User's Guide Dell E2214H Dell E2314H

Model No.: E2214H / E2314H Regulatory model: E2214Hb / E2314Hf



- NOTE: A NOTE indicates important information that helps you make better use of your monitor.
- △ 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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Dell Display Manager User's Guide

Overview

Dell Display Manager is a Windows application used to manage a monitor or a group of monitors. It allows manual adjustment of the displayed image, assignment of automatic settings, energy management, image rotation and other features on select Dell models. Once installed, Dell Display Manager will run each time the system starts and will place its icon in the notification tray. Information about monitors connected to the system is always available when hovering over the notification tray icon.



Using the Quick Settings Dialog

Clicking Dell Display Manager's notification tray icon opens the Quick Settings dialog box. When more than one supported Dell model is connected to the system, a specific target monitor can be selected using the menu provided. The Quick Settings dialog box allows convenient adjustment of the monitor's Brightness and Contrast levels, Preset Modes can be manually selected or set to Auto Mode, and the screen resolution can be changed.

Display: Resolution:	Dell E2314H 1920x1080	<u>Change</u>
 Auto Mode Manual Mode 	Standard	Configure
Brightness:		75%
Contrast:	· · · · · · · · · · · · ·	75%
	Open Dell Display Manager	

The Quick Settings dialog box also provides access to Dell Display Manager's advanced user interface which is used to adjust Basic functions, configure Auto Mode and access other features.

Setting Basic Display Functions

A Preset Mode for the selected monitor can be manually applied using the menu on the Basic tab. Alternatively, Auto Mode can be enabled. Auto Mode causes your preferred Preset Mode to be applied automatically when specific applications are active. An onscreen message momentarily displays the current Preset Mode whenever it changes.

The selected monitor's Brightness and Contrast can also be directly adjusted from the Basic tab.

				×
Dell Display Mar	nager			Dell E2314H
Basic	Auto Mode	PowerNap		Û
Resolution:	1920×1080			Change
Auto Mode	:		Configure	
Ose preset mode	assignments for active appli	cations		
Choose a preset r	mode:		Standard	~
Brightness:	Ţ	75%		
Contrast:	Ţ.,	75%		

Assigning Preset Modes to Applications

The Auto Mode tab allows you to associate a specific Preset Mode with a specific application, and apply it automatically. When Auto Mode is enabled, Dell Display Manager will automatically switch to the corresponding Preset Mode whenever the associated application is activated. The Preset Mode assigned to a particular application may be the same on each connected monitor, or it can vary from one monitor to the next. Dell Display Manager is pre-configured for many popular applications. To add a new application to the assignment list, simply drag the application from the desktop, Windows Start Menu or elsewhere, and drop it onto the current list.



NOTE: Preset Mode assignments targeting batch files, scripts, and loaders, as well as non-executable files such as zip archives or packed files, are not supported and will be ineffective.

Basic	Auto Mode	PowerNap		
ssign a preset mod	e to a specific application.	To add an application, drag it l	to the list:	
Application		Preset Mode		
🚣 Adobe Reader	8.0	Standard	👻 F	lemove
🏉 Internet Explo	rer	Multimedia	*	
📧 Microsoft Offi	te Excel	Standard	*	
🥝 Microsoft Offi	ce Outlook	Standard	*	
🔞 Microsoft Offi	ce PowerPoint	Multimedia	*	
🔟 Microsoft Offi	ce Word	Standard	*	

Applying Energy-Conservation Features

On supported Dell models, the PowerNap tab will be available to provide energy conservation options. When the screensaver activates, the monitor's Brightness can automatically be set to minimum level or the monitor can be put to sleep in order to save additional power.

			×
Dell Display Mar	ager		Dell E2314H
Basic	Auto Mode	PowerNap	0
PowerNap option:	5:		
💿 Reduce bright	ness when screensaver ac	tivates	
🔘 Put the display	/ to sleep when screensav	er activates	

About Your Monitor

Package Contents

Your monitor ships with all the components shown below. Ensure that you have received all the components and **Contact Dell** 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.

Pell	• Monitor
	• Stand Riser
	Stand Base
	• VESA [™] Screw Cover
	Power Cable (varies with countries)
	• VGA Cable
	• DVI Cable
	 Drivers and Documentation media Quick Setup Guide Product and Safety Information Guide

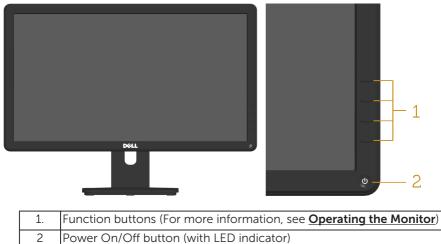
Product Features

The Dell E2214H / E2314H flat-panel display has an active matrix, Thin-Film Transistor, Liquid Crystal Display. The monitor's features include:

- **E2214H**: 54.6cm (21.5 inches) diagonal viewable image size, 1920 x 1080 resolution, plus full-screen support for lower resolutions.
- **E2314H**: 58.4 cm (23.0 inches) diagonal viewable image size, 1920 x 1080 resolution, plus full-screen support for lower resolutions.
- LED backlit.
- 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 Gold compliant.
- CECP (for China).
- RoHS compliant.
- TCO Certified Displays.

Identifying Parts and Controls

Front View



Back View

	Déll
1 —	
2	
z	
4	
5	

Label	Description	Use
1	VESA mounting holes (100 mm)	To mount the monitor.
2	Regulatory rating label	Lists the regulatory approvals.
3	Regulatory rating label	Lists the regulatory approvals.
4	Security lock slot	Secures monitor with security lock (security lock not included).
5	Dell soundbar mounting slots	To attach the optional Dell Soundbar.

Side View



Bottom View

	 1	 2 3
Label	Description	Use
1	AC power connector	To connect the monitor power cable.
2	DV/L connector	To connect your computer to the monitor using

	2	DVI connector	To connect your computer to the monitor using
			a DVI cable.
Γ	3	VGA connector	To connect your computer to the monitor using
			a VGA cable.

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:

E2214H

VESA Modes	Horizontal Sync	Vertical Sync	Video	Power Indicator	Power Consumption
Normal operation	Active	Active	Active		30 W (Maximum)** 19 W (Typical)
Active-off mode	Inactive	Inactive	Blank	Glowing white	Less than 0.5 W
Switch off	-	-		Off	Less than 0.5 W *

E2314H

VESA Modes	Horizontal		Video	Power	Power
	Sync	Sync		Indicator	Consumption
Normal operation	Active	Active	Active	White	30 W (Maximum)**
					22 W (Typical)
Active-off mode	Inactive	Inactive	Blank	Glowing	Less than 0.5 W
				white	
Switch off	-	-		Off	Less than 0.5 W *

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 E2214H / E2314H

There is no signal coming from your computer. Press any key on the

keyboard or move the mouse to wake it up. If there is no display, press

the monitor button now to select the correct input source on the

On-Screen-Display menu.

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

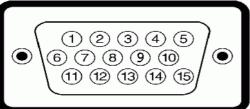
NOTE: The Dell E2214H / E2314H monitor is ENERGY STAR®-compliant.



- * 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.

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

DVI Connector

	12345678		
$ \odot$	9 10 11 12 13 14 15 16		$oldsymbol{\Theta}$
	17 18 19 20 21 22 23 24	J	

Pin Number	24-pin Side of the Connected Signal Cable
1	TMDS RX2-
2	TMDS RX2+
3	TMDS Ground
4	Floating
5	Floating
6	DDC Clock
7	DDC Data
8	Floating
9	TMDS RX1-
10	TMDS RX1+
11	TMDS Ground
12	Floating
13	Floating
14	+5 V power
15	Self test
16	Hot Plug Detect
17	TMDS RX0-
18	TMDS RX0+
19	TMDS Ground
20	Floating
21	Floating
22	TMDS Ground
23	TMDS Clock+
24	TMDS Clock-

Plug and Play Capability

You can install the monitor in any Plug and Play compatible system. The monitor automatically provides the computer 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.

Model number	Dell E2214H monitor	Dell E2314H monitor
Screen type	Active matrix - TFT LCD	Active matrix - TFT LCD
Panel Type	TN	TN
Viewable image		
Diagonal	546.0 mm (21.5 inches)	584.2 mm (23.0 inches)
Horizontal Active Area	476.64 mm (18.77 inches)	509.76 mm (20.07 inches)
Vertical Active Area	268.11 mm (10.56 inches)	286.74 mm (11.29 inches)
Area	127791.95 mm ² (198.08 inch ²)	146168.58 mm ² (226.56 inch ²)
Pixel pitch	0.248 mm	0.265 mm
Viewing angle:		
Horizontal	170° typical	170° typical
Vertical	160° typical	160° typical
Luminance output	250 cd/m² (typical)	250 cd/m ² (typical)
Contrast ratio	1000 to 1 (typical)	1000 to 1 (typical)
Faceplate coating	Antiglare with hard-coating 3H	Antiglare with hard-coating 3H
Backlight	LED light bar system	LED light bar system
Response Time	5 ms typical (black to white)	5 ms typical (black to white)
Color Depth	16.7 mil colors	16.7 mil colors
Color Gamut	84 % (typical) **	83 % (typical) **

Flat-Panel Specifications

- ** [E2214H] color gamut (typical) is based on CIE1976 (84 %) and CIE1931 (72 %) test standards.
- ** [E2314H] color gamut (typical) is based on CIE1976 (83 %) and CIE1931 (72 %) test standards.

Resolution Specifications

Model number	Dell E2214H/E2314H monitor
Scan range	
Horizontal	30 kHz to 83 kHz (automatic)
• Vertical	56 Hz to 76 Hz (automatic)
Maximum preset	1920 x 1080 at 60 Hz
resolution	

Electrical Specifications

Model number	Dell E2214H/E2314H monitor	
Video input signals	Analog RGB: 0.7 Volts \pm 5 %, 75 ohm input impedance	
	Digital DVI-D TMDS, 600 mV for each differential line,	
	positive polarity at 50 ohm input impedance	
Synchronization input	Separate horizontal and vertical synchronizations,	
signals	polarity-free TTL level, SOG (Composite SYNC on	
	green)	
AC input voltage /	100 VAC to 240 VAC / 50 Hz or 60 Hz ± 3 Hz / 1.5 A	
frequency / current	(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:

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	+/-
VESA, 1920 x 1080	67.5	60.0	148.5	+/+

Physical Characteristics

The following table lists the monitor's physical characteristics:

Model Number	Dell E2214H monitor	Dell E2314H monitor
Connector type	D-subminiature, blue connector;	D-subminiature, blue connector;
	DVI-D: white connector	DVI-D: white connector
Signal cable type	D-sub: Detachable, Analog, 15-pin.	D-sub: Detachable, Analog, 15-pin.
	DVI-D: Detachable, DVI-D,	DVI-D: Detachable, DVI-D,
	Solid pins	Solid pins
Dimensions: (with stand)		
Height	396.7 mm (15.62 inches)	405.4 mm (15.96 inches)
Width	513.2 mm (20.20 inches)	546.2 mm (21.50 inches)
Depth	165.5 mm (6.52 inches)	165.5 mm (6.52 inches)
Dimensions: (without stand)		
Height	304.7 mm (12.00 inches)	323.4 mm (12.73 inches)
Width	513.2 mm (20.20 inches)	546.2 mm (21.50 inches)
Depth	46.3 mm (1.82 inches)	46.5 mm (1.83 inches)
Stand dimensions:		
Height	172.2 mm (6.78 inches)	172.2 mm (6.78 inches)
• Width	180.6 mm (7.11 inches)	180.6 mm (7.11 inches)
• Depth	165.5 mm (6.52 inches)	165.5 mm (6.52 inches)
Weight:		
Weight with packaging	5.20 kg (11.44 lb)	5.50 kg (12.10 lb)
Weight with stand assembly and cables	3.80 kg (8.36 lb)	4.22 kg (9.28 lb)

Weight without	2.70 kg (5.94 lb)	3.13 kg (6.89 lb)
stand assembly (For		
wall mount or VESA		
mount considerations		
- no cables)		
Weight of stand	0.70 kg (1.54 lb)	0.70 kg (1.54 lb)
assembly		

Environmental Characteristics

The following table lists the environmental conditions for your monitor:

Model Number	Dell E2214H monitor	Dell E2314H monitor		
Temperature		1		
Operating	0 °C to 40 °C (32 °F to 104 °F)			
Non-operating	Storage: -20 °C to 60 °C (-4 °F to 140 °F)			
	Shipping: -20 °C to 60 °C	Shipping: -20 °C to 60 °C (-4 °F to 140 °F)		
Humidity				
Operating	10 % to 80 % (non-condensing)			
Non-operating	Storage: 5 % to 90 % (non-condensing)			
	Shipping: 5 % to 90 % (non-condensing)			
Altitude				
Operating	5,000 m (16,404 ft) max			
Non-operating	12,191 m (40,000 ft) max			
Thermal dissipation	102.3 BTU/hour	102.3 BTU/hour		
	(maximum)	(maximum)		
	64.8 BTU/hour (typical)	75.1 BTU/hour (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.



\wedge 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 guality on your monitor, use a dynamically changing screen saver and power off your monitor when not in use.

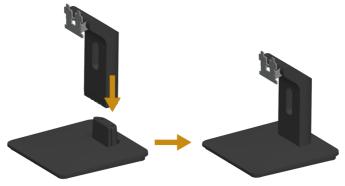
Setting Up the Monitor

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:



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

Connecting the blue VGA Cable



Connecting the white DVI 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



After placing the monitor panel on a soft cloth or cushion, complete the following steps to remove the base:

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

Wall Mounting (Optional)

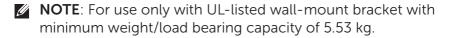


figure 2

(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. Remove the VESA Screw Cover (figure 1)
- **4.** Use a screwdriver to remove the four screws securing the plastic cover. (figure 2)
- **5.** Attach the mounting bracket from the wall mounting kit to the LCD.
- **6.** Mount the LCD on the wall by following the instructions that came with the base mounting kit.

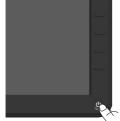




Operating the Monitor

Power On the Monitor

Press the low 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.



Front-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	Exit	Use the Exit key to exit on-screen display (OSD) from menu and sub-menus.		

Front-Panel Keys



Front-Panel Keys		Description			
A A		Use the Up key to adjust (increase ranges) items in the OSD menu.			
В	Down	Use the Down key to adjust (decrease ranges) items in the OSD menu.			
С	ок 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 D button to open the OSD menu and display the main menu.

Main Menu

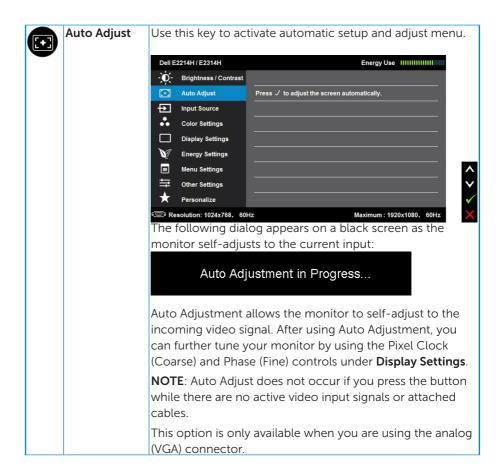
Dell E	2214H / E2314H				Energy L	Jse		
- O -	Brightness / Contrast		-jój			0		
(+)	Auto Adjust			r			1	
Ð	Input Source							
•••	Color Settings							
	Display Settings			75			75	
V	Energy Settings							
	Menu Settings							/
ŧ	Other Settings							
*	Personalize							-
🐵 Re	solution: 1024x768, 60	Hz			Maximum :	192	0x1080, 60Hz	2

NOTE: Auto Adjust is only available when you use the analog (VGA) connector.

- 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 **and 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 ᠑ 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.

lcon	Menu and	Description						
	Submenus							
	Energy Use	This meter shows monitor in real times		y level I	being co	nsumed b	y the	
	Brightness/	Use the Brightne	Use the Brightness and Contrast menu to adjust the					
	Contrast	-	Brightness/Contrast.					
		Dell E2214H / E2314H			Energy U	se !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!		
		- Brightness / Contrast	-ờ,-			D		
		E+ Auto Adjust						
		→ Input Source						
		Color Settings						
		Display Settings		75		75		
		Energy Settings						
		Menu Settings Other Settings						
		→ Other settings	_				L →	
		Resolution: 1024x768, 66	0Hz		Maximum :	1920x1080, 60Hz	×	
	Brightness	Allows you to adj backlight.	ust the brig	ghtness	or lumir	nance of tl	ne	
		Press the 🙆 key t	o increase	briahtn	ess and	press the		
		key to decrease brightness (min 0 ~ max 100).						
	Contrast	Allows you to adjust the contrast or the degree of						
		difference betwe	en darknes	s and li	ghtness	on the mo	nitor	
		screen. Adjust bri	ightness firs	st, and a	adjust co	ontrast onl	y if	
		you need further	adjustmen	t.	2		-	
		Press the 🔷 key	to increase	contra	st and pi	ress the 🔍	key	
		to decrease cont	rast (min 0	~ max	100).		-	



	Input Source	Use	the Input Sou	irce menu to	select	between diffe	rent		
Y		vide	o signals that	may be conn	ected t	o your monito	or.		
		Dell	E2214H / E2314H			Energy Use IIIIIIIIIIIII	0000		
		Đ.	Brightness / Contrast	🗸 Auto Select					
		•	Auto Adjust	VGA 📼					
		₽	Input Source	DVI - D 🚥					
		••	Color Settings						
			Display Settings						
		V	Energy Settings						
			Menu Settings				^		
		. ∰	Other Settings				$\mathbf{\vee}$		
		*	Personalize				→		
		@ Re	esolution: 1024x768, 60H	Hz	M	aximum : 1920x1080, 60H	Iz 🗙		
	Auto Select	Sele	ct Auto Selec	t to scan for a	availabl	e input signals	š.		
	VGA	Select VGA input when you are using the analog (VG. connector. Push ● to select the VGA input source.							
	DVI-D					g the Digital ([OVI)		
				to select the					
	Color	Use the Color Settings menu to adjust the monitor's color							
Ψ	Settings	setti	ngs.				_		
	-		E2214H / E2314H			Energy Use	000		
		- O -	Brightness / Contrast	Input Color Format	•	RGB			
		(Auto Adjust	Preset Modes	•	Standard			
		Ð	Input Source	Image Enhance	•	Off			
		••	Color Settings	Reset Color Settings					
			Display Settings						
		V	Energy Settings						
			Menu Settings				^		
		草	Other Settings						
		X	Personalize						
			esolution: 1024x768, 60			aximum : 1920x1080, 60F	łz 🗙		
	Input Color	Allo		the video inpu					
	Format			ect this option					
					uter or	DVD player us	sing the		
				DVI adapter.	onify	our DVD playe	r		
				only YPbPr o	5		I.		
			SUDDOILS		ulbul.				

Preset Modes	Auto Adjust Input Source	put Color Format	Standard Multimedia Game Text
	■ Menu Settings ➡ Other Settings ★ Personalize ■ Resolution: 1024x768, 60Hz • Standard:	Loads the monito	Warm Cool Custom Color Maximum : 1920x1080, 60Hz Dr's default color
	settings. Th Multimedia multimedia Movie: Loa Game: Loa application Text: Loads for viewing Warm: Incl screen app Cool: Decr screen app Custom Co color settir the Red, Ga	his is the default p a: Loads color se a applications. Ids color settings ds color settings is. brightness and texts. reases the color t reases the color t	preset mode. ttings ideal for ideal for movies. ideal for most gaming sharpness settings ideal temperature. The h a red/yellow tint. cemperature. The
Hue	or purple. This is use Use [©] or [©] to adjus Press [©] to increase video image.	ed to adjust the c st the hue from '(the monochrom the colorful appo djustment is avail	ne appearance of the earance of the video

Saturation	This feature can adjust the color saturation of the video image. Use \odot or \odot to adjust the saturation from '0' to '100'.
	Press 🛇 to increase the monochrome appearance of the video image.
	Press 🛇 to increase the colorful appearance of the video image.
	NOTE: Saturation adjustment is available only when you select Movie or Game preset mode.
Image Enhance	Automatically sharpen images, enhance hues, boost color contrast and enhance image clarity.
	NOTE: Image Enhance is available only when you select Standard, Multimedia, Movie, or Game preset mode.
Reset Color Settings	Resets your monitor's color settings to the factory defaults.

Display	Use the Displays	Use the Displays Settings menu to adjust the monitor's				
Settings	display settings.					
	Dell E2214H / E2314H			Energy Use		
	- Brightness / Contrast	Aspect Ratio	•	Wide 16:9		
	💽 Auto Adjust	Horizontal Position	►	50		
	Input Source	Vertical Position	►	50		
	Color Settings	Sharpness	•	50		
	Display Settings	Pixel Clock	►	50		
	M Energy Settings	Phase	•	50		
	🔳 Menu Settings	Reset Display Settings		^		
	Other Settings			∨		
	★ Personalize			-		
	Resolution: 1024x768, 60	Hz	N	laximum : 1920x1080, 60Hz 🗙		
Aspect Ratio	Adjusts the image	e ratio as Wide	16:9, 4	4:3, or 5:4.		
	NOTE: Wide 16:9	adiustment is	not re	guired at maximum		
	preset resolution	,				
Horizontal	Use • or • the buttons to adjust image left and right.					
Position	Minimum is '0' (-). Maximum is '100' (+).					
Vertical Positio						
	Use the 🖤 or 🖤	,		age up and down.		
Charman	Minimum is '0' (-)					
Sharpness				sharper or softer. Us		
Pixel Clock	or ♥ to adjust			<u>u to 100.</u> ts allow you to adjust		
FIXER CLOCK				or v buttons to		
			e. Use			
Phase	adjust for best im If satisfactory res		bond	using the Phase		
Thase				0		
	adjustment, use the Pixel Clock (coarse) adjustment and					
		then use Phase (fine), again.				
		k and Phase ac	djustm	ent are only available		
	for VGA input.					
Reset Display	Select this option	Select this option to restore default display settings.				
Settings						

Energy	Dell E2214H / E2314H Energy Use IIIIIIIIIIII			
Settings	- D- Brightness / Contrast Power Button LED VOn During Active			
	Auto Adjust Reset Energy Settings Off During Active			
	Input Source			
	Color Settings			
	Display Settings			
	V Energy Settings			
	E Menu Settings	^		
	+ Other Settings	Y		
	★ Personalize	\checkmark		
	C Resolution: 1024x768, 60Hz Maximum : 1920x1080, 60Hz	Ð		
Power Button	Allows you to set the power LED indicator on or off duri	ng		
LED	active to save energy.			
Reset Energy	Select this option to restore default Energy Settings.			
Settings				

eetting		-	-	-	s of the OSD sı t of time the m
				amoun	
		remains on screen, and so on.			
	-Ò-				Energy Use
		Auto Adjust	Language	<u> </u>	English 20
		Input Source	Transparency Timer		
		Color Settings	Lock		Unlock
		Display Settings	Reset Menu Settings		
	V	Energy Settings			
		Menu Settings			
	1 1 1	Other Settings			
	\star	Personalize			
	@ R	esolution: 1024x768, 60	Hz	м	aximum : 1920x1080, 60Hz
Language	Alloy	ws you to set	the OSD disr	play to c	one of eight
					ierman, Brazilia
		0			se, or Japanese
Transparency					und from opac
	tran	sparent.			
Timer	Allov	ws you to set	the time for	which tl	ne OSD remain
	activ	ve after you p	ress a key on	the mo	nitor.
	Use	the 🙆 and 💟	keys to adjus	st the sli	der in 1 second
		ements, from	,		
Lock		trols user acc			When Lock is
	sele	cted, no user	adjustments	are allo	wed. All keys a
	lock	ed except 🗩	key.		
		NOTE: When the OSD is locked, pressing the menu key			
	takes you directly to the OSD settings menu, with 'OSD				
		Lock' pre-selected on entry. Press and hold 9 key for 10			
					ess to all applic
	setti				
Reset Menu		ct this option	to restore de	efault m	enu settings.
	1				2

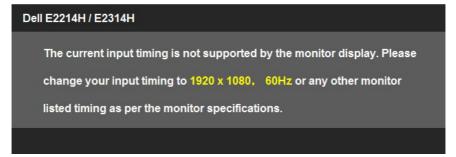
8	Other Settings	the la	anguages of t			s of the OSD, such as, t of time the menu
			2214H / E2314H			Energy Use IIIIIIIIIIIIIIIIIIIIIIII
		-O-	Brightness / Contrast	DDC/CI	►	Enable
		Œ	Auto Adjust	LCD Conditioning	•	Disable
		Ð	Input Source	Reset Other Settings		
			Color Settings	Factory Reset		Reset All Settings
			Display Settings			
		V	Energy Settings			
			Menu Settings			^
		華	Other Settings			¥
		*	Personalize			
		@ Re	esolution: 1024x768, 60	Hz	М	aximum : 1920x1080, 60Hz 🗙
	DDC/CI	DDC/CI (Display Data Channel/Command Interface) allows				
			-		-	t the monitor display
		settir	ngs like the b	rightness, color I	oalaı	nce etc.
		Enab	ole (Default): (Optimizes the pe	erfor	mance of your
		mon	itor and prov	ides a better cus	tom	er experience.
		Disal	ole: Disables	the DDC/CI opti	on a	nd the following
				on the screen.		5
		Dell E2214H / E2314H				
		1	The function of adju	usting display setting us	sing P	C application will be
		c	lisabled.			
		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 E2214H / E2314H 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?		
	No Yes		
Reset Other	Select this option to restore default other settings, such as		
Settings	DDC/CI.		
Factory Reset	Resets all OSD settings to the factory preset values.		

	Personalize	Selecting this opt	ion allows you t	o set two s	hortcut keys.
J.		Dell E2214H / E2314H		Energy Use	*****
•		- Brightness / Contrast	Shortcut Key 1	Preset M	odes
		+ Auto Adjust	Shortcut Key 2	Brightne	ss / Contrast
		Input Source	Reset Personalization		
		Color Settings			
		Display Settings			
		V Energy Settings			
		🔳 Menu Settings			^
		Her Settings			V
		🛨 Personalize			→
		(Resolution: 1024x768, 60	Hz	Maximum : 192	20x1080, 60Hz 🗙
	Shortcut Key 1	User can select fr	rom "Preset Mod	es", "Bright	ness/Contrast",
		"Auto Adjust", "Inp	out Source" , "As	pect Ratio"	and set as
		shortcut key.			
		Dell E2214H / E2314H		Energy Us	e !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
		- Brightness / Contrast	Shortcut Key 1	✓ Preset Mode	es 🕨
		主 Auto Adjust	Shortcut Key 2	Brightness	Contrast
		Input Source	Reset Personalization	Auto Adjust	
		Color Settings		Input Sourc	e 🕨
		Display Settings		Aspect Rait	D
		M Energy Settings			
		Menu Settings			^
		Other Settings			✓
		+ Personalize			→
		(C) Resolution: 1024x768, 60	0Hz	Maximum : 19	920x1080, 60Hz
	Shortcut Key 2	User can select fr	rom "Preset Mod	es", "Bright	ness/Contrast",
		"Auto Adjust", "Inp	out Source" , "As	pect Ratio"	and set as
		shortcut key.			
		Dell E2214H / E2314H		Energy Use	
		- D- Brightness / Contrast	Shortcut Key 1		
		+ Auto Adjust	Shortcut Key 2	✓ Preset Mode	s 🔸
		Input Source	Reset Personalization	Brightness	Contrast
		Color Settings		Auto Adjust	
		Display Settings		Input Source	• •
		Energy Settings		Aspect Raito	·
		Menu Settings			^
					×
		+ Personalize			→
	-	Resolution: 1024x768, 60			20x1080, 60Hz
	Reset	Allows you to res	tore shortcut ke	y to the de	ault setting.
	Personaliza-				
	tion				

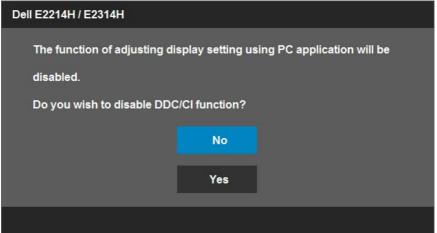
OSD Messages

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 1920 x 1080.

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



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

Dell E2214H / E2314H

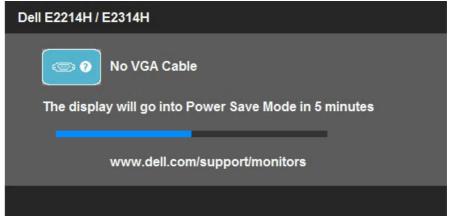
Entering Power Save Mode.

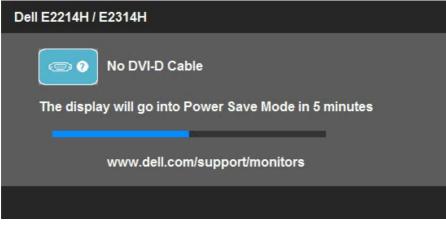
Activate the computer and wake up the monitor to gain access to the **OSD**.

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

Dell E2214H / E2314H
There is no signal coming from your computer. Press any key on the
keyboard or move the mouse to wake it up. If there is no display, press
the monitor button now to select the correct input source on the
On-Screen-Display menu.

If VGA or DVI 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.





See **Solving Problems** for more information.

Setting the Maximum Resolution

Windows Vista® ,Windows® 7 ,Windows® 8:

- **1.** For Windows® 8 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 1920 x 1080.
- 4. Click OK.

If you do not see 1920 x 1080 as an option, you may need to update your graphics driver. Depending on your computer, complete one of the following procedures:

If you have a Dell desktop or portable computer:

• Go to <u>www.dell.com/support</u>, enter your service tag, and download the latest driver for your graphics card.

If you are using a non-Dell computer (portable or desktop):

- Go to the support site for your computer and download the latest graphic drivers.
- Go to your graphics card website and download the latest graphic drivers.

Using the Tilt

Tilt

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

21° typical (maximum 22°) 5° typical (maximum 5.5°)





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

Troubleshooting

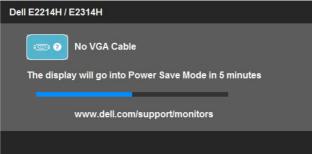
MARNING: Before you begin any of the procedures in this section, follow the <u>Safety Instruction</u>

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 both Digital (white connector) and the Analog (blue connector) cables from the back of computer.
- 3. Turn on the monitor.

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



- This box also appears during normal system operation, if the video cable becomes disconnected or damaged. 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.

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

Built-in Diagnostics

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



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

To run the built-in diagnostics:

- **1.** Ensure that the screen is clean (no dust particles on the surface of the screen).
- **2.** Unplug the video cable(s) from the back of the computer or monitor. The monitor then goes into the self-test mode.
- **3.** Press and hold the **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 white 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	Possible Solutions
	Experience	
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 Input. Source Select button. Check the "Power LED Button" option under Energy Settings 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 <i>Input Source</i> Select menu. 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 (16:9).
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.

		1
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 brightness & contrast controls via OSD. NOTE: When using 'DVI-D', the positioning adjustments are not available.
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. NOTE: When using 'DVI-D', the Pixel Clock and Phase adjustments are not available.

Synchronization	Screen is scrambled or	• Reset the monitor to Factory
Problems	appears torn	 Settings. Perform Auto Adjust via OSD. Adjust Phase and Pixel Clock controls via OSD. Perform monitor self-test feature check to determine if the scrambled screen appears in self-test mode. Check for bent or broken pins in the video cable connector. Restart the computer in the safe mode.
Safety-Related Issues	Visible signs of smoke or sparks	 Do not perform any troubleshooting steps. Contact Dell immediately.
Intermittent Problems	Monitor malfunctions on & off	 Ensure that the video cable connecting the monitor to the computer is connected properly and is secure. Reset the monitor to Factory Settings. Perform monitor self-test feature check to determine if the intermittent problem occurs in self-test mode.
Missing Color	Picture missing color	 Perform monitor self-test feature check. Ensure that the video cable connecting the monitor to the computer is connected properly and is secure. Check for bent or broken pins in the video cable connector.
Wrong Color	Picture color not good	 Change the Color Setting Mode in the Color Settings OSD to Graphics or Video depending on the application. Try different Color Preset Settings in Color Settings OSD. Adjust R/G/B value in Color Settings OSD if the Color Management is turned off. Change the Input Color Format to PC RGB or YPbPr in the Advance Setting OSD.
Image retention from a static image left on	Faint shadow from the static image displayed	 Use the Power Management feature to turn off the monitor at all times when not in use (for
the monitor for a long period of time	appears on the screen	more information, see <u>Power</u> <u>Management Modes</u> . • Alternatively, use a dynamically changing screensaver.

Product-Specific Problems

Specific Symptoms	What You	Possible Solutions
	Experience	
Screen image is too small	Image is centered on screen, but does not fill entire viewing area	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 power cord, plug back, and then turn on the monitor.
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.

NOTE: When choosing DVI-D mode, the Auto Adjust function is not available.

Dell Soundbar Problems

Common Symptoms	What You	Possible Solutions
	Experience	
where the Soundbar	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 -	• Plug the audio line-in cable into
	power indicator is on	 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).
Distorted Sound	Computer's sound card is used as the audio source	 Clear any obstructions between the Soundbar and the user. Confirm that the audio line-in plug is completely inserted into the jack of the sound card. Set all Windows volume controls to their midpoints. Decrease the volume of the audio application. Turn the Power/Volume knob on the Soundbar counter- clockwise to a lower volume setting. Clean and 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

MARNING: 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.

Setting Up Your Monitor

Setting the display resolution to 1920 x 1080 (Maximum)

For optimal display performance while using the Microsoft Windows operating systems, set the display resolution to 1920 x 1080 pixels by performing the following steps:

In Windows Vista®, Windows® 7, Windows® 8:

- **1.** For Windows® 8 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 1920 x 1080.
- 4. Click OK.

If you do not see 1920 x 1080 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 1920 x 1080 again.



NOTE: If you are unable to set the resolution to 1920 x 1080, 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:

- 1. For Windows[®] 8 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 1920 x 1080 again.
- **NOTE**: If you are unable to set the resolution to 1920 x 1080, please contact the manufacturer of your computer or consider purchasing a graphics adapter that will support the video resolution of 1920 x 1080

Procedures for setting up dual monitors in Windows Vista $\ensuremath{\mathbb{B}}$, Windows $\ensuremath{\mathbb{B}}$ 7 or Windows $\ensuremath{\mathbb{8}}$ 8

For Windows Vista®

Connect the external monitor(s) to your laptop or desktop using a video cable (VGA, DVI, DP, HDMI etc.) and follow any of the below setup method.

Method 1: Using keyboard shortcut "Win+P"

1. Press the Windows logo key + P on your keyboard.



2. While holding down the **Windows logo key**, press **P** to toggle between the display selections.

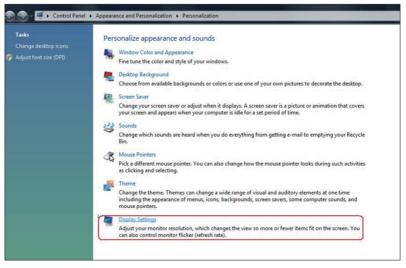


Method 2: Using the "Personalize" menu

1. Right-click on the desktop and click **Personalize**.

5	Personalize	
	New	+
	Paste Paste Shortcut	
	Refresh	
	View Sort By	*
*	AMD VISION Engine Control	Center

2. Click Display Settings.



- 3. Click Identify Monitors.
 - You may need to restart your system and repeat steps 1 to 3 if the system does not detect the added monitor.

Drag the icons to match your monitors.	Identify Monitors
1	2
1. Generic PnP Monitor on ATI Radeon HD 4800) Series 🗸
This is my main monitor) Series 🗸
This is my main monitor. Extend the desktop onto this monitor	
This is my main monitor Extend the desktop onto this monitor Resolution: Low	Colors:
This is my main monitor Textend the desktop onto this monitor Resolution:	Colors:

Connect the external monitor(s) to your laptop or desktop using a video cable (VGA, DVI, DP, HDMI etc.) and follow any of the below setup method.

Method 1: Using keyboard shortcut "Win+P"



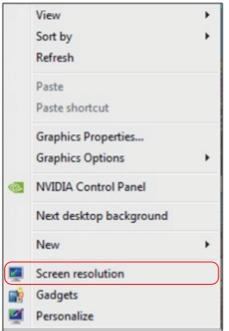


2. While holding down the **Windows logo key**, press **P** to toggle between the display selections.



Method 2: Using the "Screen Resolution" menu

1. Right-click on the desktop and click Screen resolution.



- 2. Click **Multiple displays** to choose a display selection. If you do not see the additional monitor listed, click **Detect**.
 - You may need to restart your system and repeat steps 1 to 3 if the system does not detect the added monitor.

	12	Detect Identify
Display:	2. Generic Non-PnP Monitor 💌	
Resolution:	1024 × 768 👻	
Orientation:	Landscape 👻	
Multiple displays:	Extend these displays	
A You must selec	t Apply before making additional changes.	
Make this my m	ain display	Advanced settings
Connect to a proje	ctor (or press the 💐 key and tap P)	
Make text and othe	r items larger or smaller	
What display settin	gs should I choose?	

Connect the external monitor(s) to your laptop or desktop using a video cable (VGA, DVI, DP, HDMI etc.) and follow any of the below setup method.

Method 1: Using keyboard shortcut "Win+P"

- 1. Press the Windows logo key + P on your keyboard.
- 2. While holding down the **Windows logo key**, press **P** to toggle between the display selections.

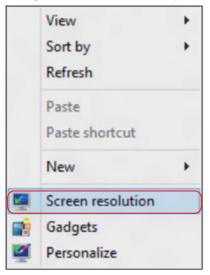


Method 2: Using the "Screen Resolution" menu

1. From the Start screen, select **Desktop** tile to switch to the Classic Windows desktop.



2. Right-click on the desktop and click Screen resolution.



- **3.** Click **Multiple displays** to choose a display selection. If you do not see the additional monitor listed, click Detect.
 - You may need to restart your system and repeat steps 1 to 3 if the system does not detect the added monitor.

G	Screen Resolution
€ € ♦ 🖉	« Appearance and Personalization > Display > Screen Resolution v C Search Control Panel P
	Change the appearance of your displays
	Display: 2. DELL U2312HM V
	Resolution: 1366 × 768 v Orientation: Landscape v
	Multiple displays: Extend these displays V
	A You must select Apply before making additional changes. Make this my main display Advanced settings
	Project to a second screen (or press the Windows logo key ## + P) Make text and other items larger or smaller What display settings should I choose?
	OK Cancel Apply

Setting Display Styles For Multiple Monitor

After the external monitor(s) have been set up, users can select the desired display style from **Multiple displays** menu: Duplicate, Extend, Show Desktop On.

• **Duplicate these displays:** Duplicate the same screen on two monitors with the same resolution, chosen based on the monitor with a lower resolution.

For Windows Vista®

[DUPLICATE NOT AVAILABLE]

For Windows® 7

Change the appearance of your displays

	12	Detect Identify
Display:	1. Mobile PC Display	
Resolution:	1024 × 768 📼	
Orientation:	Landscape 👻	
Multiple displays:	Extend these displays	
🔥 You must selec	Duplicate these displays Extend these displays pnal changes.	
	Show desktop only on 1 Show desktop only on 2	Advanced settings
	ctor (or press the 💐 key and tap P)	
Make text and othe	r items larger or smaller	
	gs should I choose?	

	Screen Resolution	x
\odot	🜉 « Appearance and Personalization » Display » Screen Resolution 🔹 🖒 Search Control Panel	٩
	Change the appearance of your display	
	Detect Identify	
	Display: 1/2. Multiple Monitors v Resolution: 1366 × 768 v Orientation: Landscape v Multiple displays: Duplicate these displays v	
	Project to a second screen (or press the Windows logo key 🗲 + P) Make text and other items larger or smaller What display settings should I choose?	
	OK Cancel Apply	

• Extend these displays: This option is recommended when an external monitor is connected to a laptop, and each monitor can display different screen independently to improve user convenience. The relative position of the screens can be set up here, for example monitor 1 may be set up to be to the left of monitor 2 or vice versa. This depends on the physical position of the LCD monitor in relation to the laptop. The horizontal line displayed on both monitors can be based on the laptop or external monitor. These are all adjustable options, and all a user need do is drag the monitor of the main screen to the extended monitor.

For Windows Vista®

Drag the icons to match your monitors.	<u></u>	Identify Monitors
1	2	2
2. Generic PnP Monitor on ATI Radeon H	D 4800 Seri	es 🔻
This is my main monitor		es 🔻
		es 🗸
This is my main monitor Extend the desktop onto this monitor Resolution: Low		
This is my main monitor Extend the desktop onto this monitor Resolution:	l.	Colors:
This is my main monitor Extend the desktop onto this monitor Resolution: Low	l.	Colors:

Change the appearance of your displays

		Identify
Display:	1. Mobile PC Display	
Resolution:	1024 × 768 👻	
Orientation:	Landscape 👻	
Multiple displays:	Extend these displays	
🔥 You must select	Duplicate these displays Extend these displays	
	Show desktop only on 1 Show desktop only on 2	Advanced setting
Connect to a projec	tor (or press the 🔐 key and tap P)	
Make text and other	items larger or smaller	
Mast disalary asting	s should I choose?	

For Windows® 8

		Screen Resolution		
€ Э ∘ �[💆 « Appearance and P	ersonalization + Display + Screen Resolution	✓ C Search Control Panel	٩
	Change the ap	pearance of your displays		
		12	Detect	
	Display:	2. DELL U2312HM 🗸		
	Resolution:	1366 × 768 V		
	Orientation:	Landscape \lor		
	Multiple displays:	Extend these displays $\qquad \lor$		
	🛕 You must selec	t Apply before making additional changes.		
	Make this my m	ain display	Advanced settings	
		screen (or press the Windows logo key 4 + P)		
		r items larger or smaller gs should I choose?		
			OK Cancel Apply	

• Show desktop only on...: Display the status of a particular monitor. This option is typically chosen when the laptop is used as a PC so the user can enjoy a large external monitor. Most current laptops support mainstream resolutions. As shown in the figure above, the resolution of the laptop monitor is only 1280 x 800, but after connecting a 27" external LCD monitor, users can immediately improve their visual enjoyment to 1920 x 1080 Full HD quality.

For Windows Vista®

S Display Settings	×
Monitor	12 12
Drag the icons to match your monitors.	Identify Monitors
1	2
1. Generic PnP Monitor on ATI Radeon HD 4800 Ser	ries 🔹
This is my main monitor Extend the desktop onto this monitor	
Resolution:	Colors:
Low High	Highest (32 bit) 🔹
1440 by 900 pixels	
How do I get the best display?	Advanced Settings
ОК	Cancel Apply
Display Settings	X
Display Settings Monitor	×
	Identify Monitors
Monitor	Identify Monitors
Monitor Drag the icons to match your monitors.	Identify Monitors
Monitor Drag the icons to match your monitors.	Identify Monitors
Monitor Drag the icons to match your monitors. 2. Generic PnP Monitor on ATI Radeon HD 4800 Ser (7) This is my main monitor	Identify Monitors
Monitor Drag the icons to match your monitors. 2. Generic PnP Monitor on ATI Radeon HD 4800 Ser This is my main monitor Extend the desktop onto this monitor Resolution: Low - High	Identify Monitors
Monitor Drag the icons to match your monitors. 2. Generic PnP Monitor on ATI Radeon HD 4800 Ser 7 This is my main monitor Resolution: Low High	Identify Monitors
Monitor Drag the icons to match your monitors. 2. Generic PnP Monitor on ATI Radeon HD 4800 Ser This is my main monitor Extend the desktop onto this monitor Resolution: Low - High	Identify Monitors

Change the appearance of your displays

Display:	1. Mobile PC Display	•		
Resolution:	1024 × 768 🛛 👻			
Drientation:	Landscape *			
Multiple displays:	Show desktop only on 1	•		
🚹 You must selec	Duplicate these displays Extend these displays	onal changes.		
	Show desktop only on 1 Show desktop only on 2		Advanced set	ting
Connect to a proje	ctor (or press the 🗿 key a	nd tap P)		
Make text and othe	r items larger or smaller			
What display settin	gs should I choose?			
that display second				
mit display section		ОК	Cancel Apply	ý.
		ОК	Cancel Apply	/

Display:	1. Mobile PC Display	•	
Resolution:	1024 × 768 🔫		
Orientation:	Landscape 👻		
Multiple displays:	Show desktop only on 2	-	
🛕 You must selec	Duplicate these displays Extend these displays	onal changes.	
🗌 Make this my m	Show desktop only on 1 Show desktop only on 2		Advanced settings
	ctor (or press the 🜒 key a	ind tap P)	
Make text and othe	ritems larger or smaller		
What display settin	gs should I choose?		

	Screen Resolution		
→ - {	🖉 « Appearance and Personalization + Display + Screen Resolution	V C Search Control Panel	
	Change the appearance of your displaye		
	Change the appearance of your displays		
		Detect	
		Identify	
	Display: 2. DELL U2312HM V		
	Resolution: 1366 × 768 V		
	Orientation: Landscape 🛷		
	Multiple displays: Show desktop only on 1 V		
	A You must select Extend these displays phal changes.		
	Make this my m Show desktop only on 1 Show desktop only on 2	Advanced settings	
	Project to a second screen (or press the Windows logo key		
	Make text and other items larger or smaller What display settings should I choose?		
	what display settings should i choose:		
	ОК	Cancel Apply	
	ОК	Cancel Apply	
	OK Screen Resolution	Cancel Apply	
)- 1			
€ - €	Screen Resolution		
€ - €	Screen Resolution		
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€) - €	Screen Resolution Change the appearance of your displays Change the appearance of your displays Display: 2. DELL U2312HM	 ✓ C Search Control Panel Detext 	
€) - €	Screen Resolution Change the appearance of your displays Change the appearance of your displays Display: 2. DELL U2312HM Resolution: 1366 × 768	 ✓ C Search Control Panel Detext 	
€) -	Screen Resolution Change the appearance of your displays Change the appearance of your displays Display: 2. DELL U2312HM Resolution: 1366 × 768 Orientation: Landscape Multiple displays: Show destpo only on 2 Display:	 ✓ C Search Control Panel Detext 	
€)- €	Screen Resolution Change the appearance of your displays Change the appearance of your displays Change the appearance of your displays Display: 2. DELL U2312HM Resolution: 1365 × 758 Orientation: Landscase Multiple displays: Show dektop only on 1 nal changes. Show dektop only on 1	 ✓ C Search Control Panel Detext 	
) - 4	Screen Resolution Change the appearance of your displays Change the appearance of your displays Change the appearance of your displays Display: 2. DELL U2312HM Resolution: 1366 × 758 Orientation: Landscase Multiple displays: Show desktop only on 2 Multiple displays: Tou must select Strend these displays Tou must select Strend these displays Make this my m Show desktop only on 2	✓ C Search Control Panel Detect Identify	
)	Screen Resolution Change the appearance of your displays Change the appearance of your displays Change the appearance of your displays Display: 2. DELL U2312HM Resolution: 1365 × 758 Orientation: Landscase Multiple displays: Show dektop only on 1 nal changes. Show dektop only on 1	✓ C Search Control Panel Detect Identify	
) ⇒ ¶	Screen Resolution Image the appearance of your displays Change the appearance of your displays Image the appearance of your displays Display: 2. DELL U2312HM Resolution: 1366 × 768 Image the displays Image the displays Image the displays Show desktop only on 2 Image the displays Image the displays Image the displays Image the displays Image the second screen (or press the Windows logo key Image the point of the displays)	✓ C Search Control Panel Detect Identify	