

Dell™ 1909W Flat Panel Monitor User's Guide

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Notes, Cautions, and Warnings



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



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



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

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Model 1909Wf 1909Wb

January 2010 Rev. A02

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About Your Monitor


Dell™ 1909W 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.

 **NOTE:** Stand and cables are not included when purchased with OptiPlex™ USFF 780/ OptiPlex™ SFF 980 AIO Stands.

 **NOTE:** To set up with the respective AIO stand, please refer to the respective AIO stand guide for setup instructions.

	<ul style="list-style-type: none">• Monitor
	<ul style="list-style-type: none">• Stand



- Power Cable



- VGA Cable (attached to the monitor)



- DVI Cable



- USB up stream cable (enables the USB ports on the monitor)



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

Product Features

The **1909W** flat panel display has an active matrix, thin-film transistor (TFT), liquid crystal display (LCD). The monitor features include:

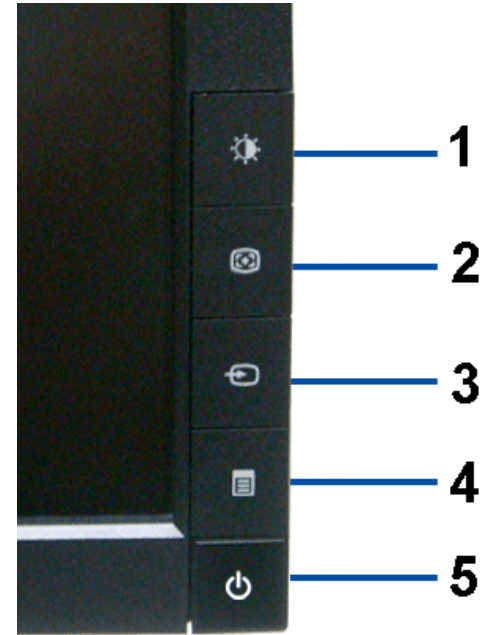
- 19-inch (482.6 mm) viewable area display (Measured diagonally) .
- 1440x900 resolution, plus full-screen support for lower resolutions.
- Wide viewing angle to allow viewing from a sitting or standing position, or while moving from side-to-side.
- Tilt, Swivel, Vertical Extension and rotate adjustment capabilities.
- Removable 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 media which includes an information file (INF), Image color Matching File (ICM), and product documentation.
- Energy Saver feature for Energy Star compliance.
- Security lock slot.
- Asset Management Capable.
- EPEAT™ GOLD compliant.

Identifying Parts and Controls

Front View



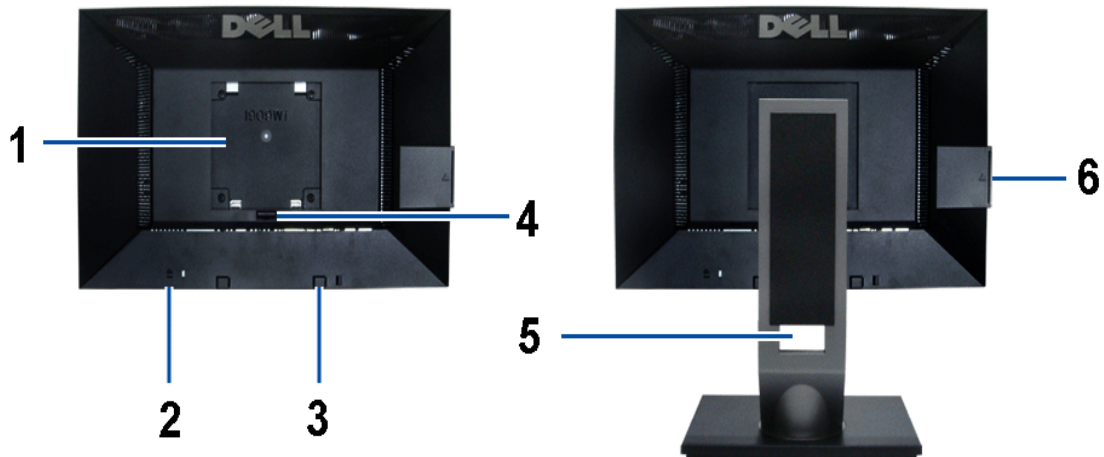
Front View



Front panel controls

Label	Description
1	Brightness & Contrast
2	Automatic adjust
3	Input source Select
4	Menu
5	Power (with power light indicator)

Back View



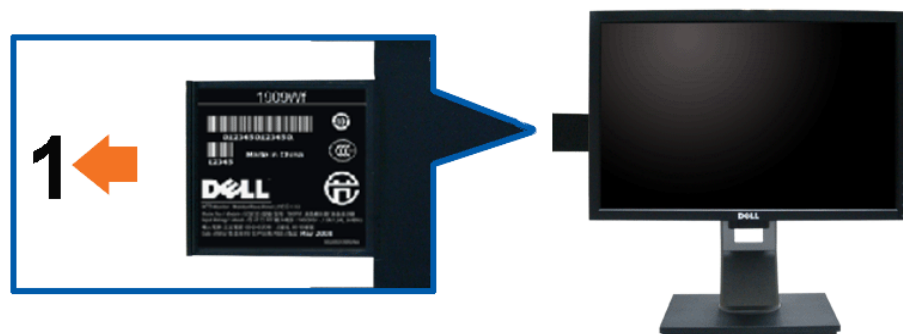
Back view

Back View with monitor stand

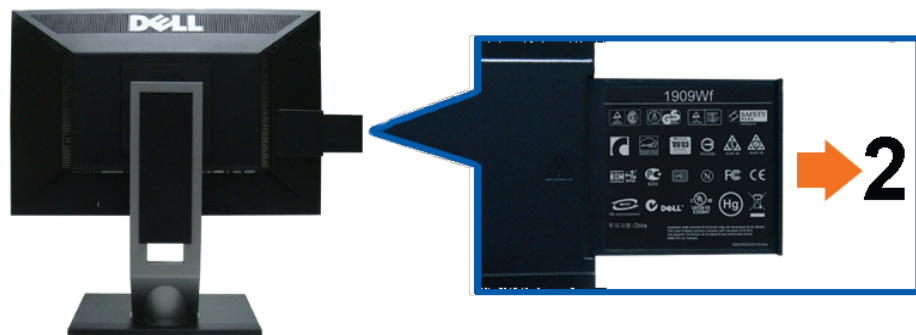
Label	Description	Use
1	VESA mounting holes (100mm) (Behind attached base plate)	To mount the monitor.
2	Security lock slot	To help secure your monitor.
3	Dell Soundbar mounting brackets	To attach the optional Dell Soundbar.
4	Stand Release Button	To press to release the stand.
5	Cable management slot	To organize cables by placing them through the slot.
6	label compartment	To pull out to view labels

Note: The regulatory rating label and barcode serial number label is revealed when plate is pulled out from USB compartment.

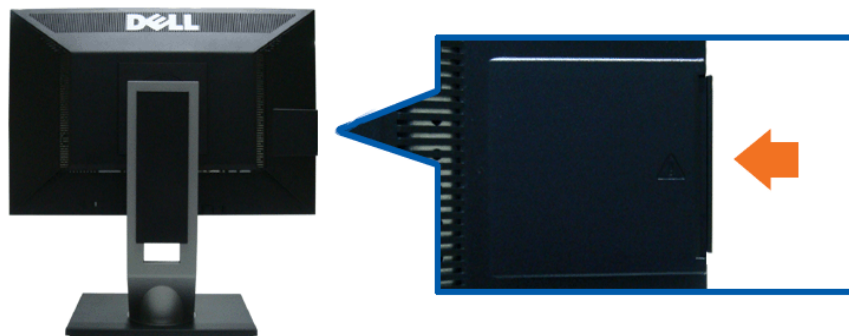
Label View



Monitor front view with pull-out card extended to reveal barcode serial number marks.



Monitor rear view with pull-out card extended to reveal regulatory marks.

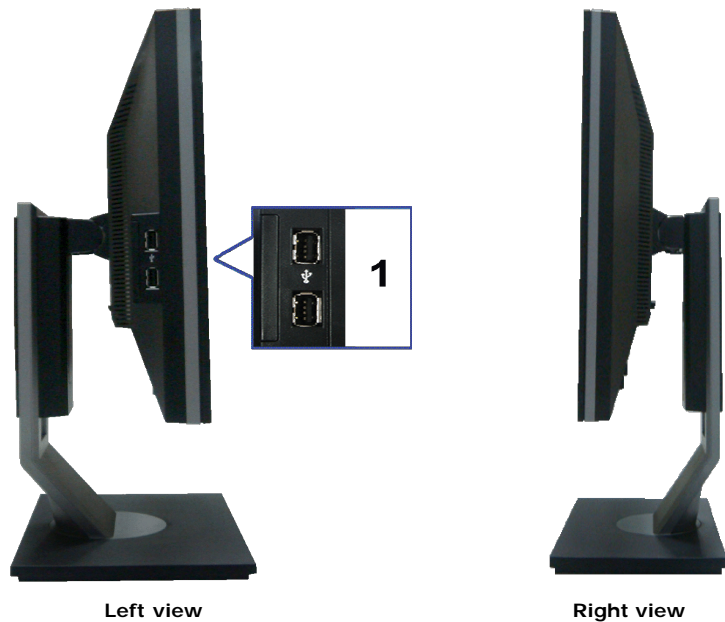


Monitor rear view with pull-out card inserted back to provide a clean back view.

Label	Description	Use
1	Barcode serial number label	To contact Dell for technical support.
2	Regulatory label	Lists the regulatory approvals.

Note: The regulatory rating label and barcode serial number label is revealed when plate is pulled out from USB compartment.

Side View

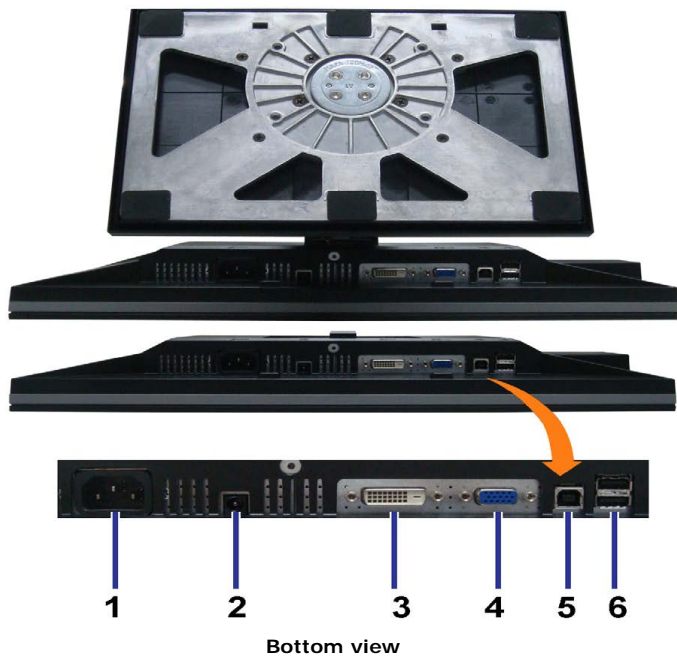


Left view

Right view

Label	Description
1	USB downstream ports

Bottom View



Bottom view

Label	Description
1	AC power cord connector
2	Dell Soundbar power connector
3	DVI connector
4	VGA connector
5	USB upstream port
6	USB downstream ports

Monitor Specifications

Flat Panel Specifications

Screen type	Active matrix - TFT LCD
Panel type	TN
Screen dimensions	19 inches (19-inch viewable image size)
Preset display area:	408.24(H)X255.15(V)
Horizontal	408.24 mm (16.08 inches)
Vertical	255.15 mm (10.05 inches)
Pixel pitch	0.2835 mm

Viewing angle	160° (vertical) typical, 160° (horizontal) typical
Luminance output	300 CD/m ² (typical)
Contrast ratio	1000 to 1 (typical)
Faceplate coating	Antiglare with hard-coating 3H
Backlight	CCFL (2) edgelight system
Response Time	5 ms typical
Color Gamut	83%*

*[1909W] color gamut (typical) is based on CIE1976 (83%) and CIE1931 (72%) test standards.

Resolution Specifications

Horizontal scan range	30 kHz to 83 kHz (automatic)
Vertical scan range	56 Hz to 75 Hz (automatic)
Optimal preset resolution	1440 X 900 at 60 Hz
Highest preset resolution	1440 x 900 at 60 Hz

Supported Video Modes

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

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal/Vertical)
VESA, 720 x 400	31.5	70.0	28.3	-/+
VESA, 640 x 480	31.5	60.0	25.2	-/-
VESA, 640 x 480	37.5	75.0	31.5	-/-
VESA, 800 x 600	37.9	60.3	40	+/+
VESA, 800 x 600	46.9	75.0	40	+/+
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 800	61.6	60.0	83.5	+/-
VESA, 1280 x 1024	64.0	60.0	108.0	+/+
VESA, 1280 x 1024	80.0	75.0	135.0	+/+
VESA, 1440 x 900	56.0	60.0	106.0	-/+

Electrical Specifications

Video input signals	Analog RGB, 0.7 Volts +/- 5%, positive polarity at 75 ohm input impedance Digital DVI-D TMDS, 600mV for each differential line, positive polarity at 50 ohm input impedance
Synchronization input signals	Separate horizontal and vertical synchronizations, polarity-free TTL level, SOG (Composite SYNC on green)
AC input voltage/frequency/current	100 to 240 VAC/50 or 60 Hz \pm 3 Hz/1.5A (Max.)
Inrush current	120 V: 30 A (Max.) 240 V: 60 A (Max.)

Physical Characteristics

Connector type	15-pin D-subminiature, blue connector; DVI-D, white connector
Signal cable type	Digital: Detachable, DVI-D, Solid pins, shipped detached from the monitor

	Analog: Detachable, D-Sub, 15pins, shipped attached to the monitor
Dimensions (with stand)	
Height (Compressed)	12.39 inches (314.68 mm)
Height (Extended)	17.13 inches (434.68 mm)
Width	17.45 inches (442.87 mm)
Depth	6.92 inches (175.64 mm)
Dimensions (without stand)	
Height	11.42 inches (289.77 mm)
Width	17.45 inches (442.87 mm)
Depth	2.32 inches (59.00 mm)
Stand dimensions	
Height (Compressed)	9.48 inches (240.80 mm)
Height (Extended)	14.22 inches (360.80 mm)
Width	9.85 inches (249.92 mm)
Depth	6.92 inches (175.64 mm)
Weight	
Weight with packaging	14.09 lbs (6.40 kg)
Weight with stand assembly and cables	12.34 lbs (5.60 kg)
Weight without stand assembly (For wall mount or VESA mount considerations - no cables)	8.25 lbs (3.74 kg)
Weight of stand assembly	3.18 lbs (1.44 kg)

Environmental Characteristics

Temperature	
Operating	5° to 35° C (41° to 95°F)
Non-operating	Storage: -20° to 60° C (-4° to 140° F) Shipping: -20° to 60° C (-4° to 140° F)
Humidity	
Operating	10% to 80% (non-condensing)
Non-operating	Storage: 5% to 90% (non-condensing) Shipping: 5% to 90% (non-condensing)
Altitude	
Operating	3,657.60 m (12,000 ft) max
Non-operating	12,192 m (40,000 ft) max
Thermal dissipation	256.08 BTU/hour (maximum)

119.50 BTU/hour (typical)

Power Management Modes

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

VESA Modes	Horizontal Sync	Vertical Sync	Video	Power Indicator	Power Consumption
Normal operation	Active	Active	Active	Blue	25 W (typical)
Active-off mode	Inactive	Inactive	Blanked	Amber	Less than 1 W
Switch off	-	-	-	Off	Less than 1 W

The OSD will only function in the *normal operation* mode. When the **menu** or **plus** buttons are pressed in Active-off mode, one of the following messages will be displayed:
Analog Input In Power Save Mode. Press Computer Power Button or Any Key on Keyboard or Move Mouse
OR

Digital Input In Power Save Mode. Press Computer Power Button or Any Key on Keyboard or Move Mouse

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

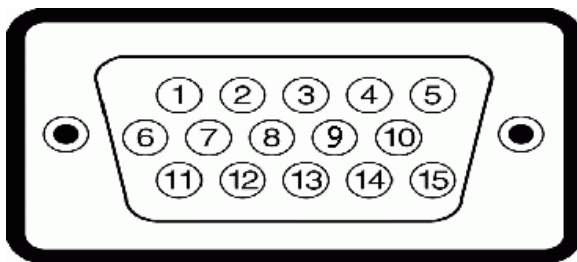


NOTE: This monitor is **ENERGY STAR**®-compliant as well as TCO '03 power management compatible.

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

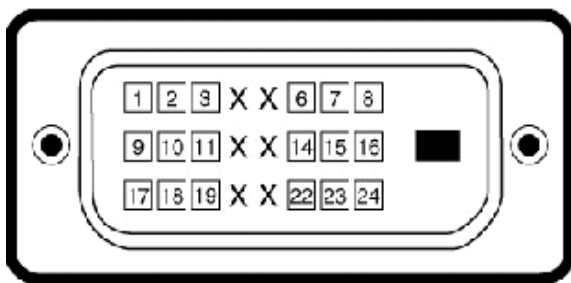
Pin Assignments

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-

Plug and Play Capability

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



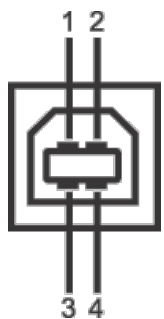
Universal Serial Bus (USB) Interface

This section gives you information about the USB ports that are available on the left side of your monitor.

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

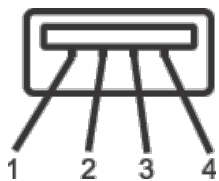
Transfer speed	Data Rate	Power Consumption
High speed	480 Mbps	2.5W (Max., each port)
Full speed	12 Mbps	2.5W (Max., each port)
Low speed	1.5 Mbps	2.5W (Max., each port)

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 upstream - back
- 4 downstream - 2 on back; 2 on left side

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

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

LCD Monitor Quality and Pixel Policy

During the LCD monitor manufacturing process, it is not uncommon for one or more pixels to become fixed in an unchanging state. The visible result is a fixed pixel that appears as an extremely tiny dark or bright discolored spot. In almost every case, these fixed pixels are hard to see and do not detract from display quality or usability. A display with 1 to 5 fixed pixels is considered normal and within competitive standards. For more information, see Dell Support site at: support.dell.com.

Maintenance Guidelines

Cleaning Your Monitor

 **WARNING:** Read and follow the [safety instructions](#) before cleaning the monitor.

 **WARNING:** Before cleaning the monitor, unplug the monitor power cable from the electrical outlet.

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

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

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Setting Up the Monitor

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- [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.

 **NOTE:** This is applicable for a monitor with a stand. When the OptiPlex™ USFF 780/ OptiPlex™ SFF 980 AIO stand is bought, please refer to the respective AIO stand setup guide for set up instructions.



To attach the monitor stand:

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

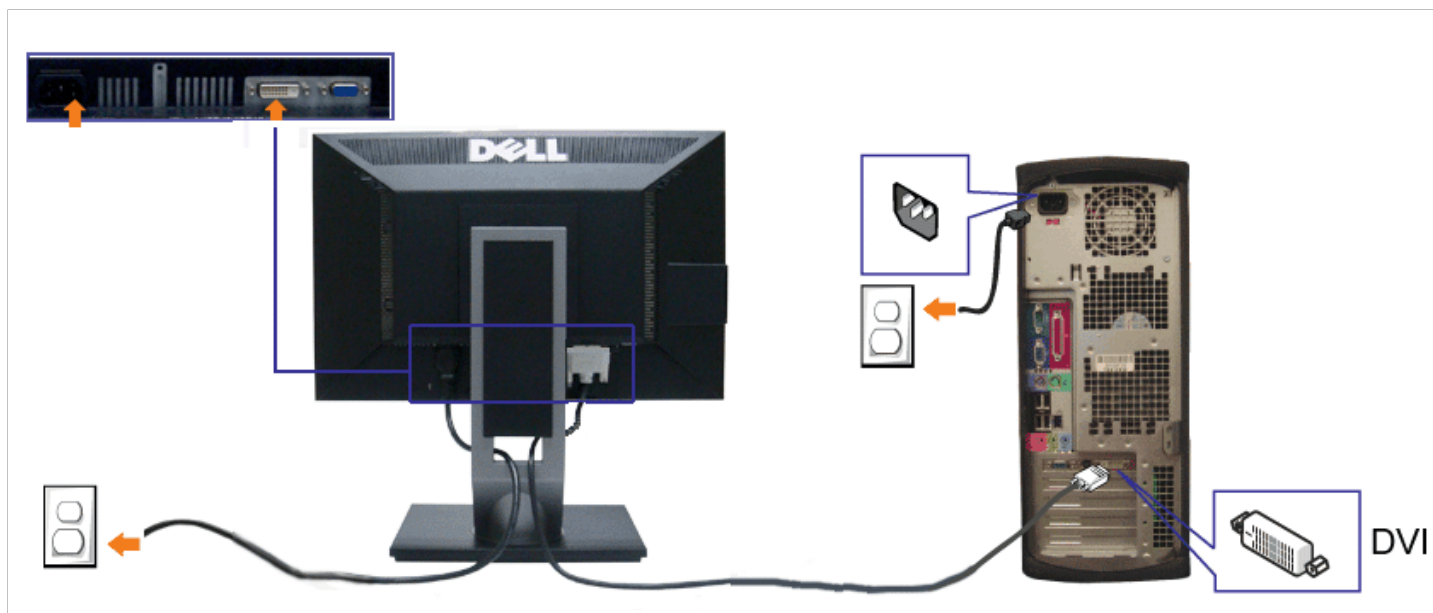
Connecting Your Monitor

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

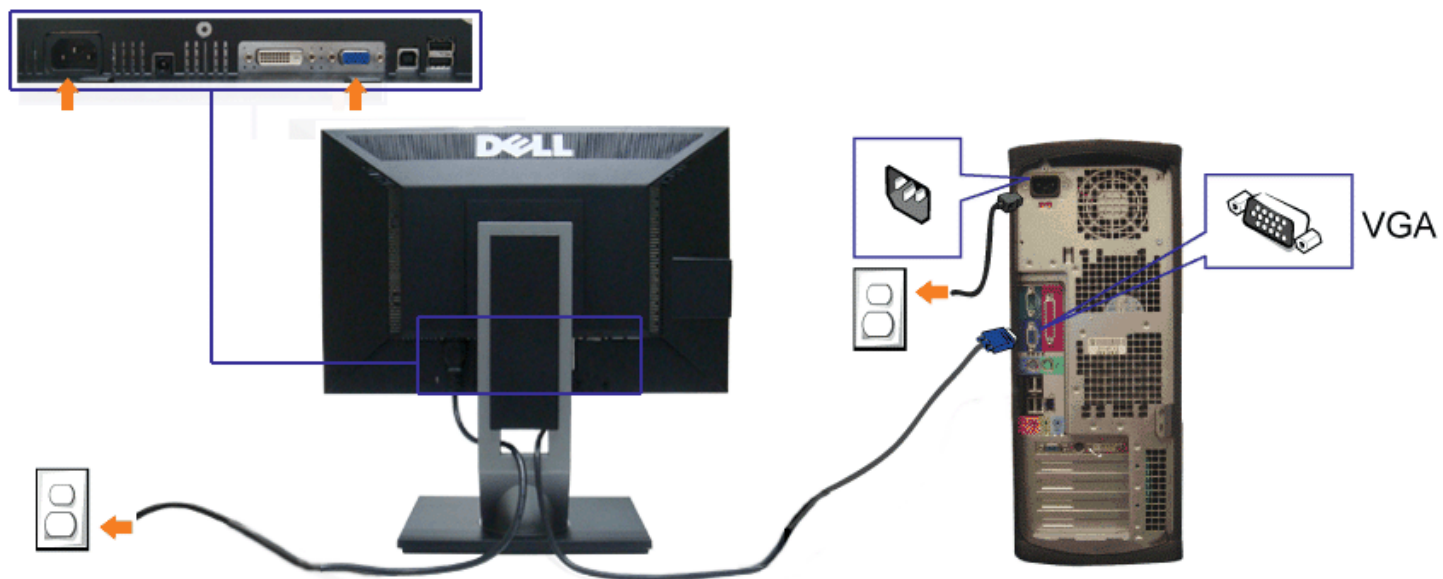
To connect your monitor to the computer:

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

Connecting the white DVI cable



Connecting the blue VGA cable



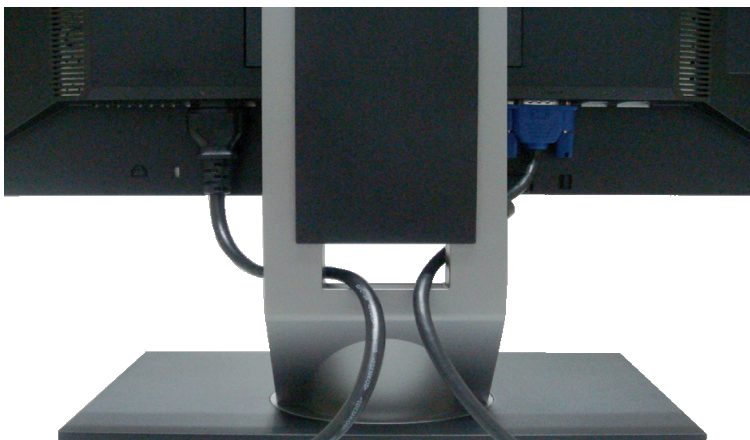
NOTE: The Graphics are used for the purpose of illustration only. Appearance of the computer may vary.

Connecting the USB cable

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

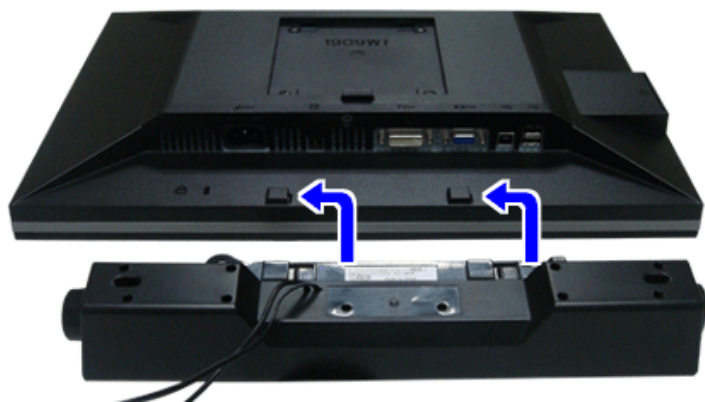
1. Connect the upstream USB cable (cable supplied) to the monitor upstream port and then to the appropriate USB port on your computer (see [bottom](#) view for details).
2. Connect USB peripherals to the downstream USB ports (side or bottom) on the monitor. (See [side](#) or [bottom](#) view for details.)
3. Plug the power cables for your computer and monitor into a nearby outlet.
4. Turn on the monitor and the computer.
If your monitor displays an image, installation is complete. If it does not display an image, see [Solving Problems](#).
5. Use the cable holder 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 organize all cables as shown above.

Attaching the Dell Soundbar




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

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

1. Working from the rear of the monitor, attach the Soundbar 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 to the Audio Power DC-out socket (see [bottom](#) view for details).
4. Insert the lime-green mini stereo plug from the rear of the Soundbar into the computer's audio output jack.

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.

 **NOTE:** This is applicable for a monitor with a stand. When the OptiPlex™ USFF 780/ OptiPlex™ SFF 980 AIO stand is bought, please refer to the respective AIO stand setup guide for set up instructions.



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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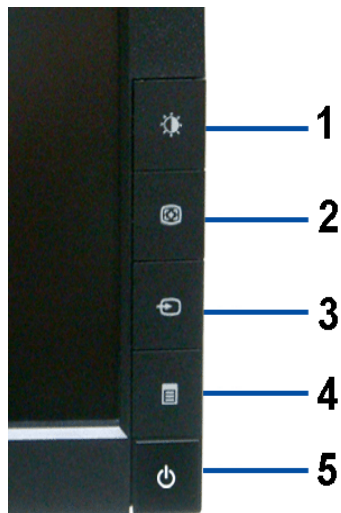
Operating the Monitor



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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, Rotation](#)
- [Rotating the monitor](#)
- [Adjusting the Rotation Display Settings of Your System](#)

Using the Front Panel

Use the control buttons on the front of the monitor to adjust the characteristics of the image being displayed. As you use these buttons to adjust the controls, an OSD shows the numeric values of the characteristics as they change.




Front panel Button		Description
A	 Brightness&Contrast	Use this button to directly access the "Brightness/Contrast" menu or to increase the values of the selected menu option.
B		Use Auto Adjust to activate automatic setup/adjustment or to increase the values of the selected menu option. The following dialog appears on a black screen as the monitor self-adjusts to the current input:

	<p>Automatic Adjust /Adjust Up</p>	<div data-bbox="537 45 1341 183" style="background-color: black; color: white; text-align: center; padding: 10px;"> <h2>Auto Adjustment in Progress...</h2> </div> <p>Auto Adjustment allows the monitor to self-adjust to the incoming video signal. After using Auto Adjustment, you can further tune your monitor by using the Pixel Clock (Coarse) and Phase (Fine) controls under Image Settings.</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>
<p>C</p>	<div data-bbox="323 347 457 418" style="text-align: center;"> </div> <p>Input Source Select/Adjust Down</p>	<p>Use this button to select the input source or to decrease the values of the selected menu option. Use the Input source button to select one of the two different video signals that may be connected to your monitor:</p> <ul style="list-style-type: none"> • VGA input • DVI-D input <div style="display: flex; justify-content: space-around; align-items: center;"> <div data-bbox="537 483 1001 630" style="background-color: black; color: white; padding: 5px;"> <p>1: Auto Detect(Analog) </p> </div> <p>or</p> <div data-bbox="1058 475 1522 621" style="background-color: black; color: white; padding: 5px;"> <p>1: Auto Detect(Digital) </p> </div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <div data-bbox="537 651 1001 797" style="background-color: black; color: white; padding: 5px;"> <p>2: Analog Input </p> </div> <p>or</p> <div data-bbox="1058 643 1522 789" style="background-color: black; color: white; padding: 5px;"> <p>3: Digital Input </p> </div> </div> <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 appears.</p> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <div data-bbox="537 886 1073 1032" style="background-color: black; color: white; padding: 5px;"> <div style="display: flex; align-items: center;"> <p>No VGA Cable</p> </div> <p style="text-align: right; margin-right: 20px;">Dell 1909W</p> </div> <p>or</p> <div data-bbox="1104 886 1640 1032" style="background-color: black; color: white; padding: 5px;"> <div style="display: flex; align-items: center;"> <p>No DVI-D Cable</p> </div> <p style="text-align: right; margin-right: 20px;">Dell 1909W</p> </div> </div>
<p>D</p>	<div data-bbox="359 1114 417 1182" style="text-align: center;"> </div> <p>Menu</p>	<p>Use the MENU button to launch the on-screen display (OSD) and select the OSD Menu. See Accessing the Menu System.</p>
<p>E</p>	<div data-bbox="359 1295 426 1370" style="text-align: center;"> </div> <p>Power (with power light indicator)</p>	<p>Use the Power button to turn the monitor on and off.</p> <p>The Blue LED indicates the monitor is on and fully functional. An amber LED indicates DPMS power save mode.</p>

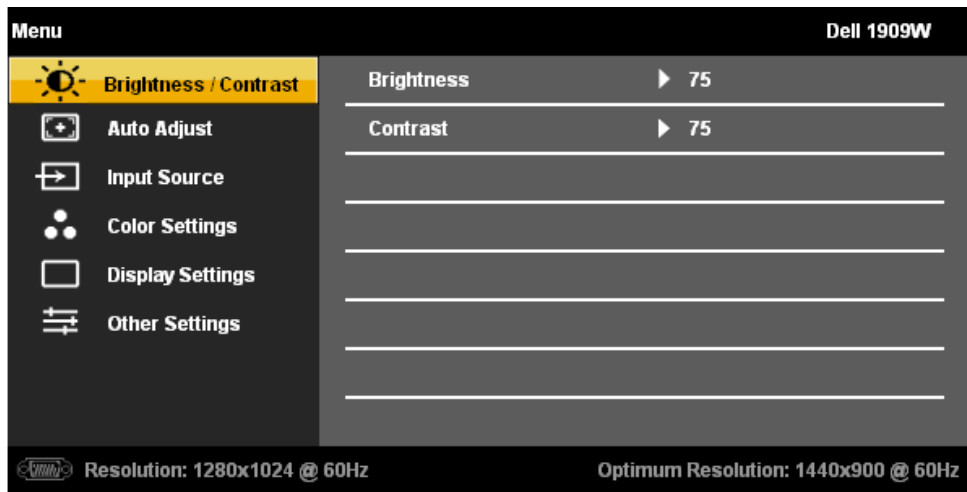
Using the On-Screen Display (OSD) Menu

Accessing the Menu System

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

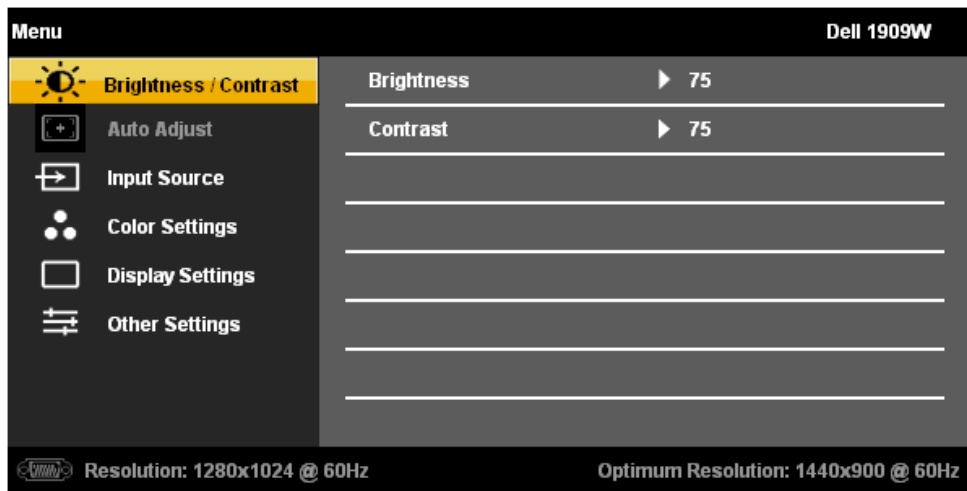
1. Push the MENU button to launch the OSD menu and display the main menu.


Main Menu for Analog (VGA) Input










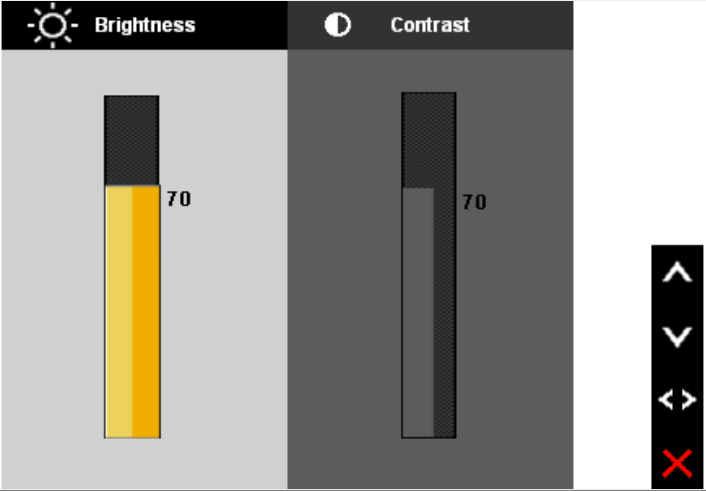




or













Main Menu for DVI Input

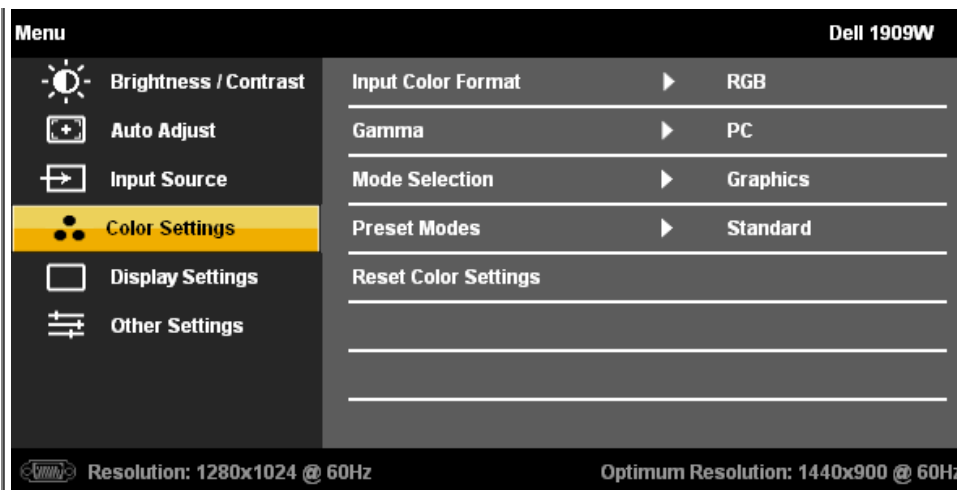


 **NOTE:** AUTO ADJUST is only available when you use the analog (VGA) connector.

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 following 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 "Menu/Exit" option to return to the main menu or exit the OSD menu.

Icon	Menu and Submenus	Description
	BRIGHTNESS & CONTRAST	Use this menu to activate Brightness/Contrast adjustment.
		
	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).
	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>AUTO ADJUST</p>	<p>Even though your computer recognizes your monitor on startup, the Auto Adjustment function optimizes the display settings for use with your particular setup.</p> <div data-bbox="466 198 1276 337" style="background-color: black; color: white; text-align: center; padding: 20px; margin: 10px 0;"> <p>Auto Adjustment in Progress...</p> </div> <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>												
	<p>INPUT SOURCE</p>	<p>Use the INPUT SOURCE menu to select between different video signals that may be connected to your monitor.</p> <div data-bbox="466 506 1554 993" style="background-color: #333; color: white; padding: 10px;"> <div style="display: flex; justify-content: space-between;"> Menu Dell 1909W </div> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 5px;"> Brightness / Contrast</td> <td style="padding: 5px;"><input checked="" type="checkbox"/> Auto Select</td> </tr> <tr> <td style="padding: 5px;"> Auto Adjust</td> <td style="padding: 5px;">VGA </td> </tr> <tr> <td style="padding: 5px;"> Input Source</td> <td style="padding: 5px;">DVI-D </td> </tr> <tr> <td style="padding: 5px;"> Color Settings</td> <td style="padding: 5px;">_____</td> </tr> <tr> <td style="padding: 5px;"> Display Settings</td> <td style="padding: 5px;">_____</td> </tr> <tr> <td style="padding: 5px;"> Other Settings</td> <td style="padding: 5px;">_____</td> </tr> </table> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> Resolution: 1280x1024 @ 60Hz Optimum Resolution: 1440x900 @ 60Hz </div> <div style="position: absolute; right: 10px; top: 50px; text-align: center;">     </div> </div>	Brightness / Contrast	<input checked="" type="checkbox"/> Auto Select	Auto Adjust	VGA	Input Source	DVI-D	Color Settings	_____	Display Settings	_____	Other Settings	_____
Brightness / Contrast	<input checked="" type="checkbox"/> Auto Select													
Auto Adjust	VGA													
Input Source	DVI-D													
Color Settings	_____													
Display Settings	_____													
Other Settings	_____													
	<p>AUTO Select</p>	<p>Push  to select the Auto Select, the monitor will auto detect either VGA input or DVI-D input.</p>												
	<p>VGA</p>	<p>Select VGA input when you are using the analog (VGA) connector. Push  to select the VGA input source.</p>												
	<p>DVI-D</p>	<p>Select DVI-D input when you are using the Digital (DVI) connector. Push  to select the DVI input source.</p>												
	<p>COLOR SETTINGS</p>	<p>Use the Color Settings to adjust the color setting mode and color temperature. There are different color setting sub-menus for VGA/DVI-D and Video input.</p>												

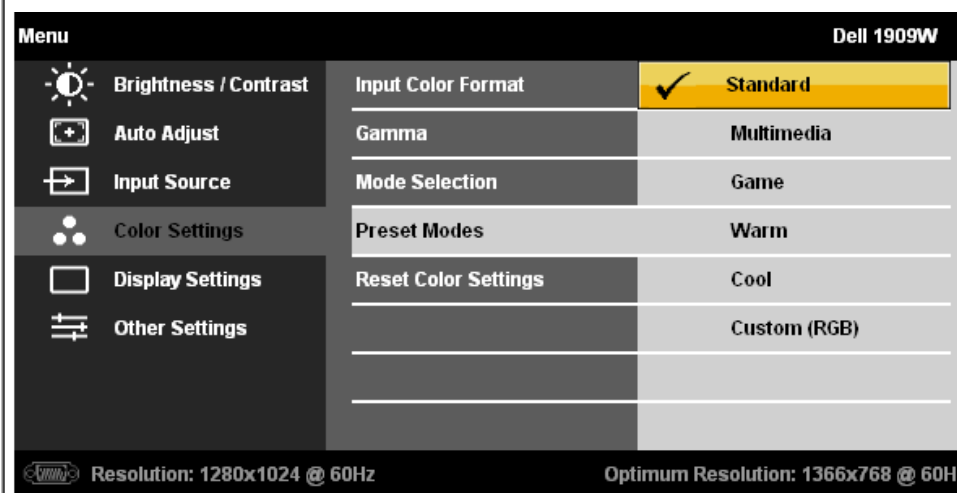


Input Color Format Choose the RGB option if monitor is connected to a PC or a DVD using a VGA or DVI cable. Choose the YPbPr option if monitor is connected to a DVD by a YPbPr to VGA or YPbPr to DVI cable or if the DVD color output setting is not RGB.

Mode Selection You can choose Graphics or Video according to the input signal. Select Graphics if connecting a PC to your monitor; for connecting DVD, STB or VCR to your monitor, Video is recommended.

Preset Modes When you select Graphics, you can choose Standard, Multimedia, Game, Warm, Cool, or Custom (R,G,B);

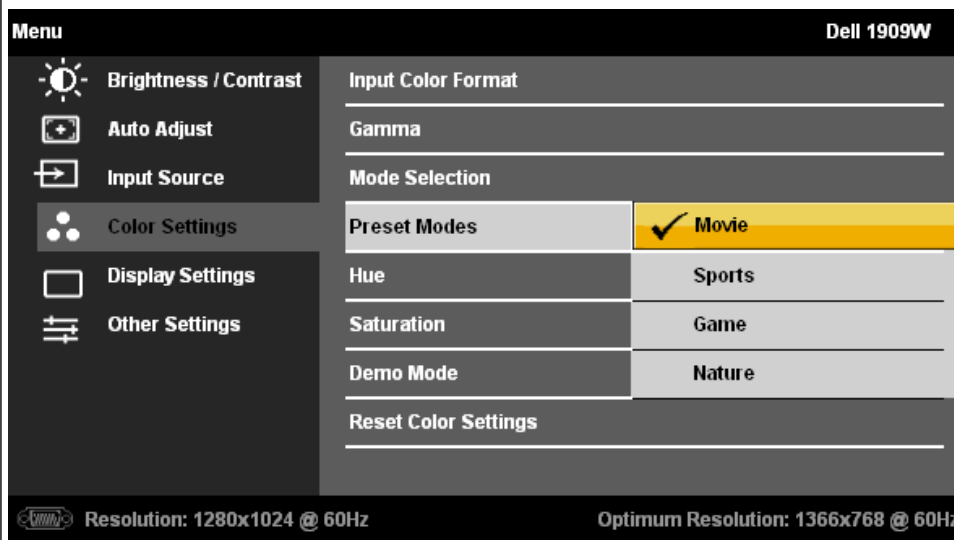
- If you view media application like photo, clip etc via PC, choose "Multimedia" preset;
- If you play a game in PC, choose "Gaming" preset;
- If you prefer a lower color temperature (5700K), choose "Warm" preset;
- If you prefer a higher color temperature, choose "Cool" preset;
- Custom (R, G, B) Preset offers a range of 6500K colors;
- Choose "Standard" to utilize the panel native color format;
- Select Warm preset for a reddish tint. This color setting is used for color-intensive applications (photograph image editing, multimedia, movies, etc.)
- Select Cool preset for a bluish tint. This color setting is used for text based applications (spreadsheets, programming, text editors, etc.)
- Select Custom preset to increase or decrease each of the three colors (R, G, B) independently, in single digit increments, from 0 to 100.





When you select Video, you can choose Movie, Game, Sports, or Nature preset:


- For playing a movie, choose "Movie" preset;


- For playing a sport program, choose "Sports" preset;
- For playing a game, choose "Game" preset;
- For general picture or web or watch TV, choose Nature preset. You can adjust the Hue(Tint)/Saturation based on your preference. If you want to restore default color settings, choose Color Reset;
- Select Color Reset preset to restore default (factory) Color settings. This setting is also the "sRGB" standard default color space.



Hue

This feature can shift color of video image to green or purple. This is used to adjust the desired flesh tone color. Use  or  to adjust the hue from '0' to '100'.

Push  to increase the green shade of the video image


Push  to decrease the purple shade of the video image

NOTE: Hue adjustment is available only for video input.

Saturation

This feature can adjust the color saturation of the video image. Use  or  to adjust the saturation from '0' to '100'.

Push  to increase the monochrome appearance of the video image

Push  to decrease the colorful appearance of the video image

NOTE: Saturation adjustment is available only for video input.

Demo Mode

To show side-by-side the effect of color enhancement

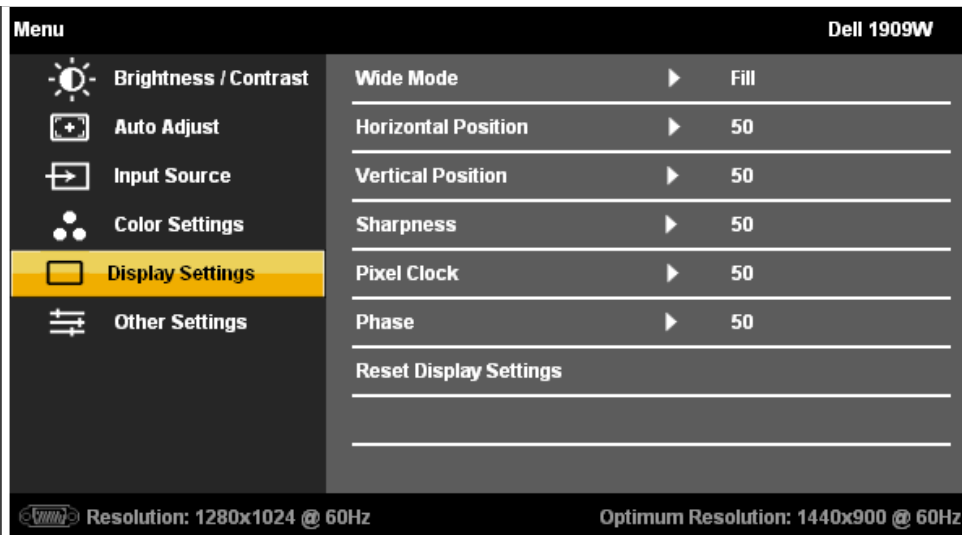
Reset Color Settings

Reset your monitor color settings to the factory settings.

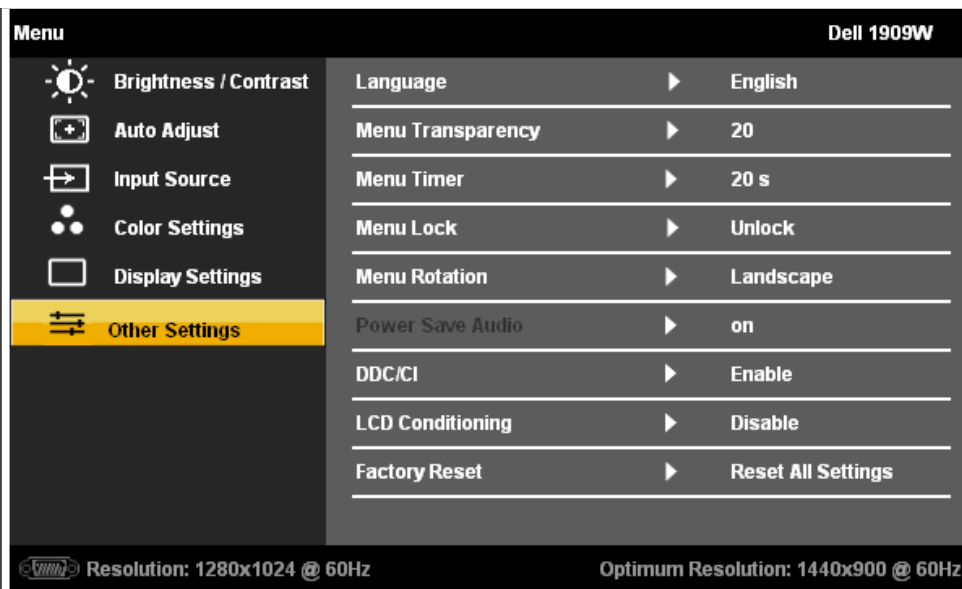







DISPLAY SETTINGS

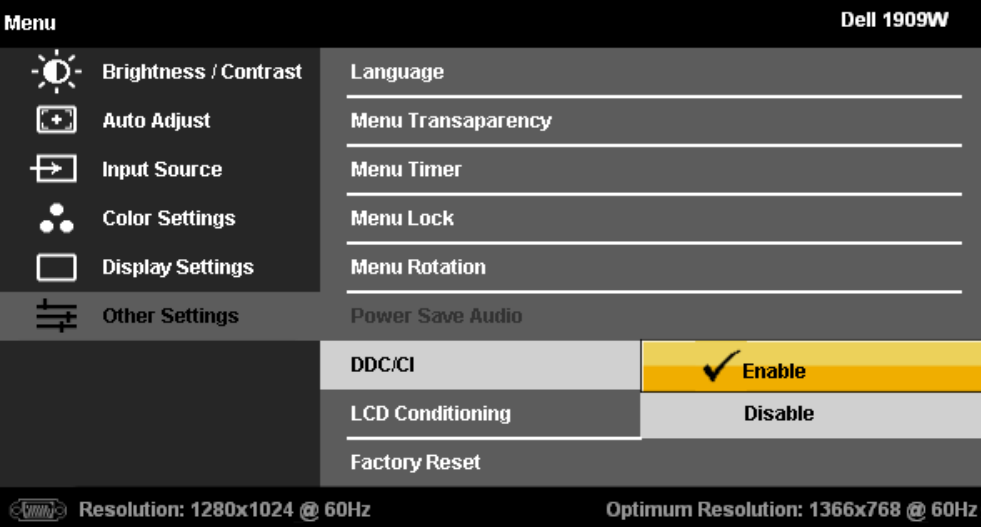

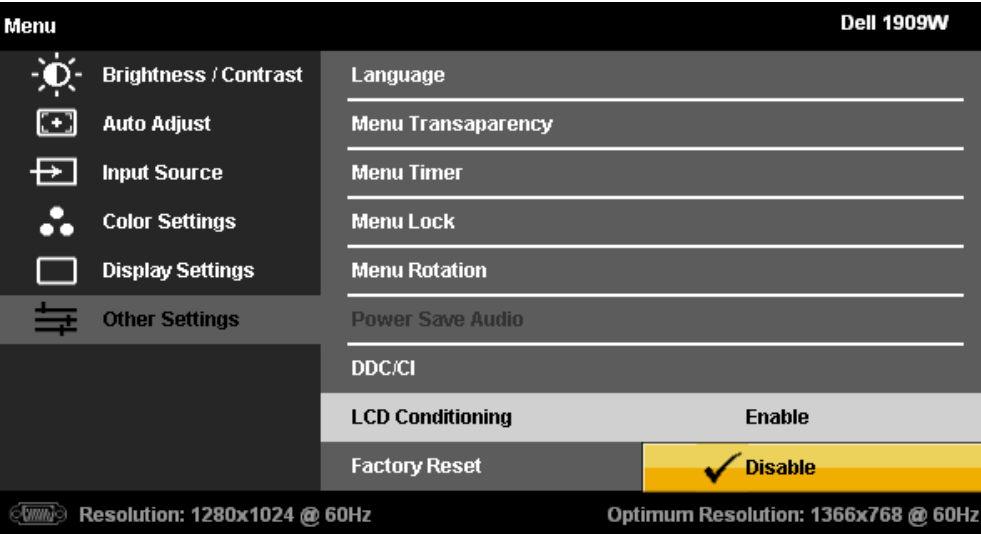

Use the Display Settings to adjust image.



	Wide Mode	Adjust the image ratio as 4:3 or full screen.
	Horizontal Position	Use the or buttons to adjust image left and right. Minimum is '0' (-). Maximum is '100' (+).
	Vertical Position	Use the or buttons to adjust image up and down. Minimum is '0' (-). Maximum is '100' (+).
	Sharpness	This feature can make the image look sharper or softer. Use or to adjust the sharpness from '0' to '100'.
	Pixel Clock	The Phase and Pixel Clock adjustments allow you to adjust your monitor to your preference. These settings are accessed through the main OSD menu, by selecting 'Image Settings'. Use the or buttons to adjust for best image quality.
	Phase	If satisfactory results are not obtained using the Phase adjustment, use the Pixel Clock (coarse) adjustment and then use Phase (fine), again. NOTE: Pixel Clock and Phase Adjustments are only available for "VGA" input.
	Reset Display Settings	Select this option to restore default display settings.
	OTHER SETTINGS	Select this option to adjust the settings of the OSD, such as, the languages of the OSD, the amount of time the menu remains on screen, and so on.



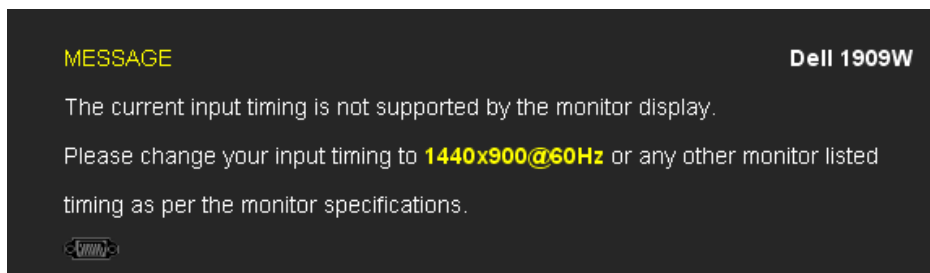
Language	Language option to set the OSD display to one of seven languages (English, Espanol, Francais, Deutsch, Russian ,Simplified chinese or Japanese).
Menu Transparency	Select this option to change the menu transparency by pressing  or  (Minimum: 0 ~ Maximum: 100).
Menu Timer	OSD Hold Time: Sets the length of time the OSD will remain active after the last time you pressed a button. Use the  or  buttons to adjust the slider in 5 second increments, from 5 to 60 seconds.
Menu Lock	Controls user access to adjustments. When 'Lock' is selected, no user adjustments are allowed. All buttons are locked except the menu  button. NOTE: When the OSD is locked, pressing the menu button takes the user directly to the OSD settings menu, with OSD Lock selected. Select "Unlock" to unlock and allow user access to all applicable settings.
Menu Rotation	Rotates the OSD by 90 degrees counter-clockwise. Your can adjust the menu according to your Display Rotation .
Power Save Audio	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 adjustable via software on your PC. You can disable this feature by selecting "Disable". Enable this feature for best user experience and optimum performance of your monitor.

		 <p>The screenshot shows the OSD menu for a Dell 1909W monitor. The 'Other Settings' section is expanded to show 'LCD Conditioning' set to 'Disable'. Other settings include 'DDC/CI' (checked/Enable), 'Factory Reset', 'Language', 'Menu Transparency', 'Menu Timer', 'Menu Lock', 'Menu Rotation', and 'Power Save Audio'. The resolution is 1280x1024 @ 60Hz, and the optimum resolution is 1366x768 @ 60Hz.</p>	
	<p>LCD Conditioning</p>	<p>Helps reduce minor cases of image retention. Depending on the degree of image retention, the program may take some time to run. You can enable this feature by selecting "Enable".</p>  <p>The screenshot shows the OSD menu for a Dell 1909W monitor. The 'Other Settings' section is expanded to show 'LCD Conditioning' set to 'Enable'. Other settings include 'DDC/CI', 'Factory Reset', 'Language', 'Menu Transparency', 'Menu Timer', 'Menu Lock', 'Menu Rotation', and 'Power Save Audio'. The resolution is 1280x1024 @ 60Hz, and the optimum resolution is 1366x768 @ 60Hz.</p>	
	<p>Factory Reset</p>	<p>Reset all OSD settings to the factory preset values.</p>	

Note: This monitor has a build-in feature to automatically calibrate the brightness to compensate for CCFL aging.

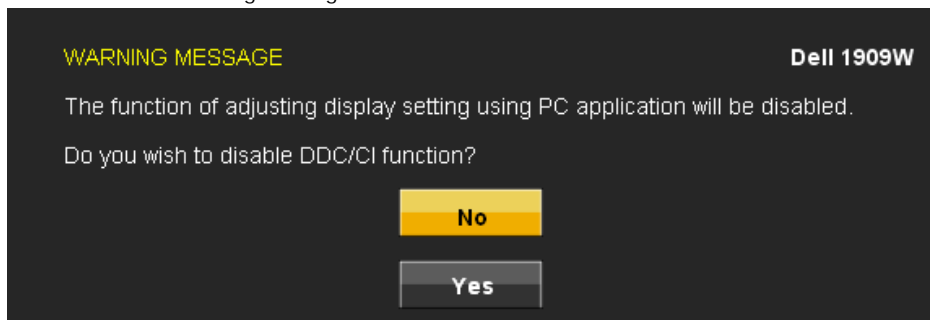
OSD Warning Messages

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 1440 x 900.

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



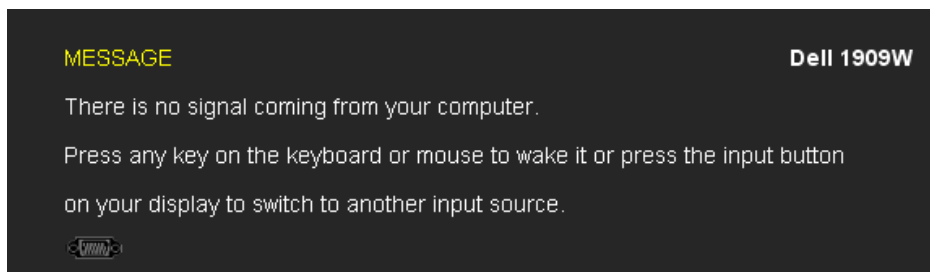
When monitor enters Power Save mode, the following message appears:



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

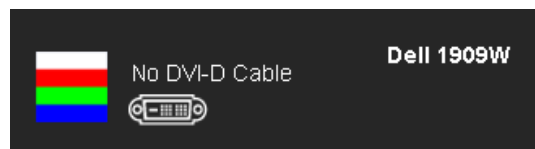
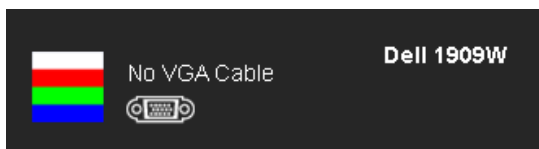
If you press any button other than the power button one of the following messages will appear depending on the selected input:

VGA/DVI -D input



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 appears.

or



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

Setting the Maximum Resolution

To set the Maximum resolution for the monitor:

In Windows XP:

1. Right-click on the desktop and select **Properties**.
2. Select the **Settings** tab.
3. Set the screen resolution to 1440 x 900.
4. Click **OK**.

In Windows Vista or Windows 7:

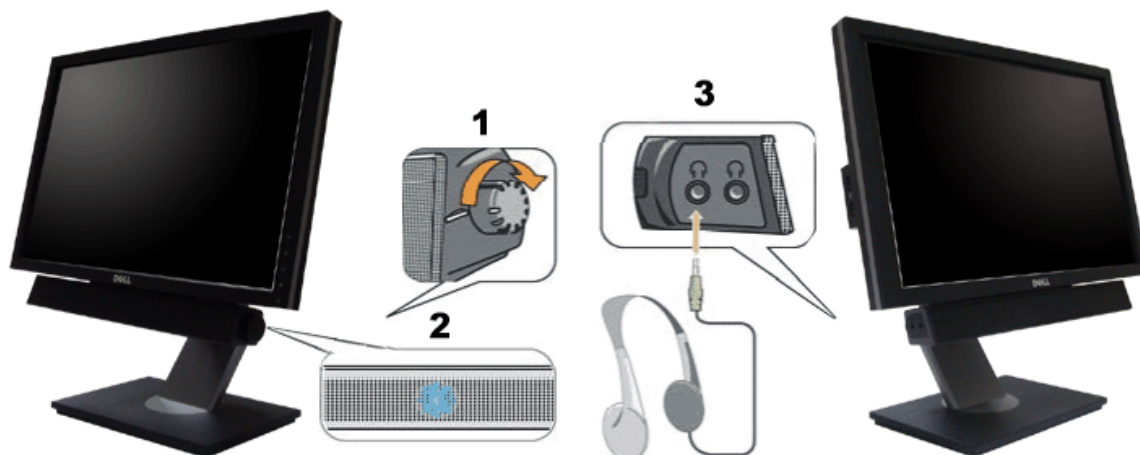
1. Right-click on the desktop and select **Personalization**.
2. Click **Change Display Settings**.
3. Move the slider-bar to the right by pressing and holding the left-mouse button and adjust the screen resolution to **1440 X900**.
4. Click **OK**.

If you do not see 1440 x 900 as an option, you may need to update your graphics driver. Depending on your computer, complete one of the following procedures:

- If you have a Dell desktop or portable computer:
 - Go to support.dell.com, enter your service tag, and download the latest driver for your graphics card.
- If you are using a non-Dell computer (portable or desktop):
 - Go to the support site for your computer and download the latest graphic drivers.
 - Go to your graphics card website and download the latest graphic drivers.

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. Power/volume control

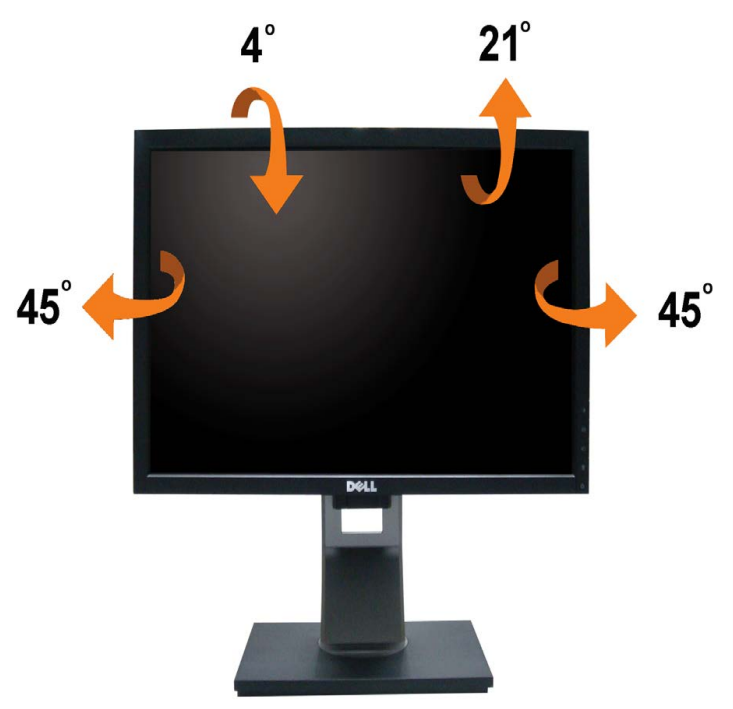
2. Power indicator
 3. Headphone connectors
-


Using the Tilt, Rotation

 **NOTE:** This is applicable for a monitor with a stand. When the OptiPlex™ USFF 780/ OptiPlex™ SFF 980 AIO stand is bought, please refer to the respective AIO stand setup guide for set up instructions.

Tilt

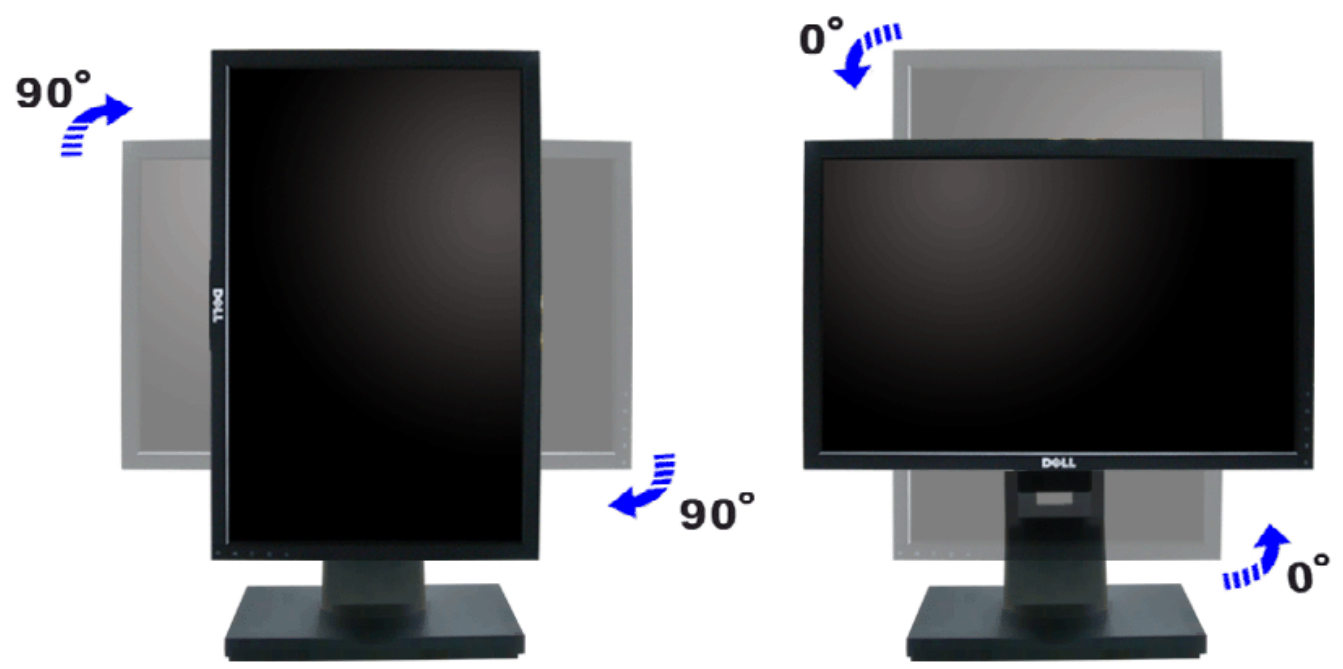
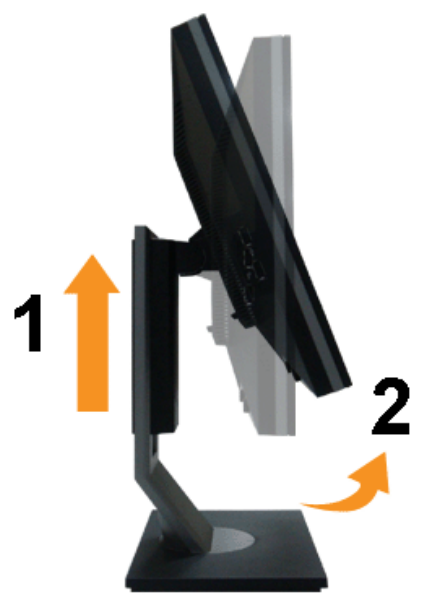
With the built-in pedestal, you can tilt the monitor for the most comfortable viewing angle.



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

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.)

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 to the graphics driver website or your computer manufacturer website for information on rotating your operating system.

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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Troubleshooting

Dell™ 1909W Flat Panel Monitor

- [Self-Test](#)
- [Common Problems](#)
- [Product Specific Problems](#)
- [Universal Serial Bus Specific Problems](#)
- [Dell Soundbar Problems](#)

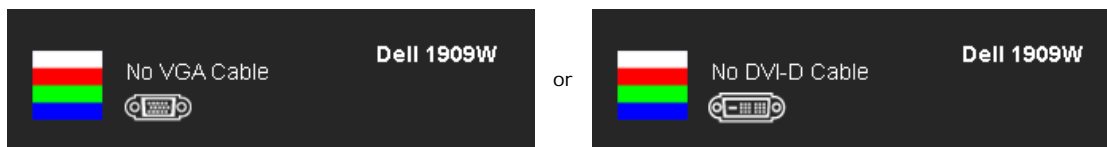
 **WARNING:** Before you begin any of the procedures in this section, follow the [Safety Instructions](#).

Self-Test

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


1. Turn off both your computer and the monitor.
2. Unplug the video cable from the back of the computer. To ensure proper Self-Test operation, remove both Digital (white connector) and the Analog (blue connector) cables from the back of computer.
3. Turn on the monitor.

The floating dialog box should appear on-screen (against a black background) if the monitor cannot sense a video signal and is working correctly. While in self-test mode, the power LED remains 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, because your monitor is functioning properly.

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



Built-in Diagnostics


Your monitor has a built-in diagnostic tool that helps you determine if the screen abnormality you are experiencing is an inherent problem with your monitor, or with your computer and video card.

 **NOTE:** You can run the built-in diagnostics only when the video cable is unplugged and the monitor is in *self-test mode*.

To run the built-in diagnostics:

1. Ensure that the screen is clean (no dust particles on the surface of the screen).
2. Unplug the video cable(s) from the back of the computer or monitor. The monitor then goes into the self-test mode.

3. Press and hold the  and  buttons on the front panel, simultaneously for 2 seconds. A gray screen appears.
4. Carefully inspect the screen for abnormalities.

5. Press the  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  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.


Common Problems

The following table contains general information about common monitor problems you might encounter and the possible solutions.

Common Symptoms	What You Experience	Possible Solutions
No Video/Power LED off	No picture	<ul style="list-style-type: none"> Ensure that the video cable connecting the monitor and the computer is properly connected and secure. Verify that the power outlet is functioning properly using any other electrical equipment. Ensure that the power button is depressed fully. Ensure that the correct input source is selected via the Input Source Select button.
No Video/Power LED on	No picture or no brightness	<ul style="list-style-type: none"> Increase brightness & contrast controls via OSD. Perform monitor self-test feature check. Check for bent or broken pins in the video cable connector. Run the built-in diagnostics.
Poor Focus	Picture is fuzzy, blurry, or ghosting	<ul style="list-style-type: none"> Perform Auto Adjust via OSD. Adjust the Phase and Pixel Clock controls via OSD. Eliminate video extension cables. Reset the monitor to Factory Settings. 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"> Perform Auto Adjust via OSD. Adjust the Phase and Pixel Clock controls via OSD. Reset the monitor to Factory Settings. Check environmental factors. Relocate the monitor and test in another room.
Missing Pixels	LCD screen has spots	<ul style="list-style-type: none"> Cycle power on-off. Pixel that is permanently off is a natural defect that can occur in LCD technology. Run the built-in diagnostics.
Stuck-on Pixels	LCD screen has bright spots	<ul style="list-style-type: none"> Cycle power on-off. Pixel that is permanently off is a natural defect that can occur in LCD technology. Run the built-in diagnostics.
Brightness Problems	Picture too dim or too bright	<ul style="list-style-type: none"> Reset the monitor to Factory Settings. Auto Adjust via OSD. Adjust brightness & contrast controls via OSD.
Geometric Distortion	Screen not centered correctly	<ul style="list-style-type: none"> Reset the monitor to Factory Settings. Auto Adjust via OSD. 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"> Reset the monitor to Factory Settings. Perform Auto Adjust via OSD. Adjust Phase and Pixel Clock controls via OSD. Perform monitor self-test feature check and determine if these lines are also in self-test mode. Check for bent or broken pins in the video cable connector. Run the built-in diagnostics. <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"> Reset the monitor to Factory Settings. Perform Auto Adjust via OSD. Adjust Phase and Pixel Clock controls via OSD. Perform monitor self-test feature check to determine if the scrambled screen appears in self-test mode. Check for bent or broken pins in the video cable connector. Restart the computer in the <i>safe mode</i>.
Safety Related Issues	Visible signs of smoke or sparks	<ul style="list-style-type: none"> Do not perform any troubleshooting steps. Contact Dell immediately.
Intermittent Problems	Monitor malfunctions on & off	<ul style="list-style-type: none"> Ensure that the video cable connecting the monitor to the computer is connected properly and is secure. Reset the monitor to Factory Settings. 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"> Perform monitor self-test feature check. Ensure that the video cable connecting the monitor to the computer is connected properly and is secure. Check for bent or broken pins in the video cable connector.
Wrong Color	Picture color not good	<ul style="list-style-type: none"> Change the Color Setting Mode in the Color Settings OSD to Graphics or Video depending on the application. 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. Change the Input Color Format to PC RGB or YPbPr in the Advance Setting OSD. Run the built-in diagnostics.
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"> Use the Power Management feature to turn off the monitor at all times when not in use (for more information, see Power Management Modes). Alternatively, use a dynamically changing screensaver.

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"> Check the Scaling Ratio setting in Image Setting OSD Reset the monitor to Factory Settings.
Cannot adjust the monitor with the buttons on the front panel	OSD does not appear on the screen	<ul style="list-style-type: none"> Turn off the monitor, unplug the power cord, plug back, and then turn on the monitor.
No Input Signal when user controls are pressed	No picture, the LED light is green. When you press "+", "-", or "Menu" key, the message "No S-Video input signal", or "No Composite input signal", or "No Component input signal" appears	<ul style="list-style-type: none"> Check the signal source. Ensure the Computer is not in the power saving mode by moving the mouse or pressing any key on the keyboard. Check to make sure Video Source to S-Video, Composite or Component is powered and playing video media. Check whether the signal cable is plugged in properly. Re-plug the signal cable if necessary. Reset the computer or video player.
The picture does not fill the entire screen.	The picture cannot fill the height or width of the screen	<ul style="list-style-type: none"> Due to different video formats (aspect ratio) of DVDs, the monitor may display in full screen. Run the built-in diagnostics.

 **NOTE:** When choosing DVI-D mode, the **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"> Check that your monitor is turned ON. Reconnect the upstream cable to your computer. Reconnect the USB peripherals (downstream connector). Switch off and then turn on the monitor again. Reboot the computer. Some USB devices like external portable HDD require higher electric current; connect the device directly to the computer system.
High Speed USB 2.0 interface is slow.	High Speed USB 2.0 peripherals working slowly or not working at all	<ul style="list-style-type: none"> Check that your computer is USB 2.0-capable. Some computers have both USB 2.0 and USB 1.1 ports. Ensure that the correct USB port is used. Reconnect the upstream cable to your computer. Reconnect the USB peripherals (downstream connector). Reboot the computer.

Dell™ Soundbar Problems

Common Symptoms	What You Experience	Possible Solutions
No Sound	No power to Soundbar - the power indicator is off	<ul style="list-style-type: none"> 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. Confirm that the power cable from the Soundbar is plugged into the adaptor.
No Sound	Soundbar has power - power indicator is on	<ul style="list-style-type: none"> Plug the audio line-in cable into the computer's audio out jack. Set all Windows volume controls to their maximum Play some audio content on the computer (i.e. audio CD, or MP3). Turn the Power/Volume knob on the Soundbar clockwise to a higher volume setting. Clean and reseal the audio line-in plug. 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"> Clear any obstructions between the Soundbar and the user. Confirm that the audio line-in plug is completely inserted into the jack of the sound card. Set all Windows volume controls to their midpoints. Decrease the volume of the audio application. Turn the Power/Volume knob on the Soundbar counter-clockwise to a lower volume setting. Clean and reseal the audio line-in plug. Troubleshoot the computer's sound card. Test the Soundbar using another audio source (i.e. portable CD player, MP3 player).
Distorted Sound	Other audio source is used	<ul style="list-style-type: none"> Clear any obstructions between the Soundbar and the user. Confirm that the audio line-in plug is completely inserted into the jack of the audio source. Decrease the volume of the audio source. Turn the Power/Volume knob on the Soundbar counter-clockwise to a lower volume setting. Clean and reseal the audio line-in plug.

Unbalanced Sound Output	Sound from only one side of Soundbar	<ul style="list-style-type: none">• Clear any obstructions between the Soundbar and the user.• Confirm that the audio line-in plug is completely inserted into the jack of the sound card or audio source.• Set all Windows audio balance controls (L-R) to their midpoints.• Clean and reseal the audio line-in plug.• Troubleshoot the computer's sound card.• Test the Soundbar using another audio source (i.e. portable CD player).
Low Volume	Volume is too low	<ul style="list-style-type: none">• Clear any obstructions between the Soundbar and the user.• Turn the Power/Volume knob on the Soundbar clockwise to the maximum volume setting.• Set all Windows volume controls to their maximum.• Increase the volume of the audio application.• Test the Soundbar using another audio source (i.e. portable CD player, MP3 player).

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Appendix

Dell™ 1909W 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 *Product Information Guide*.

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

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

Contacting Dell

For customers in the United States, call 800-WWW-DELL (800-999-3355).

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

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

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

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