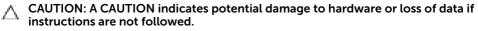
Dell E2016 Monitor User's Guide





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



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

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Package Contents

Your monitor ships with the components shown below. Make sure 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.





- Drivers and documentation media
- Quick Setup Guide

VGA Cable

Safety and Regulatory Information

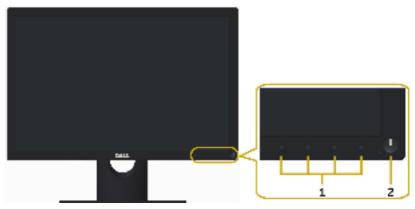
Product Features

The **Dell E2016** flat panel display has an active matrix, thin-film transistor (TFT), liquid crystal display (LCD), and LED backlight. The monitor features include:

- 49.40 cm (19.45 inch) active area display (Measured diagonally) 1440 x 900 resolution, plus full-screen support for lower resolutions.
- 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 includes an information file (INF), Image color Matching File (ICM), Dell Display Manager software application and product documentation. Dell Display Manager included (comes in the CD attached with the monitor).
- Security lock slot.
- Asset Management Capability.
- Energy Star Compliant.
- EPEAT Silver Compliant.
- RoHS compliant.
- BFR/PVC- reduced.
- Arsenic-Free glass and Mercury Free for Panel only.
- Energy Gauge shows the energy level being consumed by the monitor in real time.
- TCO Certified Displays.
- Analog backlight dimming control for flicker free display.
- CECP (for China only).

Identifying Parts and Controls

Front view



Label	Description
1	Function buttons (For more information, see Operating the Monitor)
2	Power on/off button (with LED indicator)

Back View



Label	Description	Use
1	VESA mounting holes (100 mm x 100 mm - behind attached VESA cover)	Wall mount monitor using VESA-compatible wall mount kit (100 mm x 100 mm).
2	Regulatory label	Lists the regulatory approvals.
3	Security-lock slot	Secures monitor with security lock (sold separately).
4	Barcode serial number label	Refer to this label if you need to contact Dell for technical support. NOTE: Service tag printing (EMEA region only).
5	Dell Soundbar mounting slots	Attaches the optional Dell Soundbar.
6	Cable-management slot	Use to organize cables by placing them through the slot.

Bottom View



Label	Description	Use
1	AC power connector	To connect the monitor power cable.
2	VGA port	Connect your computer with VGA cable.

Monitor Specifications

Flat Panel Specifications

Screen type	Active matrix - TFT LCD
Panel type	In-plane switching type
Viewable image:	
Diagonal	49.40 cm (19.45 inches)
Active Area:	
Horizontal	418.61 mm (16.48 inches)
Vertical	262.35 mm (10.33 inches)
Area	109821.81 mm ² (170.22 inch ²)
Pixel pitch	0.2915 mm x 0.2915 mm
Viewing angle:	
Horizontal	178° (typical)
Vertical	178° (typical)
Luminance output	250 cd/m² (typical)
Contrast ratio	1000:1 (typical)

Faceplate coating	AG type, hard-coating 3H
Backlight	LED
Response time	6ms Typ. g-to-g with OD (Fast mode)
Color depth	16.7 million colors
Color gamut (typical)	72%* (CIE1931)

*Color gamut (typical) is based on CIE1976 (85%) and CIE1931 (72%) test standards.

Resolution Specifications

Horizontal scan range	30 kHz to 83 kHz (automatic)
Vertical scan range	56 Hz to 76 Hz (automatic)
Maximum preset resolution	1440 x 900 at 60 Hz
Video display capabilities	480i, 576i, 480p, 576p, 720p

Preset Display Modes

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal/ Vertical)
720 x 400	31.47	70	28.32	-/+
640 x 480	31.47	60	25.18	-/-
640 x 480	37.50	75	31.50	-/-
800 x 600	37.88	60	40	+/+
800 x 600	46.88	75	49.50	+/+
1024 x 768	48.36	60	65	-/-
1024 x 768	60.02	75	78.75	+/+
1152 x 864	67.50	75	108	+/+
1280 x 1024	64	60	108	+/+
1280 x 1024	80	75	135	+/+
1280 x 800	49.70	60	83.50	-/+
1440 x 900	55.94	60	106.50	-/+
1440 x 900	70.60	75	136.75	-/+

Electrical Specifications

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

Physical Characteristics

Connector type	15-pin D-subminiature (black connector).
Signal cable type	Analog: Detachable, D-Sub, 15 pins.
Dimensions (with stand):	
Height	390.95 mm (15.39 inches)
Width	454.21 mm (17.88 inches)
Depth	180 mm (7.09 inches)
Dimensions (without stand):	
Height	297.95 mm (11.73 inches)
Width	454.21 mm (17.88 inches)
Depth	50.99 mm (2 inches)
Stand dimensions:	
Height	176.80 mm (6.96 inches)
Width	250 mm (9.84 inches)
Depth	180 mm (7.09 inches)
Weight:	
With packaging	4.18 kg (9.22 lb)
With stand assembly and cables	3.05 kg (6.72 lb)
Without stand assembly (for wall mount or VESA mount considerations - no cables)	2.29 kg (5.05 lb)
Stand assembly	0.52 kg (1.15 lb)

Environmental Characteristics

Temperature:	
Operating	0°C to 40°C (32°F to 104°F)
Non-operating	-20°C to 60°C (-4°F to 140°F)
Humidity:	
Operating	10% to 80% (non-condensing)
Non-operating	5% to 90% (non-condensing)
Altitude:	
Operating	5,000 m (16,404 ft) (maximum)
Non-operating	12,192 m (40,000 ft) (maximum)
Thermal dissipation	• 68.24 BTU/hour (maximum)
	• 54.59 BTU/hour (typical)

Power Management Modes

If you have VESA's DPM-compliant video 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 the 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	White	20W (maximum)** 16W (typical)
Active-off mode	Inactive	Inactive	Off	Breathing White (blinking slowly)	Less than 0.3 W
Switch off	-	-	-	Off	Less than 0.3 W

Energy Star	Power Consumption
On Mode	13.44 W***

The OSD operates only in the normal operation mode. If you press any button in the active-off mode, the following message is displayed:



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

**Maximum power consumption with maximum luminance.

***Energy consumption (On Mode) is tested at 230 Volts / 50 Hz.

This document is informational only and reflects laboratory performance. Your product may perform differently, depending on the software, components and peripherals you ordered and shall have no obligation to update such information. Accordingly, the customer should not rely upon this information in making decisions about electrical tolerances or otherwise. No warranty as to accuracy or completeness is expressed or implied.

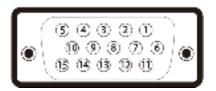
Activate the computer and the monitor to gain access to the OSD.

NOTE: This monitor is **ENERGY STAR** - compliant.



Pin Assignments

VGA port



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 5 V / 3.3 V
10	GND-sync
11	GND
12	DDC data
13	H-sync
14	V-sync
15	DDC clock

Plug-and-Play

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 computer 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.

LCD Monitor Quality and Pixel Policy

During the LCD monitor manufacturing process, it is not uncommon for one or more pixels to become fixed in an unchanging state which are hard to see and do not affect the display quality or usability. For more information on LCD Monitor Pixel Policy, see Dell support site at: http://www.dell.com/support/monitors.

Setting Up the Monitor

Attaching the Stand



NOTE: The stand riser and stand base are detached when the monitor is shipped from the factory.



NOTE: The procedure below is applicable for the default stand. If you purchased any other stand, see the documentation shipped with the stand to set it up.

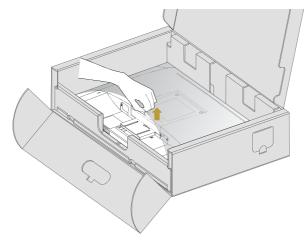
CAUTION: Do not remove the monitor from the packaging box before attaching the stand.

Attach the stand assembly to the monitor.

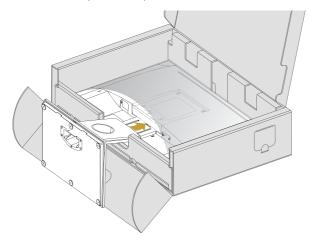
- **1** Follow the instructions on the flaps of carton to remove the stand from the top cushion that secures it.
- 2 Connect the stand riser to stand base



3 Lift the cover, as shown.

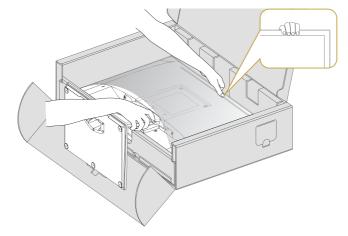


4 Insert the two tabs on the upper part of the stand in the slots on the back of the monitor till it snaps into its place.



Place the monitor upright.

- 1 Slide one hand in the cutout area on the bottom cushion and use the other hand to hold the stand.
- 2 Lift the monitor carefully to prevent it from slipping or falling.
- **3** Remove the cover from the monitor.
- CAUTION: Do not press on the panel screen when lifting the monitor.



Attaching the Vesa Cover

NOTE: The vesa cover is detached when the monitor is shipped from the factory.

- 1 Insert the two tabs on the upper part of the vesa cover in the slots on the back of the monitor.
- 2 Press the vesa cover till it snaps into place.



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.
- 2 Connect the VGA cable from your monitor to the computer.
- **3** Switch on your monitor.



Organizing Your Cables



After attaching all necessary cables to your monitor and computer, (see Connecting Your Monitor for cable attachment) organize all cables as shown above.

Removing the Vesa Cover

Lift from both side simultaneously, remove the VESA Cover away from the monitor.



Removing the Monitor Stand



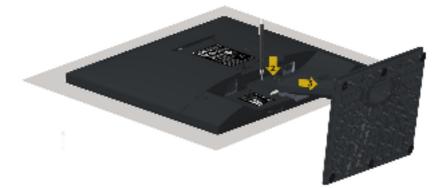
CAUTION: To prevent scratches on the LCD screen while removing the stand, make sure that the monitor is placed on a soft, clean surface.



NOTE: The procedure below is applicable for the default stand. If you purchased any other stand, see the documentation shipped with the stand to set it up.

To remove the stand:

- **1** Place the monitor on a flat surface.
- 2 Use a pen hold the release button.
- **3** Pull the stand neck in the arrow direction to detach the stand.



Wall Mounting (Optional)



NOTE: Use M4 x 10 mm screws to connect the monitor to the wall-mounting kit.

Refer to the instructions that come with the VESA-compatible wall mounting kit.

- 1 Place the monitor on a soft cloth or cushion on a stable, flat table.
- 2 Remove the stand.
- **3** Use a Phillips crosshead screwdriver to remove the four screws securing the plastic cover.
- 4 Attach the mounting bracket from the wall mounting kit to the monitor.
- **5** Mount the monitor on the wall by following the instructions that comes with the wall mounting kit.

NOTE: For use only with UL or CSA or GS-listed wall mount bracket with minimum weight/load bearing capacity of 2.29 kg (5.05 lb).

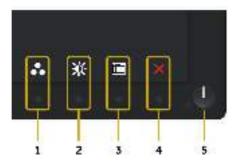
Turning on the Monitor

Press the 🔮 button to turn on the monitor.



Using the Front Panel Controls

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.

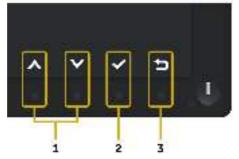


The following table describes the front panel buttons:

Fro	ont-Panel Button	Description
1	Θ	Use this button to choose from a list of preset color modes.
	Shortcut key: Preset Modes	
2	•	Use this button to directly access the "Brightness/ Contrast" menu.
	Shortcut key :	
	Brightness/Contrast	
3	Ē	Use this menu button to launch the on-screen display (OSD) and select the OSD menu.
	Menu	See Accessing the Menu System.
4	Exit	Use this button to go back to the main menu or exit the OSD main menu.
5	Ø	Use the Power button to turn the monitor on and off.
	Power (with power light indicator)	The White LED indicates the monitor is on and fully functional. A blinking white LED indicates DPMS power save mode.

Front-Panel Button

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



Front Panel Button		Description	
1	Op Down	Use the Up (increase) and Down (decrease) keys to adjust items in the OSD menu.	
2	О К	Use the OK button to confirm your selection.	
3	B ack	Use the Back button to go back to the previous menu.	

Using the On-Screen Display (OSD) Menu

Accessing the Menu System

- **NOTE:** Any changes you make using the OSD menu are automatically saved if you move to another OSD menu, exit the OSD menu, or wait for the OSD menu to disappear.
- 1 Press the main button to launch the OSD menu and display the main menu.



- 2 Press the **and buttons** to move between options. As you move from one icon to another, the option name is highlighted.
- 3 Press the 🖃 or 🚱 button once to activate the highlighted option.
- 4 Press the 🔊 and 😵 buttons to select the desired parameter.
- 5 Press 🔁 to enter the slide bar and then use the 🛕 or 🕐 button, according to the indicators on the menu, to make your changes.
- 6 Press the button once to return to the main menu to select another option or press the button two or three times to exit from the OSD menu.

lcon	Menu and Submenus	Description				
A	Brightness/	Use this menu to activate Brightness/Contrast adjustment.				
W	Contrast	194 62.08	Sec.	ty N		
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		At Color				
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		M Yes				
		* Perconalice				
		15 0441				
		4566-377 (440-277 F74E)	5	1.57		
				∧ ¥ → ¥		
	Brightness	Brightness adjusts th	e luminance of the back	dight		
		(minimum 0; maximum 100).				
		Press the 🙆 button to increase brightness.				
		Press the 😡 button to decrease brightness.				
	Contrast	Contrast Adjust the Brightness first, and then adjust Cont further adjustment is necessary.		ontrast only if		
			to increase contrast and ontrast (between 0 and			
		Contrast adjusts the olightness on the mon	lifference between dark itor.	ness and		

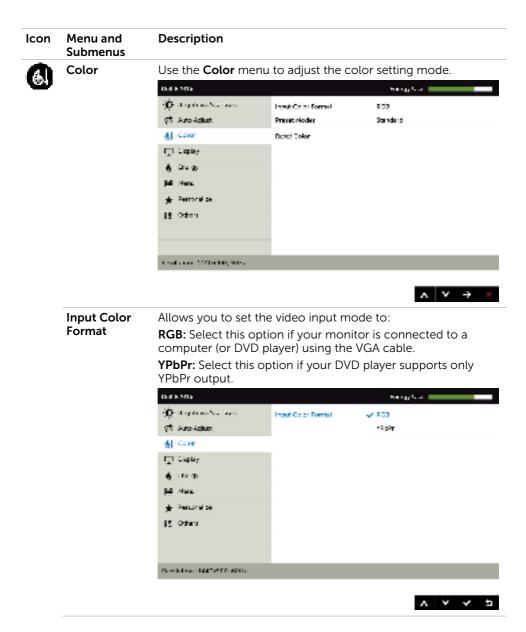
lcon	Menu and Submenus	Description			
0	Auto Adjust	Even though your computer recognizes your monitor on startup, the Auto Adjustment function optimizes the display settings for use with your particular setup.			
		incoming video sig further tune your i	allows the monitor to self-adjust to the gnal. After using Auto Adjustment , you car monitor by using the Pixel Clock (Coarse) ontrols under Display menu.		
		154 (x)/m	From State		
		n in a star with the star			
		Stanistin .	Press of tendent the second solar solars.		
		At Color			
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		6 Dense			
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		If Other			



The following dialog appears on a black screen as the monitor automatically adjusts to the current input:



NOTE: In most cases, **Auto Adjust** produces the best image for your configuration.

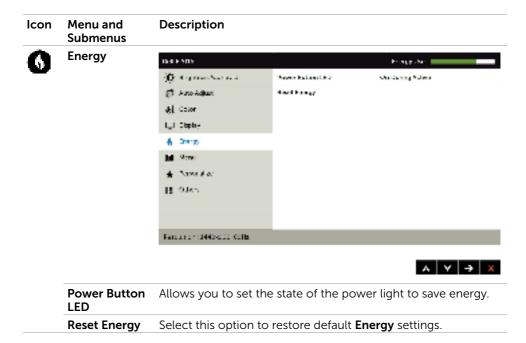


lcon	Menu and Submenus	Description		
	Preset Mode			an choose Standard , ustom Color from the
		• Standard: Default of mode.	color settings. This	s is the default preset
		• Multimedia: Ideal fe	or multimedia app	olications.
		• Paper: Loads bright viewing text. Blend media without affect	the text backgrou	and to simulate paper
		• Warm: Increases th warmer with a red/		ure. The screen appears
		• Cool: Decreases th cooler with a blue t		ure. The screen appears
		• Custom Color: Allo settings.	ows you to manua	lly adjust the color
		Press the 🙆 and 😨 Blue values and crea		t the Red, Green, and et color mode.
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		🔅 tegeten Samuel		🗸 Sanderd
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	Reset Color	Resets your monitor	's color settings to	the factory defaults.

lcon	Menu and Submenus	Description		
Ô	Display	Use the Display r	nenu to adjust ima	ige.
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		😹 Nea	Phere	50
		🖈 Pertonel ce	Require 1 are	Name of Concerning States of C
		(S) Others	Birst Dirich is	
		Reaches TINGUE DRV		

Aspect Ratio	Adjust the image ratio to Wide 16:10, 4:3, or 5:4.
Horizontal Position	Use 🔊 or 😰 to adjust the image left or right. Minimum is '0' (-). Maximum is '100' (+).
Vertical Position	Use 💽 or 😧 to adjust the image up or down. Minimum is '0' (-). Maximum is '100' (+).
Sharpness	Makes 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. 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.
Response Time	Allows you to set the Response Time to Normal or Fast .
Reset Display	Restores the display settings to factory defaults.

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lcon	Menu and Submenus	Description			
٥	Menu	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.			
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		E come			
		Rept / toro 1447 (900, 50 lp			
	Language		ench, German	, Brazilian Portuguese,	
	Language Transparency	(English, Spanish, Fre Russian, Simplified C	ench, German hinese, or Jap change the n	, Brazilian Portuguese,	
		(English, Spanish, Fre Russian, Simplified C Select this option to and (min. 0 / OSD Hold Time: Set active after you press Use the (a) and (b) the	ench, German hinese, or Jap change the n max. 100). ts the length o s a button. puttons to adj	n, Brazilian Portuguese, panese). nenu transparency by using of time the OSD remains just the slider in 1-second	
	Transparency	(English, Spanish, Fre Russian, Simplified C Select this option to and (min. 0 / OSD Hold Time: Set active after you press Use the and the increments, from 5 the Controls user access no user adjustments NOTE:	ench, German hinese, or Jap change the m max. 100). ts the length of s a button. buttons to adj o 60 seconds to adjustmer are allowed.	h, Brazilian Portuguese, panese). nenu transparency by using of time the OSD remains just the slider in 1-second s. hts. When Lock is selected, All buttons are locked.	
	Transparency Timer	(English, Spanish, Fre Russian, Simplified C Select this option to and (min. 0 / OSD Hold Time: Set active after you press Use the and the increments, from 5 the Controls user access no user adjustments NOTE: Lock function – Eith lock (Press and hold	ench, German hinese, or Jap change the m max. 100). ts the length of s a button. buttons to adj o 60 seconds to adjustmer are allowed. er soft lock (t the button le only hard unlo	b, Brazilian Portuguese, panese). nenu transparency by using of time the OSD remains just the slider in 1-second s. hts. When Lock is selected, All buttons are locked. hrough OSD menu) or hard ft power button for 6 sec) ock (Press and hold the	

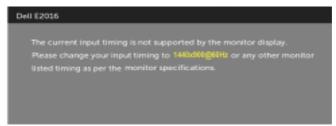
lcon	Menu and Submenus	Description				
0	Personalize	Select from Preset Modes, Brightness/Contrast, Auto Adjus and Aspect Ratio set as shortcut key.				
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		📓 Other				
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	Personalization	the EXTLA 使 Uniper and New Associ 使 Anno Actual 通 Conor 一 Chapter 美 Inter (1) 単 Anno. 美 Personal De	Discon LCE Conditioning Prior Them	bang tau Ladé		

Select this option to adjust the OSD settings, such as the **DDC/CI**, **LCD conditioning**, and so on.

on	Menu and Submenus	Description			
	DDC/CI	DDC/CI (Display Data Channel/Command Interface) allows you to adjust the monitor settings using software on your computer. Select Disable to turn off this feature.			
		Enable this feature for best user experience and optimum			
		performance of your monitor.			
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	LCD Conditioning		retention. Depending on program may take some		
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	Reset Others	Restores other settings, such as DDC/CI to factory defaults.			
	Factory Reset	Restores all OSD set	Restores all OSD settings to the factory defaults.		
	i actory neset	Nestores all OSD settings to the factory defaults.			

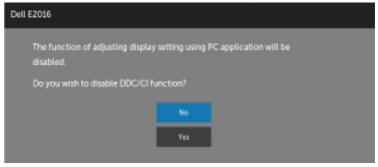
OSD Warning Messages

When the monitor does not support a particular resolution mode, you can 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 can see the following message before the DDC/CI function is disabled:



When the monitor enters the **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:



If VGA cable is not connected, a floating dialog box as shown below appears.



See Troubleshooting for more information.

Using Tilt

NOTE: This is applicable for a monitor with a stand. If you purchased any other stand, refer to the respective stand setup guide for set up instructions.

Tilt

With the stand attached to the monitor, you can tilt the monitor for the most comfortable viewing angle.



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

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.
- **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 white also, depending upon the selected input, one of the dialogs shown below will continuously scroll through the screen.

Dell E2016	
No V	GA Cable
The display will o	jo into Power Save Mode in 5 minutes.
	www.dell.com/support/monitors
	www.dec.com/aspport/monitors

- **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.

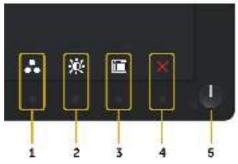
If your monitor screen remains blank after you use the previous procedure, check your video controller and computer, because your monitor is functioning properly.

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:

- Make sure that the screen is clean (no dust particles on the surface of the screen). 1
- 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 **Button 1** and **Button 4** on the front panel simultaneously for 2 seconds. A gray screen appears.
- 4 Carefully inspect the screen for abnormalities.
- 5 Press Button 4 on the front panel again. The color of the screen changes to red.
- 6 Inspect the display for any abnormalities.
- Repeat steps 5 and 6 to inspect the display in green, blue, black, white, and text 7 screens

The test is complete when the text screen appears. To exit, press **Button 4** 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 ratio. 	
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. For more information on Dell Monitor Quality and Pixel Policy, see Dell Support site at: http://www.dell.com/support/monitors. 	
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. For more information on Dell Monitor Quality and Pixel Policy, see Dell Support site at: http://www.dell.com/support/monitors. 	
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 horizontal & vertical controls via OSD. 	

Common Symptoms	What You Experience	Possible Solutions
Horizontal/ Vertical Lines	Screen has one or more lines	 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	 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 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. 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 settings of the Preset Modes in the Color menu OSD depending on the application. Adjust R/G/B value under Custom. Color in Color menu OSD. Change the Input Color Format to PC RGB or YPbPr in the Color menu 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 Power Management Modes). Alternatively, use a dynamically changing screensaver.

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 Aspect Ratio setting in the Display menu 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	 Turn off the monitor, unplug the monitor power cable, plug it back, and then turn on the monitor. Check whether the OSD menu is locked. If yes, press and hold the button beside the power button for 6 seconds to unlock (for more information, see Lock).
No Input Signal when user controls are pressed	No picture, the LED light is white	 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 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	 Due to different video formats (aspect ratio) of DVDs, the monitor may display in full screen. Run the built-in diagnostics.

Product Specific Problems

Safety Instructions

WARNING: Use of controls, adjustments, or procedures other than those specified in this documentation may result in exposure to shock, electrical hazards, and/or mechanical hazards.

For information on safety instructions, see the Safety, Environmental, and Regulatory Information (SERI).

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

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 get online Monitor support content:

See www.dell.com/support/monitors.

To contact Dell for sales, technical support, or customer service issues:

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

Setting Up Your Monitor

Setting Display Resolution to 1440 x 900 (maximum)

For best performance, set the display resolution to 1440 x 900 pixels by performing the following steps:

In Windows Vista, Windows 7, Windows 8 or Windows 8.1:

- **1** For Windows 8 or Windows 8.1 only, select the Desktop tile to switch to classic desktop.
- 2 Right-click on the desktop and click **Screen Resolution**.
- 3 Click the Dropdown list of the Screen Resolution and select 1440 x 900.
- 4 Click OK.

In Windows 10:

- 1 Right-click on the desktop and click **Display Settings**.
- 2 Click Advanced display settings.
- **3** Click the dropdown list of **Resolution** and select 1440 x 900.
- 4 Click Apply.

If you do not see the recommended resolution 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 given steps.

Dell computer

- **1** Go to www.dell.com/support, 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 1440 x 900 again.



NOTE: If you are unable to set the resolution to 1440 x 900, please contact Dell to inquire about a graphics adapter that supports these resolutions.

Non-Dell computer

In Windows Vista, Windows 7, Windows 8 or Windows 8.1:

- 1 For Windows 8 or Windows 8.1 only, select the Desktop tile to switch to classic desktop.
- 2 Right-click on the desktop and click **Personalization**.
- 3 Click Change Display Settings.
- 4 Click Advanced Settings.
- 5 Identify your graphics controller supplier from the description at the top of the window (e.g. NVIDIA, ATI, Intel etc.).
- **6** Refer to the graphic card provider website for updated driver (for example, http://www.ATI.com or http://www.NVIDIA.com).
- 7 After installing the drivers for your graphics adapter, attempt to set the resolution to **1440 x 900** again.

In Windows 10:

- 1 Right-click on the desktop and click **Display Settings**.
- 2 Click Advanced display settings.
- 3 Click Display adapter properties.
- 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.ATI.com or http://www.NVIDIA.com).
- 6 After installing the drivers for your graphics adapter, attempt to set the resolution to **1440 x 900** again.



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

Maintenance Guidelines

Cleaning Your Monitor



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

CAUTION: Read and follow the Safety Instructions before cleaning the monitor.

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

- To clean your anti-static screen, lightly dampen a soft, clean cloth with water. If possible, use a special screen-cleaning tissue or solution suitable for the anti-static coating. Do not use benzene, thinner, ammonia, abrasive cleaners, or compressed air.
- Use a lightly-dampened, soft 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 a darker-colored monitor may get scratched and show white scuff marks more than a 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.