

# Dell™ E248WFP Flat Panel Monitor User's Guide

## About Your Monitor

[Product Features](#)  
[Identifying Parts and Controls](#)  
[Monitor specifications](#)  
[Plug and Play Capability](#)  
[LCD Monitor Quality & Pixel Policy](#)  
[Maintenance Guidelines](#)

## Setting Up the Monitor

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

## Operating the Monitor

[Using the Front Panel Controls](#)  
[Using the On-Screen Display \(OSD\)](#)  
[Setting the Optimal Resolution](#)  
[Using the Dell Soundbar \(Optional\)](#)  
[Using the Tilt](#)

## Solving Problems

[Troubleshooting Your Monitor](#)  
[Common Problems](#)  
[Product Specific Problems](#)

## Appendix

[CAUTION: Safety Instruction](#)  
[FCC Notice \(U.S. Only\)](#)  
[Contacting Dell™](#)

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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 E248WFP

August 2007 Rev. A02

## About Your Monitor

### Dell™ E248WFP Flat Panel Monitor

- [Product Features](#)
- [Identifying Parts and Controls](#)
- [Monitor Specifications](#)
- [Plug and Play Capability](#)
- [LCD Monitor Quality & Pixel Policy](#)
- [Maintenance Guidelines](#)

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## Product Features

The **E248WFP** 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 adjustment capabilities.
- Removable pedestal and 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.
- Asset Control.
- Stand anti-theft feature.

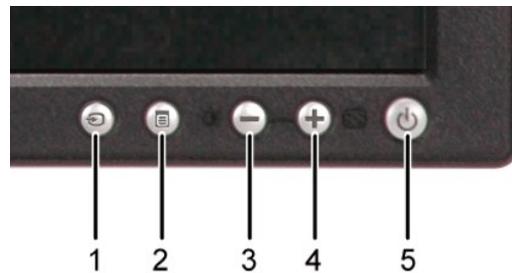
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## Identifying Parts and Features

### Front View



Front View

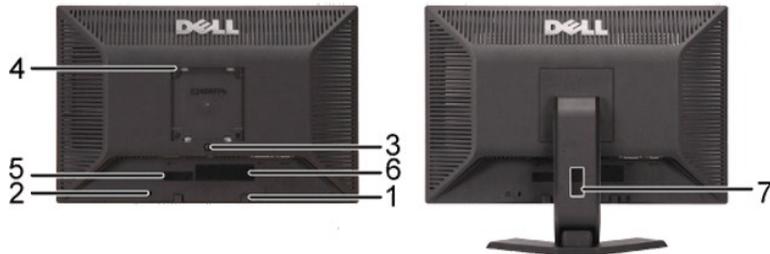


Front panel controls

Label	Description
1	Input source selection
2	Menu selection button

- 3 Brightness & Contrast / Down(-) button
  - 4 Auto-Adjust / Up(+) button
  - 5 Power on/off button with LED indicator
- 

## Back View



**Back view**

**Back View with monitor stand**

Label	Description/Use
1	Dell Soundbar mounting brackets Attach the optional Dell Soundbar.
2	Security lock slot Attach a lock to secure your monitor.
3	Stand removal button Press to release the stand.
4	VESA mounting holes (100mm - behind attached stand) Use to mount monitor.
5	Barcode serial number label Refer to this label if you need to contact Dell for technical support.
6	Regulatory rating label List the regulatory approvals.
7	Cable management opening Help organize cables by passing them through the holder.

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## Side View



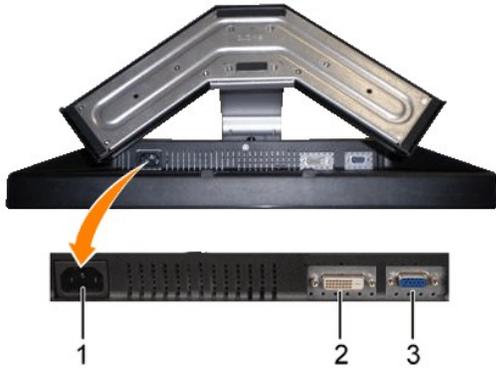
**Right side**



**Left side**

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## Bottom View



Bottom view

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

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## Monitor Specifications

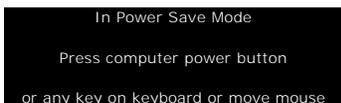
The following sections give you information about the various power management modes and pin assignments for various connectors for your monitor.

### 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	50 W (typical)
Active-off mode	Inactive	Inactive	Blanked	Amber	Less than 2 W
Switch off	-	-	-	Off	Less than 1 W

 NOTE: The [OSD](#) functions only in the 'normal operation' mode. Otherwise one of the following messages appears depending upon the selected input.



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

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

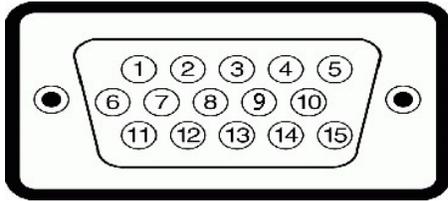


\* Zero power consumption in OFF mode can only be achieved by disconnecting the main cable from the monitor.

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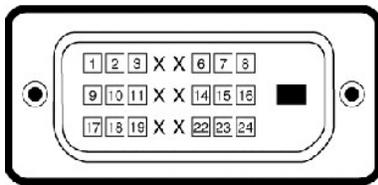
## Pin Assignments

### 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	<b>Self test</b>
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-

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## 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.

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## Flat Panel Specifications

Screen type	Active matrix - TFT LCD
Screen dimensions	24 inches (24-inch diagonal viewable image size)
Preset display area:	
Horizontal	520 mm (20.4 inches)
Vertical	325.6 mm (12.8 inches)
Pixel pitch	0.27 mm
Viewing angle	160° (Vertical) typical, 160° (Horizontal) typical
Luminance output	400 cd/m <sup>2</sup> (typ)
Contrast ratio	1000:1 (typ)
Faceplate coating	Antiglare with hard-coating 3H
Backlight	6 CCFLs U-type backlight. 92% wide color gamut
Response Time	5ms typical (Black to White)

## Resolution

Horizontal scan range	30 kHz to 81 kHz (automatic)
Vertical scan range	<b>56 Hz to 76 Hz</b>
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)	480i/ 480p/ 576i/ 576p/ 720p/ 1080i/ 1080p
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## 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, 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 + 3 Hz / 1.5 A (Max.)
Inrush current	120V: 40A (Max.) 240V: 80A (Max.)

## Physical Characteristics

The following table lists the physical characteristics:

Signal cable type	D-sub: Detachable, Analog, 15pin, shipped attached to the monitor  DVI-D: Detachable, Digital, Solid pins, shipped detached to the monitor
Dimensions (with stand):	
Height	436.3 mm (17.17 inches)
Width	559.7 mm (22.04 inches)
Depth	172.0 mm (6.77 inches)
Weight	
Monitor (Stand and Head)	6.8 kg ( 14.99 lb)
Monitor Flat panel only (VESA Mode)	5.2 kg ( 11.46 lb)
Weight with packaging	9.2 kg (20.26 lb)

## Environmental

The following table lists the environmental limitation:

Temperature:	
Operating	0° to 40°C (32° to 104°F)

Nonoperating	Storage: -20° to 60°C (-4° 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	259 BTU/hour (maximum) 171 BTU/hour (typical)

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## LCD Monitor Quality & 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](http://support.dell.com).

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## 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. This white powder occurs during the shipping of the monitor.
  - 1 Handle your monitor with care as darker-colored plastics may scratch and show white scuff marks more than lighter-colored monitor.
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[Back to Contents Page](#)

## Appendix

### DeLIT E248WFP Flat Panel Monitor

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

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## 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](http://WWW.DELL.COM/HG) OR CONTACT THE ELECTRONIC INDUSTRIES ALLIANCE AT [WWW.EIAE.ORG](http://WWW.EIAE.ORG).

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## 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 DellT 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 DellT 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: E248WFP
- 1 Model number: E248WFPb
- 1 Company name:  
Dell Inc.  
Worldwide Regulatory Compliance & Environmental Affairs  
One Dell Way  
Round Rock, Texas 78682 USA  
512-338-4400

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## 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](http://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](http://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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[Back to Contents Page](#)

[Back to Contents Page](#)

## Setting Up Your Monitor

### Dell™ E248WFP Flat Panel Monitor

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#### 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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[Back to Contents Page](#)

[Back to Contents Page](#)

## Setting Up Your Monitor

### Dell™ E248WFP Flat Panel Monitor

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

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

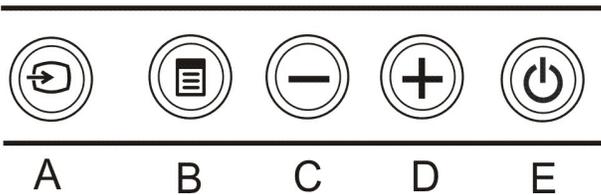
## Operating the Monitor

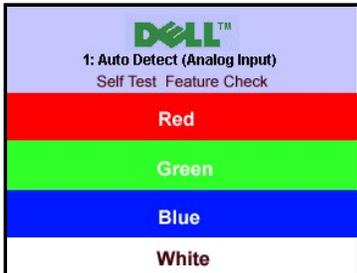
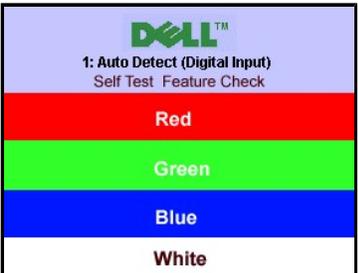
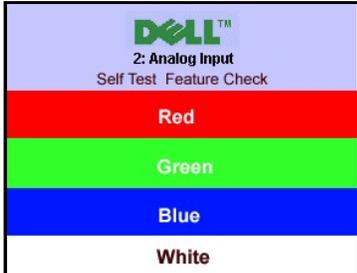
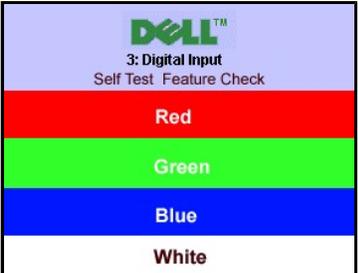
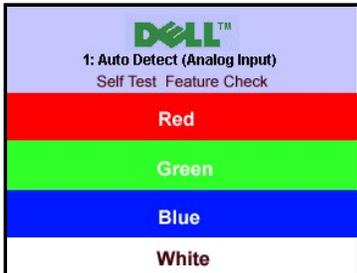
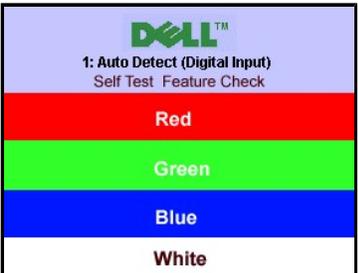
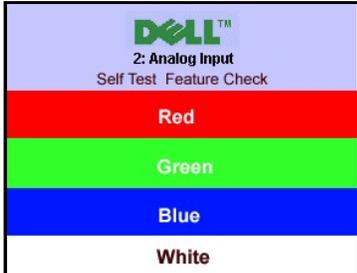
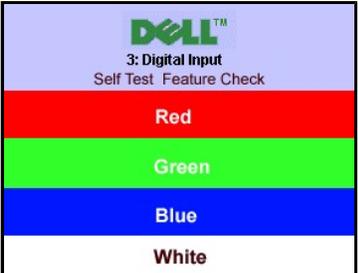
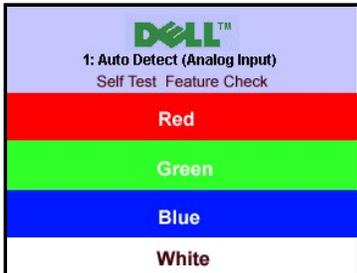
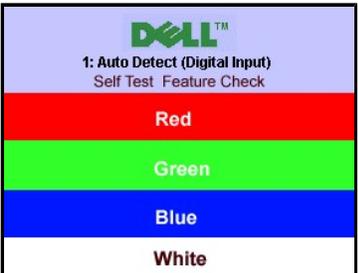
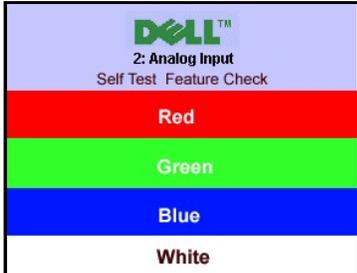
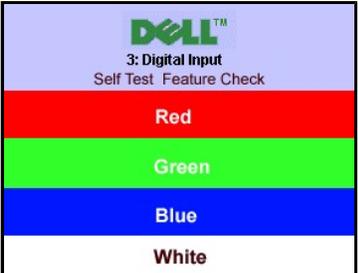
### Dell™ E248WFP Flat Panel Monitor User's Guide

- [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 buttons on the front of the monitor to adjust the image settings.



<p>A</p>	 <p><b>Input Source Select</b></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"><li>• VGA input</li><li>• DVI-D input</li></ul> <p>As you cycle through the inputs you will see the following messages to indicate currently selected input source. It may take 1 or 2 seconds for the image to appear.</p> <table border="1" data-bbox="511 1050 1429 1165"><tr><td>1. Auto Detect (Analog Input)</td><td>1. Auto Detect (Digital Input)</td></tr><tr><td>2. Analog Input</td><td>3. Digital Input</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 appears.</p> <table border="1" data-bbox="584 1270 1356 1837"><tr><td></td><td>or</td><td></td></tr><tr><td></td><td>or</td><td></td></tr></table>	1. Auto Detect (Analog Input)	1. Auto Detect (Digital Input)	2. Analog Input	3. Digital Input		or			or	
1. Auto Detect (Analog Input)	1. Auto Detect (Digital Input)											
2. Analog Input	3. Digital Input											
	or											
	or											

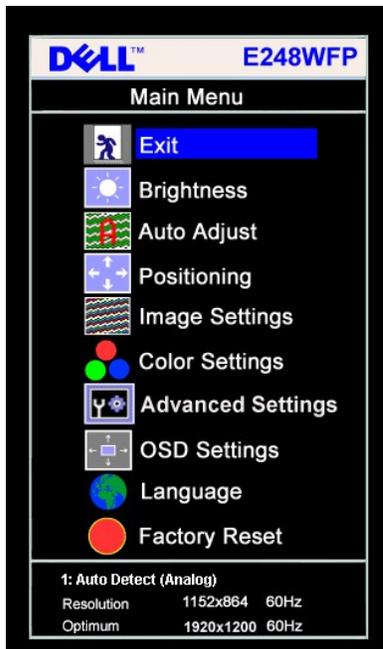
B	 OSD Menu / Select	The Menu button is used to open and exit the on-screen display (OSD), and exit from menus and sub-menus. See <a href="#">Using the OSD Menu</a> .
C	 Brightness / Contrast Hot Key	Use this button for direct access to the "Brightness" and "Contrast" control menu.
C and D	 Down (-) and Up (+)	Use these buttons to adjust (decrease/increase ranges) items in the OSD menu.
D	 Auto Adjust	Use this button to activate automatic setup and adjustment. The following dialog appears on a black screen as the monitor self-adjusts to the current input:    Auto Adjustment  button 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), Phase (Fine) controls in the OSD.  <b>NOTE:</b> Auto Adjust does not occur if you press the button while there are no active video input signals or attached cables.
E	 Power button (with power light indicator)	Use the power button to turn the monitor on and off.  The green light indicates the monitor is on and fully functional. An amber light indicates power save mode.

## Using the OSD Menu

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

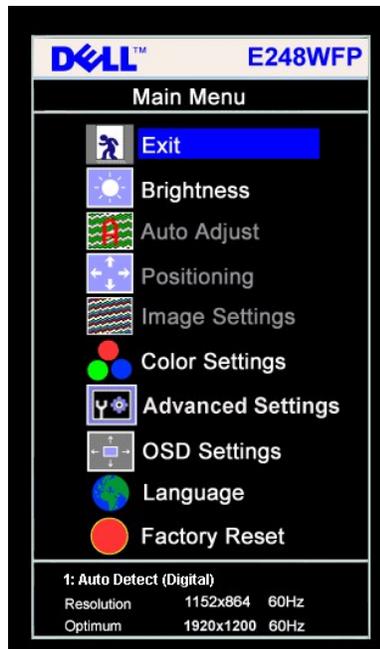
1. Push the MENU button to open the OSD menu and display the main menu.

Main Menu for Auto Detect Analog (VGA) Input

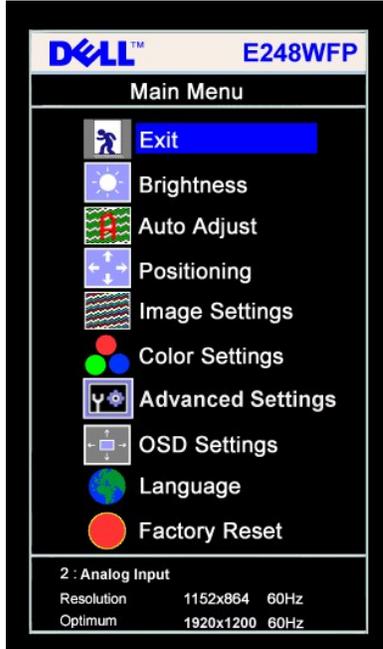


or

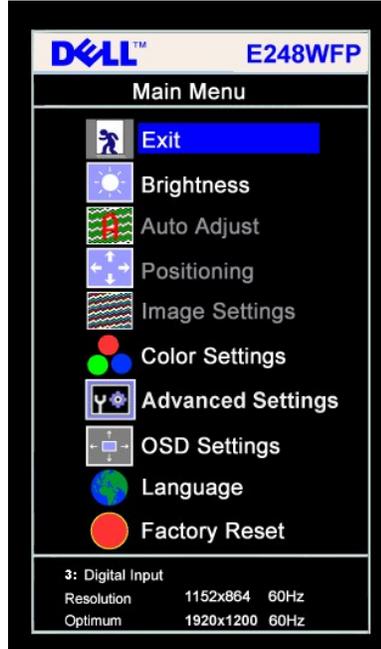
Main Menu for Auto Detect Digital (DVI) Input



Main Menu for Analog (VGA) Input



Main Menu for Digital (DVI) Input



or

**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 below 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. Push the MENU button once to return to the main menu to select another option or push the MENU button two or three times to exit from the OSD menu.

Icon	Menu and Submenus	Description
	EXIT	Select to exit the main menu.
	BRIGHTNESS & CONTRAST	Use this menu to activate Brightness/Contrast adjustment.
	Brightness	Brightness adjusts the luminance of the backlight. Push the + button to increase luminance and push the - button to decrease luminance (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.
	AUTO ADJUST	Even though your computer recognizes your monitor on startup, the Auto Adjustment function optimizes the display settings for your particular setup.  Select to activate automatic setup and adjustment. The following dialog appears on a black screen as the monitor self-adjusts to current input:  <div style="text-align: center; border: 1px solid black; background-color: black; color: white; padding: 5px; width: fit-content; margin: 0 auto;">Auto Adjust In Progress</div>

Auto Adjustment allows the monitor to self-adjust to the incoming video signal. After using Auto Adjustment, you can further tune the monitor by using the Pixel Clock (Coarse) and Phase (Fine) controls under Image Settings.

-  **NOTE:** In most cases, Auto Adjust produces the best image for your configuration.
-  **NOTE:** AUTO ADJUST option is only available when you are using the analog (VGA) connector.



**Positioning:**

Positioning moves the viewing area around on the monitor screen.



**Horizontal  
Vertical**

When making changes to either the Horizontal or Vertical settings, no changes occur to the size of the viewing area. The image response to your selection. Minimum is 0 (-) and maximum is 100 (+).

-  **NOTE:** Horizontal and Vertical are not available when using DVI connector.



**Zoom**

Use the Zoom function to zoom in to specific area of interest.

Using - and + buttons to zoom in and out.

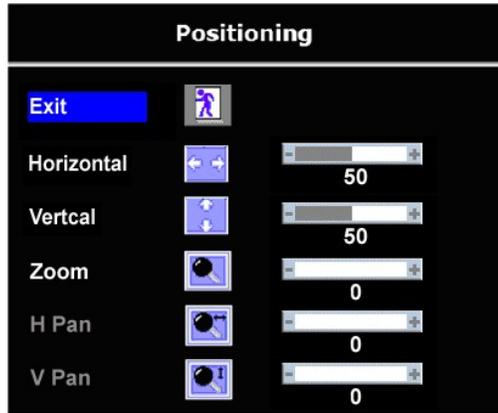


**H Pan  
V Pan**

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

Using - and + buttons to adjust image left and right. Minimum is '0' (-). Maximum is '100' (+).

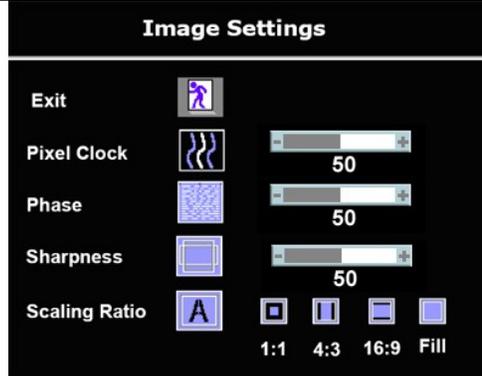
Using - and + buttons to adjust image up and down. Minimum is '0' (-). Maximum is '100' (+).



-  **NOTE:** H Pan and V Pan are not available when the value of Zoom is 0.



**Image settings:**



**Pixel Clock (Coarse)**

The Phase and Pixel Clock adjustments allow you to adjust your monitor to your preference. These settings are accessed through OSD menu, by selecting 'Image Settings'.



**Phase (Fine)**

Use the - and + buttons to adjust for best image quality.

If satisfactory results are not obtained using the Phase adjustment, use Pixel Clock (Coarse) and then use Phase (fine), again.

-  **NOTE:** This function may change the width of the display image. Use the Horizontal function of the Position menu to center display image on the screen.

-  **NOTE:** Pixel Clock and Phase are not available when using DVI connector.



**Sharpness**

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



**Scaling Ratio**

Adjust the image ratio as 1:1, 4:3, 16:9 or Fill (full screen).

-  **NOTE:** This adjustment is not required and not available at optimal preset resolution 1920 x 1200.



**Color Settings**

Color Settings adjusts the color temperature.

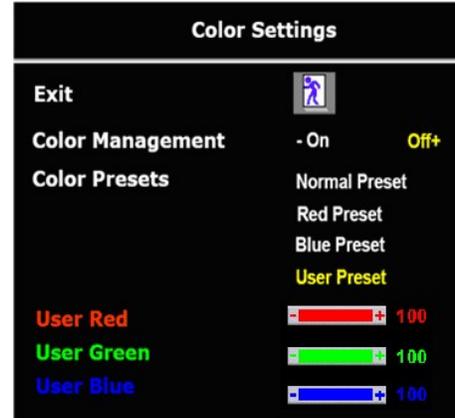
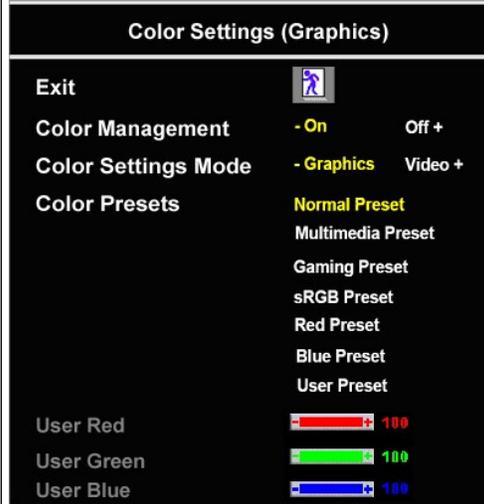
**Color Management**

Color Management is On by default. When Color Management is disabled, four modes are available: Normal Preset, Red Preset, User Preset

Color Management On

or

Color Management Off



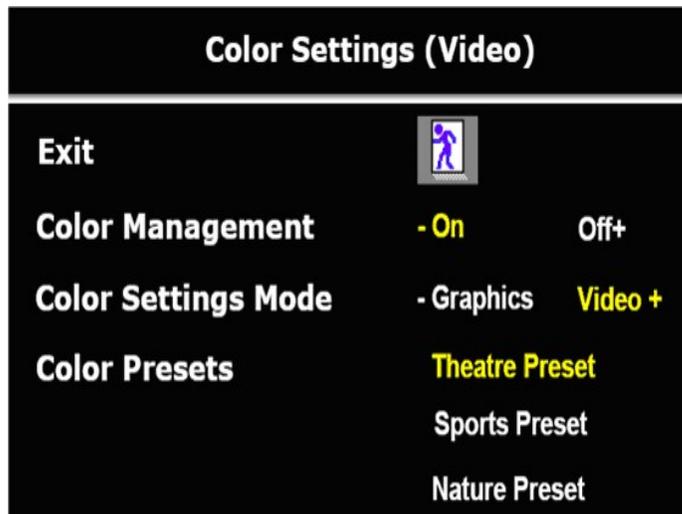
**Color Settings Mode**

Under the model, you can choose Graphics or Video according to what the signal input is. If PC is connected to your monitor, please Graphics; if DVD or STB or VCR is connected to your monitor, Video is recommended.

When Graphics is selected, you can choose Normal Preset, Multimedia Preset, Gaming Preset, sRGB Preset, Red Preset, Blue Preset

- 1 Normal Preset: Default (factory) color settings;
- 1 Multimedia Preset: Mode suitable for PC media application such as photo, clip etc;
- 1 Gaming Preset: Mode suitable for PC gaming application;
- 1 sRGB Preset: Standard default color space for sRGB;
- 1 Red Preset is selected to obtain a reddish tint. This color setting is used for color-intensive applications (photograph image, multimedia, movies, etc.);
- 1 Blue Preset is selected to obtain a bluish tint. This color setting is used for text based applications (spreadsheets, program editors, etc.);
- 1 User Preset: Use the plus and minus buttons to increase or decrease each of the three colors (R, G, B) independently, in increments, from 0 to 100;

When Video is selected, you can choose Theatre Preset, Sports Preset or Nature Preset.



	<p><b>Hue</b></p> <p><b>Saturation</b></p>	<p>1 Theatre Preset: Mode suitable for movie playback;  1 Sports Preset: Mode suitable for sports programme;  1 Nature Preset: Mode suitable for nature scenes. User can adjust the Hue (Tint)/Saturation based on the preference.</p> <p>This feature can make color shift of video image to green or purple. This is used to adjust for desired flesh tone color. Use - or + the hue from '0' to '100' .</p> <p>- makes video image shade into greenish</p> <p>+ makes video image shade into purplish</p> <p> <b>NOTE:</b> Hue adjustment only available for video input.</p> <p>This feature can adjust the color saturation of the video image. Use - or + to adjust the saturation from '0' to '100' .</p> <p>- makes video image looks more monochrome</p> <p>+ makes video image looks more colorful</p> <p> <b>NOTE:</b> Saturation adjustment only available for video input.</p>
  	<p><b>Advanced Settings:</b></p> <p><b>Input Color Format</b></p>	<p>Choose the RGB option if monitor is connected to a PC or a DVD using a VGA or a DVI cable. Choose the YPbPr+ option if monitor connected to a DVD by a YPbPr cable.</p> <div data-bbox="685 724 1295 940" style="border: 1px solid black; background-color: black; color: white; padding: 10px; text-align: center;"> <p><b>Advanced Settings</b></p> <p><b>Exit</b> </p> <p><b>Input Color Format</b>  - RGB YPbPr +</p> </div>
        	<p><b>OSD Settings:</b></p> <p><b>Horizontal Position</b></p> <p><b>Vertical Position</b></p> <p><b>OSD Hold Time</b></p> <p><b>OSD Lock</b></p>	<p>Adjust the settings for the OSD, including the location, the amount of time the menu remains on-screen, and the rotation of the OSD.</p> <p>Position of the OSD:</p> <p>1 To adjust the horizontal position of the OSD, use the - and + buttons, and move OSD to the left and right.</p> <p>1 To adjust the vertical position of the OSD, use the - and + buttons, and move OSD down and up.</p> <p><b>OSD Hold Time:</b>  The OSD stays active for as long as it is in use. Adjusting the hold time, sets the length of time the OSD remains active after the you pressed a button. Use the - and + buttons to adjust the slider in 5 second increments, from 5 to 60 seconds.</p> <p><b>OSD Lock:</b>  Controls user access to adjustments. When Yes (+) is selected, no user adjustments are allowed. All buttons are locked except button.</p> <p> <b>NOTE:</b> When the OSD is locked, pressing the menu button takes the user directly to the OSD settings menu, with OSD Lock Select No (-) to unlock and allow user access to all applicable settings.</p> <div data-bbox="743 1306 1237 1663" style="border: 1px solid black; background-color: black; color: white; padding: 10px;"> <p style="text-align: center;"><b>On Screen Display (OSD)</b></p> <p><b>Exit</b> </p> <p><b>Horizontal Position</b>  <span style="margin-left: 20px;">50</span></p> <p><b>Vertical Position</b>  <span style="margin-left: 20px;">50</span></p> <p><b>OSD Hold Time</b>  <span style="margin-left: 20px;">20 Sec</span></p> <p><b>OSD Lock</b>  - No Yes +</p> </div> <p> <b>NOTE:</b> You can also lock or unlock the OSD by pushing and holding the Menu button for 15 seconds.</p>



### Language

Select to have the OSD display in one of five languages (English, French, Spanish, German, or Japanese).

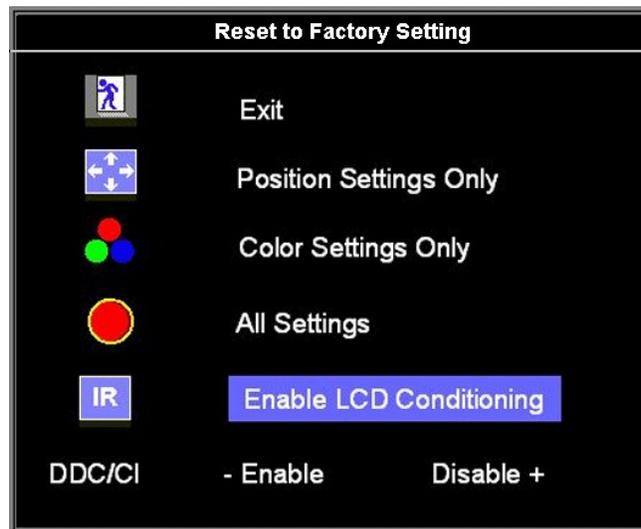


**NOTE:** The change only affects the OSD. It has no effect on any software running on the computer.



### Factory Reset:

Reset the OSD menu options to the factory preset values.



### Exit

Select to exit out of Reset to Factory Settings menu without resetting any OSD options.



### Position settings only

Change the settings for Image Position back to original factory settings.



### Color settings only

Change the Red, Green, and Blue settings back to their original factory settings and set the default setting for Normal Preset.



### All settings

Change all the user-adjustable settings including color, position, brightness, contrast and OSD hold time to the factory defaults language of the OSD does not change.



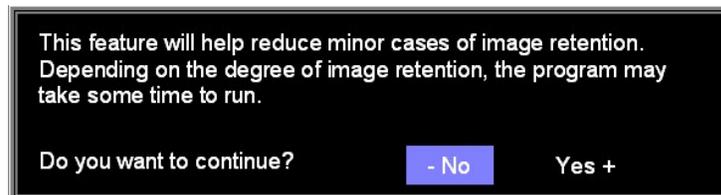
### IR

This feature will help reduce minor cases of image retention.

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

**NOTE:** Use LCD Conditioning only when you experience a problem with image retention.

Below warning message appears once user select "Enable LCD Conditioning":



**NOTE:** Press any button on the monitor to terminate LCD Conditioning at any time.

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

**DDC/CI** Enable the DDC/CI control function.

DDC/CI (Display Data Channel/Command Interface) allows you to adjust the monitor parameters (brightness, color balance, etc) software applications on your PC.

Default is "Enable". You can disable this feature by selecting "Disable".

For best user experience and optimum performance of your monitor, keep this feature enabled.

**NOTE:** If user select "Disable", display Warning message box as below. Select "Yes" disable DDC/CI and return to "Factory Reset" menu. Warning message time-out in 20 sec.

The function of adjusting display settings using PC applications will be disabled.

Do you want to disable DDC/CI? - No Yes +

### OSD Warning Messages

One of the following warning messages may appear on the screen indicating that the monitor is out of synchronization.

1. Auto Detect (Analog Input) Cannot Display This Video Mode Optimum Resolution 1920 x1200 60Hz	1. Auto Detect (Digital Input) Cannot Display This Video Mode Optimum Resolution 1920 x1200 60Hz
2. Analog Input Cannot Display This Video Mode Optimum Resolution 1920 x1200 60Hz	3. Digital Input Cannot Display This Video Mode Optimum Resolution 1920 x1200 60Hz

This means that the monitor cannot synchronize with the signal that it is receiving from the computer. Either the signal is too high or too low for the monitor to use. See [Specifications](#) for the Horizontal and Vertical frequency ranges addressable by this monitor. Recommended mode is 1920 X 1200 @ 60Hz.

**NOTE:** The floating Dell Self-test Feature Check dialog appears on-screen if the monitor cannot sense a video signal.

<div style="background-color: #ccccff; padding: 5px; text-align: center;"> <b>DELL™</b>            1: Auto Detect (Analog Input)            Self Test Feature Check         </div> <div style="background-color: red; color: white; padding: 5px; text-align: center;">Red</div> <div style="background-color: green; color: white; padding: 5px; text-align: center;">Green</div> <div style="background-color: blue; color: white; padding: 5px; text-align: center;">Blue</div> <div style="background-color: white; color: black; padding: 5px; text-align: center;">White</div>	or	<div style="background-color: #ccccff; padding: 5px; text-align: center;"> <b>DELL™</b>            1: Auto Detect (Digital Input)            Self Test Feature Check         </div> <div style="background-color: red; color: white; padding: 5px; text-align: center;">Red</div> <div style="background-color: green; color: white; padding: 5px; text-align: center;">Green</div> <div style="background-color: blue; color: white; padding: 5px; text-align: center;">Blue</div> <div style="background-color: white; color: black; padding: 5px; text-align: center;">White</div>
<div style="background-color: #ccccff; padding: 5px; text-align: center;"> <b>DELL™</b>            2: Analog Input            Self Test Feature Check         </div> <div style="background-color: red; color: white; padding: 5px; text-align: center;">Red</div> <div style="background-color: green; color: white; padding: 5px; text-align: center;">Green</div> <div style="background-color: blue; color: white; padding: 5px; text-align: center;">Blue</div> <div style="background-color: white; color: black; padding: 5px; text-align: center;">White</div>	or	<div style="background-color: #ccccff; padding: 5px; text-align: center;"> <b>DELL™</b>            3: Digital Input            Self Test Feature Check         </div> <div style="background-color: red; color: white; padding: 5px; text-align: center;">Red</div> <div style="background-color: green; color: white; padding: 5px; text-align: center;">Green</div> <div style="background-color: blue; color: white; padding: 5px; text-align: center;">Blue</div> <div style="background-color: white; color: black; padding: 5px; text-align: center;">White</div>

Occasionally, no warning message appears, but the screen is blank. This could also indicate that the monitor is not synchronizing with the computer.

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](http://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.

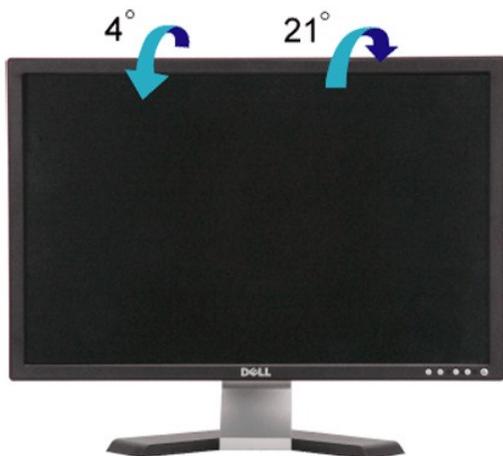


1. Power/volume control
2. Power indicator
3. Headphone connectors

---

## Using the Tilt

With the built-in pedestal, you can tilt the monitor to best suit your viewing needs.



[Back to Contents Page](#)

[Back to Contents Page](#)

## Setting Up Your Monitor

### Dell™ E248WFP Flat Panel Monitor

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### 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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[Back to Contents Page](#)

# Dell™ E248WFP Flat Panel Monitor

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

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Model E248WFP

August 2007 Rev. A02

## Setting Up the Monitor

### Dell™ E248WFP Flat Panel Monitor

- [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.

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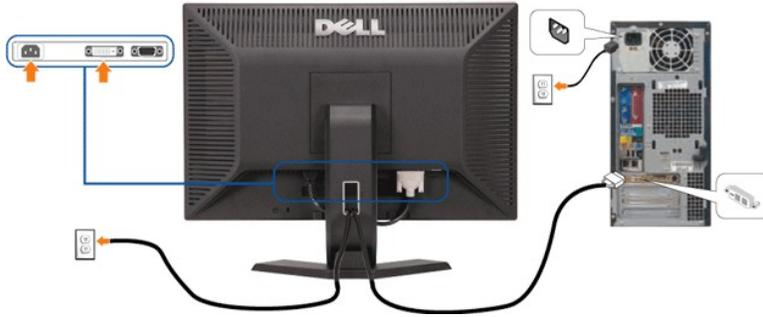
## Connecting Your Monitor

 **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) 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 the computer may vary.

After you have completed connecting the DVI/VGA 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 opening 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 hole 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 the place.
3. Connect the Soundbar with the power brick.
4. Plug the power cables of the power brick into a nearby outlet.
5. Insert the lime green 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 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.



After placing the monitor panel on a soft cloth or cushion, press and hold the LCD removal button, and then remove the stand.

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[Back to Contents Page](#)

## Solving Problems

### Dell™ E248WFP Flat Panel Monitor

- [Monitor Specific Troubleshooting](#)
- [Common Problems](#)
- [Product Specific Problems](#)

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

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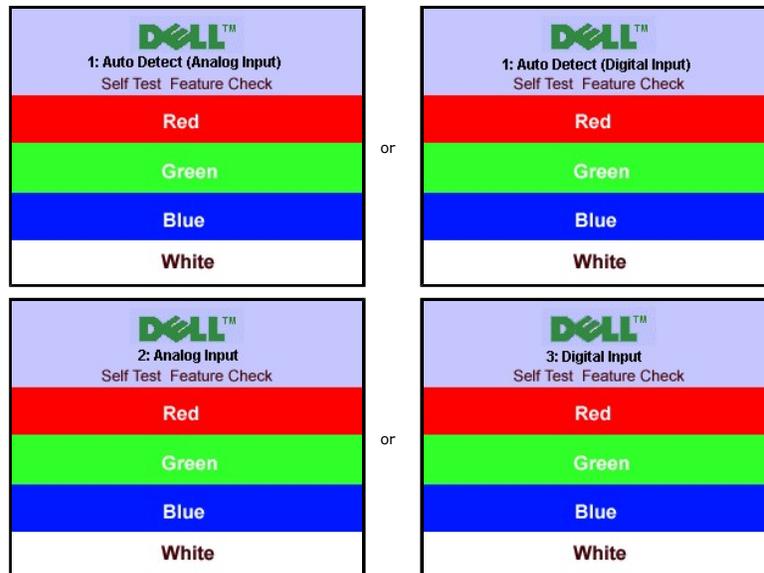
## Troubleshooting Your Monitor

### 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 the Analog (blue connector) cables from the back of computer.
3. Turn on the monitor.

The floating 'Dell - Self-Test Feature Check' 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.

### OSD Warning Messages

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

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## Common Problems

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

Common Symptoms	What You Experience	Possible Solutions
No Video/ Power LED off	No picture	<ul style="list-style-type: none"> <li>1 Ensure that the video cable connecting the monitor and the computer is properly connected and secure.</li> <li>1 Verify that the power outlet is functioning properly using any other electrical equipment.</li> <li>1 Ensure that the power button depressed fully.</li> </ul>
No Video/ Power LED on	No picture or no brightness	<ul style="list-style-type: none"> <li>1 Increase brightness &amp; contrast controls via OSD.</li> <li>1 Perform monitor self-test feature check.</li> <li>1 Check for bent or broken pins in the video cable connector.</li> </ul>
Poor Focus	Picture is fuzzy, blurry, or ghosting	<ul style="list-style-type: none"> <li>1 Perform Auto Adjust via OSD.</li> <li>1 Adjust the Phase and Pixel Clock controls via OSD.</li> <li>1 Eliminate video extension cables.</li> <li>1 Reset the monitor to Factory Settings.</li> <li>1 Change the video resolution to the correct aspect ration (16:10).</li> </ul>
Shaky/Jittery Video	Wavy picture or fine movement	<ul style="list-style-type: none"> <li>1 Perform Auto Adjust via OSD.</li> <li>1 Adjust the Phase and Pixel Clock controls via OSD.</li> <li>1 Reset the monitor to Factory Settings.</li> <li>1 Check environmental factors.</li> <li>1 Relocate the monitor and test in another room.</li> </ul>
Missing Pixels	LCD screen has spots	<ul style="list-style-type: none"> <li>1 Cycle power on-off.</li> <li>1 Pixel that is permanently off is a natural defect that can occur in LCD technology.</li> </ul>
Stuck-on Pixels	LCD screen has bright spots	<ul style="list-style-type: none"> <li>1 Cycle power on-off.</li> <li>1 Pixel that is permanently off is a natural defect that can occur in LCD technology.</li> </ul>
Brightness Problems	Picture too dim or too bright	<ul style="list-style-type: none"> <li>1 Reset the monitor to Factory Settings.</li> <li>1 Auto Adjust via OSD.</li> <li>1 Adjust brightness &amp; contrast controls via OSD.</li> </ul>
Geometric Distortion	Screen not centered correctly	<ul style="list-style-type: none"> <li>1 Reset the monitor to Factory Settings.</li> <li>1 Auto Adjust via OSD.</li> <li>1 Adjust brightness &amp; contrast controls via OSD.</li> </ul> <p><b>NOTE:</b> When using 'DVI-D', the positioning adjustments are not available.</p>
Horizontal/Vertical Lines	Screen has one or more lines	<ul style="list-style-type: none"> <li>1 Reset the monitor to Factory Settings.</li> <li>1 Perform Auto Adjust via OSD.</li> <li>1 Adjust Phase and Pixel Clock controls via OSD.</li> <li>1 Perform monitor self-test feature check and determine if these lines are also in self-test mode.</li> <li>1 Check for bent or broken pins in the video cable connector.</li> </ul> <p><b>NOTE:</b> When using 'DVI-D', the Pixel Clock and Phase adjustments are not available.</p>
Synchronization Problems	Screen is scrambled or appears torn	<ul style="list-style-type: none"> <li>1 Reset the monitor to Factory Settings.</li> <li>1 Perform Auto Adjust via OSD.</li> <li>1 Adjust Phase and Pixel Clock controls via OSD.</li> <li>1 Perform monitor self-test feature check to determine if scrambled screen appears in self-test mode.</li> <li>1 Check for bent or broken pins in the video cable connector.</li> <li>1 Restart the computer in the <i>safe mode</i>.</li> </ul>
Safety Related Issues	Visible signs of smoke or sparks	<ul style="list-style-type: none"> <li>1 Do not perform any troubleshooting steps.</li> <li>1 Contact Dell immediately.</li> </ul>
Intermittent Problems	Monitor malfunctions on & off	<ul style="list-style-type: none"> <li>1 Ensure that the video cable connecting the monitor to the computer is connected properly and is secure.</li> <li>1 Reset the monitor to Factory Settings.</li> <li>1 Perform monitor self-test feature check to determine if the intermittent problem occurs in self-test mode.</li> </ul>
Missing Color	Picture missing color	<ul style="list-style-type: none"> <li>1 Perform monitor self-test feature check.</li> <li>1 Ensure that the video cable connecting the monitor to the computer is connected properly and is secure.</li> <li>1 Check for bent or broken pins in the video cable connector..</li> </ul>
Wrong Color	Picture color not good	<ul style="list-style-type: none"> <li>1 Change the Color Setting Mode in the Color Settings OSD to Graphics or Video depending to the application.</li> <li>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.</li> <li>1 Change the Input Color Format to PC RGB or YPbPr in the Advance Setting OSD.</li> </ul>
Image retention from a static image left on the monitor for a long period of time	Faint shadow from the static image displayed appears on the screen	<ul style="list-style-type: none"> <li>1 Use the Power Management feature to turn off the monitor at all times when not in use (for more information, see <a href="#">Power Management Modes</a>).</li> <li>1 Alternatively, use a dynamically changing screensaver.</li> </ul>
Input auto switching to another source	Can't select input source	<ul style="list-style-type: none"> <li>1 Under "Auto Detect" mode if one of the DVI or VGA signal is lost(or cable disconnected) the display will automatically switch to the other input source where a signal exist.</li> </ul>

## Product Specific Problems

SPECIFIC SYMPTOMS	WHAT YOU EXPERIENCE	POSSIBLE SOLUTIONS
Screen image is too small	Image is centered on screen, but does not fill entire	<ul style="list-style-type: none"> <li>1 Reset the monitor to factory settings using</li> </ul>

	viewing area	the <b>All Settings</b> option.
Cannot adjust the monitor with the buttons on the front panel	OSD does not appear on the screen	<ul style="list-style-type: none"><li>1 Turn off the monitor, unplug the power cord, plug back, and then turn on the monitor.</li><li>1 The OSD Lock is On. Press the menu button for 15 seconds to unlock the OSD menu.</li></ul>

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[Back to Contents Page](#)