User's Guide Dell P1914S

Model No.: P1914S

Regulatory model: P1914Sf





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.

 \triangle

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

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Dell Display Manager User's Guide

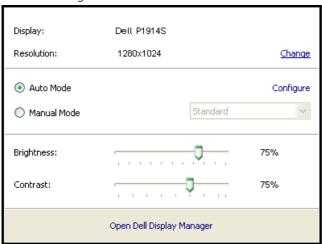
Overview

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.

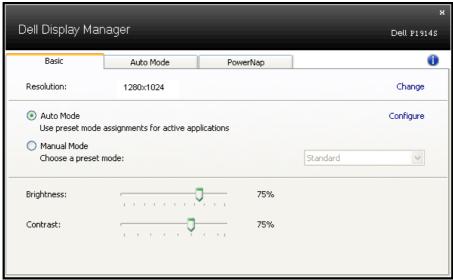


The Quick Settings dialog box also provides access to Dell Display Manager's advanced user interface which is used to adjust Basic functions, configure Auto Mode and access other features.

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.

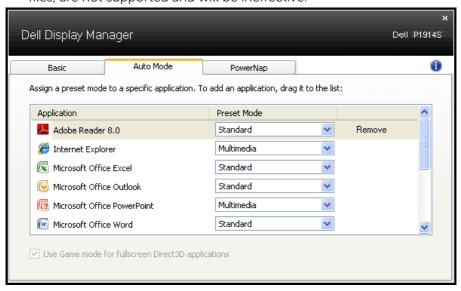


Assigning Preset Modes to Applications

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.



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.



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.
- **NOTE:** To set up with any other stand, please refer to the respective stand setup guide for setup instructions.
- NOTE: P1914S monitor is BFR/PVC-free (Halogen-free) excluding external cables.



DisplayPort (DP) Cable
USB upstream cable (enables the USB ports on the monitor)
 Drivers and Documentation Media Quick Setup Guide Product and Safety Information Guide

Product Features

The Dell P1914S flat-panel display has an active matrix, Thin-Film Transistor, Liquid Crystal Display. The monitor's features include:

- P1914S: 48.00cm (19.0 inches) diagonal viewable image size, 1280 x 1024 resolution, plus full-screen support for lower resolutions.
- Wide viewing angle to allow viewing from a sitting or standing position, or while moving from side-to-side.
- Tilt, swivel, vertical extension and rotate adjustment capabilities.
- Stand lock.
- 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), Dell Display Manager software application and product documentation.
- ENERGY STAR-compliant.
- Security lock slot.
- Asset Management Capability.
- EPEAT Gold Rating.
- Dell Display Manager software included (comes in the CD shipped with the monitor).
- BFR/PVC-free (Halogen-free) excluding external cables.
- TCO compliant.

• Energy Gauge shows the energy level being consumed by the monitor in real time.

Identifying Parts and Controls

Front View



Front panel controls

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

Back View



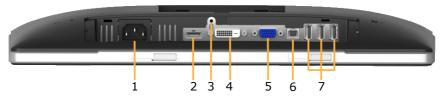
Back View with monitor stand

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	Use a security lock to secure your monitor. (security lock not included).
4	Barcode serial number label	Refer to this label if you need to contact Dell for technical support.
5	Stand release button	Release stand from monitor.
6	USB downstream port	Connect your USB device. You can only use this connector after you have connected the USB cable to the computer and USB upstream connector on the monitor.
7	Cable management slot	Use to organize cables by placing them through the slot.

Side View



Bottom View



Label	Description	Use
1	AC power connector	To connect the monitor power cable.
2	DisplayPort connector	To connect your computer to the monitor using a DisplayPort cable.
3	Stand lock feature	To lock the stand to the monitor using a M3 x 6 mm screw (screw not included).
4	DVI connector	To connect your computer to the monitor using a DVI cable.
5	VGA connector	To connect your computer to the monitor using a VGA cable.
6	USB upstream port	Connect the USB cable that came with your monitor to the monitor and the computer. Once this cable is connected, you can use the USB connectors on the monitor.
7	USB downstream port	Connect your USB device. You can only use this connector after you have connected the USB cable to the computer and USB upstream connector on the monitor.

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:

VESA Modes	Horizontal	Vertical	Video	Power	Power
	Sync	Sync		Indicator	Consumption
Normal operation	Active	Active	Active	White	37 W (Maximum) **
					16 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:

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 <u>OSD</u>.



NOTE: The Dell P1914S monitor is ENERGY STAR®-compliant.

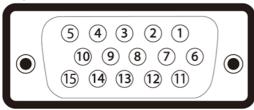


^{*} Zero-power consumption in OFF mode can only be achieved by disconnecting the main cable from the monitor.

^{**} Maximum power consumption with max luminance and contrast.

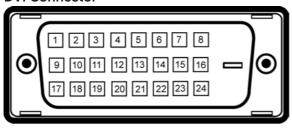
Pin Assignments

15-pin D-Sub connector



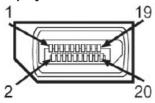
Pin Number	Monitor Side of the 15-pin Side Signal Cable
1	Video-Red
2	Video-Green
3	Video-Blue
4	GND
5	Self-test Self-test
6	GND-R
7	GND-G
8	GND-B
9	DDC +5 V
10	GND-sync
11	GND
12	DDC data
13	H-sync
14	V-sync
15	DDC clock

DVI Connector



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-

DisplayPort connector



Pin Number	20-pin Side of the Connected Signal Cable
1	MLO(p)
2	GND
3	MLO(n)
4	ML1(p)
5	GND
6	ML1(n)
7	ML2(p)
8	GND
9	ML2(n)
10	ML3(p)
11	GND
12	ML3(n)
13	GND
14	GND
15	AUX(p)
16	GND
17	AUX(n)
18	HPD
19	DP_PWR_Return
20	+3.3 V DP_PWR

Universal Serial Bus (USB) Interface

This section gives you information about the USB ports that are available on the monitor.

NOTE: This monitor supports High-Speed Certified USB 2.0 interface.

Transfer Speed	4-pin Side of the Connector
High speed	480 Mbps
Full speed	12 Mbps
Low speed	1.5 Mbps

USB Upstream Connector



Pin Number	Data Rate
1	DMU
2	VCC
3	DPU
4	GND

USB Downstream Connector



Pin Number	Data Rate	
1	VCC	

2	DMD
3	DPD
4	GND

USB Ports

- 1 upstream back
- 4 downstream back



NOTE: USB 2.0 functionality requires a USB 2.0-capable computer.

NOTE: The monitor's USB interface works only when the monitor is On or in the power-save mode. If you turn Off the monitor and then turn it On, the attached peripherals may take a few seconds to resume normal functionality.

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	Dell P1914S monitor
Screen type	Active matrix - TFT LCD
Panel Type	IIn Plane Switching Type
Viewable image dimensions:	
Diagonal	480.0 mm (19.0 inches)
Horizontal	374.8 mm (14.76 inches)
Vertical	299.8 mm (11.80 inches)
Pixel pitch	0.29 mm
Viewing angle:	
Horizontal	178° typical
Vertical	178° typical
Luminance output	250 cd/m² (typical)
Contrast ratio	1000 to 1 (typical)
Faceplate coating	Antiglare with hard-coating 3H
Backlight	LED light bar system
Response Time	8 ms typical (gray to gray)
Color Depth	16.7 mil colors
Color Gamut	83 % (typical) **

^{** [}P1914S] color gamut (typical) is based on CIE1976 (83 %) and CIE1931 (72 %) test standards.

Resolution Specifications

Model number		Dell P1914S monitor
Scan range		
	Horizontal	30 kHz to 81 kHz (automatic)
•	Vertical	56 Hz to 76 Hz (automatic)
Maximi	um preset	1280 x 1024 at 60 Hz
resolution		

Electrical Specifications

Model number	Dell P1914S monitor	
Video input signals	 Analog RGB: 0.7 Volts ± 5 %, 75 ohm input impedance 	
	Digital DVI-D TMDS, 600 mV for each differential line, positive polarity at 50 ohm input impedance	
	DP 1.2 signal input support*	
Synchronization	Separate horizontal and vertical synchronizations,	
input 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/1.2 A	
frequency / current	(Max.)	
Inrush current	120 V: 30 A (Max.)	
	240 V: 60 A (Max.)	

^{*}Supports DP1.2 (CORE) specification. Excludes High Bit Rate 2 (HBR2), Fast AUX transaction, Multi-stream transport (MST), 3D stereo transport, HBR Audio (or high data rate audio).

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	70.0	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	64.0	60.0	108.0	+/+
VESA, 1280 x 1024	80.0	75.0	135.0	+/+

Physical Characteristics

The following table lists the monitor's physical characteristics:

Model Number	Dell P1914S monitor
Connector type	D-subminiature, blue connector;
	DVI-D: white connector;
	DP, black connector
Signal cable type	D-sub: Analog, 15-pin.
	DVI-D: DVI-D, Solid pins
	Digital: DisplayPort, 20-pin
Dimensions: (with stand)	
Height (extended)	499.7 mm (19.67 inches)
Height (compressed)	370.2 mm (14.57 inches)
Width	411.4 mm (16.20 inches)
Depth	180.0 mm (7.09 inches)
Dimensions:	
(without stand)	
Height	336.4 mm (13.24 inches)
Width	411.4 mm (16.20 inches)

Depth	46.5 mm (1.83 inches)
Stand dimensions:	
Height (extended)	399.7 mm (15.74 inches)
Height (compressed)	354.2 mm (13.94 inches)
Width	225.0 mm (8.86 inches)
Depth	180.0 mm (7.09 inches)
Weight:	
Weight with packaging	6.57 kg (14.45 lb)
Weight with stand assembly and cables	5.12 kg (11.26 lb)
Weight without stand assembly (For wall mount or VESA mount considerations - no cables)	2.76 kg (6.07 lb)
Weight of stand assembly	1.87 kg (4.11 lb)

Environmental Characteristics

The following table lists the environmental conditions for your monitor:

Model Number	Dell P1914S monitor
Temperature	
 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 (-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 (16,387 ft) max
Non-operating	12,191 m (40,000 ft) max
Thermal dissipation	126.3 BTU/hour (maximum)
	54.6 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



the monitor.



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 Monitor



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

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 set up instructions



To attach the monitor stand:

- 1. Remove the cover and place the monitor on it.
- 2. Fit the two tabs on the upper part of the stand to the groove on the back of the monitor.
- 3. Press the stand till it snaps into place.

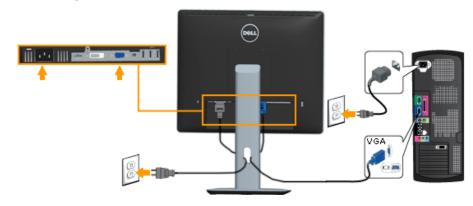
Connecting Your Monitor

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

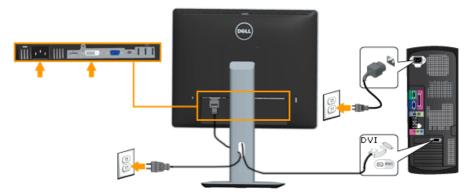
To connect your monitor to the computer:

- 1. Turn off your computer and disconnect the power cable.
- 2. Connect either the white (digital DVI-D) or the blue (analog VGA) or the black (DisplayPort) display connector cable to the corresponding video port on the back of your computer. Do not use the three cables at the same time. Use both the cables only when they are connected to the three different computers with appropriate video systems.

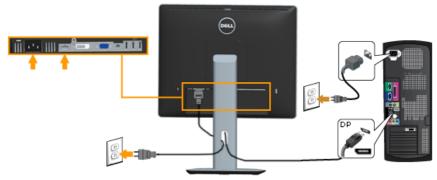
Connecting the blue VGA Cable



Connecting the white DVI cable



Connecting the black DisplayPort cable

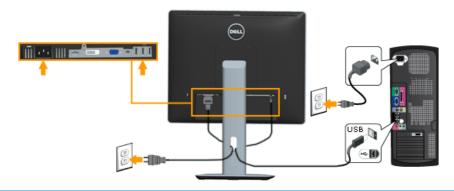


Note: The graphics are used for the purpose of illustration only. Appearance on the computer may vary.

Connecting USB cable

After you have completed connecting the DVI/VGA/DP cable, follow the procedures below to connect the USB cable to the computer and complete your monitor setup:

- **1.** Connect the upstream USB port (cable supplied) to an appropriate USB port on your computer. (See **bottom view** for details.)
- **2.** Connect the USB peripherals to the downstream USB ports on the monitor.
- **3.** Plug the power cables for your computer and monitor into a nearby outlet
- **4.** Turn on the monitor and the computer. If your monitor displays an image, installation is complete. If it does not display an image, see **Solving Problems**.
- **5.** Use the cable slot on the monitor stand to organize the cables.



Organizing Your Cables



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

Attaching the Cable Cover



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



To attach the Cable Cover:

- 1. Fit the two tabs on the bottom part of the Cable Cover to the groove on the back of the monitor
- 2. Press the Cable Cover till it snaps into place.

Removing the Monitor Stand



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



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 set-up instructions.



To remove the stand:

- 1. Place the monitor on a flat surface.
- 2. Press and hold the stand release button.
- **3.** Lift the stand up and 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.
- **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 6.86 kg.

Operating the Monitor

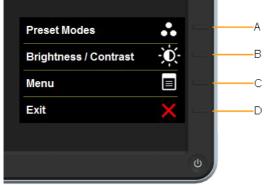
Power On the Monitor

Press the **b**utton to turn on the monitor.



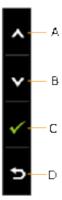
Using the Front-Panel Controls

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



Front-Panel Keys		Description
А	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



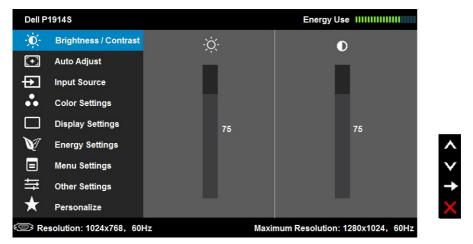
Front-Panel Keys		Description	
A Use the Up key to adjust (increase ranges) items in menu.		Use the Up key to adjust (increase ranges) items in the OSD menu.	
В	Down	Use the Down key to adjust (decrease ranges) items in the OSD menu.	
С	⊘ OK	Use the OK key to confirm your selection.	
D	S Back	Use the 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 button to open the OSD menu and display the main menu.

Main Menu



- **2.** Press the \odot and \odot 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.
- 5. 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 **9** to return to previous menu without accepting current settings or to accept and return to previous menu.

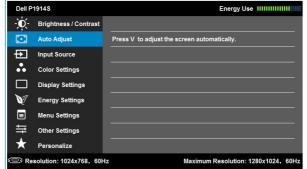
The table below provides a list of all the OSD menu options and their functions.

Icon	Menu and	Description				
	Submenus					
	Energy Use	This meter shows the energy level being consumed by the monitor in real time.				y the
w						
Ø	Brightness/	Use the Brightness and Contrast menu to adjust the				
	Contrast	Brightness/Contrast.				
		Dell P1914S Energy Use				
		Brightness / Contrast	-¤-		0	
		+ Auto Adjust				
		Input Source				
		Color Settings				
		Display Settings	75		75	_
		Energy Settings				^
		■ Menu Settings → Other Settings				ľ
		Resolution: 1024x768, 60H	z	Maximum Resolut	ion: 1280x1024,60Hz	_
	Brightness	Allows you to adjust the brightness or luminance of the				ne
	3	backlight.				
		Press the key to increase brightness and press the				
		key to decrease brightness (min 0 ~ max 100).				
	Contrast	Allows you to adjust the contrast or the degree of				
		difference between darkness and lightness on the monitor				
		screen. Adjust brightness first, and adjust contrast only if				
		you need further adjustment.				
		Press the ♠ key to increase contrast and press the ♠ key				
		to decrease contra	to decrease contrast (min 0 ~ max 100).			



Auto Adjust

Use this key to activate automatic setup and adjust menu.



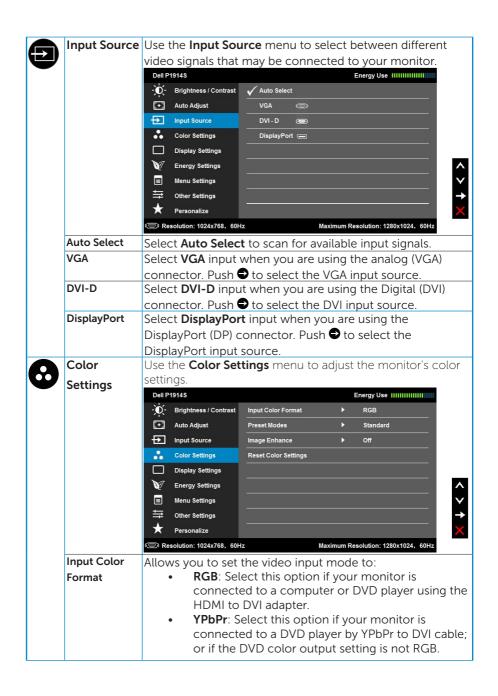
The following dialog appears on a black screen as the monitor self-adjusts to the current input:

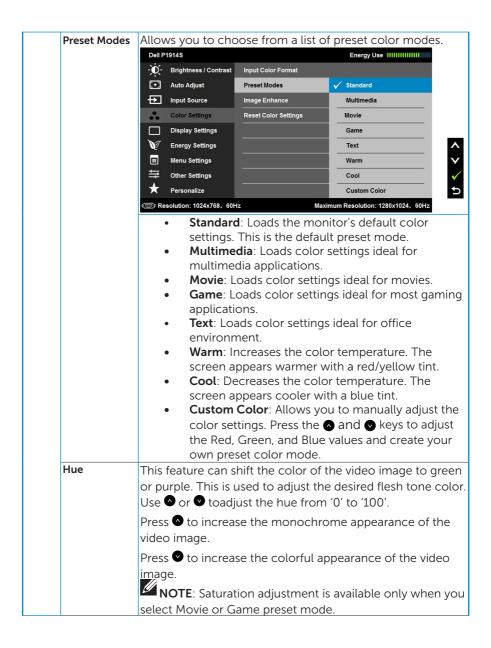
Auto Adjustment in Progress...

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

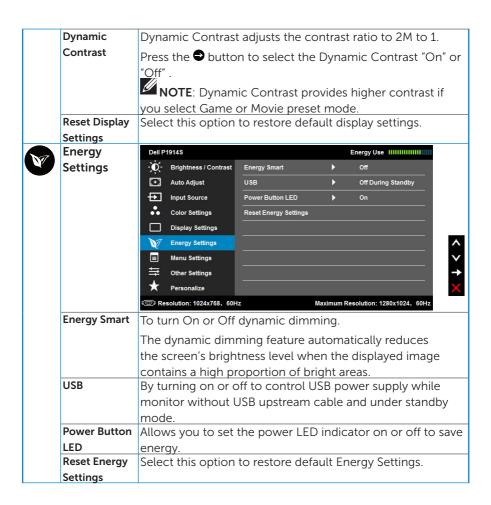
NOTE: Auto Adjust does not occur if you press the button while there are no active video input signals or attached cables

This option is only available when you are using the analog (VGA) connector.

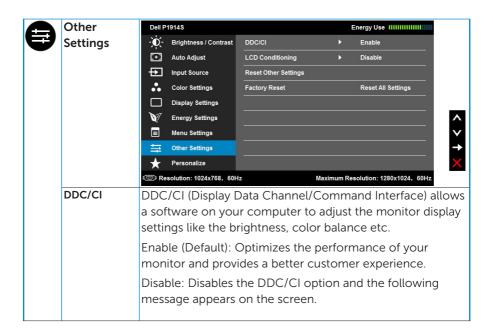




Satura	tion This	feature can a	diust the colo	r catura	tion of the vi	deo
Jatura		This feature can adjust the color saturation of the video image. Use \odot or \odot to adjust the saturation from '0' to '100'.				
		_				
		Press to increase the monochrome appearance of the				
		video image.Press • to increase the colorful appearance of				
		the video image.				
		NOTE: Saturation adjustment is available only when you				
	sele	ct Movie or G	ame preset m	ode.		
Image		es upsized im		uality b	y removing in	nage
Enhan		fading and roughnessof edge.				
		NOTE: Image	Enhance is av	aliable	only when yo	u select
	Star	dard, Multim	edia, Movie,	or Gam e	e preset mode	e.
Reset (Color Rese	ets your moni	tor's color set	tings to	the factory d	efaults.
Setting	js –					
Displa	y Use	the Displays	Settings men	u to adj	ust the monit	or's
Settin	gs disp	lay settings.				
	Dell	219148			Energy Use IIIIIIIIIIIIIII	0000
	-)•(-	Brightness / Contrast	Horizontal Position)	50	
	:	Auto Adjust	Vertical Position	+	50	
	Ð	Input Source	Sharpness	•	50	
	•	Color Settings	Pixel Clock	•	50	
		Display Settings	Phase	<u> </u>	50	_
	V	Energy Settings	Dynamic Contrast	<u> </u>	On	_ ^
		Menu Settings	Reset Display Settings			- Y
	= =	Other Settings				- 7
	~	Personalize esolution: 1024x768, 60H	-	Maximum R	esolution: 1280x1024, 60	·-
		esoludon. 1024x708, 00F		Waxiiiiuiii K	550luli011. 1280X1024, 00	HZ
Horizo	ntal	• • • •				
Positio	Use	or ♥ the b		_	_	nt.
Vertica	ı	Minimum is '0' (-). Maximum is '100' (+).				
Positio	Use	Use the $lacktriangle$ or $lacktriangle$ buttons to adjust image up and down.			νn.	
	Mini	Minimum is '0' (-). Maximum is '100' (+).				
Sharpr		This feature can make the image look sharper or softer. Use				
<u> </u>		or vo to adjust the sharpness from '0' to '100'.				
Pixel C		The Phase and Pixel Clock adjustments allow you to adjust				
	-	your monitor to your preference. Use ② or ♡ buttons to				
Phase		adjust for best image quality.				
riiase		If satisfactory results are not obtained using the Phase				
	-	adjustment, use the Pixel Clock (coarse) adjustment and then use Phase (fine), again.				
	tner	i use Phase (fi	rie), again.			



Menu	Select this ontion	to adjust the se	ettings of the OSD such as	ς
Settings	Select this option to adjust the settings of the OSD such as, the languages of the OSD, the amount of time the menu			٥,
Settings	remains on screen, and so on.			
	Dell P1914S	1, and 30 on.	Energy Use IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
	- D- Brightness / Contrast	Language	▶ English	
	Auto Adjust	Rotation	,	
	Input Source	Transparency	▶ 20	
	Color Settings	Timer	▶ 20s	
	☐ Display Settings	Lock	▶ Unlock	
	M Energy Settings	Reset Menu Settings		^
	Menu Settings			~
	Other Settings			→
	★ Personalize			×
	Resolution: 1024x768, 60H	lz I	Maximum Resolution: 1280x1024,60Hz	_
Language	Allows you to set	the OSD displa	y to one of eight	
			nch, German, Portuguese,	
	Russian, Simplified	d Chinese, or J	apanese.	
Rotation			counter-clockwise. You	
	can adjust the me	can adjust the menu according to your Display Rotation.		
Transparency	/ All			
Transparency				
Timer	transparent. Allows you to set the time for which the OSD remains			
	active after you press a key on the monitor.			
	Use the and keys to adjust the slider in 1 second constant for the Constant for the slider in 1 second			
Lock	increments, from 5 to 60 seconds.		\dashv	
LOCK	Lock Controls user access to adjustments. When Lock selected, no user adjustments are allowed. All key locked except be key. NOTE: When the OSD is locked, pressing the			
			e allowed. All keys are	
				У
	takes you directly to the OSD settings menu, with 'OSD			
	Lock' pre-selected on entry. Press and hold b key for 15			
	seconds to unlock and allow user access to all applicable			
	settings.			
Reset Menu	Select this option to restore default menu settings.			
Settings				



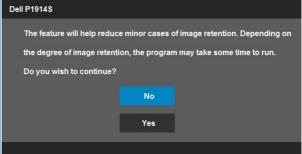
LCD Conditioning

This feature will help reduce minor cases of image retention.

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.



Reset Other Settings Select this option to restore default other settings, such as DDC/CI.

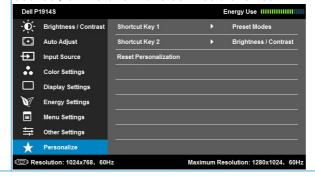
Factory Reset

Resets all OSD settings to the factory preset values.



Personalize

Users can choose a feature from "Preset Modes", "Brightness/Contrast", "Auto Adjust", "Input Source", or "Rotation" and set it as a shortcut





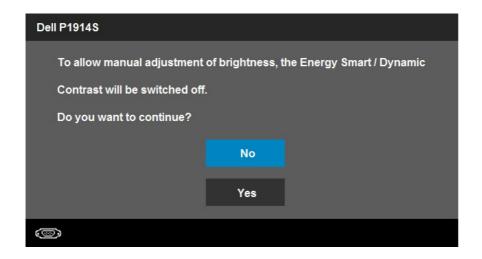
OSD Messages

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

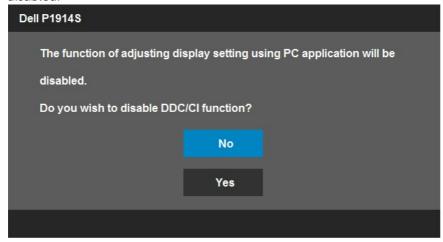


This means that the monitor cannot synchronize with the signal that it is receiving from the computer. See **Monitor Specifications** for the horizontal and vertical frequency ranges addressable by this monitor.

When the Energy Smart or Dynamic Contrast feature is enabled (in these preset modes: Game or Movie), the manual brightness adjustment is disabled



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

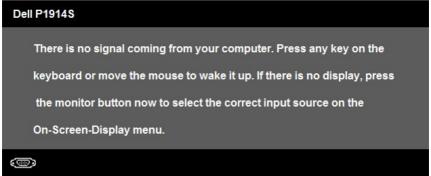


When the monitor enters the **Power Save** mode, the following message appears:

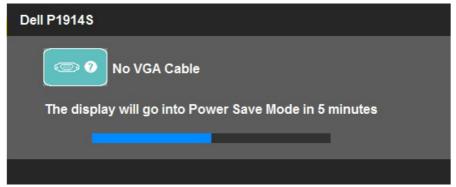


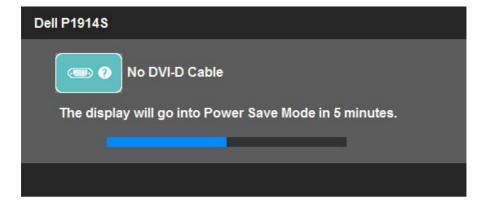
Activate the computer and wake up the monitor to gain access to the **OSD**.

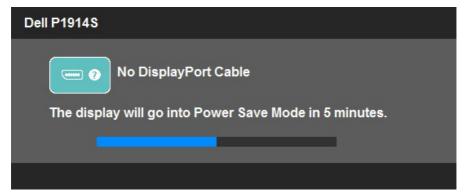
If you press any button other than the power button, the following messages will appear depending on the selected input:



If VGA or DVI or DP 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

To set the Maximum resolution for the monitor:

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 1280 x 1024.
- 4. Click OK.

If you do not see 1280×1024 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 www.dell.com/support/, enter your service tag, and download the latest driver for your graphics card.

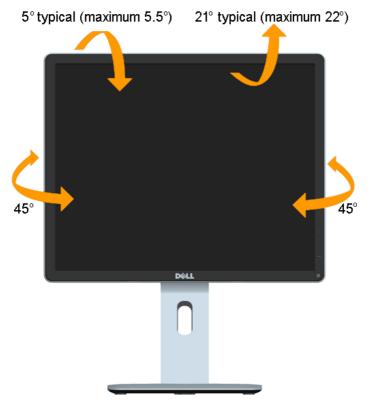
If you are using a non-Dell computer (portable or desktop):

- 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, Swivel, and Vertical Extension

Tilt, Swivel

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



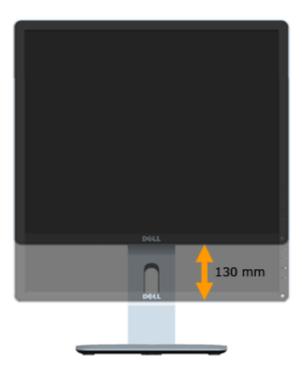


NOTE: The stand is detached when the monitor is shipped from the factory.

Vertical Extension

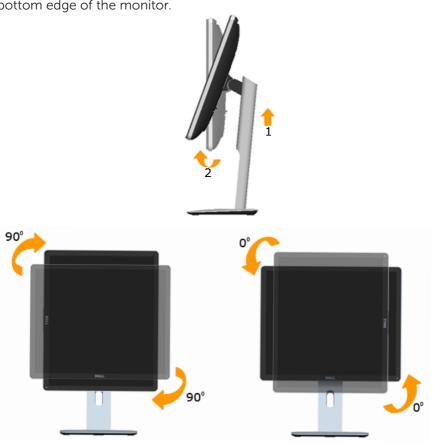


NOTE: The stand extends vertically up to 130 mm. The figure below illustrates how to extend the stand vertically.



Rotating the Monitor

Before you rotate the monitor, your monitor should be fully vertically extended (Vertical Extension) and fully tilted (Tilt) up to avoid hitting the bottom edge of the monitor.





NOTE: To use the Display Rotation function (Landscape versus Portrait view) with your Dell computer, you require an updated graphics driver that is not included with this monitor. To download the graphics driver, go to www.dell.com/support/ and see the Download section for Video Drivers for latest driver updates.



NOTE: When in the Portrait View Mode, you may experience performance degradation in graphic-intensive applications (3D Gaming and etc.).

Adjusting the Rotation Display Settings of Your System

After you have rotated your monitor, you need to complete thewhether procedure below to adjust the Rotation Display Settings of your System.



NOTE: If you are using the monitor with a non-Dell computer, you need to go the graphics driver website or your computer manufacturer website for information on rotating the contents on your display.

To adjust the Rotation Display Settings:

- 1. Right-click on the desktop and click Properties.
- 2. Select the Settings tab and click Advanced.
- 3. If you have an ATI graphics card, select the Rotation tab and set the preferred rotation.

If you have an nVidia graphics card, click the nVidia tab, in the left-hand column select NVRotate, and then select the preferred rotation.

If you have an Intel® graphics card, select the Intel graphics tab, click Graphic Properties, select the Rotation tab, and then set the preferred rotation.



NOTE: If you do not see the rotation option or it is not working correctly, go to www.dell.com/support/ and download the latest driver for your graphics card.

Troubleshooting

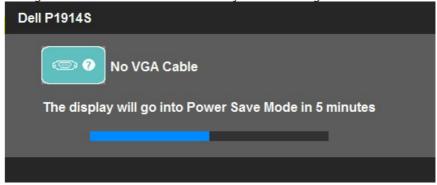
MARNING: Before you begin any of the procedures in this section, follow the Safety Instructions

Self-Test

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

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



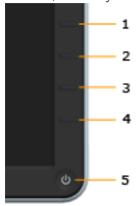
- **3.** This box also appears during normal system operation, if the video cable becomes disconnected or damaged. The monitor will enter Power Save Mode after 5 minutes if left at this state.
- 4. Turn off your monitor and reconnect the video cable; then turn on both your computer and the monitor.

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 and text 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.
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 Input Source 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 .
Shaky/Jittery Video	Wavy picture or fine movement	 Perform Auto Adjust via OSD. Adjust the Phase and Pixel Clock controls via OSD. Reset the monitor to Factory Settings. Check environmental factors. Relocate the monitor and test in another room.
Missing Pixels	LCD screen has spots	Cycle power on-off. Pixel that is permanently off is a natural defect that can occur in LCD technology. For more information on Dell Monitor Quality and Pixel Policy, see Dell Support site at:
		www.dell.com/support/
	l	monitors.

Stuck-on Pixels	LCD screen has bright 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: www.dell.com/support/
Brightness Problems	Picture too dim or too bright	 monitors. 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 Problems	Screen is scrambled or appears torn	 Reset the monitor to Factory Settings. Perform Auto Adjust via OSD. Adjust Phase and Pixel Clock controls via OSD. Perform monitor self-test feature check to determine if the scrambled screen appears in self-test mode. Check for bent or broken pins in the video cable connector. Restart the computer in 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	Faint shadow from the	Use the Power Management
a static image left on	static image displayed	feature to turn off the monitor at all times when not in use (for
the monitor for a long	appears on the screen	more information, see Power
period of time		Management Modes
		Alternatively, use a dynamically changing screens aver
	1	changing screensaver.

Product-Specific Problems

Specific Symptoms	What You	Possible Solutions
	Experience	
Screen image is too	Image is centered on	Reset the monitor to Factory
small	screen, but does not	Settings.
	fill entire viewing area	
Cannot adjust the	OSD does not appear	Turn off the monitor, unplug
monitor with the	on the screen	the power cord, plug back, and then turn on the monitor.
buttons on the front		then turn on the monitor.
panel		

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.

Universal Serial Bus (USB) Specific Problems

Common Symptoms	What You	Possible Solutions
	Experience	
USB interface is not working	USB peripherals are not working	Check that your monitor is turned ON. Reconnect the upstream cable to your computer. Reconnect the USB peripherals (downstream connector) Switch off and then turn on the monitor again. Reboot the computer. Some USB devices like external portable HDD require higher electric current; connect the device directly to the computer system.
High Speed USB 2.0 interface is slow.	High Speed USB 2.0 peripherals working slowly or not working at all	 Check that your computer is USB 2.0-capable. Some computers have both USB 2.0 and USB 1.1 ports. Ensure that the correct USB port is used. Reconnect the upstream cable to your computer. Reconnect the USB peripherals (downstream connector). Reboot the computer

Appendix



△ WARNING: Safety Instructions

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

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

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

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

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 <u>www.dell.com/support/monitors</u>

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

- 1. Visit www.dell.com/support.
- 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 1280 x 1024 (Maximum)

For optimal display performance while using the Microsoft Windows operating systems, set the display resolution to 1280 x 1024 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 1280 x 1024.
- 4. Click OK.

If you do not see 1280 x 1024 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 1280 x 1024 again.
- NOTE: If you are unable to set the resolution to 1280 x 1024, 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 1280 x 1024 again.
- NOTE: If you are unable to set the resolution to 1280 x 1024, please contact the manufacturer of your computer or consider purchasing a graphics adapter that will support the video resolution of 1280 x 1024.

Procedures for setting up dual monitors in Windows Vista®, Windows® 7 or Windows® 8

For Windows Vista®

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

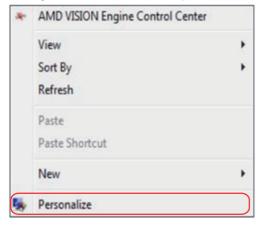
Method 1: Using keyboard shortcut "Win+P"

- **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.

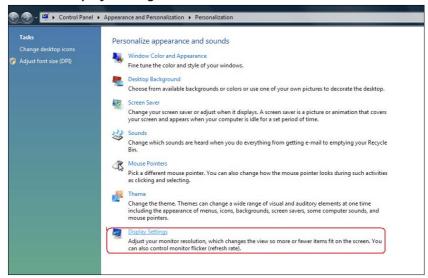


Method 2: Using the "Personalize" menu

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



2. Click Display Settings.



3. Click Identify Monitors.

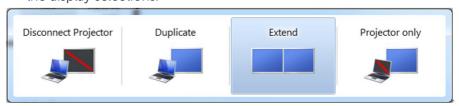
• You may need to restart your system and repeat steps 1 to 3 if the system does not detect the added monitor.



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

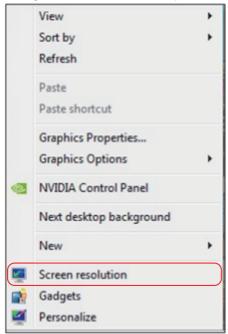
Method 1: Using keyboard shortcut "Win+P"

- **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.

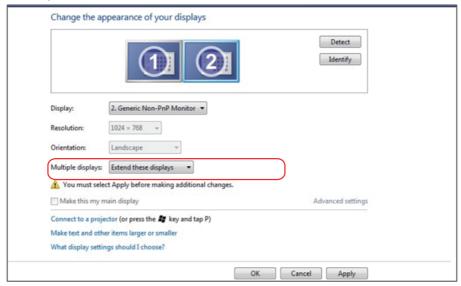


Method 2: Using the "Screen Resolution" menu

1. 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.



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 methods.

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.

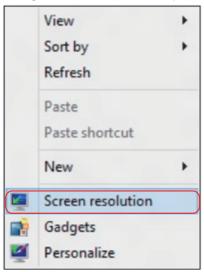


Method 2: Using the "Screen Resolution" menu

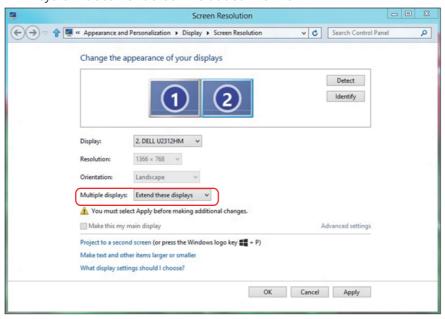
1. From the Start screen, select **Desktop** tile to switch to the Classic Windows desktop.



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.



Setting Display Styles For Multiple Monitor

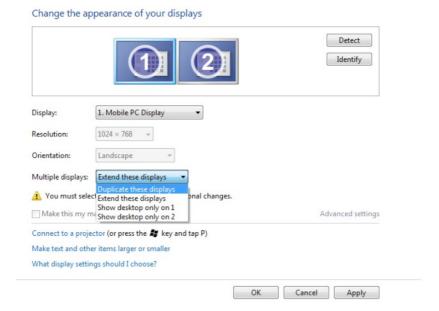
After the external monitor(s) have been set up, users can select the desired display style from **Multiple displays** menu: Duplicate, Extend, Show Desktop On.

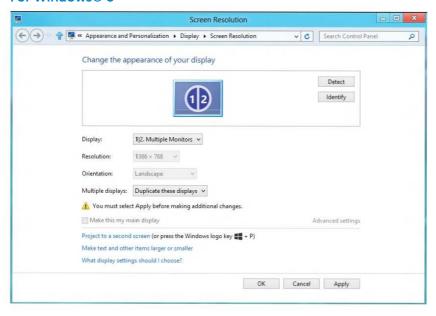
• **Duplicate these displays:** Duplicate the same screen on two monitors with the same resolution, chosen based on the monitor with a lower resolution.

For Windows Vista®

[DUPLICATE NOT AVAILABLE]

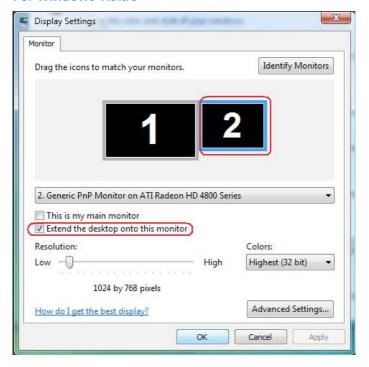
For Windows® 7



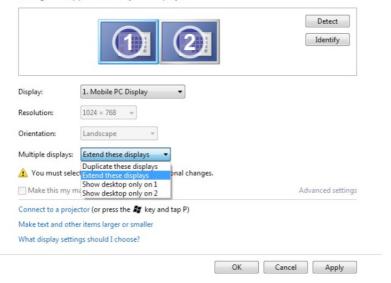


• Extend these displays: This option is recommended when an external monitor is connected to a laptop, and each monitor can display different screen independently to improve user convenience. The relative position of the screens can be set up here, for example monitor 1 may be set up to be to the left 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.

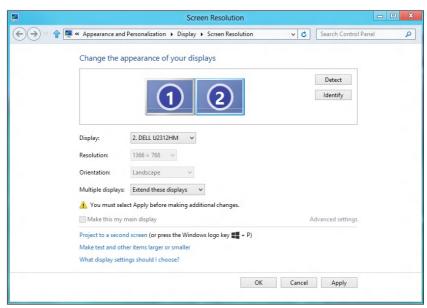
For Windows Vista®



Change the appearance of your displays

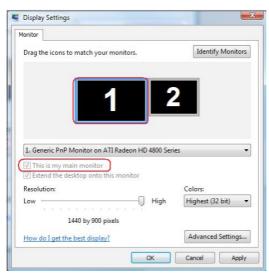


For Windows® 8



• 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®





Change the appearance of your displays

