

Dell™ 2408WFP Flat Panel Monitor User's Guide

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Notes, Notices, and Cautions

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.

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

 **CAUTION:** A CAUTION indicates the 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 2408WFP

December 2007 Rev. A00

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Product Features

The **2408WFP** flat panel display has an active matrix, thin-film transistor (TFT), liquid crystal display (LCD). The monitor features include:

- 24-inch (609.6 mm) viewable area display.
- 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, vertical extension and rotate 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.
- Energy Saver feature for Energy Star compliance.
- Security lock slot.

Identifying Parts and Features

Front View



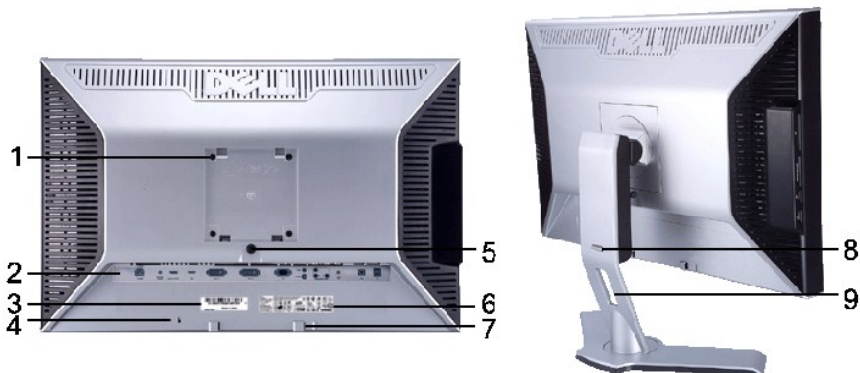
Front View

Front panel controls

Label	Description
1	Input Source Select
2	Picture In Picture (PIP)/Picture By Picture (PBP) Select
3	OSD Menu/Select
4	Brightness & Contrast/Down (-)

- 5 Auto-adjust/Up (+)
 - 6 Power button (with power light indicator)
-

Back View



Back view

Back View with monitor stand

Label	Description/Use	
1	VESA mounting holes (100mm) (Behind attached base plate)	To mount the monitor.
2	Connectors label	To indicate the positions and types of connectors.
3	Barcode serial number label	To contact Dell for technical support.
4	Security lock slot	To help secure your monitor.
5	Stand release button	To release the stand from the monitor.
6	Regulatory rating label	Lists the regulatory approvals.
7	Dell Soundbar mounting brackets	To attach the optional Dell Soundbar.
8	Lock down/release button	Push the monitor down, press the button to unlock the monitor, and then lift the monitor to the desired height.
9	Cable management slot	To organize cables by placing them through the slot.

Side View

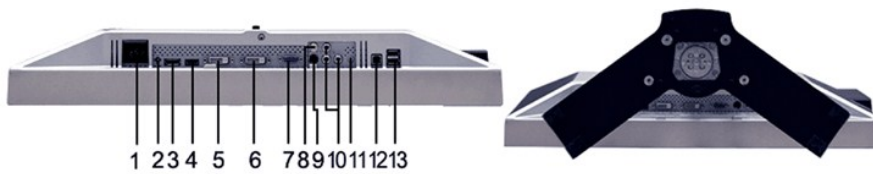


Right side

Left side

Label	Description
1	Card reader. See Card Reader Specifications for more information.
2	USB downstream 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	S-Video connector
10	Component video connectors
11	Audio out
12	USB upstream port
13	USB downstream ports

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 PC, 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	Active	Active	Active	Green	110 W (maximum)* 57 W (normal)**
Active-off mode	Inactive	Inactive	Blanked	Amber	Less than 2 W
Switch off	-	-	-	Off	Less than 1 W


* With Audio and USB

** Without Audio and USB

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

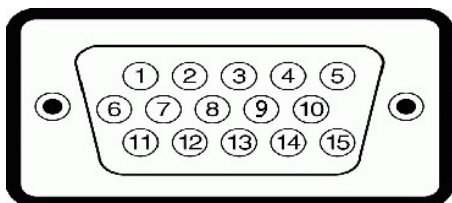
 **NOTE:** This monitor is ENERGY STAR®-compliant as well as TCO '99/TCO '03 power management compatible.



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

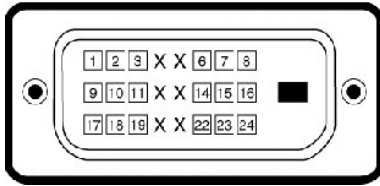
Pin Assignments

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-

S-video Connector



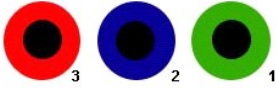
Pin Number	5-pin Side of the Connected Signal Cable (Cable not included)
1	GND
2	GND
3	LUMA
4	CHROMA
5	GND

Composite Video Connector



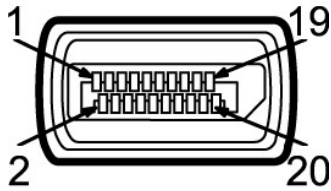
Luma composite chroma

Component Video Connector



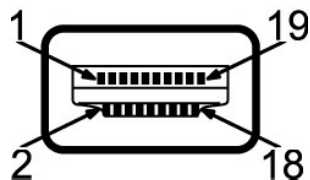
Pin Number	3-pin Side of the Connected Signal Cable (Cable not included)
1	Y (Luminance signal)
2	Pb (Color differential signal)
3	Pr (Color differential signal)

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
Screen dimensions	24 inches (24-inch diagonal viewable image size)
Preset display area:	
Horizontal	518.4 mm (20.4 inches)
Vertical	324 mm (12.7 inches)
Pixel pitch	0.27 mm
Viewing angle	178° (Vertical) typical, 178° (Horizontal) typical
Luminance output	400 cd/m ² (typ)
Contrast ratio	1300:1 (typ), 3000:1 (typ, 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%* typical

* 2408WFP Color Gamut (Typical) is based on CIE1976 (110%) and CIE1931 (102%).

Resolution

Horizontal scan range	30 kHz to 83 kHz (automatic)
Vertical scan range	56 Hz to 75 Hz
Optimal preset resolution	1920 x 1200 at 60 Hz
Highest preset resolution	1920 x 1200 at 60 Hz

Video Supported Modes

Video display capabilities (DVI playback)	480p/576p/720p/1080p (Supports HDCP)
Video display capabilities (Composite playback)	NTSC/PAL
Video display capabilities (S-Video 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 S-video, Y input 1 volt(p-p), C input 0.286 volt(p-p), 75 ohm input impedance 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 D-sub: blue connector 1 DVI-D: white connector 1 DisplayPort: black connector 1 S-video 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 S-video 1 Composite 1 Component 1 HDMI <p> NOTE: The S-video, composite, component, and HDMI cables are not included with the monitor.</p>
Dimensions (with stand)	
Height (Compressed)	396.8 mm (15.62 inches)
Height (Extended)	496.8 mm (19.56 inches)
Width	559.7 mm (22.04 inches)
Depth	207.6 mm (8.17 inches)
Dimensions (without stand)	
Height	359.6 mm (14.4 inches)
Width	559.7 mm (22.04 inches)
Depth	87.5 mm (3.44 inches)
Stand Dimensions	
Height (Compressed)	338.2 mm (13.31 inches)
Height (Extended)	379.2 mm (14.93 inches)
Width	432 mm (17.01 inches)
Depth	207.6 mm (8.17 inches)
Weight	
Weight with packaging	11.7 kg (26.41 lb)
Weight with stand assembly and cables	9.58 kg (21.74 lb)
Weight without stand assembly (For wall mount or VESA mount considerations - no cables)	6.74 kg (15.48 lb)
Weight of stand assembly	2.16 kg (4.76 lb)

Environmental

The following table lists the environmental limitation:

Temperature	
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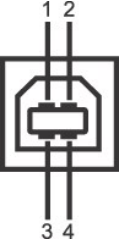
Operating	5° to 35°C (41° to 95°F)
Nonoperating	Storage: 0° to 60°C (32° to 140°F) Shipping: -20° to 60°C(-4° to 140°F)
Humidity	
Operating	10% to 80% (noncondensing)
Nonoperating	Storage: 5% to 90% (noncondensing) Shipping: 5% to 90%(noncondensing)
Altitude	
Operating	3,657.6 m (12,000 ft) max
Nonoperating	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.

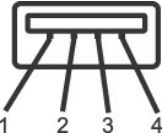
Transfer speed	Data Rate	Power Consumption
High speed	480 Mbps	2.5W (Max., each port)
Full speed	12 Mbps	2.5W (Max., each port)
Low speed	1.5 Mbps	2.5W (Max., each port)

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

USB Ports

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

 **NOTE:** USB 2.0 capability requires 2.0 capable computer

 **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 on, the attached peripherals may take a few seconds to resume normal functionality.

Card Reader Specifications

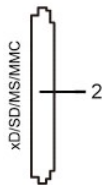
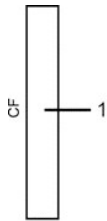
Overview

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




The following table lists the slot to support what kind of memory card:


Slot Number	Flash memory cards type
1	Compact Flash type I/II Card (CF I/II)/CF form factor ATA hard drives to USB 2.0 bus
2	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 2408WFP card reader

Card type	Support Specification	Memory Card Spec Version	Max. capacity
CF	Compact Flash Specification	2.0	128GB
MS	Memory Stick Standard Format Specification	1.40-00	128MB
MSPRO	Memory Stick Pro Standard Format Specifications	1.01-01	32GB

MSDuo	Memory Stick Duo Standard Format Specifications	1.10-00	128MB/32GB
xD	xD Picture Card Specification	1.2	2GB
SD	SD Memory Card Specifications	2.0	32GB
MMC	MultiMedia Card System Specification	4.2	32GB

 NOTE: SD includes MiniSD

 NOTE: MMC includes RS-MMC

General

Connection type USB 2.0 High Speed Device (USB Full Speed Device compatible)
Supported OS Windows 2000, XP and Vista

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.

Maintenance Guidelines

Caring for Your Monitor

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

 **CAUTION:** Before cleaning the monitor, unplug the monitor 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 If you notice a white powder when you unpack your monitor, wipe it off with a cloth.
- 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™ 2408WFP Flat Panel Monitor User's Guide


- [Safety Instructions](#)
 - [FCC Notice \(U.S. Only\)](#)
 - [Contacting Dell™](#)
-


CAUTION: Safety Instructions

 **CAUTION:** 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.

Read and follow these instructions when connecting and using your computer monitor:

- 1 To help avoid damaging your computer, be sure that the voltage selection switch on the power supply for the computer is set to match the alternating current (AC) power available at your location:
 - o 115 volts (V)/60 hertz (Hz) in most of North and South America and some Far Eastern countries such as Japan, South Korea (also 220 volts (V)/60 hertz (Hz)), and Taiwan.
 - o 230 volts (V)/50 hertz (Hz) in most of Europe, the Middle East, and the Far East.
- 1 Always be sure that your monitor is electrically rated to operate with the AC power available in your location.

 **NOTE:** This monitor does not need or have a voltage selection switch for setting the AC voltage input. It will automatically accept any AC input voltage according to the ranges defined in the "Electrical Specifications" section in the User's Guide.

- 1 Do not store or use the monitor in locations that are exposed to heat, direct sunlight, or extreme cold.
- 1 Avoid moving the monitor between locations with large temperature differences.
- 1 Do not subject the monitor to severe vibration or high impact conditions. For example, do not place the monitor inside a car trunk.
- 1 Do not store or use the monitor in locations exposed to high humidity or dusty environment.
- 1 Do not allow water or other liquids to spill on or into the monitor.
- 1 Keep flat panel monitor in room temperature conditions. Excessive cold or hot conditions can have an adverse effect on the liquid crystal of the display.
- 1 Never insert anything metallic into the monitor openings. Doing so may create the danger of electric shock.
- 1 To avoid electric shock, never touch the inside of the monitor. Only a qualified technician should open the monitor case.
- 1 Never use your monitor if the power cable has been damaged. Ensure that nothing rests on your computer's cables and that the cables are not located where they can be stepped on or tripped over.
- 1 Be sure to grasp the plug, not the cable, when disconnecting the monitor from an electric socket.
- 1 Openings in the monitor cabinet are provided for ventilation. To prevent overheating, these openings should not be blocked or covered. Avoid using the monitor on a bed, sofa, rug, or other soft surface, as doing so may block the ventilation openings in the bottom of the cabinet. If you place the monitor in a bookcase or an enclosed space, be sure to provide adequate ventilation and air flow.
- 1 Place your monitor in a location with low humidity and minimum dust. Avoid places similar to a damp basement or dusty hallway.
- 1 Do not expose the monitor to rain or use it near water (in kitchens, next to swimming pools, etc.). If the monitor accidentally gets wet, unplug it and contact an authorized dealer immediately. You can clean the monitor with a damp cloth when necessary, being sure to unplug the monitor first.
- 1 Place the monitor on a solid surface and treat it carefully. The screen is made of glass and can be damaged if dropped or hit sharply.
- 1 Locate your monitor near an easily accessible electric outlet.
- 1 If your monitor does not operate normally - in particular, if there are any unusual sounds or smells coming from it - unplug it immediately and contact an authorized dealer or service center.
- 1 Do not attempt to remove the back cover, as you will be exposed to an electrical shock hazard. The back cover should only be removed by qualified service personnel.
- 1 High temperatures can cause problems. Don't use your monitor in direct sunlight, and keep it away from heaters, stoves, fireplaces, and other sources of heat.
- 1 Unplug the monitor when it is going to be left unused for an extended period of time.
- 1 Unplug your monitor from the electric outlet before any service is performed.
- 1  LAMP(S) INSIDE THIS PRODUCT CONTAIN(S) MERCURY AND MUST BE RECYCLED OR DISPOSED OFF ACCORDING TO LOCAL, STATE OR FEDERAL LAWS. FOR MORE INFORMATION, GO TO WWW.DELL.COM/HG OR CONTACT THE ELECTRONIC INDUSTRIES ALLIANCE AT WWW.EIAE.ORG.

FCC Notice (U.S. Only)

FCC Class B

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instruction manual, may cause interference with radio and television reception. This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules.

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

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.



NOTICE: The FCC regulations provide that changes or modifications not expressly approved by Dell™ Inc. could void your authority to operate this equipment.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference with radio or television reception, which can be determined by turning the equipment off and on, you are encouraged to try to correct the interference by one or more of the following measures:

- 1 Reorient the receiving antenna.
- 1 Relocate the system with respect to the receiver.
- 1 Move the system away from the receiver.
- 1 Plug the system into a different outlet so that the system and the receiver are on different branch circuits.

If necessary, consult a representative of Dell™ Inc. or an experienced radio/television technician for additional suggestions.

The following information is provided on the device or devices covered in this document in compliance with the FCC regulations:

- 1 Product name: 2408WFP Flat Panel Monitor
- 1 Model number: 2408WFPb
- 1 Company name:
Dell Inc.
Worldwide Regulatory Compliance & Environmental Affairs
One Dell Way
Round Rock, Texas 78682 USA
512-338-4400

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™ 2408WFP 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 **1920x1200** again.

 **NOTE:** If you are unable to set the resolution to 1920x1200, please contact Dell™ to inquire about a Graphics Adapter that supports these resolutions.

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Setting Up Your Monitor

Dell™ 2408WFP Flat Panel Monitor

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 **1920x1200** again.

 **NOTE:** If you are unable to set the resolution to 1920x1200, please contact the manufacturer of your computer or consider purchasing a graphics adapter that will support the video resolution of 1920x1200.

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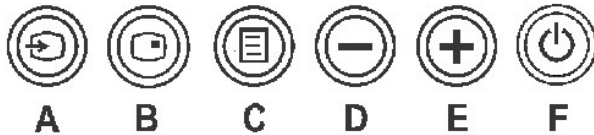
Operating the Monitor












































Dell™ 2408WFP Flat Panel Monitor User's Guide




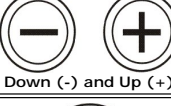



- [Using the Front Panel Controls](#)
- [Using the On-Screen Display \(OSD\) Menu](#)
- [Setting the Optimal Resolution](#)
- [Using the Dell Soundbar \(Optional\)](#)
- [Using the Tilt, Swivel and Vertical Extension](#)
- [Rotating the Monitor](#)
- [Adjusting the Rotating Settings of Your Operating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

Using the Front Panel

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



<p>A</p>	 <p>Input Source Select</p>	<p>Use Input Source Select button to select between two 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 HDMI input Component video input S-Video input Composite video input <p>As you cycle through the inputs you will see the following messages to indicate the currently selected input source. It may take seconds for the image to appear.</p> <table border="1" data-bbox="462 1207 1429 1543"><tr><td>VGA</td><td></td><td>or</td><td>DVI - D 1</td><td></td></tr><tr><td>DVI - D 2</td><td></td><td>or</td><td>DisplayPort</td><td></td></tr><tr><td>HDMI</td><td></td><td>or</td><td>Composite</td><td></td></tr><tr><td>S-Video</td><td></td><td>or</td><td>Component</td><td></td></tr></table> <p>If either VGA or DVI-D input is selected and both VGA and DVI-D cables are not connected, a floating dialog box as shown below</p> <table border="1" data-bbox="462 1606 1364 1774"><tr><td></td><td>No VGA cable</td><td></td><td>or</td><td></td><td>No DVI-D 1 cable</td><td></td></tr><tr><td></td><td>No DVI-D 2 cable</td><td></td><td></td><td></td><td></td><td></td></tr></table> <p>If either S-Video, Composite, HDMI or Component input is selected and the cables are not connected or the video source is turn screen does not have an image. If any button is pressed (except power button), the monitor displays the following message:</p>	VGA		or	DVI - D 1		DVI - D 2		or	DisplayPort		HDMI		or	Composite		S-Video		or	Component			No VGA cable		or		No DVI-D 1 cable			No DVI-D 2 cable					
VGA		or	DVI - D 1																																	
DVI - D 2		or	DisplayPort																																	
HDMI		or	Composite																																	
S-Video		or	Component																																	
	No VGA cable		or		No DVI-D 1 cable																															
	No DVI-D 2 cable																																			

		<div style="background-color: #4a7ebb; color: white; padding: 5px; text-align: center;"> <p>There is no signal coming from your video source. Press the input button on your display to switch to another source.</p> </div>
B	 <p>PIP/PBP Select</p>	<p>Use this button to activate PIP (Picture-in-Picture)/PBP (Picture-by-Picture) modes adjustment.</p> <p>Pressing this button continually cycles the monitor through the following modes : OFF-->PIP-->PBP. You will see the following r corresponding to the mode selected.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #4a7ebb; color: white; padding: 10px; border: 1px solid #ccc;">Off</div> <div style="font-size: 20px;">→</div> <div style="background-color: #4a7ebb; color: white; padding: 10px; border: 1px solid #ccc;">PIP</div> </div> <div style="margin-top: 10px;"> <div style="background-color: #4a7ebb; color: white; padding: 10px; border: 1px solid #ccc; width: 150px; margin-left: 20px;">PBP</div> </div>
C	 <p>OSD Menu/Select</p>	<p>The Menu button is used to open and exit the on-screen display (OSD), and exit from menus and sub-menus. See Using the OS</p>
D	 <p>Brightness /Contrast Hot Key</p>	<p>Use this button for direct access to the "Brightness" and "Contrast" control menu.</p>
D and E	 <p>Down (-) and Up (+)</p>	<p>Use these buttons to adjust (decrease/increase ranges) items in the OSD menu.</p>
E	 <p>Auto Adjust</p>	<p>Use this button to activate automatic setup and adjustment. The following dialog appears on a black screen as the monitor sel the current input:</p> <div style="background-color: #4a7ebb; color: white; padding: 5px; text-align: center; margin: 10px 0;"> <p>Auto adjustment in progress.....</p> </div> <p>Auto Adjustment  button allows the monitor to self-adjust to the incoming video signal. After using Auto Adjustment, you ca tune your monitor by using the Pixel Clock (Coarse), Phase (Fine) controls in the OSD.</p> <p>NOTE: Auto Adjust does not occur if you press the button while there are no active video input signals or attached cables.</p>
F	 <p>Power button (with power light indicator)</p>	<p>Use the power button to turn the monitor on and off.</p> <p>The green light indicates the monitor is on and fully functional. An amber light indicates power save mode.</p>

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 those changes. The changes are also saved if you change the settings and then wait for the OSD menu to disappear.

1. Push the MENU button 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

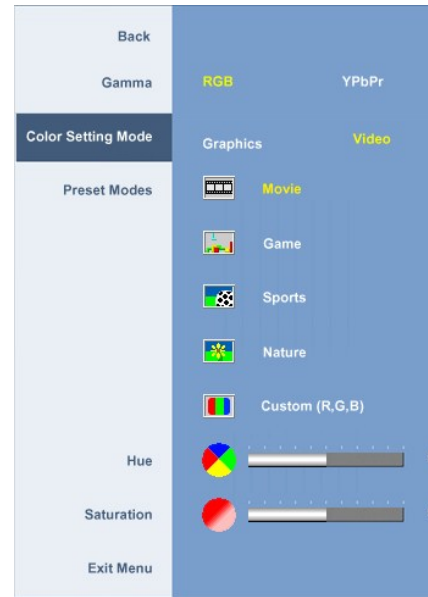


NOTE: AUTO ADJUST is only available when you are using the analog (VGA) connector.

2. Push the and buttons to move between the setting options. As you move from one icon to another, the option name is highlighted. See the table for a complete list of all the options available for the monitor.
3. Push the MENU button once to activate the highlighted option.
4. Push and button to select the desired parameter.
5. Push MENU 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 "back" option to return to the main menu or "exit" to exit the OSD menu.


Icon	Menu and Submenus	Description
	EXIT	Select to exit the main menu.
	BRIGHTNESS & CONTRAST	<p>This menu is to activate Brightness/Contrast adjustment.</p> <p>Back Push to go back to the main menu.</p> <p>Brightness Brightness adjusts the luminance of the backlight. Push the button to increase brightness and push the button to decrease brightness (min 0 ~ max 100).</p> <p>Contrast Adjust Brightness first, and then adjust Contrast only if further adjustment is necessary. Push the button to increase contrast and push the button to decrease contrast (min 0 ~ max 100). The Contrast function adjusts the degree of difference between darkness and lightness on the monitor screen.</p> <p>Exit Menu Push to exit the OSD main menu.</p>
	AUTO ADJUST	<p>Even though your computer recognizes your monitor on startup, the Auto Adjustment function optimizes the display setting setup.</p> <p>NOTE: In most cases, Auto Adjust produces the best image for your configuration.</p> <p>NOTE: AUTO ADJUST option is only available when you are using the analog (VGA) connector.</p>
	INPUT SOURCE	The INPUT SOURCE menu is to select between different video signals that may be connected to your monitor.

		 <p>Back Push  to go back to the main menu.</p> <p>Auto Select Scan for Sources. Push  to scan for available input signals.</p> <p>VGA Select VGA input when you are using the analog (VGA) connector. Push  to select the VGA input source.</p> <p>DVI-D 1 & 2 Select DVI-D input when you are using the Digital (DVI) connector. Push  to select the DVI input source.</p> <p>DisplayPort Select DisplayPort input when you are using DisplayPort connector. Push  to select the DisplayPort input source.</p> <p>HDMI Select HDMI input when you are using HDMI connector. Push  to select the HDMI input source.</p> <p>Component Select Component input when you are using component video connector. Push  to select the component input source.</p> <p>S-Video Select S-Video input when you are using S-Video connector. Push  to select the S-Video input source.</p> <p>Composite Select Composite input when you are using composite video connector. Push  to select the composite input source.</p> <p>Exit Menu Push  to exit the OSD main menu.</p>
      	<p>PRESET MODES</p>	<p>There are several image modes for different usage.</p> <p>Image mode submenu for VGA/DVI-D input Image mode submenu for Video input</p>



or

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

Back Push  to go back to the main menu.

Input Color Format To achieve the different color domain for PC RGB and HD YPbPr (HD YPbPr is suitable for HD video playback over DVI. PC RGB graphics display over DVI).

Gamma To achieve the different color mode for PC and Mac.

Color Setting mode You can choose between a Graphics and a Video mode. If your computer is connected to your monitor, choose Graphics. If a your monitor, choose Video.

VGA/DVI-D input

Desktop Mode Mode suitable for desktop applications.



Multimedia Mode Mode for multimedia applications, eg video playback.

Game Mode Mode suitable for gaming applications.

sRGB Mode Mode to emulate 72% NTSC color.

Warm Mode Warm mode is selected to obtain a red tint. This color setting is typically used for color-intensive applications (photograph ir etc.).

Cool Mode Cool mode is selected to obtain a bluish tint. This color setting is typically used for text based applications (spreadsheets, p

Custom (R, G, B) Use the  or  button to increase or decrease each of the three colors (R, G, B) independently, in single-digit increments

Video input

Movie Mode Mode suitable for movie playback.

Game Mode Mode suitable for game applications.

Sports Mode Mode suitable for sports scenes.

Nature Mode Mode suitable for nature scenes.

Hue User Preset: Use the plus and minus buttons to increase or decrease each of the three colors (R, G, B) independently, in sir





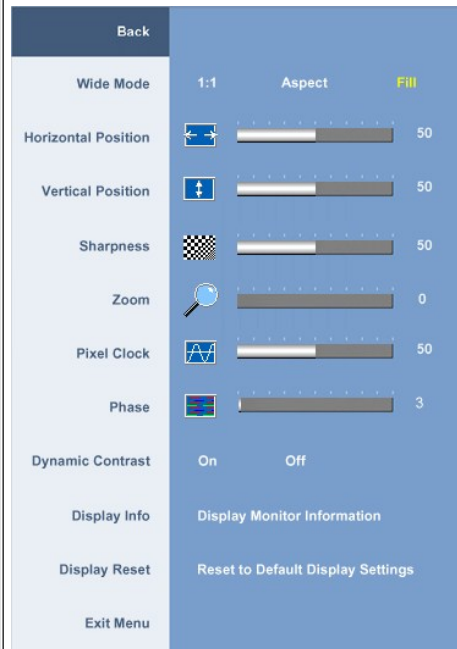
Saturation

Exit Menu

100.
 makes video image shade into greenish
 makes video image shade into purplish
NOTE: Hue adjustment only available for video input.
 This feature can make color shift of video image to green or purple. This is used to adjust for desired flesh tone color. Use - '100'.
 makes video image looks more monochrome
 makes video image looks more colorful
 Push to exit the OSD main menu.



DISPLAY SETTINGS



Back Push to go back to the main menu.

Wide Mode Adjust 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' .

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

Horizontal Pan After zooming in, the horizontal and vertical pan function allows you to pan the enlarged image left/right and up/down resp

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

Pixel Clock The Phase and Pixel Clock adjustments allow you to adjust your monitor to your preference. These settings are accessed by selecting 'Image Settings'.
 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 then use
NOTE: Pixel Clock and Phase Adjustments are only available for "VGA" input.

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



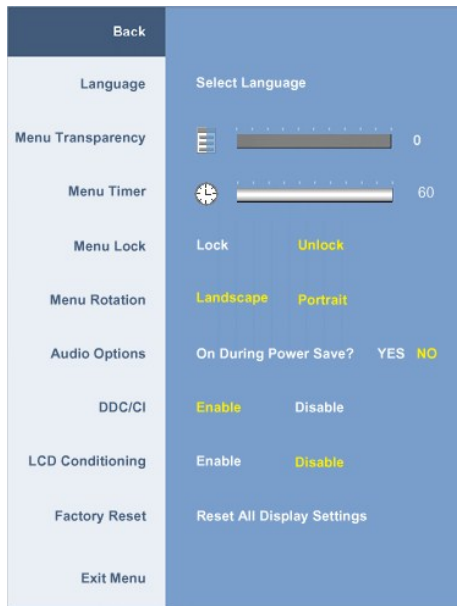
Display Info All the settings related to this monitor.


Display Reset Reset the image to the original factory setting.

Exit Menu Push  to exit the OSD main menu.





OTHER SETTINGS



Back Push  to go back to the main menu.

Language Language option to set the OSD display to one of five languages (English, Espanol, Francais, Deutsch, Japanese).

Menu Transparency This function is used to adjust the OSD background from opaque to transparent.

Menu Timer OSD Hold Time: Sets the length of time the OSD will remain active after the last time you pressed a button. Use the  and  buttons to adjust the slider in 5 second increments, from 5 to 60 seconds.

Menu Lock Controls user access to adjustments. When 'Yes' (+) is selected, no user adjustments are allowed. All buttons are locked e
NOTE: When the OSD is locked, pressing the menu button will take the user directly to the OSD settings menu, with 'OSD Select No(-) to unlock and allow user access to all applicable settings.

Menu Rotation Rotates the OSD by 90 degrees counter-clockwise. Your can adjust according to your Display Rotation.

Audio Option To turn on or off Audio Power during Power Save mode.

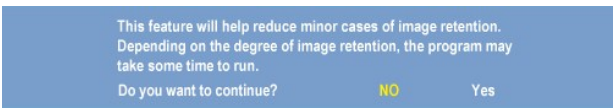
DDC/CI DDC/CI (Display Data Channel/Command Interface) allows your monitor parameters (brightness, color balance etc) to be a You can disable this feature by selecting "Disable". Enable this feature for best user experience and optimum performance of your monitor.

The function of adjusting display setting using PC application will be disabled.
Disable DDC/CI function? **NO** Yes

LCD Conditioning is currently in progress. Press any button on the monitor to terminate LCD Conditioning at any time.

If an image appears to be stuck on the monitor, select **LCD Conditioning** to help eliminate any image retention. Using the several hours. Severe cases of image retention are known as burn-in, the LCD Conditioning feature does not remove burn-

LCD Conditioning



Reset all OSD settings to the factory preset values.

Push to exit the OSD main menu.

Factory Reset

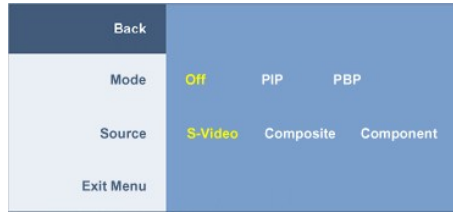
Exit Menu

PIP SETTINGS

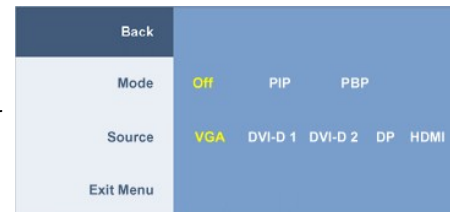


This function brings up a window displaying image from another input source.

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



PIP/PBP submenu when PIP/PBP OFF (main source is input)



or

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



PIP/PBP submenu when PIP/PBP ON (main source is input)



or

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

Back

Push to go back to the main menu.

Mode

There is two modes: PIP (Picture in Picture) and PBP (Picture By Picture)
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/PBP Source

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

PIP Size

Select PIP window size.
Use and to browse and to select.

	PIP Position	Select PIP window position. Use  and  to browse and  to select.
	Brightness	Adjust the brightness level of the picture in PIP/PBP Mode.  reduce the brightness  increases the brightness
	PIP/PBP Contrast	Adjust the contrast level of the picture in PIP/PBP Mode.  reduce the contrast  increases the contrast
	PIP/PBP Hue/Tint	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
	PIP/PBP Saturation	Adjust the color saturation of PIP/PBP image.  makes the image look more monochrome  makes the image look more colorful
	Exit Menu	Push  to exit the OSD main menu.

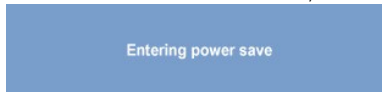
OSD Warning Messages

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 frequency ranges addressable by this monitor. Recommended mode is 1920 X 1200.

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

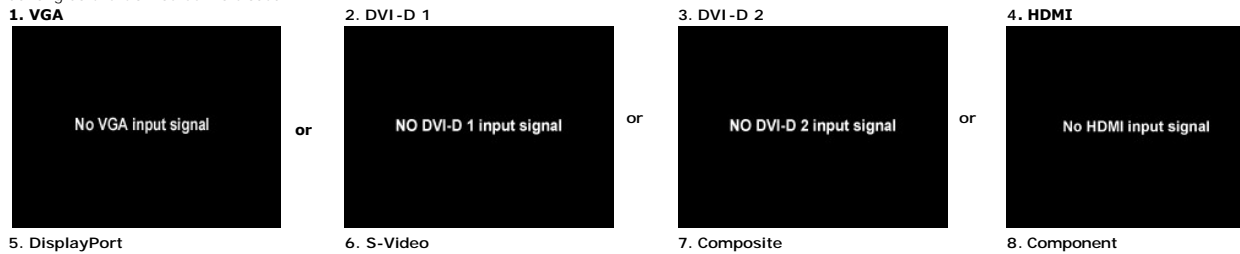


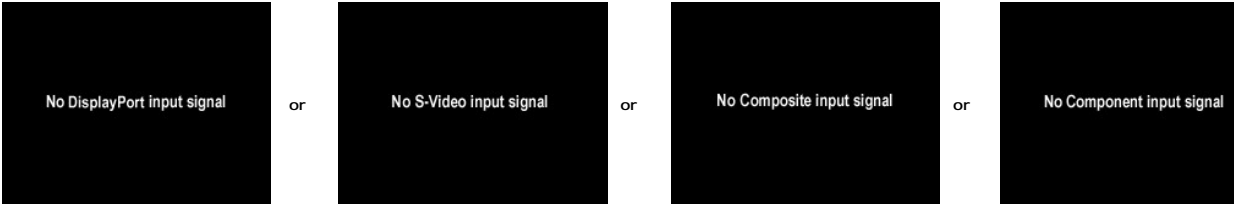
Activate the computer and wake up the monitor to gain access to the [OSD](#)

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





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 is displayed.



NOTE: When the cable is connected back to the input of the monitor, any active PIP/PBP window will disappear. Please enter PIP/PBP submenu to bring back the PIP/PBP window.

NOTE: The PIP/PBP functions can bring up a picture from a second image source. Thus you can watch images from 1 PC source (D-Sub or DVI) and 1 Video source. PIP/PBP functions will not allow for 2 PC sources or 2 Video sources to perform PIP/PBP.

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

Setting the Optimal 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:

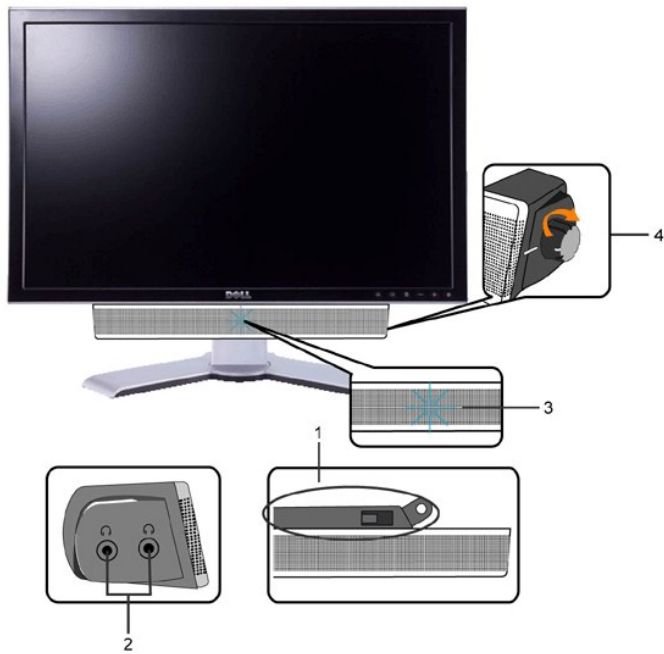
- o Go to support.dell.com, enter your service tag, and download the latest driver for your graphics card.

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.

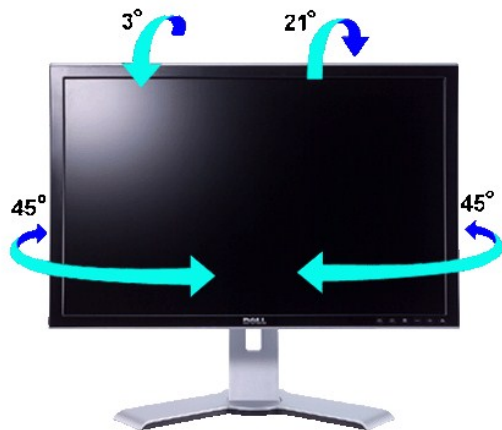


1. Attach mechanism
2. Headphone connectors
3. Power indicator
4. Power/Volume control

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 detached and extended when the monitor is shipped from the factory.

Vertical Extension

Stand extends vertically up to 100mm via the Lock down/release button.



NOTE: If you monitor gets locked down:

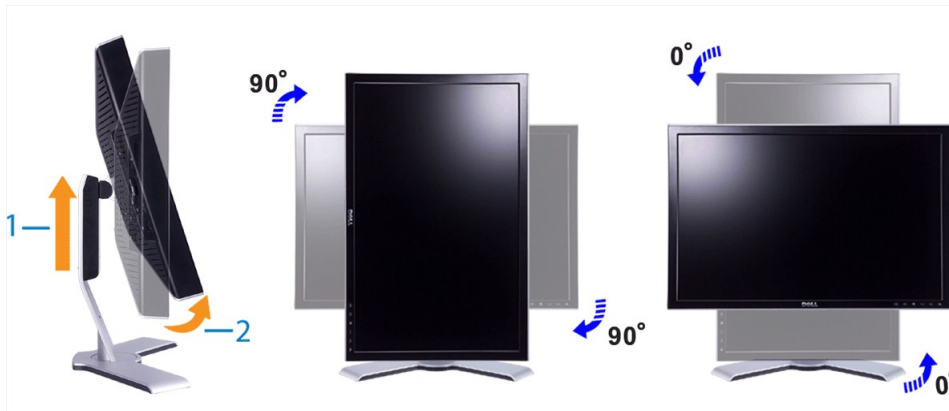
1. Push the monitor down.
2. Press the Lock down/release button on the bottom rear of stand to unlock the monitor.
3. Lift the monitor up and extend the stand to the desired height.



NOTE: Before relocating or moving the monitor to a different location, make sure that the stand is locked down. To lock it down, lower the height of the panel until it clicks and is locked into place.

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 take advantage of the "Display Rotation" function (Landscape versus Portrait view) an updated graphics driver is required for your Dell™ Computer not included with this monitor. Please download the graphics driver from support.dell.com and refer to 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.)

Adjusting the Rotating Settings of Your Operating System

After you have rotated your monitor, you need to complete the procedure below to rotate your operating system.

NOTE: 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 your operating system.

1. Right-click on the desktop and click **Properties**.
2. Select the **Settings** tab and click **Advanced**.
3. If you have ATI graphics card, select the **Rotation** tab and set the preferred rotation.
If you have nVidia graphics card, click the **nVidia** tab, in the left-hand column select **NVRotate**, and then select the preferred rotation.
If you have 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™ 2408WFP Flat Panel Monitor

Important instructions to set the display resolution to 1920x1200 (Optimal)

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 **1920x1200**.
4. Click **OK**.

If you do not see **1920x1200** 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™ 2408WFP Flat Panel Monitor

- [User Guide](#)
- [Important instructions to set the display resolution to 1920x1200\(Optimal\)](#)

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Model 2408WFP


December 2007 Rev. A00

Setting Up the Monitor

Dell™ 2408WFP Flat Panel Monitor User's Guide

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

Attaching the Stand

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



Place the stand on a flat surface and follow these steps to attach the monitor stand:

1. Fit the groove on the back of the monitor to the two tabs on the upper part of the stand.
2. Lower the monitor so that the monitor mounting area snaps on to or locks on to the stand.

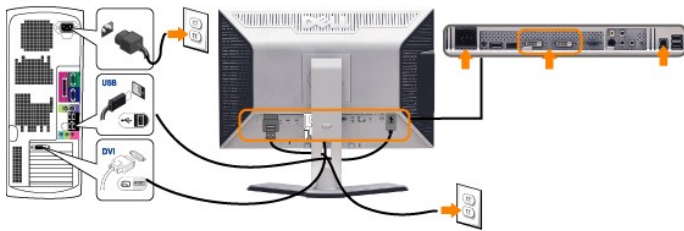
Connecting Your Monitor

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

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

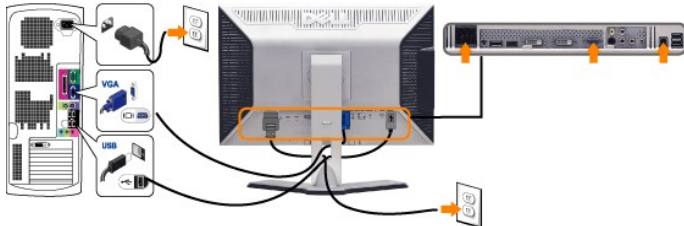
1. Turn off your computer and disconnect the power cable.
1. Connect either the white (digital DVI-D) display connector cable, the blue (analog VGA) display connector cable or the black DisplayPort cable to the corresponding video port on the back of your computer. Do not use all the cables on the same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

Connecting the white DVI cable

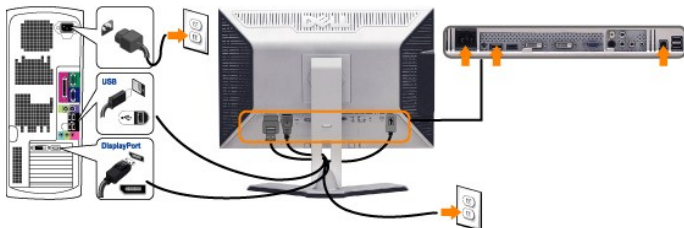


NOTE: Your monitor supports two DVI ports. You can either choose DVI-D 1 or DVI-D 2 via source select button.

Connecting the blue VGA cable



Connecting the black DisplayPort 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 your monitor setup:

- 1 Plug the power cables for your computer and monitor into a nearby outlet.
- 1 Turn on the monitor and the computer.
- 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




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.

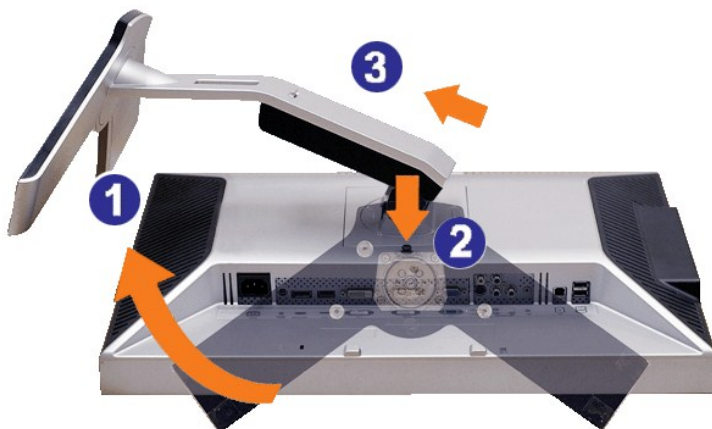
 **NOTICE:** Do not use with any device other than Dell Soundbar

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

Removing the Stand

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

Complete the following steps to remove the stand:



1. Rotate the stand to allow access to the stand release button.
 2. Press and hold the stand release button.
 3. Lift the stand up and away from the monitor.
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Solving Problems

Dell™ 2408WFP Flat Panel Monitor User's Guide

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

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

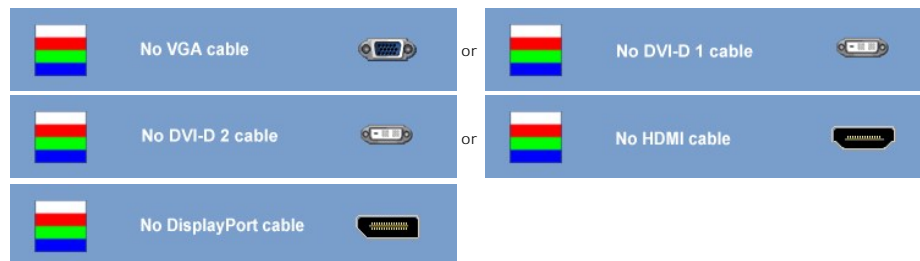
Troubleshooting Your Monitor

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



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

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

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

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	1. Ensure that the video cable connecting the monitor and the computer is properly connected and secure.


		<ul style="list-style-type: none"> 1 Verify that the power outlet is functioning properly using any other electrical equipment. 1 Ensure that the power button 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.
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 ration (16:10).
Shaky/Jittery Video	Wavy picture or fine movement	<ul style="list-style-type: none"> 1 Perform Auto Adjust via OSD. 1 Adjust the Phase and Pixel Clock controls via OSD. 1 Reset the monitor to Factory Settings. 1 Check environmental factors. 1 Relocate the monitor and test in another room.
Missing Pixels	LCD screen has spots	<ul style="list-style-type: none"> 1 Cycle power on-off. 1 Pixel that is permanently off is a natural defect that can occur in LCD technology.
Stuck-on Pixels	LCD screen has bright spots	<ul style="list-style-type: none"> 1 Cycle power on-off. 1 Pixel that is permanently off is a natural defect that can occur in LCD technology.
Brightness Problems	Picture too dim or too bright	<ul style="list-style-type: none"> 1 Reset the monitor to Factory Settings. 1 Auto Adjust via OSD. 1 Adjust brightness & contrast controls via OSD.
Geometric Distortion	Screen not centered correctly	<ul style="list-style-type: none"> 1 Reset the monitor to Factory Settings. 1 Auto Adjust via OSD. 1 Adjust brightness & contrast controls via OSD. <p>NOTE: When using '2: DVI-D', the positioning adjustments are not available.</p>
Horizontal/Vertical Lines	Screen has one or more lines	<ul style="list-style-type: none"> 1 Reset the monitor to Factory Settings. 1 Perform Auto Adjust via OSD. 1 Adjust Phase and Pixel Clock controls via OSD. 1 Perform monitor self-test feature check and determine if these lines are also in self-test mode. 1 Check for bent or broken pins in the video cable connector. <p>NOTE: When using '2: DVI-D', the Pixel Clock and Phase adjustments are not available.</p>
Synchronization Problems	Screen is scrambled or appears torn	<ul style="list-style-type: none"> 1 Reset the monitor to Factory Settings. 1 Perform Auto Adjust via OSD. 1 Adjust Phase and Pixel Clock controls via OSD. 1 Perform monitor self-test feature check to determine if scrambled screen appears in self-test mode. 1 Check for bent or broken pins in the video cable connector. 1 Restart the computer in the <i>safe mode</i>.
Safety Related Issues	Visible signs of smoke or sparks	<ul style="list-style-type: none"> 1 Do not perform any troubleshooting steps. 1 Contact Dell immediately.
Intermittent Problems	Monitor malfunctions on & off	<ul style="list-style-type: none"> 1 Ensure that the video cable connecting the monitor to the computer is connected properly and is secure. 1 Reset the monitor to Factory Settings. 1 Perform monitor self-test feature check to determine if the intermittent problem occurs in self-test mode.
Missing Color	Picture missing color	<ul style="list-style-type: none"> 1 Perform monitor self-test feature check. 1 Ensure that the video cable connecting the monitor to the computer is connected properly and is secure. 1 Check for bent or broken pins in the video cable connector..
Wrong Color	Picture color not good	<ul style="list-style-type: none"> 1 Change the Color Setting Mode in the Color Settings OSD to Graphics or Video depending to the application. 1 Try different Color Preset Settings in Color Settings OSD. Adjust R/G/B value in Color Settings OSD if the Color Management is turned off. 1 Change the Input Color Format to PC RGB or YPbPr in the Advance Setting OSD.
Image retention from a static image left on the monitor for a long period of time	Faint shadow from the static image displayed appears on the screen	<ul style="list-style-type: none"> 1 Use the Power Management feature to turn off the monitor at all times when not in use (for more information, see Power Management Modes). 1 Alternatively, use a dynamically changing screensaver.

Video Problems

COMMON SYMPTOMS	WHAT YOU EXPERIENCE	POSSIBLE SOLUTIONS
No Video	No signal indicator is displayed	<ol style="list-style-type: none"> 1 Check Video Input Selection <ul style="list-style-type: none"> o Composite: Yellow colored RCA jack o S-Video: Typically a round 4 pin jack o Component: Red, Blue, Green colored RCA jacks
Low Quality DVD playback	Picture not crisp and some color distortion	<ol style="list-style-type: none"> 1 Check DVD connection <ul style="list-style-type: none"> o Composite gives good picture o S-Video gives better picture o Component: Red, Blue, Green colored RCA jacks
Blinking Video	Video is blinking or discontinuous	<ol style="list-style-type: none"> 1 Check DVD connection <ul style="list-style-type: none"> o Composite gives good picture o S-Video gives better 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 will display a 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	<ol 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	<ol style="list-style-type: none"> 1 Turn the monitor off and unplug the power cord and then plug back and power on
The monitor will not go into power saving mode.	No picture, the LED light is green. When press "+", "-" or "Menu" key, the message " No S-Video input signal ", " No Composite input signal " or " No Component input signal " will appear.	<ol style="list-style-type: none"> 1 Move mouse or hit any key on the keyboard on the computer or activate video player, then access the OSD to set Audio to " off " state.
No Input Signal when user controls pressed	No picture, the LED light is green. When press "+", "-" or "Menu" key, the message " No S-Video input signal ", " No Composite input signal " or " No Component input signal " will appear.	<ol style="list-style-type: none"> 1 Check the signal source Make sure the Computer is not in power saving by moving mouse or pressing any key on the keyboard. 1 Check to make sure Video Source to S-Video, Composite or Component is powered and playing video media. 1 Check whether the signal cable is plugged in and seated properly. Re-plug the signal cable 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.	<ol style="list-style-type: none"> 1 Due to the non-standard formats of DVDs, the monitor may not show the full screen pictures.

 **NOTE:** When choosing DVI-D, DisplayPort, HDMI, S-Video, 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	<ol 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.	<ol 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. 2408WFP)	<ul style="list-style-type: none"> 1 Turn the Power/Volume knob on the Soundbar clockwise to the middle position; check if the power indicator (green LED) on the front of the Soundbar is illuminated. 1 Confirm that the power cable from the Soundbar is plugged into the monitor. 1 Confirm that the monitor has power. 1 If the monitor has no power, see Monitor Specific Troubleshooting for monitor common 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 volume setting. 1 Clean and reseat the audio line-in plug. 1 Test the Soundbar using another audio source (i.e. portable CD player).
Distorted Sound	Computer's sound card is used as the audio source.	<ul style="list-style-type: none"> 1 Clear any obstructions between the Soundbar and the user. 1 Confirm that the audio line-in plug is completely inserted into the jack of the sound card. 1 Set all Windows volume controls to their midpoints. 1 Decrease the volume of the audio application. 1 Turn the Power/Volume knob on the Soundbar counter-clockwise to a lower volume setting. 1 Clean and reseat 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 the audio source. 1 Decrease the volume of the audio source. 1 Turn the Power/Volume knob on the Soundbar counter-clockwise to a lower volume setting. 1 Clean and reseat the audio line-in plug.
Unbalanced Sound Output	Sound from only one side of Soundbar	<ul style="list-style-type: none"> 1 Clear any obstructions between the Soundbar and the user. 1 Confirm that the audio line-in plug is completely inserted into the jack of the sound card or audio source. 1 Set all Windows audio balance controls (L-R) to their midpoints. 1 Clean and reseat the audio line-in plug. 1 Troubleshoot the computer's sound card. 1 Test the Soundbar using another audio source (i.e. portable CD player).
Low Volume	Volume is too low.	<ul style="list-style-type: none"> 1 Clear any obstructions between the Soundbar and the user. 1 Turn the Power/Volume knob on the Soundbar clockwise to the maximum volume setting. 1 Set all Windows volume controls to their maximum. 1 Increase the volume of the audio application. 1 Test the Soundbar using another audio source (i.e. portable CD player).

Troubleshooting the Card Reader

 **NOTICE:** 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.	<p>A. Right-click My Computer on the desktop, and then click Manage. Under Computer Management, click Desk Management.</p> <p>B. In the list of drives in the right panel, right-click Removable Device and then click Change Drive Letter and Paths.</p> <p>C. Click Change, and in the drop-down box, specify a drive letter for the Removable Device, choosing one that is not assigned to the mapped network drives.</p> <p>D. Click OK, and then click OK again</p>
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.

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