User's Guide

Dell E1916HV Dell E1916HL Dell E2016HV Dell E2016HL Dell E2216HV Dell E2216HVM

Regulatory model: E1916HVf / E2016HVf / E2216HVf





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

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

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

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About Your Monitor

Package Contents

Your monitor ships with all the components shown below. Ensure that you have received all the components and <u>Contact Dell</u> if anything 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.

Dett	• Monitor
	• Stand Riser
	Stand Base
Deel	• VESA™ Screw Cover
	• Power Cable (varies with countries)
	• VGA Cable
	 Drivers and Documentation media Quick Setup Guide Safety and Regulatory Information

Product Features

The Dell E1916HV / E1916HL / E2016HV / E2016HL / E2216HV / E2216HVM flat-panel display has an active matrix, Thin-Film Transistor, Liquid Crystal Display and LED backlight. The monitor's features include:

- **E1916HV / E1916HL**: 47.01 cm (18.51 inches) diagonal viewable image size, 1366 x 768 resolution, plus full-screen support for lower resolutions.
- **E2016HV / E2016HL**: 49.41 cm (19.5 inches) diagonal viewable image size, 1600 x 900 resolution, plus full-screen support for lower resolutions.
- **E2216HV / E2216HVM**: 54.69 cm (21.53 inches) diagonal viewable image size, 1920 x 1080 resolution, plus full-screen support for lower resolutions.
- Tilt adjustment capability.
- Removable pedestal and Video Electronics Standards Association (VESA) 100 mm mounting holes for flexible mounting solutions.
- Plug and play capability if supported by your system.
- On-Screen Display (OSD) adjustments for ease of set-up and screen optimization.
- Software and documentation media which includes an information file (INF), Image Color Matching File (ICM), and product documentation.
- Dell Display Manager Software
- ENERGY STAR-compliant.
- Security lock slot.
- Asset Management Capability.
- EPEAT Silver compliant.
- CECP (for China).
- RoHS compliant.
- Energy Gauge shows the energy level being consumed by the monitor in real time.
- Analog backlight dimming control for flicker free display.

NOTE: Dell monitors are Energy Star certified in all regions except for the following: E1916HV, E1916HL and E2016HV in Asia Pacific, E2216HV in America/ Asia Pacific.

DELL registers products in the EPEAT environmental performance rating system. EPEAT registration varies by country. See <u>www.epeat.net</u> for registration status by country.

Identifying Parts and Controls

Front View



1	Function buttons (For more information, see Operating the Monitor)
2	Power On/Off button (with LED indicator)

Back View

E1916HV / E1916HL / E2016HV / E2016HL:





Back View with Monitor Stand

E2216HV / E2216HVM:





Back View with Monitor Stand

Label	Description	Use
1	VESA mounting holes (100 mm)	To mount the monitor.
2	Regulatory rating label	Lists the regulatory approvals.
3	Security lock slot	Secures monitor with security lock (security lock not included).
4	Barcode serial number label	Refer to this label if you need to contact
		Dell for technical support.
5	Cable management slot	Use to organize cables by placing them through the slot.

Side View



Right Side



Label	Description	Use
1	AC power connector	To connect the monitor power cable.
2	VGA connector	To connect your computer to the monitor using a VGA cable.
	Dell soundbar mounting slots	To attach the optional Dell Soundbar.

Monitor Specifications

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

Power Management Modes

If you have VESA's DPM 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 the computer detects input from keyboard, mouse, or other input devices, the monitor automatically resumes functioning. The following table shows the power consumption and signaling of this automatic power-saving feature:

E1916HV / E1916HL:

VESA Modes	Horizontal Sync	Vertical Sync	Video	Power Indicator	Power Consumption
Normal operation	Active	Active	Active	White	17 W (Maximum)**
					14 W (Typical)
Active-off mode	Inactive	Inactive	Blank	Glowing white	Less than 0.3 W
Switch off	-	-		Off	Less than 0.3 W *

Energy Star	Power Consumption
Pon	10 W***
Etec	33.2 kWh***

E2016HV:

VESA Modes	Horizontal Sync	Vertical Sync	Widoo		Power Consumption
Normal operation	Active	Active	Active	White	17 W (Maximum)**
					14 W (Typical)
Active-off mode	Inactive	Inactive	Blank	Glowing white	Less than 0.3 W

Switch off	-	-		Off	Less than 0.3 W *
Energy Star	ar Power Consumption]	
Pon	11.98 W***				
Etec	38.6 kWh***]	

E2016HL:

VESA Modes	Horizontal Sync	Vertical Sync	Video	Power Indicator	Power Consumption
Normal operation	Active	Active			19 W (Maximum)**
					15 W (Typical)
Active-off mode	Inactive	Inactive	Blank	Glowing white	Less than 0.3 W
Switch off	-	-		Off	Less than 0.3 W *
Energy Star	Power Consumption				
Pon	11.98 W***				

Etec	37.9 kWh***

E2216HV / E2216HVM:

VESA Modes	Horizontal Sync	Vertical Sync	Video	Power Indicator	Power Consumption
Normal operation	Active	Active	Active	White	24 W (Maximum)**
					18 W (Typical)
Active-off mode	Inactive	Inactive	Blank	Glowing white	Less than 0.3 W
Switch off	-	-		Off	Less than 0.3 W *

Energy Star	Power Consumption
Pon	15.5 W***
Etec	49.6 kWh***

🖉 NOTE:

 \mathbf{P}_{ON} : Power consumption of on mode as defined in Energy Star 7.0 version.

E_{TEC}: Total energy consumption in kWh as defined in Energy Star 7.0 version.

The OSD will only function in the *normal operation* mode. When any button except power button is pressed in Active-off mode, the following messages will be displayed:

Dell E1916HV / E1916HL / E2016HV / E2016HL / E2216HV

There is no signal coming from your computer.

Press any key on the keyboard or move the mouse to wake it up.

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

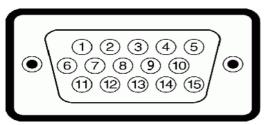
NOTE: Dell monitors are Energy Star certified in all regions except for the following: E1916HV, E1916HL and E2016HV in Asia Pacific, E2216HV in America/ Asia Pacific. DELL registers products in the EPEAT environmental performance rating system. EPEAT registration varies by country. See <u>www.epeat.net</u> for registration status by country.



- * Zero-power consumption in OFF mode can only be achieved by disconnecting the main cable from the monitor.
- ** Maximum power consumption with max luminance and contrast.
- *** 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.

Pin Assignments

15-pin D-Sub connector



Pin Number	Monitor Side of the 15-pin Side 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	DDC +5 V
10	GND-sync

11	GND
12	DDC data
13	H-sync
14	V-sync
15	DDC clock

Plug and Play Capability

You can install the monitor in any Plug and Play compatible system. The monitor automatically provides the computer with its Extended Display Identification Data (EDID) using Display Data Channel (DDC) protocols so that the system can configure itself and optimize the monitor settings. Most monitor installations are automatic. You can select different settings if required.

Flat-Panel Specifications

Model number	E1916HV / E1916HL	E2016HV
Screen type	Active matrix - TFT LCD	Active matrix - TFT LCD
Panel Type	TN	TN
Viewable image		
Diagonal	470.1 mm (18.51 inches)	494.1 <u>+</u> 0.02 mm (19.5 <u>+</u> 0.05 inches)
Horizontal Active Area	409.8 mm (16.13 inches)	432.0 ± 1.92 mm (17.0 ± 0.08 inches)
Vertical Active Area	230.4 mm (9.07 inches)	239.76 <u>+</u> 3.42 mm (9.44 <u>+</u> 0.13 inches)
Area	94417.92 mm² (146.35 inches²)	102552.65 <u>+</u> 1050 mm ² (158.84 <u>+</u> 1.56 inches ²)
Pixel pitch	0.30 x 0.30 mm	0.2712 ± 0.0012 x 0.2626 ± 0.0074 mm
Viewing angle:		
Horizontal	90° typical	90° typical
Vertical	65° typical	50° to 65° typical
Luminance output	200 cd/m² (typical)	200 cd/m² (typical)
Contrast ratio	600 to 1 (typical)	600 to 1 (typical)

Faceplate coating	Antiglare with hard-coating 3H	Antiglare with hard-coating 3H
Backlight	LED light bar system	LED light bar system
	5 ms typical (white to black, black to white)	5 ms typical (white to black, black to white)
Color Depth	16.7 mil colors	16.7 mil colors
Color Gamut	85 % (typical) **	85 % (typical) **
Model number	E2016HL	E2216HV / E2216HVM
Screen type	Active matrix - TFT LCD	Active matrix - TFT LCD
Panel Type	TN	TN
Viewable image		
Diagonal	494.1 <u>+</u> 0.02 mm (19.5 <u>+</u> 0.05 inches)	546.86 mm (21.53 inches)
Horizontal Active Area	432.0 ± 1.92 mm (17.0 ± 0.08 inches)	476.64 mm (18.77 inches)
Vertical Active Area	239.76 ± 3.42 mm (9.44 ± 0.13 inches)	268.11 mm (10.56 inches)
Area	102552.65 <u>+</u> 1050 mm² (158.84 <u>+</u> 1.56 inches²)	127791.95 mm² (198.21 inches²)
Pixel pitch	0.2712 ± 0.0012 x 0.2626 ± 0.0074 mm	0.248 x 0.248 mm
Viewing angle:		
Horizontal	170° typical	90° typical
Vertical	160° typical	50° to 65° typical
Luminance output	250 cd/m² (typical)	200 cd/m² (typical)
Contrast ratio	1000 to 1 (typical)	600 to 1 (typical)
Faceplate coating	Antiglare with hard- coating 3H	Antiglare with hard- coating 3H
Backlight	LED edgelight system	LED light bar system
Response Time	5 ms typical (white to black, black to white)	5 ms typical (white to black, black to white)
Color Depth	16.7 mil colors	16.7 mil colors
Color Gamut	86 % (typical) *	85 % (typical) **

** E1916HV / E1916HL / E2016HV / E2216HV / E2216HVM color gamut (typical) is based on CIE1976 (85 %) and CIE1931 (72 %) test standards. E2016HL color gamut (typical) is based on CIE1976 (86 %) and CIE1931 (72 %) test standards.

Resolution Specifications

Model	number	E1916HV / E1916HL	E2216HV / E2216HVM		
Scan rar	nge				
•	Horizontal	30 kHz to 83 kHz (aut	omatic)		
•	Vertical	56 Hz to 76 Hz (automatic)			
Maximu resolutio		1366 x 768 at 60 Hz 1600 x 900 at 60 Hz 1920 x 1080 at 60 H			

Electrical Specifications

Model number	E1916HV / E1916HL / E2016HV / E2016HL / E2216HV / E2216HVM
Video input signals	Analog RGB: 0.7 Volts \pm 5 %, 75 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 VAC to 240 VAC / 50 Hz or 60 Hz \pm 3 Hz / 1.0 A (typical)
Inrush current	120 V: 30 A (Max.)
	240 V: 60 A (Max.)

Preset Display Modes

The following table lists the preset modes for which Dell guarantees image size and centering:

E1916HV / E1916HL:

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal/ Vertical)
VESA, 720 x 400	31.5	70.1	28.3	-/+
VESA, 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, 1280 x 1024	80.0	75.0	135.0	+/+
VESA, 1366 x 768	47.7	59.8	85.5	+/+

E2016HV / E2016HL:

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal/ Vertical)
VESA, 720 x 400	31.5	70.1	28.3	-/+
VESA, 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 900	55.5	60.0	97.8	+/-

E2216HV / E2216HVM:

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal/ Vertical)
VESA, 720 x 400	31.5	70.1	28.3	-/+
VESA, 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 900	60.0	60.0	108.0	+/+
VESA, 1920 x 1080	67.5	60.0	148.5	+/+

Physical Characteristics

The following table lists the monitor's physical characteristics:

Model Number	E1916HV / E1916HL	E2016HV / E2016HL	E2216HV / E2216HVM
Connector type	15-pin D-subminiatu		•
Signal cable type	Analog: D-Sub, 15 pir	าร	
Dimensions:			
(with stand)	750.0	760.0	7067
Height	359.0 mm	368.9 mm	396.7 mm
	(14.13 inches) 445.4 mm	(14.52 inches) 471.5 mm	(15.62 inches) 512.2 mm
Width	-	-	
	(17.54 inches) 167.0 mm	(18.56 inches) 167.0 mm	(20.17 inches) 180.0 mm
Depth	(6.57 inches)	(6.57 inches)	(7.09 inches)
Dimensions:			
(without stand)			
Height	266.0 mm	275.4 mm	303.7 mm
	(10.47 inches)	(10.84 inches)	(11.96 inches)
Width	445.4 mm	471.5 mm	512.2 mm
	(17.54 inches)	(18.56 inches)	(20.17 inches)
Depth	51.5 mm	51.5 mm	50.5 mm
Stand dimensions:	(2.03 inches)	(2.03 inches)	(1.99 inches)
	156.0 mm	156.0 mm	177.0 mm
Height	(6.14 inches)	(6.14 inches)	(6.97 inches)
	220.0 mm	220.0 mm	250.0 mm
Width	(8.66 inches)	(8.66 inches)	(9.84 inches)
	167.0 mm	167.0 mm	180.0 mm
Depth	(6.57 inches)	(6.57 inches)	(7.09 inches)
Weight:			
Weight with	3.60 kg	3.65 kg	4.30 kg
packaging	(7.94 lb)	(8.05 lb)	(9.48 lb)
Weight with stand	3.0 kg	3.02 kg	3.63 kg
assembly and cables	(6.61 lb)	(6.66 lb)	(8.0 lb)
Weight without	2.26 kg	2.26 kg	2.83 kg
stand assembly (For wall mount	(4.98 lb)	(4.98 lb)	(6.24 lb)
or VESA mount			
considerations - no			
cables)			
Weight of stand	0.46 kg	0.46 kg	0.52 kg
assembly	(1.01 lb)	(1.01 lb)	(1.15 lb)

Environmental Characteristics

The following table lists the environmental conditions for your monitor:

Model I	Number	E1916HV / E1916HL / E2016HV	E2016HL	E2216HV / E2216HVM
Tempera	ature			
•	Operating	0 °C to 40 °C (32 °F	to 104 °F)	
•	Non-operating	Storage: -20 °C to 6 Shipping: -20 °C to (0 °C (-4 °F to 140 °F) 60 °C (-4 °F to 140 °F	
Humidity	y			
•	Operating	10 % to 80 % (non-c	ondensing)	
•	Non-operating	Storage: 5 % to 90 % Shipping: 5 % to 90 %		
Altitude				
•	Operating	5,000 m (16,404 ft) r	nax	
•	Non-operating	12,191 m (40,000 ft)	max	
Thermal	dissipation	58.0 BTU/hour (maximum) 47.8 BTU/hour	64.8 BTU/hour (maximum) 51.2 BTU/hour	81.9 BTU/hour (maximum) 68.3 BTU/hour
		(typical)	(typical)	(typical)

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. When the pixel remains permanently lit, it is known as a "bright dot." When the pixel remains black, it is known as a "dark dot."

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: http://www.dell.com/support/monitors.

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 power cable from the electrical outlet.

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

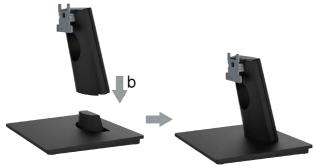
- To clean your antistatic screen, slightly dampen a soft, clean cloth with water. If possible, use a special screen-cleaning tissue or solution suitable for the antistatic coating. Do not use benzene, thinner, ammonia, abrasive cleaners, or compressed air
- Use a slightly dampened, warm cloth to clean the plastics. Avoid using detergent of any kind as some detergents leave a milky film on the plastics.
- 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.
- Handle your monitor with care as a darker-colored monitor may scratch 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 power off your monitor when not in use.

Setting Up the Monitor

Attaching the Stand

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

1. Assemble the stand riser to stand base.



- **a.** Place the monitor stand base on a stable table top.
- **b.** Slide the monitor stand body in the correct direction down onto the stand base until it clicks into place.
- 2. Attach the stand assembly to the monitor:



E1916HV/E1916HL/E2016HV/E2016HL

E2216HV/E2216HVM

- a. Place the monitor on a soft cloth or cushion near the edge of desk.
- **b.** Align the stand assembly bracket to the monitor groove.
- $\boldsymbol{c}.$ Insert the bracket towards monitor until it locks in place.

Connecting Your Monitor

MARNING: Before you begin any of the procedures in this section, follow the <u>Safety Instructions</u>.

To connect your monitor to the computer:

- **1.** Turn off your computer and disconnect the power cable.
- **2.** Connect VGA cable to the corresponding video port on the back of your computer.

Connecting VGA Cable



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

Organizing Your Cables



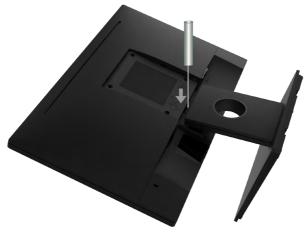
After attaching all necessary cables to your monitor and computer, (See Connecting Your Monitor for cable attachment), organize all cables as shown above.

Removing the Monitor Stand

- **NOTE** This is applicable for a monitor with a stand. When any other stand is bought, please refer to the respective stand setup guide for the removal instructions.
 - 1. Remove the VESA Cover.



- a. Place the monitor panel on a soft cloth or cushion.
- **b.** Lft from both side simultaneously, remove the VESA Cover away from the monitor.
- 2. Remove the stand assembly to the monitor.



- **a.** Use a long and thin screwdriver to push the release latch located in a hole just above the stand.
- **b.** Once the latch is released, remove the base away from the monitor.

Wall Mounting (Optional)



(Screw dimension: M4 x 10 mm). Refer to the instructions that come with the VESA-compatible base mounting kit.

- **1.** Place the monitor panel on a soft cloth or cushion on a stable flat table.
- **2.** Remove the stand.
- 3. Use a screwdriver to remove the four screws securing the plastic cover. (figure 2)
- 4. Attach the mounting bracket from the wall mounting kit to the LCD.
- **5.** Mount the LCD on the wall by following the instructions that came with the base mounting kit.

NOTE: For use only with UL-listed wall-mount bracket with minimum weight/load bearing capacity of 2.26 kg (E1916HV / E1916HL)/2.26kg (E2016HV / E2016HL)/2.83 kg (E2216HV / E2216HVM).

Operating the Monitor

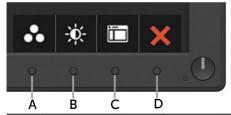
Power On the Monitor

Press the 🕘 button to turn on the monitor.



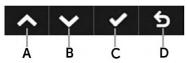
Using the Front-Panel Controls

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



Fron	t-Panel Keys	Description
A	Preset modes	Use the Preset modes key to choose from a list of preset color modes. See Using the OSD Menu .
В	Brightness /Contrast	Use the Brightness / Contrast key to direct access to the "Brightness" and "Contrast" control menu.
С) Menu	Use the Menu key to open the on-screen display (OSD).
D		Use the Exit key to exit on-screen display (OSD) from menu and sub-menus.

Front-Panel Keys



Front-	Panel Keys	Description
A	↓ Up	Use the Up key to adjust (increase ranges) items in the OSD menu.

В	V Down	Use the Down key to adjust (decrease ranges) items in the OSD menu.
С	ОК	Use the OK key to confirm your selection.
D	B ack	Use the Back key to go back to the previous menu.

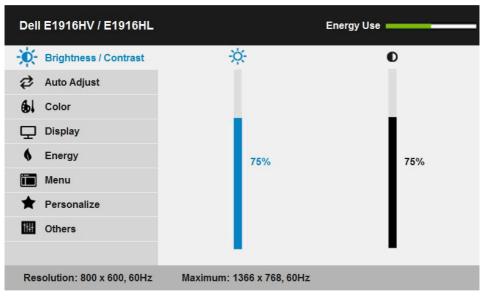
Using the On-Screen Display (OSD) Menu

Accessing the Menu System

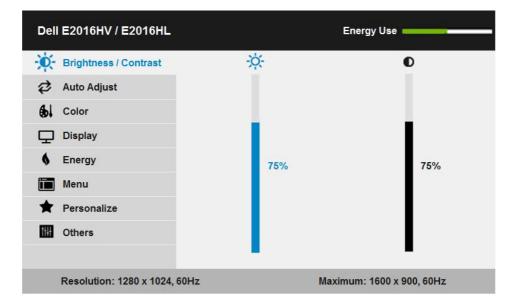
NOTE: If you change the settings and then either proceed to another menu or exit the OSD menu, the monitor automatically saves those changes. The changes are also saved if you change the settings and then wait for the OSD menu to disappear.

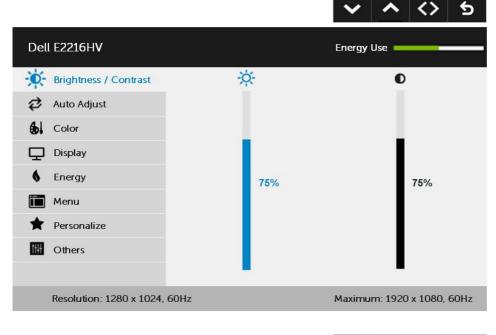
1. Press the ⁽¹⁾ button to open the OSD menu and display the main menu.

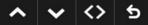






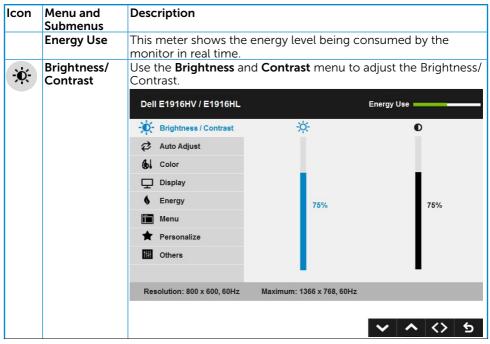




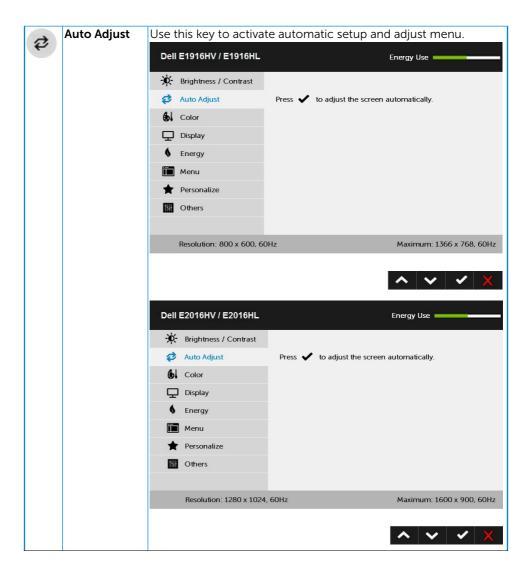


- 2. Press the [●] and [●] buttons to toggle between options in the Menu. As you move from one icon to another, the option name is highlighted.
- **3.** To select the highlighted item on the menu press the **•** button again.
- **4.** Press the \bigcirc and \bigcirc buttons to select the desired parameter.
- Press the button to enter the slide bar and then use the or buttons, according to the indicators on the menu, to make your changes.
- 6. Select the [●] to return to previous menu without accepting current settings or [●] to accept and return to previous menu.

The table below provides a list of all the OSD menu options and their functions.



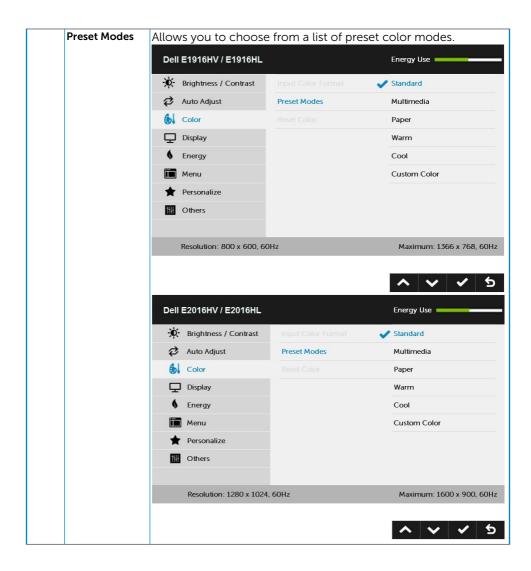
	Dell E2016HV / E2016HL	Er	nergy Use
		×.	Ø
	🔁 Auto Adjust		
	6 Color		
	Display		
	6 Energy	75%	75%
	iii Menu		
	★ Personalize		
	111 Others		
	Resolution: 1280 x 1024, 60Hz	Maximu	ım: 1600 x 900, 60Hz
			✓ ∧ <> 5
	Dell E2216HV	Er	nergy Use
	- Brightness / Contrast	×.	Ø
	nuto Adjust		
	Color		
	Display		
	6 Energy	75%	75%
	🛅 Menu		
	★ Personalize		
	Others		
	Resolution: 1280 x 1024, 60Hz	м	aximum: 1920 x 1080, 60Hz
			∧ ∨ < > 5
Brightness	Allows you to adjust the backlight.	brightness or lumina	nce of the
	Press the Akey to incread decrease brightness (mir		ress the 🔍 key to
Contrast	Allows you to adjust the between darkness and lig brightness first, and adju adjustment.	ghtness on the moni	tor screen. Adjust
	Press the A key to incred decrease contrast (min C		ss the 🛡 key to



Dell E	2216HV		Energy Use
- Ò - Bi	rightness / Contrast		
🤣 AI	uto Adjust	Press 🖌 to adjust the screen a	utomatically.
to to the second	Color		
D D	lisplay		
6 Ei	nergy		
Ш м	lenu		
🔶 🔶 Pi	ersonalize		
	thers		
Re	esolution: 1280 x 1024,	60Hz I	Maximum: 1920 x 1080, 60Hz
	llowing dialog Ijusts to the cu	appears on a black scre rrent input:	een as the monitor
	Auto Adjust	ment in Progress	
incom further	ing video signa r tune your mo	ws the monitor to self- l. After using Auto Adju nitor by using the Pixel under Display .	stment, you can
		pes not occur if you pre deo input signals or atta	

41	Color	Use the Color menu	ı to adjust the monitor'	s color settings.
84		Dell E1916HV / E1916HL	.	Energy Use
		Brightness / Contrast	Input Color Format	RGB
		🕫 Auto Adjust	Preset Modes	Standard
		Color	Reset Color	
		🖵 Display		
		S Energy		
		🛅 Menu		
		+ Personalize		
		Others		
		Resolution: 800 x 600,	60Hz	Maximum: 1366 x 768, 60Hz
				$\land \lor \checkmark \\$

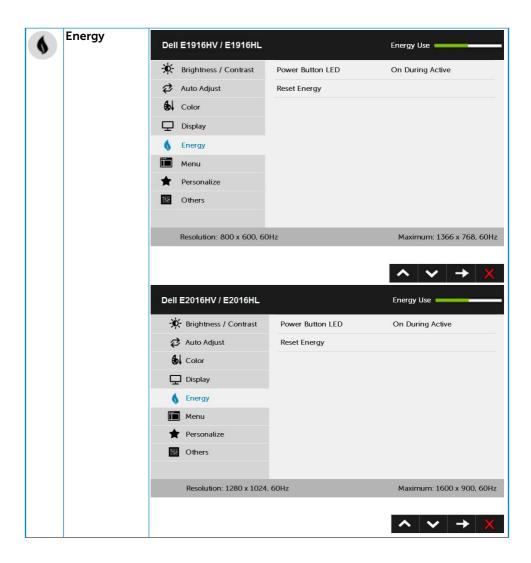
	Dell E2016HV / E2016HL		Energy Use
	🔆 Brightness / Contrast	Input Color Format	RGB
	🕫 Auto Adjust	Preset Modes	Standard
	Color	Reset Color	
	Display		
	6 Energy		
	🛅 Menu		
	+ Personalize		
	11 Others		
	Resolution: 1280 x 1024,	. 60Hz	Maximum: 1600 x 900, 60H
	Dell E2216HV		Energy Use
	Brightness / Contrast	Input Color Format	RGB
	🔁 Auto Adjust	Preset Modes	Standard
	Color	Reset Color	
	Display		
	6 Energy		
	🛅 Menu		
	🗙 Personalize		
	11 Others		
	Resolution: 1280 x 1024, 6	50Hz	Maximum: 1920 x 1080, 60Hz
			$\land \lor \rightarrow >$
nput Color ormat	Allows you to set the	video input mode t	o RGB or YPbPr



	Dell E2216HV		Energy Use
	🔆 Brightness / Contrast	Input Color Format	Standard
	🤣 Auto Adjust	Preset Modes	Multimedia
	6 Color		Paper
	Display		Warm
	6 Energy		Cool
	🛅 Menu		Custom Color
	★ Personalize		
	🚻 Others		
	Resolution: 1280 x 1024,	60Hz	Maximum: 1920 x 1080, 60Hz
	 This is the d Multimedia applications Paper: Load for viewing ¹ paper media RGB input fo Warm: Increa appears war Cool: Decrea appears cool Custom Col settings. Press 	Is brightness and shar text. Blend the text ba a without affecting co ormat only. eases the color tempe over with a red/yellow eases the color tempe over with a blue tint. Ior : Allows you to ma ess the and skeys Blue values and creat	ideal for multimedia rpness settings ideal ackground to simulate olor images. Applies to erature. The screen w tint. erature. The screen nually adjust the color s to adjust the Red,
Reset Color	Resets your monitor	-	e factory defaults.

	Display	Use the Display	/ menu to adjust the m	onitor's display settings.
Ŧ		Dell E1916HV / E1	1916HL	Energy Use
		Brightness / Co	ntrast Aspect Ratio	Wide 16:9
		🤣 Auto Adjust	Horizontal Position	50
		Color	Vertical Position	50
		Display	Sharpness	50
		S Energy	Pixel Clock	50
		🛅 Menu	Phase	50
		🔶 Personalize	Reset Display	
		11 Others		
		Resolution: 800	x 600, 60Hz	Maximum: 1366 x 768, 60Hz
				$\land \lor \rightarrow \times$
		Dell E2016HV / E2	016HL	Energy Use
		Brightness / C	ontrast Aspect Ratio	Wide 16:9
		🕫 Auto Adjust	Horizontal Position	50
		Color	Vertical Position	50
		Display	Sharpness	50
		6 Energy	Pixel Clock	50
		🛅 Menu	Phase	50
		🔶 Personalize	Reset Display	
		🔛 Others		
		Resolution: 12	80 x 1024, 60Hz	Maximum: 1600 x 900, 60Hz
				$\land \lor \rightarrow \times$

	Dell E2216HV		Energy Use
	- Brightness / Contrast	Aspect Ratio	Wide 16:9
	🔁 Auto Adjust	Horizontal Position	50
	Color	Vertical Position	50
	Display	Sharpness	50
	6 Energy	Pixel Clock	50
	🛅 Menu	Phase	50
	🔶 Personalize	Reset Display	
	Others		
	Resolution: 1280 x 1024	4, 60Hz	Maximum: 1920 x 1080, 60
			∧ ∨ →
Aspect Ratio	Adjusts the image ra	atio as Wide 16:9, 4	:3, or 5:4.
		66 x 768 (for E1916	5HV / E1916HL) or 1600 0 x 1080 (for E2216HV
Horizontal		tons to adjust imag	e left and right Minim
Horizontal Position			ge left and right. Minimu
	Use or or or the butt is '0' (-). Maximum is	s '100' (+). 	
Position	Use O or O the butt is '0' (-). Maximum is Use the O or O but is '0' (-). Maximum is	s '100' (+). ttons to adjust ima s '100' (+). ke the image look	ge left and right. Minimu ge up and down. Minim sharper or softer. Use (o '100'.
Position Vertical Position	Use O or O the butt is '0' (-). Maximum is ⁿ Use the O or O but is '0' (-). Maximum is This feature can mal or O to adjust the sh The Phase and Pixel	s '100' (+). ttons to adjust ima s '100' (+). ke the image look harpness from '0' t . Clock adjustment	ge up and down. Minim sharper or softer. Use 0 o '100'. s allow you to adjust yo
Position Vertical Position Sharpness	Use ● or ● the butt is '0' (-). Maximum is ⁿ Use the ● or ● but is '0' (-). Maximum is This feature can mal or ● to adjust the sh The Phase and Pixel monitor to your pre best image quality. If satisfactory results	s '100' (+). ttons to adjust ima s '100' (+). ke the image look harpness from '0' t . Clock adjustment ference. Use or s are not obtained Pixel Clock (coars	ge up and down. Minim sharper or softer. Use (o '100'. s allow you to adjust yo buttons to adjust for

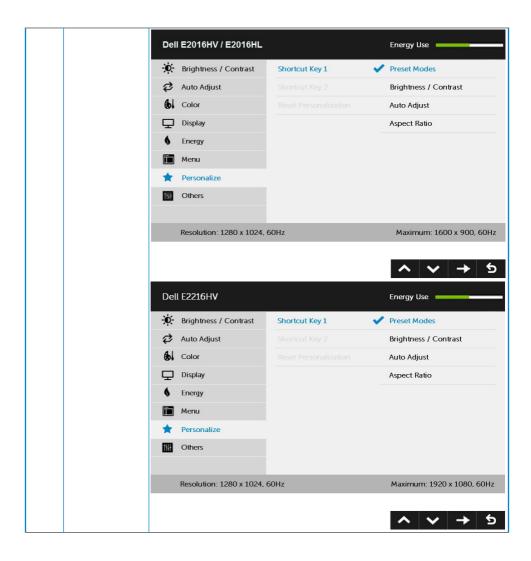


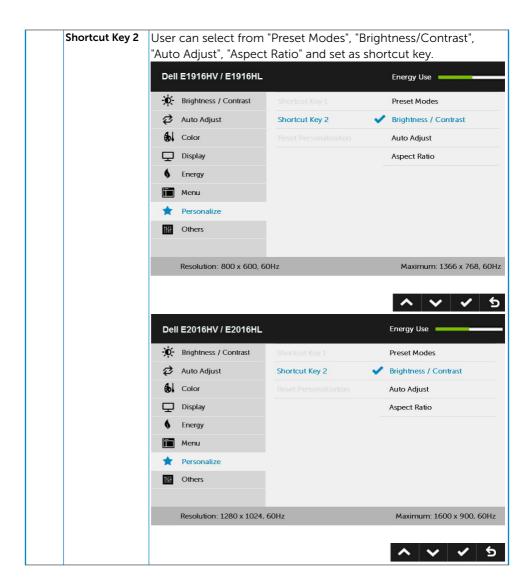
	Dell E2216HV		Energy Use
	- Brightness / Contrast	Power Button LED	On During Active
	🕫 Auto Adjust	Reset Energy	
	Color		
	Display		
	6 Energy		
	🛅 Menu		
	+ Personalize		
	1 Others		
	Resolution: 1280 x 1024	, 60Hz	Maximum: 1920 x 1080, 60Hz
			$\land \lor \rightarrow \times$
Power Button LED	Allows you to set the to save energy.	e power LED indicat	tor on or off during active
Reset Energy	Select this option to	restore default Ene	rgy settings.
Menu			of the OSD such as, the me the menu remains on
	Dell E1916HV / E1916HL		Energy Use
	- Brightness / Contrast	Language	English
	🤣 Auto Adjust	Transparency	20
	Color	Timer	20s
	Display	Lock	Unlock
	6 Energy	Reset Menu	
	🛅 Menu		
	+ Personalize		
	111 Others		
	Resolution: 800 x 600, e	50Hz	Maximum: 1366 x 768, 60Hz
			$\land \lor \rightarrow \times$

	Dell	E2016HV / E2016HL		Energy Use
	Đ.	Brightness / Contrast	Language	English
	₽	Auto Adjust	Transparency	20
	6.	Color	Timer	20s
	Ţ	Display	Lock	Unlock
	6	Energy	Reset Menu	
	i	Menu		
	*	Personalize		
	††‡†	Others		
		Resolution: 1280 x 1024	, 60Hz	Maximum: 1600 x 900, 60Hz
				∧ ∨ → <u>×</u>
	Dell	E2216HV		Energy Use
	÷.	Brightness / Contrast	Language	English
	\$	Auto Adjust	Transparency	20
	61	Color	Timer	20s
	모	Display	Lock	Unlock
	6	Energy	Reset Menu	
	Ē	Menu		
	*	Personalize		
		Others		
	I	Resolution: 1280 x 1024, (50Hz	Maximum: 1920 x 1080, 60Hz
				∧ ∨ → ×
Language	Englis	s you to set the sh, Spanish, Fren ified Chinese, oi	OSD display to one o ich, German, Brazilian r Japanese.	f eight languages: Portuguese, Russian,
Transparency		s you to adjust t barent.	he OSD background	from opaque to
Timer		s you to set the you press a key	time for which the O on the monitor.	SD remains active
	Use th		s to adjust the slider i	n 1 second

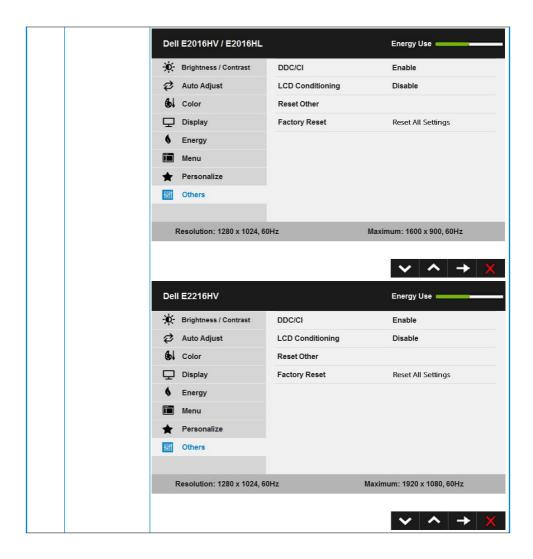
Lock				en Lock is selected, no e locked except 9 key.
	NOT you o selec	E: When the OS directly to the O cted on entry. Pro	D is locked, pressing SD settings menu, w	the menu key takes with 'OSD Lock' pre- for 6 seconds to unlock
Reset Menu			restore default menu	-
Personalize	Seleo	cting this option	allows you to set tw	o shortcut keys.
	Dell	I E1916HV / E1916HL		Energy Use
	÷.	Brightness / Contrast	Shortcut Key 1	Preset Modes
	₽	Auto Adjust	Shortcut Key 2	Brightness / Contrast
	61	Color	Reset Personalization	
	₽	Display		
	6	Energy		
		Menu		
	*	Personalize		
	††# †	Others		
		Resolution: 800 x 600, 6	OHz	Maximum: 1366 x 768, 60Hz
		Resolution: 800 x 600, 6	OHz	Maximum: 1366 x 768, 60Hz
	Dell	Resolution: 800 x 600, 6	OHz	Maximum: 1366 x 768, 60Hz ▲ ◆ → × Energy Use
			0Hz Shortcut Key 1	∧ ∨ → X
		E2016HV / E2016HL		► ► ► ►
	*	E2016HV / E2016HL Brightness / Contrast	Shortcut Key 1	▲ ↓ ★ Energy Use
	÷. ₽ €.	E2016HV / E2016HL Brightness / Contrast Auto Adjust	Shortcut Key 1 Shortcut Key 2	▲ ↓ ★ Energy Use
	÷. ₽ €.	E2016HV / E2016HL Brightness / Contrast Auto Adjust Color	Shortcut Key 1 Shortcut Key 2	▲ ↓ ★ Energy Use
	* \$ 6 -	E2016HV / E2016HL Brightness / Contrast Auto Adjust Color Display	Shortcut Key 1 Shortcut Key 2	▲ ↓ ★ Energy Use
	* \$ 6 -	E2016HV / E2016HL Brightness / Contrast Auto Adjust Color Display Energy	Shortcut Key 1 Shortcut Key 2	▲ ↓ ★ Energy Use
	* \$ 6 -	E2016HV / E2016HL Brightness / Contrast Auto Adjust Color Display Energy Menu	Shortcut Key 1 Shortcut Key 2	▲ ↓ ★ Energy Use
	÷	E2016HV / E2016HL Prightness / Contrast Auto Adjust Color Display Energy Menu Personalize	Shortcut Key 1 Shortcut Key 2 Reset Personalization	▲ ↓ ★ Energy Use
	÷	E2016HV / E2016HL Brightness / Contrast Auto Adjust Color Color Display Energy Menu Personalize Others	Shortcut Key 1 Shortcut Key 2 Reset Personalization	Energy Use Preset Modes Brightness / Contrast

	Dell E2216HV		Energy Use
	Brightness / Contrast	Shortout Kay 1	Preset Modes
	Auto Adjust	Shortcut Key 1	Brightness / Contrast
	Color	Shortcut Key 2 Reset Personalization	Brightness / Contrast
	Display		
	Energy		
	Menu		
	Personalize		
	Others		
	Resolution: 1280 x 1024	, 60Hz	Maximum: 1920 x 1080, 60H
Shortcut Key 1	User can select from	"Preset Modes" "Bi	$\sim \sim \rightarrow$
Shortcut Key 1	User can select from "Auto Adjust", "Aspec Dell E1916HV / E1916HL	t Ratio" and set as s	rightness/Contrast", hortcut key.
Shortcut Key 1	"Auto Adjust", "Aspec	t Ratio" and set as s	hortcut key.
Shortcut Key 1	"Auto Adjust", "Aspec Dell E1916HV / E1916HL	t Ratio" and set as s	hortcut key.
Shortcut Key 1	"Auto Adjust", "Aspec Dell E1916HV / E1916HL	t Ratio" and set as s	hortcut key. Energy Use
Shortcut Key 1	"Auto Adjust", "Aspec Dell E1916HV / E1916HL Brightness / Contrast Auto Adjust	tt Ratio" and set as s Shortcut Key 1 Shortcut Key 2	hortcut key. Energy Use Preset Modes Brightness / Contrast
Shortcut Key 1	"Auto Adjust", "Aspec Dell E1916HV / E1916HL Contrast Auto Adjust Color	tt Ratio" and set as s Shortcut Key 1 Shortcut Key 2	hortcut key. Energy Use Preset Modes Brightness / Contrast Auto Adjust
Shortcut Key 1	"Auto Adjust", "Aspect Dell E1916HV / E1916HL ↔ Brightness / Contrast ↔ Auto Adjust ⓑ Color Display	tt Ratio" and set as s Shortcut Key 1 Shortcut Key 2	hortcut key. Energy Use Preset Modes Brightness / Contrast Auto Adjust
Shortcut Key 1	"Auto Adjust", "Aspect Dell E1916HV / E1916HL * Brightness / Contrast 2 Auto Adjust 6 Color Display Energy	tt Ratio" and set as s Shortcut Key 1 Shortcut Key 2	hortcut key. Energy Use Preset Modes Brightness / Contrast Auto Adjust
Shortcut Key 1	"Auto Adjust", "Aspect Dell E1916HV / E1916HL * Brightness / Contrast 2 Auto Adjust 6 Color	tt Ratio" and set as s Shortcut Key 1 Shortcut Key 2	hortcut key. Energy Use Preset Modes Brightness / Contrast Auto Adjust





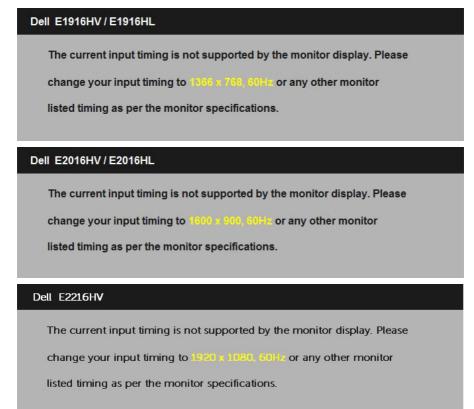
		Dell E2216HV		Energy Use
		Brightness / Co	ntrast Shortcut Key 1	Preset Modes
		🤣 Auto Adjust	Shortcut Key 2	✓ Brightness / Contrast
		Color		Auto Adjust
		Display		Aspect Ratio
		Energy		
		🛅 Menu		
		🔶 Personalize		
		🔛 Others		
		Resolution: 128	0 x 1024, 60Hz	Maximum: 1920 x 1080, 60Hz
				<u>∧</u> ∨ ✓ 5
	Reset Personaliza- 	Allows you to r	estore shortcut key	to the default setting.
	tion Others			1910 - 1920 F
111		Dell E1916HV / E ²	1916HL	Energy Use
		- Brightness / Cor	ntrast DDC/CI	Enable
		🔁 Auto Adjust	LCD Conditioning	Disable
		Color	Reset Other	
		Display	Factory Reset	Reset All Settings
		S Energy		
		🛅 Menu		
		+ Personalize		
		Hit Others		
		Resolution: 800	k 600, 60Hz	Maximum: 1366 x 768, 60Hz
				\sim \rightarrow \times



DDC/CI	DDC/CI (Display Data Channel/Command Interface) allows a software on your computer to adjust the monitor display settings like the brightness, color balance etc.		
	Enable (Default): Optimizes the performance of your monitor and provides a better customer experience.		
	Disable: Disables the DDC/CI option and the following message appears on the screen.		
	Dell E1916HV / E1916HL / E2016HV / E2016HL / E2216HV		
	The function of adjusting display setting using PC application will be disabled.		
	Do you wish to disable DDC/CI function?		
	NO		
	YES		
LCD Conditioning	This feature will help reduce minor cases of image retention.		
conditioning	If an image appears to be stuck on the monitor, select LCD Conditioning to help eliminate any image retention. Using		
	the LCD Conditioning feature may take some time. LCD Conditioning feature cannot remove severe cases of image retention or burn-in.		
	NOTE : Use LCD Conditioning only when you experience a problem with image retention.		
	The below warning message appears once user selects "Enable" LCD Conditioning.		
	Dell E1916HV / E1916HL / E2016HV / E2016HL / E2216HV		
	The feature will help reduce minor cases of image retention.		
	Depending on the degree of image retention, the program may take some time to run.		
	Do you wish to continue?		
	ΝΟ		
	YES		
Reset Other	Select this option to restore default other settings, such as DDC/CI.		
Factory Reset	Resets all OSD settings to the factory preset values.		

OSD Messages

When the monitor does not support a particular resolution mode you will see the following message:



This means that the monitor cannot synchronize with the signal that it is receiving from the computer. See <u>Monitor Specifications</u> for the horizontal and vertical frequency ranges addressable by this monitor. Recommended mode is 1366 x 768 (for E1916HV / E1916HL) or 1600 x 900 (for E2016HV / E2016HL) or 1920 x 1080 (for E2216HV / E2216HVM).

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

Dell E1916HV / E1916HL / E2016HV / E2016HL / E2216HV				
The function of adjusting display setting using PC application will be disabled.				
Do you wish to disable DDC/CI function?				
NO				
YES				

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

Dell E1916HV / E1916HL / E2016HV / E2016HL / E2216HV
Entering Power Save Mode.

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

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

Dell E1916HV / E1916HL / E2016HV / E2016HL / E2216HV
There is no signal coming from your computer.
Press any key on the keyboard or move the mouse to wake it up.

If VGA cable is not connected, a floating dialog box as shown below appears. The monitor will enter **Power Save Mode after 5 minutes** if left at this state.

Dell E1916HV / E1916HL / E2016HV / E2016HL / E2216HV
I No VGA Cable
The display will go into Power Save Mode in 5 minutes.
www.dell.com/support/monitors

See **Solving Problems** for more information.

Setting the Maximum Resolution

For optimal display performance while using the Microsoft Windows operating systems, set the display resolution to 1366 x 768 (for E1916HV / E1916HL) or 1600 x 900 (for E2016HV / E2016HL) or 1920 x 1080 (for E2216HV / E2216HVM) 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.
- Click the dropdown list of the screen resolution and select 1366 x 768 (for E1916HV / E1916HL) or 1600 x 900 (for E2016HV / E2016HL) or 1920 x 1080 (for E2216HV / E2216HVM).
- 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 1366 x 768 (for E1916HV / E1916HL) or 1600 x 900 (for E2016HV / E2016HL) or 1920 x 1080 (for E2216HV / E2216HVM).
- 4. Click Apply.

If you do not see 1366 x 768 (for E1916HV / E1916HL) or 1600 x 900 (for E2016HV / E2016HL) or 1920 x 1080 (for E2216HV / E2216HVM) 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

1: If you have a Dell desktop or a Dell portable computer with Internet access

2: If you have a non Dell desktop, portable computer, or graphics card

If you have a Dell desktop or a Dell portable computer with Internet access

- **1.** Go to http://www.dell.com/support, enter your service tag, and download the latest driver for your graphics
- 2. After installing the drivers for your graphics adapter, attempt to set the resolution to 1366 x 768 (for E1916HV / E1916HL) or 1600 x 900 (for E2016HV / E2016HL) or 1920 x 1080 (for E2216HV / E2216HVM) again.



WOTE: If you are unable to set the resolution to 1366 x 768 (for E1916HV / E1916HL) or 1600 x 900 (for E2016HV / E2016HL) or 1920 x 1080 (for E2216HV / E2216HVM), please contact Dell to inquire about a graphics adapter that supports these resolutions.

If you have a non Dell desktop, portable computer, or graphics card

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. Please refer to the graphics 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 1366 x 768 (for E1916HV / E1916HL) or 1600 x 900 (for E2016HV / E2016HL) or 1920 x 1080 (for E2216HV / E2216HVM) 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. Please refer to the graphics 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 1366 x 768 (for E1916HV / E1916HL) or 1600 x 900 (for E2016HV / E2016HL) or 1920 x 1080 (for E2216HV / E2216HVM) again.

NOTE: If you are unable to set the resolution to 1366 x 768 (for E1916HV / E1916HL) or 1600 x 900 (for E2016HV / E2016HL) or 1920 x 1080 (for E2216HV / E2216HVM), please contact the manufacturer of your computer or consider purchasing a graphics adapter that will support the video resolution of 1366 x 768 (for E1916HV / E1916HL) or 1600 x 900 (for E2016HV / E2016HL) or 1920 x 1080 (for E2216HV / E2216HVM) .

Using the Tilt

Tilt

Ű

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



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

Troubleshooting

MARNING: Before you begin any of the procedures in this section, follow the <u>Safety Instruction</u>

Self-Test

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

- 1. Turn off both your computer and the monitor.
- **2.** Unplug the video cable from the back of the computer. To ensure proper Self-Test operation, remove VGA cables from the back of computer.
- 3. Turn on the monitor.

The floating dialog box should appear on-screen (against a black background) if the monitor cannot sense a video signal and is working correctly. While in self-test mode, the power LED remains white. Also, depending upon the selected input, one of the dialogs shown below will continuously scroll through the screen.

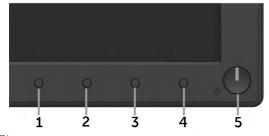
Dell E1916	HV / E1916HL / E2016HV / E2016HL / E2216HV
O	O No VGA Cable
The dis	play will go into Power Save Mode in 5 minutes.
	www.dell.com/support/monitors

- This box also appears during normal system operation, if the video cable becomes disconnected or damaged. The monitor will enter Power Save Mode after 5 minutes if left at this state.
- **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:

- **1.** Ensure that the screen is clean (no dust particles on the surface of the screen).
- 2. Unplug the video cable(s) from the back of the computer or monitor. The monitor then goes into the self-test mode.
- **3.** Press and hold the **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 the **Button 4** on the front panel again. The color of the screen changes to red.
- 6. Inspect the display for any abnormalities.
- **7.** Repeat steps 5 and 6 to inspect the display in green, blue, black, white screens.

The test is complete when the Text screen appears. To exit, press the **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.
		 Ensure that the correct input source is selected via the <u>Input Source</u> Select button.
		 Check the "Power LED Button" option under Energy in OSD Menu.
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.
		 Ensure that the correct input source is selected via the <u>Input Source</u> Select menu.
		Run the built-in diagnostics.
Poor Focus	Picture is fuzzy, blurry,	 Perform Auto Adjust via OSD.
	or ghosting	 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 (16:9).
Shaky/Jittery Video	Wavy picture or fine	 Perform Auto Adjust via OSD.
	movement	 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: <u>http://www.dell.com/support/</u> monitors.
Stuck-on Pixels	LCD screen has bright	Cycle power on-off.
	spots	 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: <u>http://www.dell.com/support/</u> monitors.
Prightness Drobloms	Picture too dim or too	
Brightness Problems	bright	 Reset the monitor to Factory Settings.
		• Auto Adjust via OSD.
		 Adjust brightness & contrast controls via OSD.
Geometric Distortion	Screen not centered correctly	 Reset the monitor to Factory Settings.
		• Auto Adjust via OSD.
		 Adjust brightness & contrast controls via OSD.
Horizontal/Vertical Lines	Screen has one or more lines	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.

Curabranization		Deast the menitor to Feetern :
Synchronization Problems	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 the safe mode.
Safety-Related Issues	Visible signs of smoke or sparks	 Do not perform any troubleshooting steps.
		 Contact Dell immediately.
Intermittent Problems	Monitor malfunctions on & off	 Ensure that the video cable connecting the monitor to the computer is connected properly and is secure.
		 Reset the monitor to Factory Settings.
		 Perform monitor self-test feature check to determine if the intermittent problem occurs in self-test mode.
Missing Color	Picture missing color	 Perform monitor self-test feature check.
		 Ensure that the video cable connecting the monitor to the computer is connected properly and is secure.
		 Check for bent or broken pins in the video cable connector.
Wrong Color	Picture color not good	 Change the Color Mode in the Color OSD to Graphics or Video depending on the application.
		• Try different Color Preset Settings in Color OSD. Adjust R/G/B value in Color OSD if the Color Management is turned off.
		• Change the Input Color Format to PC RGB or YPbPr in the Color OSD.

a static image left on	static image displayed appears on the screen	• Use the Power Management feature to turn off the monitor at all times when not in use (for more information, see <u>Power Management</u> <u>Modes</u> .
		 Alternatively, use a dynamically changing screensaver.

Product-Specific Problems

Specific Symptoms	What You Experience	Possible Solutions
Screen image is too small	Image is centered on screen, but does not fill entire viewing area	 Check the Aspect Ratio setting in the Display OSD. Reset the monitor to Factory Settings.
Cannot adjust the monitor with the buttons on the front	OSD does not appear on the screen	 Turn off the monitor, unplug the power cord, plug back, and then turn on the monitor.
panel		• Check whether the OSD menu is locked. If yes, press and hold the button beside the Power button for 10 seconds to unlock (for more information, see Lock).
No Input Signal when user controls are pressed	No picture, the LED light is white. When you press "up", "down" or "Menu" key, the message " No input signal" will appear.	 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.

Dell Soundbar Problems

Common Symptoms	What You Experience	Possible Solutions
No sound for system where the Soundbar draws power from an AC adapter	No power to Soundbar - the power indicator is off	• Turn the Power/Volume knob on the Soundbar clockwise to the middle position; check if the power indicator (white LED) on the front of the Soundbar is illuminated.
		 Confirm that the power cable from the Soundbar is plugged into the adapter.
No Sound	Soundbar has power - power indicator is on	 Plug the audio line-in cable into the computer's audio out jack.
		 Set all volume controls to their maximum and ensure that the mute option is not enabled.
		 Play some audio content on the computer (example, audio CD, or MP3).
		 Turn the Power/Volume knob on the Soundbar clockwise to a higher volume setting.
		 Clean and reseat the audio line-in plug.
		 Test the Soundbar using another audio source (For example: portable CD player, MP3 player).

	Computer's sound card is used as the	 Clear any obstructions between the Soundbar and the user.
		• Confirm that the audio line-in plug is completely inserted into the jack of the sound card.
		 Set all Windows volume controls to their midpoints.
		 Decrease the volume of the audio application.
		• Turn the Power/Volume knob on the Soundbar counter-clockwise to a lower volume setting.
		 Clean and re-seat the audio line-in plug.
		 Troubleshoot the computer's sound card.
		 Test the Soundbar using another audio source (For example: portable CD player, MP3 player).
		Avoid using an audio cable extension or audio jack converter.
Distorted Sound	Other audio source is used	Clear any obstructions between the Soundbar and the user.
		• Confirm that the audio line-in plug is completely inserted into the jack of the audio source.
		 Decrease the volume of the audio source.
		• Turn the Power/Volume knob on the Soundbar counter-clockwise to a lower volume setting.
		 Clean and reseat the audio line-in plug.
Unbalanced Sound Output	Sound from only one side of Soundbar	 Clear any obstructions between the Soundbar and the user.
		• Confirm that the audio line-in plug is completely inserted into the jack of the sound card or audio source.
		 Set all Windows audio balance controls (L-R) to their midpoints.
		 Clean and reseat the audio line-in plug.
		 Troubleshoot the computer's sound card.
		 Test the Soundbar using another audio source (For example: portable CD player, MP3 player).

Low Volume	Volume is too low	Clear any obstructions between the Soundbar and the user.
		 Turn the Power/Volume knob on the Soundbar clockwise to the maximum volume setting.
		 Set all Windows volume controls to their maximum.
		 Increase the volume of the audio application.
		 Test the Soundbar using another audio source (For example: portable CD player, MP3 player)

Appendix

Safety Instructions

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

For information on safety instructions, see the Product Information Guide.

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

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

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

Contact Dell

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

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

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services

may not be available in your area.

To get online monitor support content:

1. Visit www.dell.com/support/monitors

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

- 1. Visit <u>www.dell.com/support</u>.
- 2. Verify your country or region in the **Choose A Country/Region** drop-down menu at the top left of the page.
- 3. Click **Contact Us** on the top 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.