troubleshooting the Dell™ Soundbar \(Optional\)](#)
- [Card Reader Troubleshooting](#)

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

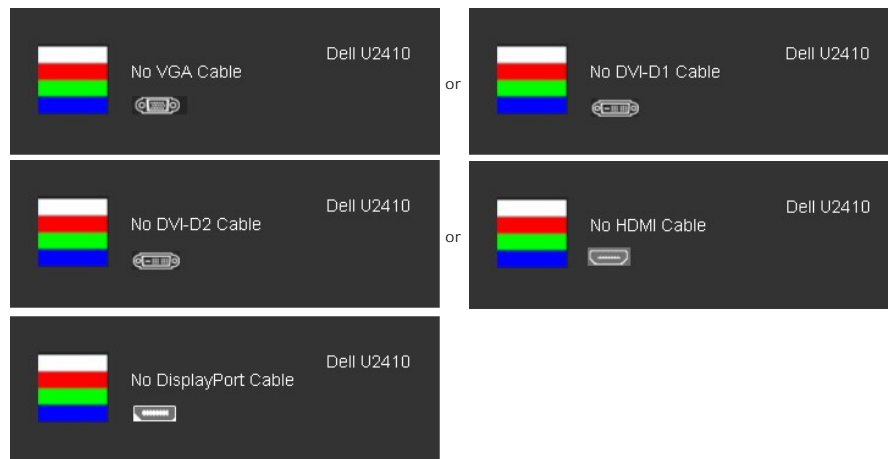
Troubleshooting Your Monitor

Self-Test Feature Check (STFC)

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 blue. Also, depending upon the selected input, one of the dialogs shown below will continuously scroll through the screen.



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

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

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

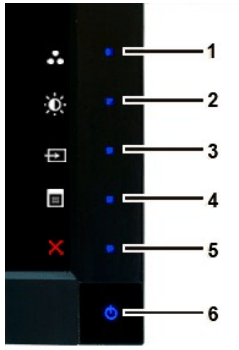
Built-in Diagnostics

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 *first* and *fourth* buttons on the front panel, simultaneously for 2 seconds. A gray screen appears.



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

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

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

OSD Warning Messages

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

Common Problems

The following table contains general information about common monitor problems you might encounter.

Common Symptoms	What You Experience	Possible Solutions
No Video/Power LED off	No picture	<ul style="list-style-type: none"> 1 Ensure that the video cable connecting the monitor and the computer is p and secure. 1 Verify that the power outlet is functioning properly using any other electric 1 Ensure that the power button is depressed fully.
No Video/Power LED on	No picture or no brightness	<ul style="list-style-type: none"> 1 Increase brightness & contrast controls via OSD. 1 Perform monitor self-test feature check. 1 Check for bent or broken pins in the video cable connector. 1 Touch button 5 located above the power button, ensure that the correct i selected via the Input Source Select menu. 1 Run the built-in diagnostics.
Poor Focus	Picture is fuzzy, blurry, or ghosting	<ul style="list-style-type: none"> 1 Perform Auto Adjust via OSD. 1 Adjust the Phase and Pixel Clock controls via OSD. 1 Eliminate video extension cables. 1 Reset the monitor to Factory Settings. 1 Change the video resolution to the correct aspect ratio (16:10).
Shaky/Jittery Video	Wavy picture or fine movement	<ul style="list-style-type: none"> 1 Perform Auto Adjust via OSD. 1 Adjust the Phase and Pixel Clock controls via OSD. 1 Reset the monitor to Factory Settings. 1 Check environmental factors. 1 Relocate the monitor and test in another room.
Missing Pixels	LCD screen has spots	<ul style="list-style-type: none"> 1 Cycle power on-off. 1 Pixel that is permanently off is a natural defect that can occur in LCD techn <p>For more information on Dell Monitor Quality and Pixel Policy, see Dell Support sit support.dell.com.</p>
Stuck-on Pixels	LCD screen has bright spots	<ul style="list-style-type: none"> 1 Cycle power on-off. 1 Pixel that is permanently off is a natural defect that can occur in LCD techn <p>For more information on Dell Monitor Quality and Pixel Policy, see Dell Support sit support.dell.com.</p>
Brightness Problems	Picture too dim or too bright	<ul style="list-style-type: none"> 1 Reset the monitor to Factory Settings. 1 Auto Adjust via OSD. 1 Adjust brightness & contrast controls via OSD.
Geometric Distortion	Screen not centered correctly	<ul style="list-style-type: none"> 1 Reset the monitor to Factory Settings. 1 Auto Adjust via OSD.

		<ul style="list-style-type: none"> 1 Adjust brightness & contrast controls via OSD. <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"> 1 Reset the monitor to Factory Settings. 1 Perform Auto Adjust via OSD. 1 Adjust Phase and Pixel Clock controls via OSD. 1 Perform monitor self-test feature check and determine if these lines are all mode. 1 Check for bent or broken pins in the video cable connector. <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"> 1 Reset the monitor to Factory Settings. 1 Perform Auto Adjust via OSD. 1 Adjust Phase and Pixel Clock controls via OSD. 1 Perform monitor self-test feature check to determine if scrambled screen is test mode. 1 Check for bent or broken pins in the video cable connector. 1 Restart the computer in the <i>safe mode</i>.
Safety-Related Issues	Visible signs of smoke or sparks	<ul style="list-style-type: none"> 1 Do not perform any troubleshooting steps. 1 Contact Dell immediately.
Intermittent Problems	Monitor malfunctions on & off	<ul style="list-style-type: none"> 1 Ensure that the video cable connecting the monitor to the computer is correct and is secure. 1 Reset the monitor to Factory Settings. 1 Perform monitor self-test feature check to determine if the intermittent problem is self-test mode.
Missing Color	Picture missing color	<ul style="list-style-type: none"> 1 Perform monitor self-test feature check. 1 Ensure that the video cable connecting the monitor to the computer is correct and is secure. 1 Check for bent or broken pins in the video cable connector.
Wrong Color	Picture color not good	<ul style="list-style-type: none"> 1 Change the Color Setting Mode in the Color Settings OSD to Graphics or V to the application. 1 Try different Color Preset Settings in Color Settings OSD. Adjust R/G/B values in Settings OSD if the Color Management is turned off. 1 Change the Input Color Format to PC RGB or YPbPr in the Advance Setting
Image retention from a static image left on the monitor for a long period of time	Faint shadow from the static image displayed appears on the screen	<ul style="list-style-type: none"> 1 Use the Power Management feature to turn off the monitor at all times for more information, see Power Management Modes. 1 Alternatively, use a dynamically changing screensaver.


Video Problems

COMMON SYMPTOMS	WHAT YOU EXPERIENCE	POSSIBLE SOLUTIONS
No Video	No signal indicator is displayed	<ul style="list-style-type: none"> 1 Check Video Input Selection <ul style="list-style-type: none"> o Composite: Yellow colored RCA jack o Component: Red, Blue, Green colored RCA jacks
Low Quality DVD playback	Picture not crisp and some color distortion	<ul style="list-style-type: none"> 1 Check DVD connection <ul style="list-style-type: none"> o Composite gives good picture o Component: Red, Blue, Green colored RCA jacks
Blinking Video	Video is blinking or discontinuous	<ul style="list-style-type: none"> 1 Check DVD connection <ul style="list-style-type: none"> o Composite gives good picture o Component: Red, Blue, Green colored RCA jacks 1 Check if DVD player is HDCP compliant. <ul style="list-style-type: none"> o Some non-compliant players may exhibit blinking video and others v raster screen.

Product Specific Problems

SPECIFIC SYMPTOMS	WHAT YOU EXPERIENCE	POSSIBLE SOLUTIONS
Screen image is too small	Image is centered on screen, but does not fill entire viewing area	<ul style="list-style-type: none"> 1 Perform monitor reset on "Factory Reset".
Cannot adjust the monitor with the buttons on the front panel	OSD does not appear on the screen	<ul style="list-style-type: none"> 1 Turn the monitor off and unplug the power cord and then plug back and p
The monitor will not go into	No picture, the LED light is blue. When	<ul style="list-style-type: none"> 1 Move mouse or hit any key on the keyboard on the computer or activate v

power saving mode.	press "+", "-" or "Menu" key, the message " No Composite input signal " or " No Component input signal " will appear.	access the OSD to set Audio to "off " state.
No Input Signal when you press the controls.	No picture, the LED light is blue. When you press "+", "-" or "Menu" key, the message " No Composite input signal " or " No Component input signal " will appear.	<ul style="list-style-type: none"> 1 Check the signal source Make sure the Computer is not in power saving b mouse or pressing any key on the keyboard. 1 Check to make sure Video Source to Composite or Component is powered video media. 1 Check whether the signal cable is plugged in and seated properly. Re-plug if necessary. 1 Re-boot the computer or video player.
The monitor will not fill the entire screen.	The picture can't fill the height or width of the screen.	<ul style="list-style-type: none"> 1 Due to the non-standard formats of DVDs, the monitor may not show the pictures.

 **NOTE:** When choosing DVI-D, DisplayPort, HDMI, Composite or Component video, [Auto Adjust](#) function is not available.


Universal Serial Bus (USB) Specific Problems

SPECIFIC SYMPTOMS	WHAT YOU EXPERIENCE	POSSIBLE SOLUTIONS
USB interface is not working	USB peripherals are not working	<ul style="list-style-type: none"> 1 Check that your monitor is powered ON. 1 Reconnect the upstream cable to your computer. 1 Reconnect the USB peripherals (downstream connector). 1 Switch off and then turn on the monitor again. 1 Reboot the computer.
High Speed USB 2.0 interface is slow.	High Speed USB 2.0 peripherals working slowly or not at all.	<ul style="list-style-type: none"> 1 Check that your computer is USB 2.0 capable. 1 Verify USB 2.0 source on your computer. 1 Reconnect the upstream cable to your computer. 1 Reconnect the USB peripherals (downstream connector). 1 Reboot the computer.

Troubleshooting the Dell™ Soundbar

COMMON SYMPTOMS	WHAT YOU EXPERIENCE	POSSIBLE SOLUTIONS
No Sound	No power to Soundbar - the power indicator is off. (built-in DC power supply. i.e. U2410)	<ul style="list-style-type: none"> 1 Turn the Power/Volume knob on the Soundbar clockwise to the middle pos power indicator (blue LED) on the front of the Soundbar is illuminated. 1 Confirm that the power cable from the Soundbar is plugged into the monit 1 Confirm that the monitor has power. 1 If the monitor has no power, see Monitor Specific Troubleshooting for mor problem.
No Sound	Soundbar has power - power indicator is on.	<ul style="list-style-type: none"> 1 Plug the audio line-in cable into the computer's audio out jack. 1 Set all Windows volume controls to their maximum. 1 Play some audio content on the computer (i.e. audio CD, or MP3). 1 Turn the Power/Volume knob on the Soundbar clockwise to a higher volun 1 Clean and reseal the audio line-in plug. 1 Test the Soundbar using another audio source (i.e. portable CD player).
Distorted Sound	Computer's sound card is used as the audio source.	<ul style="list-style-type: none"> 1 Clear any obstructions between the Soundbar and the user. 1 Confirm that the audio line-in plug is completely inserted into the jack of t 1 Set all Windows volume controls to their midpoints. 1 Decrease the volume of the audio application. 1 Turn the Power/Volume knob on the Soundbar counter-clockwise to a low 1 Clean and reseal the audio line-in plug. 1 Troubleshoot the computer's sound card. 1 Test the Soundbar using another audio source (i.e. portable CD player).
Distorted Sound	Other audio source is used.	<ul style="list-style-type: none"> 1 Clear any obstructions between the Soundbar and the user. 1 Confirm that the audio line-in plug is completely inserted into the jack of t 1 Decrease the volume of the audio source. 1 Turn the Power/Volume knob on the Soundbar counter-clockwise to a low 1 Clean and reseal the audio line-in plug.
Unbalanced Sound Output	Sound from only one side of Soundbar	<ul style="list-style-type: none"> 1 Clear any obstructions between the Soundbar and the user. 1 Confirm that the audio line-in plug is completely inserted into the jack of t audio source. 1 Set all Windows audio balance controls (L-R) to their midpoints. 1 Clean and reseal the audio line-in plug. 1 Troubleshoot the computer's sound card. 1 Test the Soundbar using another audio source (i.e. portable CD player).
Low Volume	Volume is too low.	<ul style="list-style-type: none"> 1 Clear any obstructions between the Soundbar and the user. 1 Turn the Power/Volume knob on the Soundbar clockwise to the maximum 1 Set all Windows volume controls to their maximum. 1 Increase the volume of the audio application. 1 Test the Soundbar using another audio source (i.e. portable CD player).

Troubleshooting the Card Reader

 **CAUTION:** Do not remove the device while reading or writing media. Doing so may cause loss of data or malfunction in the media.

Problem	Cause	Solution
Drive letter is not assigned. (Windows® XP only)	Conflict with network drive letter.	A. Right-click My Computer on the desktop, and then click Manage . Under Computer click Desk Management . B. In the list of drives in the right panel, right-click Removable Device and then click Letter and Paths . C. Click Change , and in the drop-down box, specify a drive letter for the Removable choosing one that is not assigned to the mapped network drives. D. Click OK , ... then click OK again
Drive letter is assigned, but the media is not accessible	The media needs reformatting.	Right-click the drive in Explorer and choose Format from the resulting menu.
The media has been ejected during writing or erasing.	Displays the error message, "Error copying file or folder." Displays the error message, "Cannot write folder (folder name) or file (file name)," during writing, or, "Cannot remove folder (folder name) or file(file name).", While erasing, you cannot write or erase in the same folder or file name.	Reinsert the media and write or erase again. Format the media for writing or erasing the same folder or file name.
Despite the disappearance of the pop-up window, the media has been ejected while the LED was blinking.	Although the pop-up window disappears during writing, if you eject your media while the LED is still blinking, then you cannot complete your action on the media.	Format the media for writing or erasing the same folder or file name.
Cannot format or write on the media.	Write protect switch is enabled.	Verify that the write-protect switch of the media is unlocked.
Card reader is not working	USB interface is not working.	Check that your monitor is powered on. Reconnect the upstream cable from your computer to the monitor. Reinsert the media. Switch off and then turn on the monitor again. Reboot the computer.

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