Dell™ E1909W Flat Panel Monitor User's Guide

About Your Monitor

Setting Up the Monitor

Operating the Monitor

Troubleshooting

<u>Appendix</u>

Notes, Notices, and Cautions

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 a potential for property damage, personal injury, or death.

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Model E1909Wc

July 2008 Rev. A00

About Your Monitor

Dell™ E1909W Flat Panel Monitor User's Guide

- Package Contents
- Product Features
- Identifying Parts and Controls
- Monitor Specifications
- Plug and Play Capability
- Maintenance Guidelines

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.





Product Features

The E1909W flat panel display has an active matrix, thin-film transistor (TFT), liquid crystal display (LCD). The monitor features include:

- 19-inch (481.4 mm) viewable area display.
- 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 capability.
- 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.
- EPEAT™ GOLD compliant.

Identifying Parts and Controls

Front View

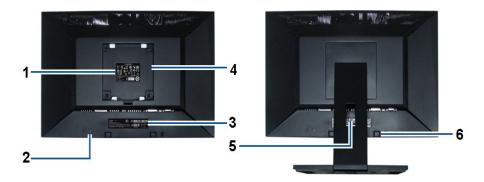


Front panel controls

Front View

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

Back View



Back view

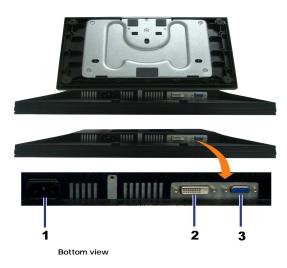
Back View with monitor stand

Label	Description	Use
1	Regulatory rating label	Lists the regulatory approvals.
2	Security lock slot	To help secure your monitor.
3	Barcode serial number label	To contact Dell for technical support.
4	VESA mounting holes (100mm) (Behind attached base plate)	To mount the monitor.
5	Cable management slot	To organize cables by placing them through the slot.
6	Dell Soundbar mounting brackets	To attach the optional Dell Soundbar.

Side View



Bottom View



Label Description		Description
1 AC power cord connector		AC power cord connector
2 DVI connector		DVI connector
	3	VGA connector

Monitor Specifications

Flat Panel Specifications

Screen type	Active matrix - TFT LCD	
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/m²(typical)	
Contrast ratio	1000 to 1 (typical)	
Faceplate coating	Antiglare with hard-coating 3H	
Backlight	CCFL (4) edgelight system	
Response Time	5 ms typical	
Color Gamut	82%*	

^{*[}E1909W] color gamut (typical) is based on CIE1976 (82%) and CIE1931 (72%) test standards.

Appendix

Dell™ E1909W Flat Panel Monitor User's Guide

- Safety Instructions
- FCC Notice (U.S. Only) and Other Regulatory Information
- Ontacting 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.

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.deil.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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Setting Up Your Monitor Dell™ E1909W 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.
- $2. \ \, \text{After installing the drivers for your Graphics Adapter, attempt to set the resolution to } 1440x900 \ \text{again}.$

MOTE: If you are unable to set the resolution to 1440x900, please contact Dell™ to inquire about a Graphics Adapter that supports these resolutions.

Setting Up Your Monitor

Dell™ E1909W 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. Refer to the graphic card provider website for updated driver (for example, http://www.NVIDIA.com).
- $\textbf{6. After installing the drivers for your Graphics Adapter, attempt to set the resolution to \textbf{1440X900} again.}\\$

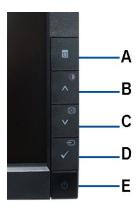
NOTE: If you are unable to set the resolution to 1440x900, please contact the manufacturer of your computer or consider purchasing a graphics adapter that will support the video resolution of 1440x900.

Operating the Monitor Dell™ E1909W Flat Panel Monitor User's Guide

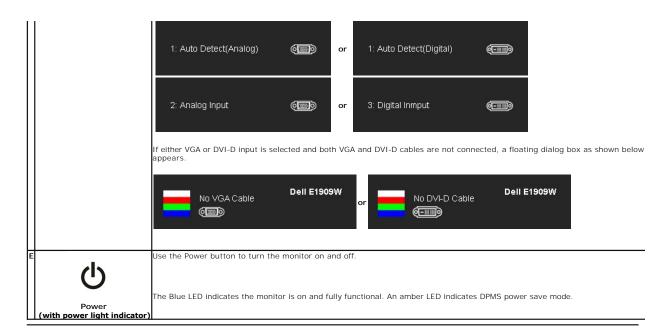
- Using the Front Panel Controls
- Using the On-Screen Display (OSD) Menu
- Setting the Optimal Resolution
- Using the Dell Soundbar (Optional).
- Using the Tilt

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.



П	Front panel Button	Description
A		Use the MENU button to launch the on-screen display (OSD) and select the OSD Menu. See <u>Accessing the Menu System</u> .
	Menu	
В	₩	Use this button to directly access the "Brightness/Contrast" menu or to increase the values of the selected menu option.
	Brightness&Contrast /Adjust UP	
С	∨	Use Auto Adjust to activate automatic setup/adjustment or to decrease the values of the selected menu option. The following dialog appears on a black screen as the monitor self-adjusts to the current input:
	Automatic Adjust /Adjust Down	Auto Adjustment in Progress
		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.
Ш		NOTE: Auto Adjust does not occur if you press the button while there are no active video input signals or attached cables.
D	•	Use this button to select the input source or select an OSD menu option. Use the Input source button to select one of the two different video signals that may be connected to your monitor:
	Input Source Select/Select	1 VGA input 1 DVI-D input



Using the On-Screen Display (OSD) Menu

Accessing the Menu System

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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



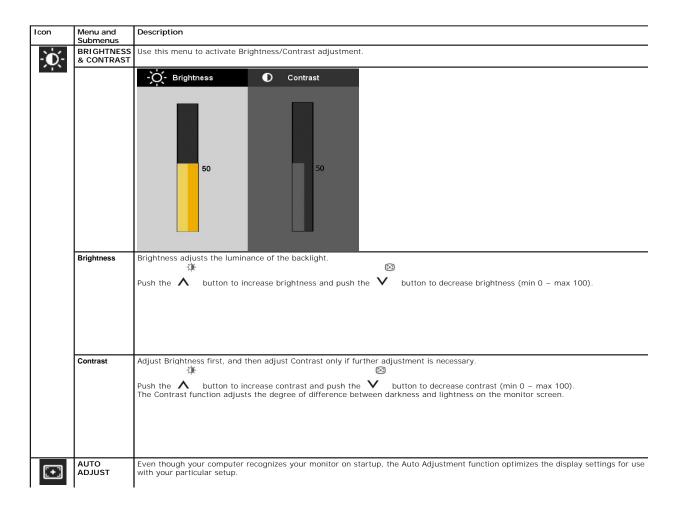
or

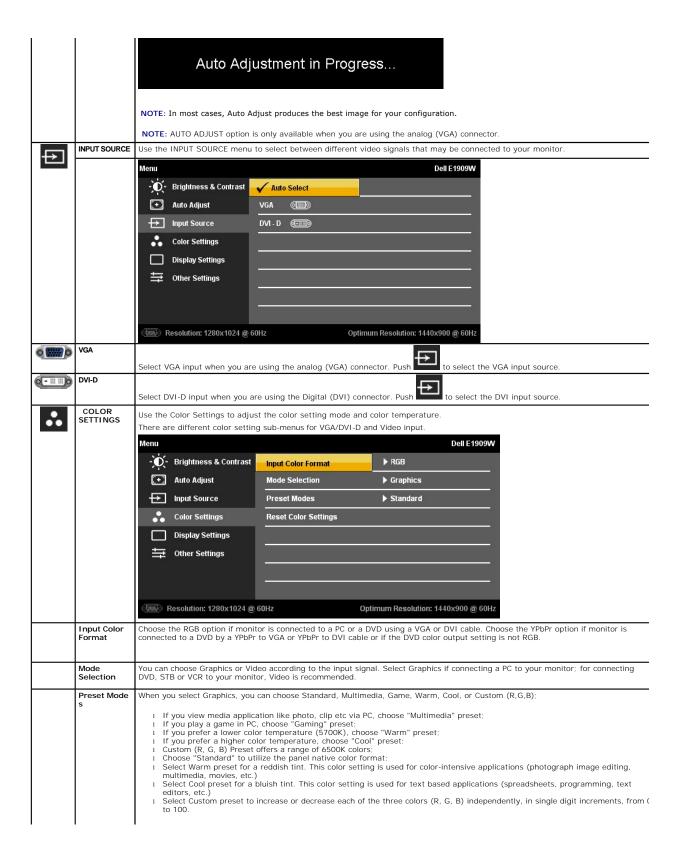
Main Menu for non Analog (non VGA) Input

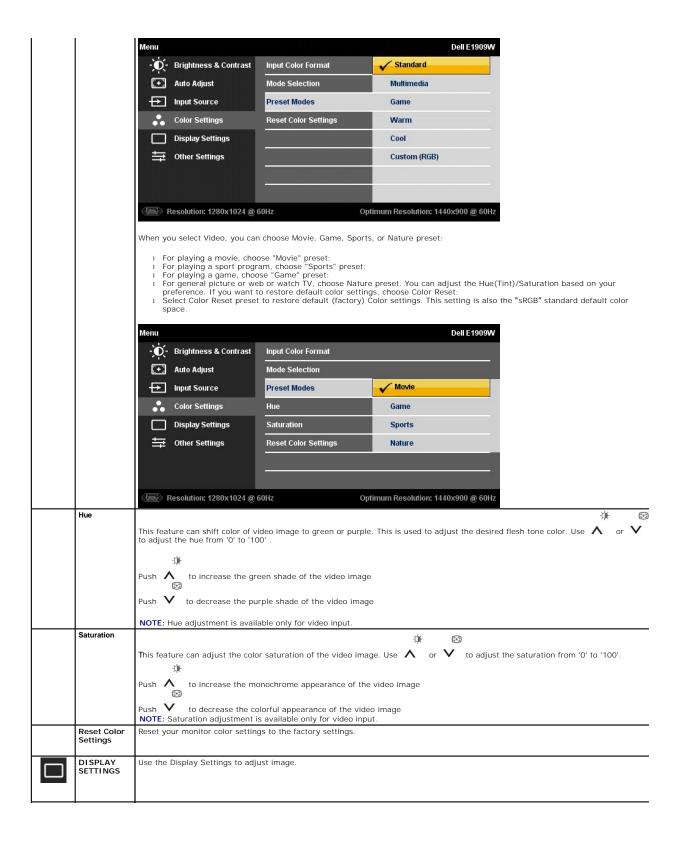


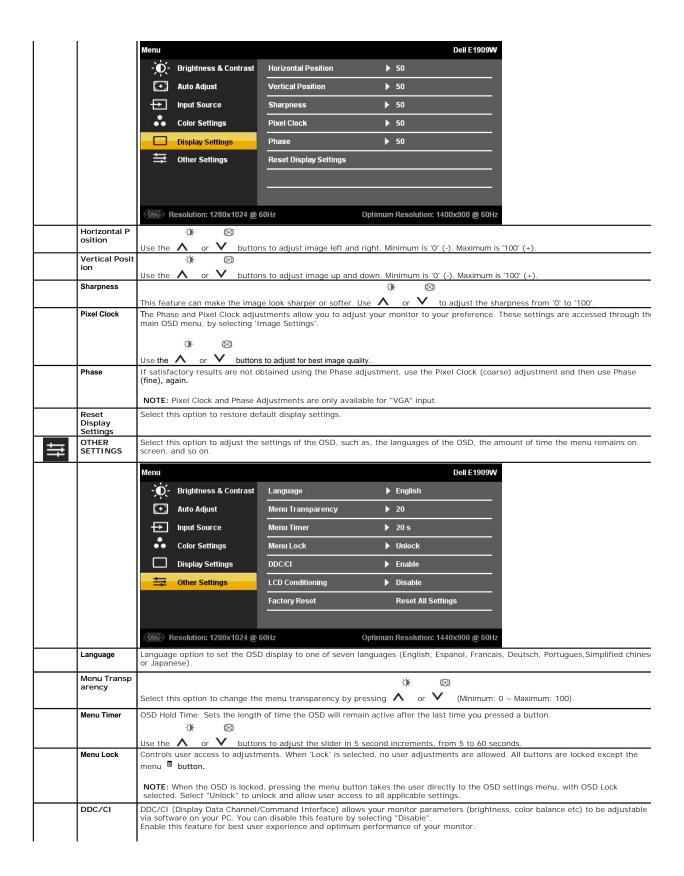
NOTE: AUTO ADJUST is only available when you use the analog (VGA) connector.

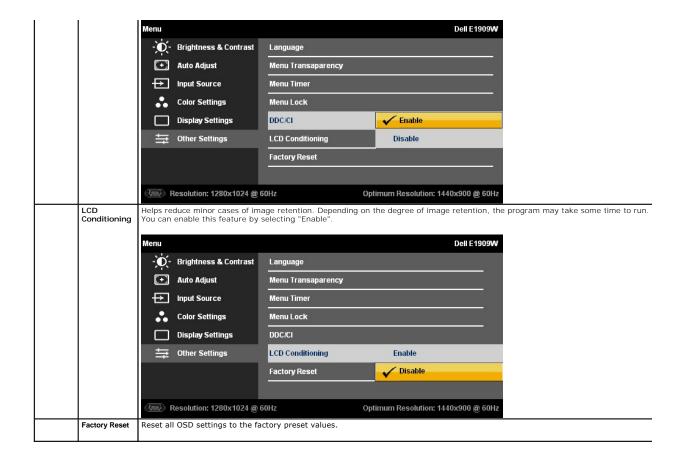
- 2. Push the \(\Lambda \) and \(\V \) buttons to move between the setting options. As you move from one icon to another, the option name is highlighted. See the following table for a complete list of all the options available for the monitor.
- ${\tt 3.}\,{\tt Push}$ the MENU button once to activate the highlighted option.
- 4. Push \wedge and \vee button to select the desired parameter.
- 5. Push MENU to enter the slide bar and then use the \Lambda 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.











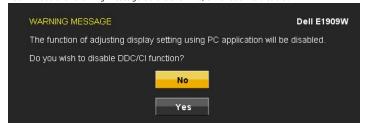
OSD Warning Messages

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 1440×900 .

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



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

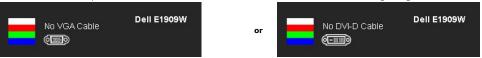


Activate the computer and wake up the monitor to gain access to the OSD

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.



See Solving Problems for more information.

Setting the Optimal Resolution

To set the optimal resolution for the monitor:

- Right-click on the desktop and select **Properties**. Select the **Settings** tab.
- Set the screen resolution to 1440 x 900.

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

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.

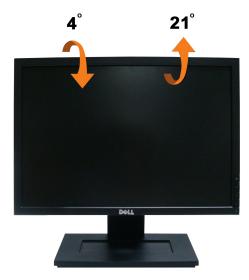


- 1. Power/volume control
- Power indicator
- 3. Headphone connectors

Using the Tilt

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.

Setting Up Your Monitor

Dell™ E1909W Flat Panel Monitor

Setting the display resolution to 1440X900 (Optimal)

For optimal display performance while using the Microsoft Windows operating systems, set the display resolution to 1440 x 900 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 1440 X900.
- 4. Click OK.

If you do not see 1440X900 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.

Dell™ E1909W **Flat Panel Monitor**

User Guide

Setting the display resolution to 1440x900(Optimal)

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Model E1909Wc

July 2008 Rev. A00

Setting Up the Monitor

Dell™ E1909W 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.



To attach the monitor stand:

- Place the stand on a flat surface
 Fit the groove on the back of the monitor to the two tabs on the upper part of the stand.
 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 <u>Safety Instructions</u>.

To connect your monitor to the computer:

- Turn off your computer and disconnect the power cable.

 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



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

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



- NOTICE: 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.
- Connect the soundbar with the power brick. 3.
- 4. Plug the power cable of the brick to a nearby power outlet.
- 5. Insert the lime-green mini stereo plug from the rear of the Soundbar into the computer's audio output jack.

Removing the Stand

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



To remove the stand:

- Rotate the stand to allow access to the stand release button. Press and hold the Stand release button. Lift the stand up and away from the monitor.

Wall Mounting (Optional)

Refer to the instructions that come with the base mounting kit. To convert your LCD display from a desk-mounted to a wall-mounted display, do the following:

- 1. Verify that the power button is turned Off, then disconnect the power cord.

- 2. Lay the LCD display face down on a soft cloth.
 3. Remove the stand assembly from the back of the LCD display by pressing quick release button.
 4. Attach the mounting bracket from the VESA compatible wall mounting kit (100 mm x 100 mm distance). (Screw dimension: M4 x 10mm).
 5. Attach the LCD display to the wall, following the instructions in the wall-mounting kit.

NOTE: For use only with UL Listed Wall Mount Bracket with minimum weight/load: 4.44kg.

Troubleshooting

Dell™ E1909W Flat Panel Monitor

- Self-Test
- Common Problems
- Video Problems
- Product Specific Problems
- Dell Soundbar Problems

ACAUTION: 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:

- Turn off both your computer and the monitor.
 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.
- 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.



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

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

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



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.

MOTE: 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:

- Ensure that the screen is clean (no dust particles on the surface of the screen).
- 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.
- button on the front panel again. The color of the screen changes to red.
- Inspect the display for any abnormalities.
 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 \(\Lambda\) 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	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.
No Video/Power LED on	No picture or no brightness	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	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	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	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	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	Reset the monitor to Factory Settings. Auto Adjust via OSD. Adjust brightness & contrast controls via OSD.
Geometric Distortion	Screen not centered correctly	Reset the monitor to Factory Settings. Auto Adjust via OSD. Adjust brightness & contrast controls via OSD.
Horizontal/Vertical Lines	Screen has one or more lines	NOTE: When using '2: DVI-D', the positioning adjustments are not available. 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.
Synchronization Problems	Screen is scrambled or appears torn	NOTE: When using '2: DVI-D', the Pixel Clock and Phase adjustments are not available. 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 safe mode.
Safety Related Issues	Visible signs of smoke or sparks	Do not perform any troubleshooting steps. Contact Dell immediately.
Intermittent Problems	Monitor malfunctions on & off	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	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	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	Use the Power Management feature to turn off the monitor at all times when not in use (for more information, see <u>Power Management Modes</u>). 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	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		1 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	Check to make sure Video Source to S-Video, Composite or Component is powered and playing video media.
The picture does not fill the entire screen.	The picture cannot fill the height or width of the screen	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.

Dell™ Soundbar Problems

Common Symptoms	What You Experience	Possible Solutions
No Sound	No power to Soundbar - the power indicator is off	 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	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 reseat 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	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 reseat 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	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 reseat the audio line-in plug.
Unbalanced Sound Output	Sound from only one side of Soundbar	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 reseat 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	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).