Dell™ E1912H Monitor User's Guide

Notes, Cautions, Warnings

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

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

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

Model E1912Hf/E1912Hc

April 2011 Rev. A01

About Your Monitor

Dell™ E1912H Monitor User's Guide

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.

	ı Monitor
	ı Stand Riser
	ı Stand Base
	ı Power Cable
	ı VGA Cable (attached to the monitor)
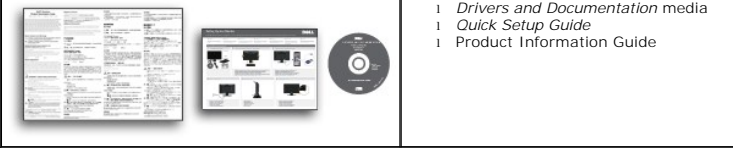
Product Features

The **Dell™ E1912H** flat panel display has an active matrix, Thin-Film Transistor, Liquid Crystal Display. The monitor's features include:

- 47.0 cm (18.5 inches) viewable area display.

- 1366 x 768 resolution, plus full-screen support for lower resolutions.

- Tilt adjustment capability.

- Removable pedestal and Video Electronics Standards Association (VESA) 100 mm mounting holes for flexible mounting solutions.

- Plug and play capability if supported by your system.

- On-Screen Display (OSD) adjustments for ease of set-up and screen optimization.

- Software and documentation media which includes an information file (INF), Image Color Matching File (ICM), and product documentation.

- PowerNap Software included (comes in the CD attached with the monitor).

- Security lock slot.

- Asset Management Capability.

- ENERGY STAR compliant.

- EPEAT™ Silver compliant.

- Halogen reduced.

- TCO Certified Displays.

Identifying Parts and Controls

Front View

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

Back View
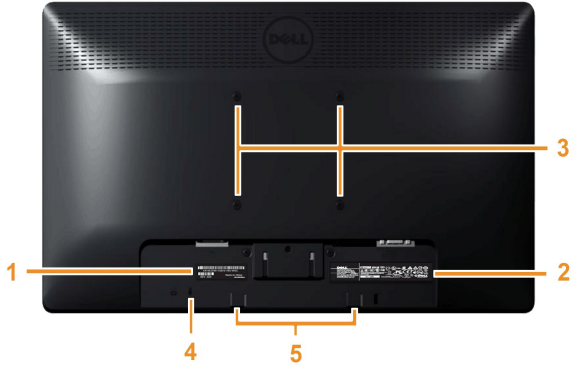
Label	Description	Use
1	Barcode serial number label	Refer to this label if you need to contact Dell for technical support.
2	Regulatory rating label	Lists the regulatory approvals.
3	VESA mounting holes (100 mm)	To mount the monitor.
4	Security lock slot	Use a security lock with the slot to help secure your monitor.
5	Dell soundbar mounting brackets	To attach the optional Dell Soundbar.

Side View

Right Side

Bottom View

Label	Description	Use

1	AC power connector	To connect the monitor power cable.
2	VGA connector	To connect your computer to the monitor using a VGA cable.

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 ref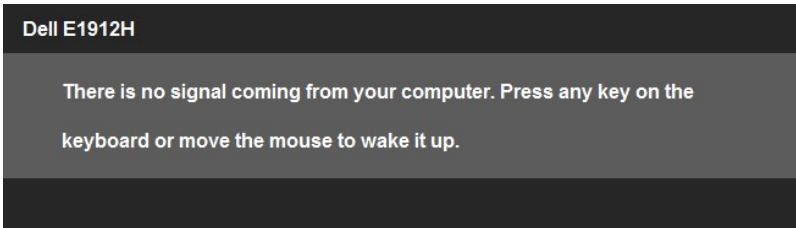erred to as *Power Save Mode.* If the computer detects input from keyboard, mouse, or other input devices, the monitor automatically resumes functioning. The following table shows the power consumption and signaling of this automatic power saving feature:

VESA Modes	Horizontal Sync	Vertical Sync	Video	Power Indicator	Power Consumption
Normal operation	Active	Active	Active	Blue	22 W (Maximum) 18 W (Typical)
Active-off mode	Inactive	Inactive	Blank	Amber	Less than 0.5 W
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 E1912H

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

keyboard or move the mouse to wake it up.

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

NOTE: Dell E1912H monitor is **ENERGY STAR**®-compliant.

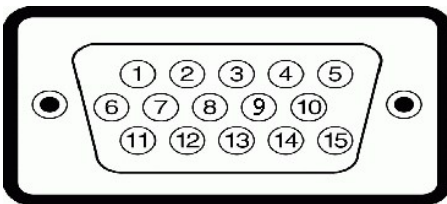* Zero power consumption in OFF mode can only be achieved by disconnecting the main cable from the monitor.

** 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

Flat Panel Specifications

Model number	Dell E1912H monitor
Screen type	Active matrix - TFT LCD
Panel Type	TN
Screen dimensions	47.0 cm (18.5 inches) (18.5-inch wide viewable image size)
Preset display area:	
ı Horizontal	409.8 mm (16.14 inches)
ı Vertical	230.4 mm (9.07 inches)
Pixel pitch	0.300 mm
Viewing angle:	
ı Horizontal	**170 ° typical**
ı Vertical	**160 ° typical**
Luminance output	250 cd/m ² (typical)
Contrast ratio	1000 to 1 (typical)
Faceplate coating	Antiglare with hard-coating 3H
Backlight	LED light bar system
Response Time	5 ms typical (black to white)
Color Depth	16.7 mil colors
Color Gamut	82 % (typical) *

* [E1912H] color gamut (typical) is based on CIE1976 (82 %) and CIE1931 (72 %) test standards.

Resolution Specifications

Model number	Dell E1912H
Scan range	
ı Horizontal	30 kHz to 83 kHz (automatic)
ı Vertical	56 Hz to 75 Hz (automatic)
Maximum preset resolution	1366 x 768 at 60 Hz

Electrical Specifications

Model number	Dell E1912H monitor
Video input signals	Analog RGB: 0.7 Volts +/- 5 %, 75 ohm input impedance
Synchronization input signals	Separate horizontal and vertical synchronizations, polarity-free TTL level, SOG (Composite SYNC on green)
AC input voltage / frequency / current	100 VAC to 240 VAC/50 Hz or 60 Hz $\pm$ 3 Hz/1.5 A (Max.)
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	70.0	28.3	-/+
VESA, 640 x 480	31.5	60.0	25.2	-/-
VESA, 640 x 480	37.5	75.0	31.5	-/-
VESA, 800 x 600	37.9	60.0	40.0	+/+
VESA, 800 x 600	46.9	75.0	49.5	+/+
VESA, 1024 x 768	48.4	60.0	65.0	-/-
VESA, 1024 x 768	60.0	75.0	78.8	+/+
VESA, 1280 x 1024	80.0	75.0	135.0	+/+
VESA, 1366 x 768	47.7	60.0	85.5	+/+

Physical Characteristics

The following table lists the monitor's physical characteristics:

Model Number	Dell E1912H monitor
Connector type	D-subminiature, blue connector
Signal cable type	Analog: Detachable, D-Sub, 15 pins, shipped attached to the monitor
Dimensions: (with stand)	
ι Height	349.0 mm (13.74 inches)
ι Width	445.4 mm (17.54 inches)
ι Depth	163.5 mm (6.44 inches)
Dimensions: (without stand)	
ι **Height**	266.0 mm (10.47 inches)
ι Width	445.4 mm (17.54 inches)
ι Depth	52.0 mm (2.05 inches)
Stand dimensions:	
ι Height	141.4 mm (5.57 inches)
ι Width	236.0 mm (9.29 inches)
ι Depth	163.5 mm (6.44 inches)
Weight:	
Weight with packaging	3.94 kg (8.69 lb)
Weight with stand assembly and cables	3.26 kg (7.19 lb)
Weight without stand assembly (For wall mount or VESA mount considerations - no cables)	2.64 kg (5.82 lb)
Weight of stand assembly	0.33 kg (0.73 lb)

Environmental Characteristics

The following table lists the environmental conditions for your monitor:

Model Number	Dell E1912H monitor
Temperature	

ι Operating	0 ° C to 40 ° C (32 ° F to 104 ° F)
ι 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	
ι Operating	10 % to 80 % (non-condensing)
ι Non-operating	Storage: 5 % to 90 % (non-condensing) Shipping: 5 % to 90 % (non-condensing)
Altitude	
ι Operating	3,048 m (10,000 ft) max
ι Non-operating	10,668 m (35,000 ft) max
Thermal dissipation	75.09 BTU/hour (maximum) 61.43 BTU/hour (typical)

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 Dat (EDID) using Display Data Channel (DDC) protocols so that the system can configure itself and optimize the monitor settings. Most monitor installations are autor You can select different settings if required.

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 pix 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, 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 norma within competitive standards. For more information, see Dell Support site at: support.dell.com.

Maintenance Guidelines

Caring for Your Monitor

⚠ **CAUTION: Read and follow the safety instructions before cleaning the monitor.**

⚠ **CAUTION: Before cleaning the monitor, unplug the monitor power cable from the electrical outlet.**

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

- ι 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.
- ι 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.
- ι 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.
- ι Handle your monitor with care as a darker-colored monitor may scratch and show white scuff marks more than a lighter-colored monitor.
- ι 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.

Back to Contents Page

Appendix

Dell™ E1912H Monitor User's Guide

- Safety Instructions
- FCC Notice (U.S. Only) and Other Regulatory Information
- Contacting Dell

⚠️WARNING: 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 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

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

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

Help on PowerNap Installation

To install PowerNap succesfully, follow these steps:-

1. Check Operating System Requirements	Windows XP, Windows Vista®, Windows® 7
2. Install Entech API	Install
3. Install PowerNap Software	Install

Setting Up Your Monitor
Dell™ E1912H monitor

If you have a Dell™ desktop or a Dell™ portable computer with internet access

1. Go to **http://support.dell.com,** enter your service tag, and download the latest driver for your graphics card.

2. After installing the drivers for your graphics adapter, attempt to set the resolution to 1366 x 768 again.

NOTE: If you are unable to set the resolution to 1366 x 768, please contact Dell™ to inquire about a graphics adapter that supports these resolutions.

Setting Up Your Monitor
Dell™ E1912H monitor

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

In Windows XP:

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

2. Select the **Settings** tab.

3. Select **Advanced**.

4. Identify your graphics controller supplier from the description at the top of the window (e.g. NVIDIA, ATI, Intel etc.).

5. Please refer to the graphics card provider website for updated driver (for example, http://www.ATI.com OR http://www.NVIDIA.com).

6. After installing the drivers for your Graphics Adapter, attempt to set the resolution to **1366 x 768** again.

In Windows Vista® or Windows 7:

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

2. Click **Change Display Settings**.

3. Click **Advanced Settings**.

4. Identify your graphics controller supplier from the description at the top of the window (e.g. NVIDIA, ATI, Intel etc.).

5. Please refer to the graphics card provider website for updated driver (for example, http://www.ATI.com OR http://www.NVIDIA.com).

6. After installing the drivers for your Graphics Adapter, attempt to set the resolution to **1366 x 768** again.

NOTE: If you are unable to set the resolution to 1366 x 768, please contact the manufacturer of your computer or consider purchasing a graphics adapter that will support the video resolution of 1366 x 768.
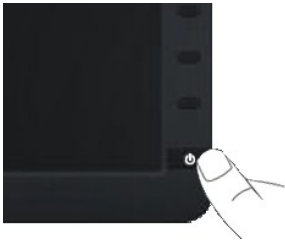
Operating the Monitor

Dell™ E1912H Monitor User's Guide

- Using the Front Panel Controls
- Using the On-Screen Display (OSD) Menu
- PowerNap Software
- Setting the Maximum Resolution
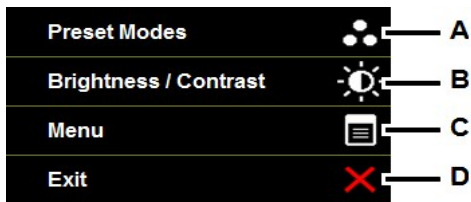- Using the Dell Soundbar (Optional)
- Using the Tilt

Power On the Monitor

Press the ⏻ button to turn on the monitor.

Using the Front Panel Controls

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

Front panel Key	Description
A — Preset modes	Use the Preset modes key to choose from a list of preset color modes. See Using the OSD Menu.
B — Brightness / Contrast	Use the Brightness / Contrast key to direct access to the "Brightness" and "Contrast" control menu.
C — 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 Key

Use the keys on the front of the monitor to adjust the image settings.
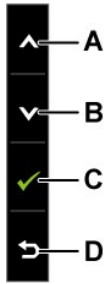
	Front panel Key	Description
A	**Up**	Use the Up key to adjust (increase ranges) items in the OSD menu.
B	**Down**	Use the Down key to adjust (decrease ranges) items in the OSD menu.
C	**OK**	Use the OK key to confirm your selection.
D	**Back**	Use the Back key to go back to the previous menu.

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
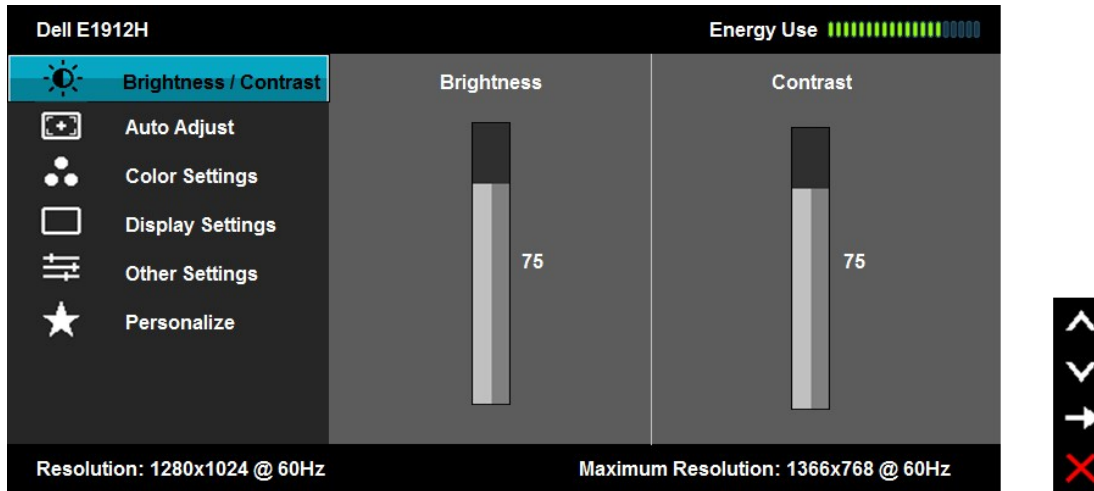
2. Press the ⌃ and ⌄ buttons to toggle between options in the Menu. As you move from one icon to another, the option name is highlighted.

3. To select the highlighted item on the menu press the ➡ button again.

4. Press the ⌃ and ⌄ buttons to select the desired parameter.

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 ↩ 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 Submenus	Description
	Energy Use	This meter shows the energy level being consumed by the monitor in real time.
☀	BRIGHTNESS/CONTRAST	Use the Brightness and Contrast menu to adjust the Brightness/Contrast.
	Brightness	Allows you to adjust the brightness or luminance of the 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. A and adjust contrast only if you need further adjustment. Press the ⌃ key to increase contrast and press the ⌄ key 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 monit current input:
		Dell E1912H Energy Use ‖‖‖‖‖‖‖‖
		Brightness / Contrast
		Auto Adjust Press ✓ to adjust the screen automatically.
		Color Settings
		Display Settings
		Other Settings
		Personalize
		Resolution: 1280x1024 @ 60Hz Maximum Resolution: 1366x768 @ 60
		Auto Adjustment in Progress...
		Auto Adjustment allows the monitor to self-adjust to the incoming video signal. After using Auto Adjustment, you can fu by using the Pixel Clock (Coarse) and Phase (Fine) controls under Image Settings.
		NOTE: *Auto Adjust does not occur if you press the button while there are no active video input signals or attached cables.*
	COLOR SETTINGS	Use the **Color Settings** menu to adjust the monitor's color settings.
		Dell E1912H Energy Use ‖‖‖‖‖‖‖‖
		Brightness / Contrast Input Color Format ▶ RGB
		Auto Adjust Preset Modes ▶ Standard
		Color Settings Reset Color Settings
		Display Settings
		Other Settings
		Personalize
		Resolution: 1280x1024 @ 60Hz Maximum Resolution: 1366x768 @ 60
	Input Color Format	Allows you to set the video input mode to: l **RGB**: Select this option if your monitor is connected to a computer or DVD player. l **YPbPr**: Select this option if your DVD player supports only YPbPr output.
	Preset Modes	Allows you to choose from a list of preset color modes.
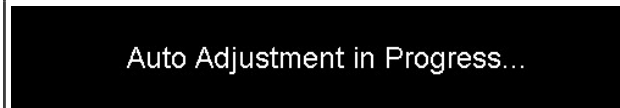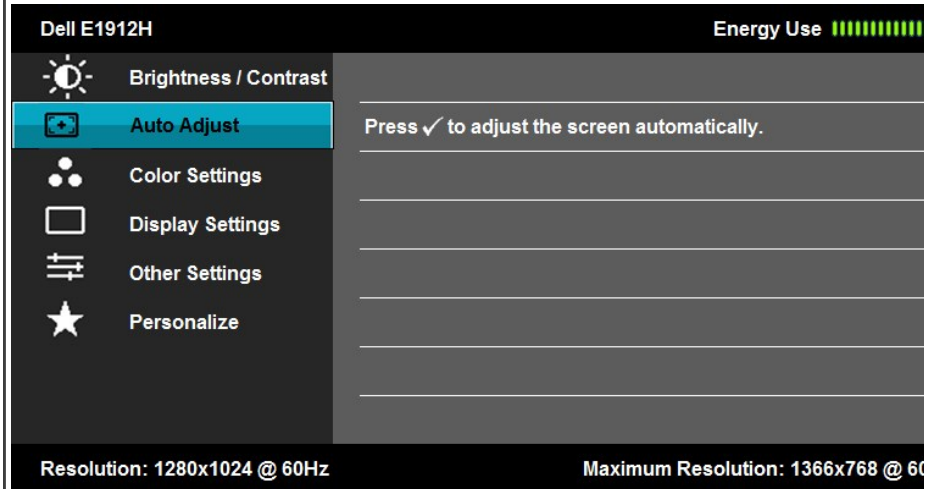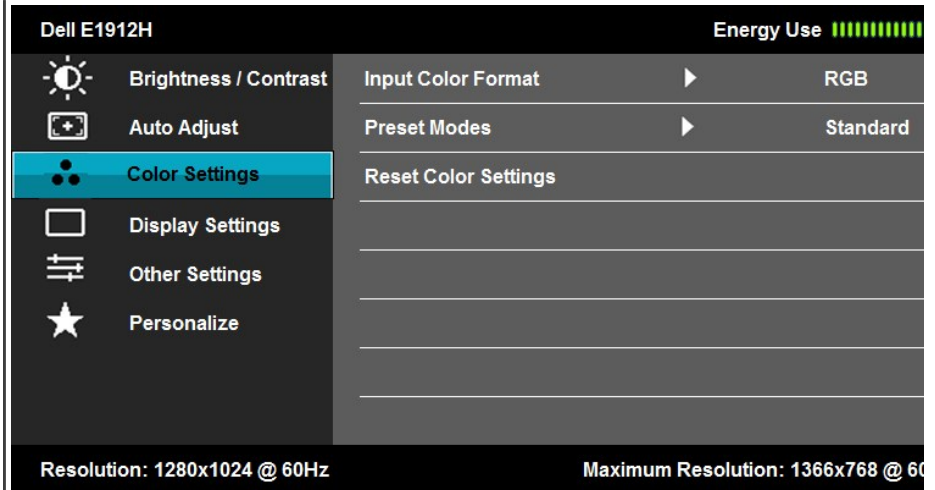
		Dell E1912H	Energy Use ||||||||||||
		-☼- Brightness / Contrast	**Input Color Format**
		[+] Auto Adjust	**Preset Modes**	✓ **Standard**
		⁖ Color Settings	**Reset Color Settings**	**Multimedia**
		▭ Display Settings		**Text**
		≡ Other Settings		**Warm**
		★ Personalize		**Cool**
				Custom Color
		Resolution: 1280x1024 @ 60Hz	Maximum Resolution: 1366x768 @ 60

- l **Standard**: Loads the monitor's default color settings. This is the default preset mode.
- l **Multimedia**: Loads color settings ideal for multimedia applications.
- l **Text**: Loads color settings ideal for text applications.
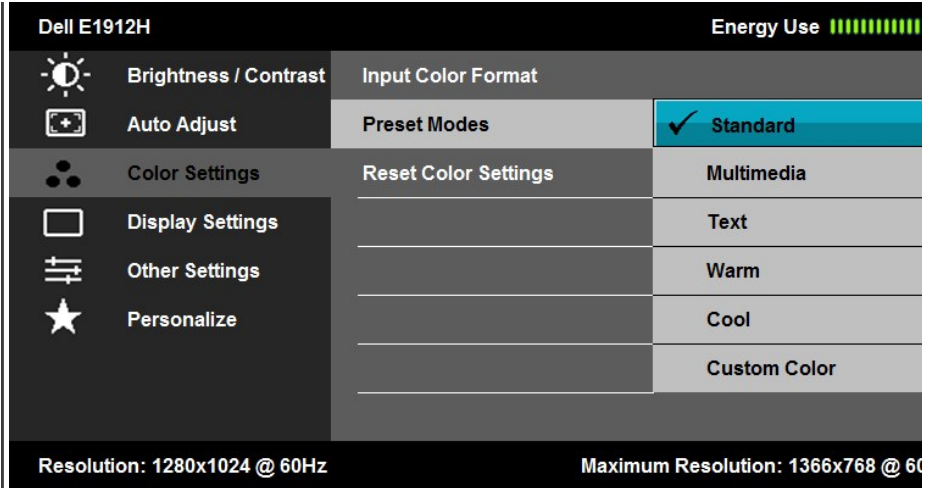- l **Warm**: Increases the color temperature. The screen appears warmer with a red/yellow tint.
- l **Cool**: Decreases the color temperature. The screen appears cooler with a blue tint.
- l **Custom Color**: Allows you to manually adjust the color settings. Press the ⊙ and ⊙ keys to adjust the Red, (and create your own preset color mode.
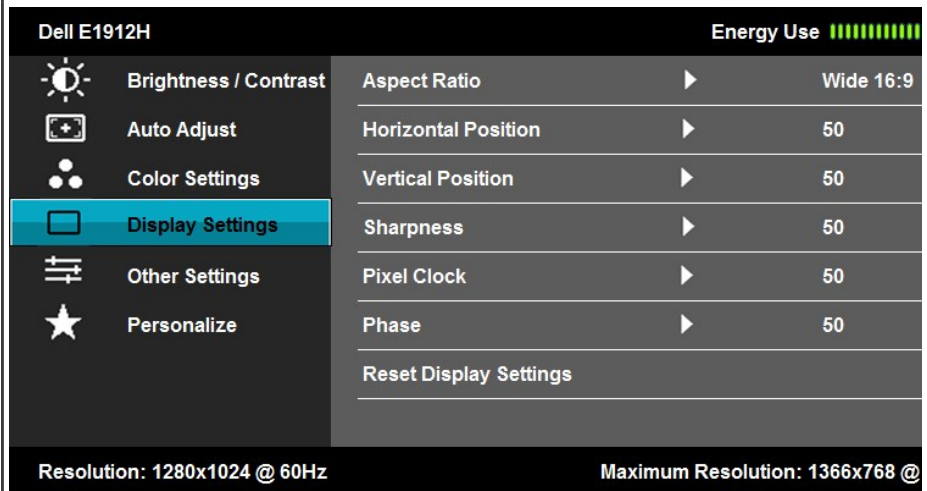
Reset Color Settings	Resets your monitor's color settings to the factory defaults.

	DISPLAY SETTINGS	Use the **Displays Settings** menu to adjust the monitor's display settings.

	Dell E1912H	Energy Use ||||||||||||
-☼- Brightness / Contrast	**Aspect Ratio**	▶	**Wide 16:9**
[+] Auto Adjust	**Horizontal Position**	▶	50
⁖ Color Settings	**Vertical Position**	▶	50
▭ **Display Settings**	**Sharpness**	▶	50
≡ Other Settings	**Pixel Clock**	▶	50
★ Personalize	**Phase**	▶	50
	Reset Display Settings		
Resolution: 1280x1024 @ 60Hz	Maximum Resolution: 1366x768 @		

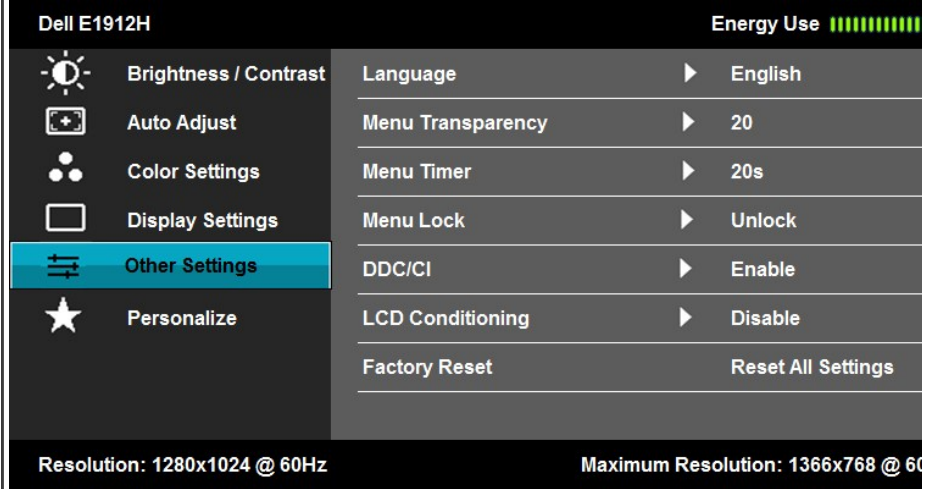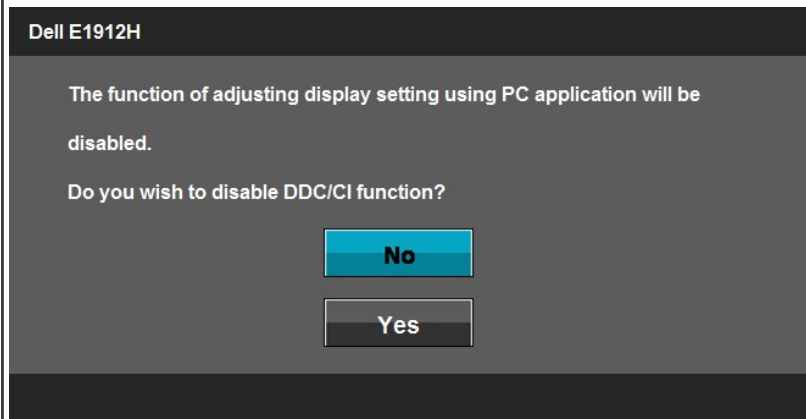| **Aspect Ratio**	Adjusts the image ratio as Wide 16:9, 4:3, or 5:4.
	NOTE: Wide 16:9 adjustment is not required at maximum preset resolution 1366 x 768.
Horizontal Position	Use the ⊙ or ⊙ buttons to adjust image left and right. Minimum is '0' (-). Maximum is '100' (+).
Vertical Position	Use the ⊙ or ⊙ buttons to adjust image up and down. Minimum is '0' (-). Maximum is '100' (+).
Sharpness	This feature can make the image look sharper or softer. Use ⊙ or ⊙ to adjust the sharpness from '0' to '100'.
Pixel Clock	The Phase and Pixel Clock adjustments allow you to adjust your monitor to your preference. Use ⊙ or ⊙ buttons to quality.

	Phase	If satisfactory results are not obtained using the Phase adjustment, use the Pixel Clock (coarse) adjustment and then
	Reset Display Settings	Select this option to restore default display settings.
	OTHER SETTINGS	Select this option to adjust the settings of the OSD, such as, the languages of the OSD, the amount of time the menu r so on.

Dell E1912H   Energy Use ||||||||||

- ☀ **Brightness / Contrast**   **Language**   ▶ **English**
- ⊡ **Auto Adjust**   **Menu Transparency** ▶ **20**
- ⋯ **Color Settings**   **Menu Timer**   ▶ **20s**
- ▭ **Display Settings**   **Menu Lock**   ▶ **Unlock**
- ≡ **Other Settings**   **DDC/CI**   ▶ **Enable**
- ★ **Personalize**   **LCD Conditioning**   ▶ **Disable**
                                  Factory Reset   **Reset All Settings**

Resolution: 1280x1024 @ 60Hz   Maximum Resolution: 1366x768 @ 60

	Language	Allows you to set the OSD display to one of eight languages: English, Spanish, French, German, Japanese, Brazilian Por Chinese or Russian.
	Menu Transparency	Allows you to adjust the OSD background from opaque to transparent.
	Menu Timer	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 increments, from 5 to 60 seconds.
	Menu Lock	Controls user access to adjustments. When **Lock** is selected, no user adjustments are allowed. All keys are locked exc **NOTE:** When the OSD is locked, pressing the menu key takes you directly to the OSD settings menu, with 'OSD Lock' p press and hold ↺ key for 10 seconds to unlock and allow user access to all applicable settings.
	DDC/CI	DDC/CI (Display Data Channel/Command Interface) allows a software on your computer to adjust the monitor display s brightness, color balance etc. **Enable** (Default): Optimizes the performance of your monitor and provides a better customer experience. **Disable**: Disables the DDC/CI option and the following message appears on the screen.

Dell E1912H

The function of adjusting display setting using PC application will be

disabled.

Do you wish to disable DDC/CI function?

    No

    Yes

	LCD Conditioning	This feature will help reduce minor cases of image retention. If an image appears to be stuck on the monitor, select **LCD Conditioning** to help eliminate any image retention. Using 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 E1912H

The feature will help reduce minor cases of image retention. Depending on

the degree of retention, the program may take some time to run.

Do you wish to continue?

| No |
| Yes |

| **Factory Reset** | Resets all OSD settings to the factory preset values. |

| **PERSONALIZE** | Select this option allows you to set two shortcut keys. |

Dell E1912H   Energy Use ▮▮▮▮▮▮▮▮▮▮▮

☀ Brightness / Contrast	Shortcut Key 1	▶	Preset Modes
⊡ Auto Adjust	Shortcut Key 2	▶	Brightness / Contras
⦿ Color Settings	Reset Personalization		
▭ Display Settings			
⇶ Other Settings			
★ Personalize			

Resolution: 1280x1024 @ 60Hz   Maximum Resolution: 1366x768 @

| **Shortcut Key 1** | User can select from "Preset Modes", "Brightness/Contrast", "Auto Adjust", "Aspect Ratio" and set as shortcut key. |

Dell E1912H   Energy Use ▮▮▮▮▮▮▮▮▮▮▮

☀ Brightness / Contrast	Shortcut Key 1	✓ Preset Modes
⊡ Auto Adjust	Shortcut Key 2	Brightness / Contrast
⦿ Color Settings	Reset Personalization	Auto Adjust
▭ Display Settings		Aspect Ratio
⇶ Other Settings		
★ Personalize		

Resolution: 1280x1024 @ 60Hz   Maximum Resolution: 1366x768 @ 60

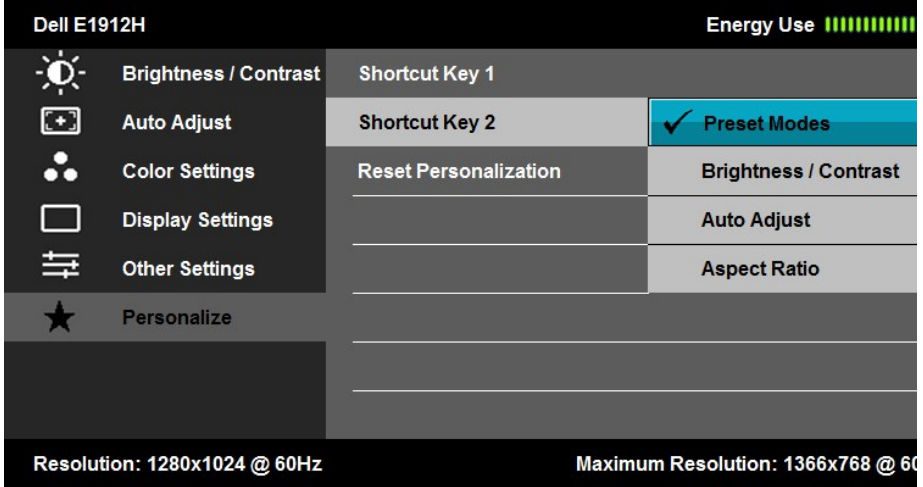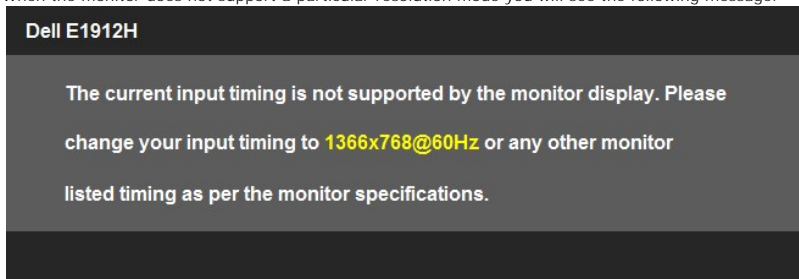| **Shortcut Key 2** | User can select from "Preset Modes", "Brightness/Contrast", "Auto Adjust", "Aspect Ratio" and set as shortcut key. |

Dell E1912H			Energy Use |||||||||||
☀ Brightness / Contrast	Shortcut Key 1		
⊡ Auto Adjust	Shortcut Key 2	✓ Preset Modes	
⋮ Color Settings	Reset Personalization	Brightness / Contrast	
▭ Display Settings		Auto Adjust	
⇌ Other Settings		Aspect Ratio	
★ Personalize			
Resolution: 1280x1024 @ 60Hz		Maximum Resolution: 1366x768 @ 60	

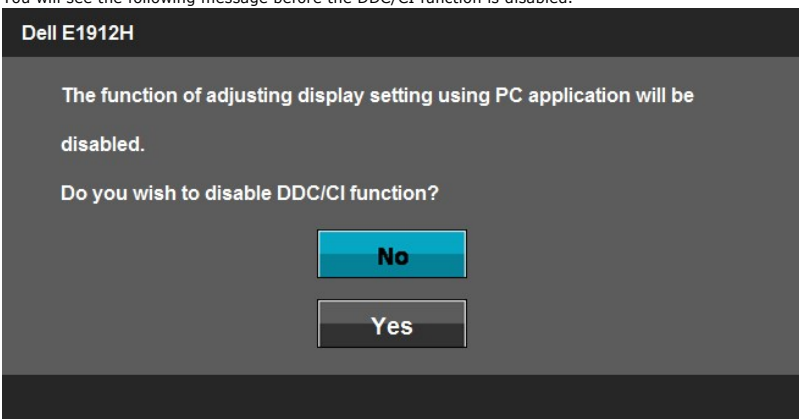| Reset Personalization	Allows you to restore shortcut key to the default setting.

OSD Messages

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

Dell E1912H

The current input timing is not supported by the monitor display. Please

change your input timing to **1366x768@60Hz** or any other monitor
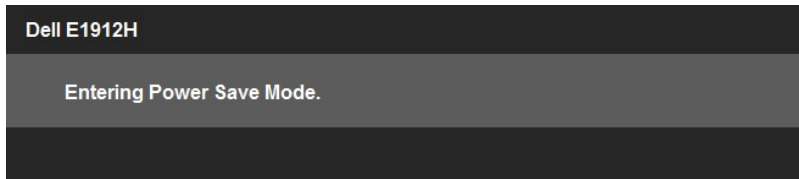
listed timing as per the monitor specifications.

This means that the monitor cannot synchronize with the signal that it is receiving from the computer. See Monitor Specifications for the
horizontal and vertical frequency ranges addressable by this monitor. Recommended mode is 1366 x 768.

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

Dell E1912H

The function of adjusting display setting using PC application will be

disabled.

Do you wish to disable DDC/CI function?
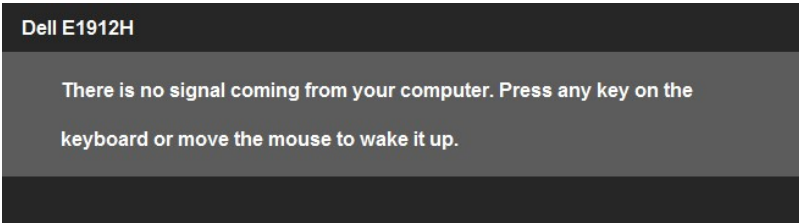
No

Yes

When the monitor enters the Power Save mode, the following message appears:
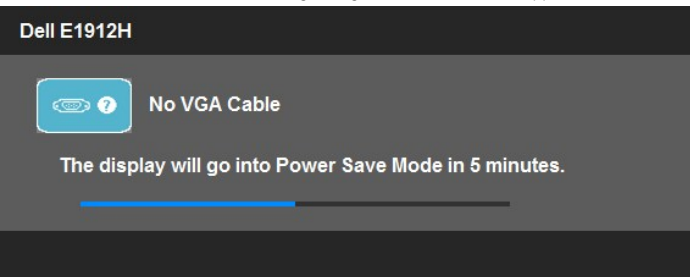
Activate the computer and wake up the monitor to gain access to the [OSD](OSD).

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

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

See Solving Problems for more information.

___

PowerNap Software

The PowerNap software comes in the CD that shipped with the monitor you have just purchased.

This software provides Power Saving mode with your Monitor. The Power Saving mode allows user to select either "Screen dim" or " Sleep" when your PC goes to the screen saver mode.

1. Screen dim - monitor dims to minimum brightness level when the PC is in the screen saver mode.

2. Sleep - monitor goes into the sleep mode when the PC is in the screen saver mode.

The PowerNap software provides an option to check if there is a new update. Please check periodically if there is a new update for your software.

✍ **NOTE:** After installation, one desktop shortcut and one shortcut under "Start" for PowerNap are created.
OS support: Windows XP (32 and 64 bits), Vista (32 and 64 bits), Windows 7 (32 and 64 bits)
Video interface support: VGA and DVI only.

The latest version of the PowerNap Software can be downloaded from Dell's website.

Steps to download software:

1. Go to http://www.support.dell.com
2. Select "Monitor Drivers" under "Drivers and downloads" tab
3. Select your Monitor Model – PowerNap Application
4. Download and install application

Setting the Maximum Resolution

To set the Maximum resolution for the monitor:

Windows XP:

1. Right-click on the desktop and select **Properties**.
2. Select the **Settings** tab.
3. Set the screen resolution to **1366 x 768**.
4. Click **OK**.

Windows Vista® or Windows® 7:

1. Right-click on the desktop and select **Personalization**.
2. Click **Change Display Settings**.
3. Move the slider-bar to the right by pressing and holding left-mouse button and adjust the screen resolution to **1366 x 768**.
4. Click **OK**.

If you do not see 1366 x 768 as an option, you may need to update your graphics card driver. Depending on your computer, complete one of the following procedures:

- l If you have a Dell desktop or portable computer:
  - o Go to **support.dell.com**, enter your service tag, and download the latest driver for your graphics card.
- l If you are using a non-Dell computer (portable or desktop):
  - o Go to the support site for your computer and download the latest graphic drivers.
  - o Go to your graphics card website and download the latest graphic drivers.

Using the Dell Soundbar

The Dell Soundbar is a stereo two channel system, mountable on Dell Flat Panel Displays. The Soundbar has a rotary volume and on/off control to adjust the overall system level, a LED for power indication, and two audio headset jacks.
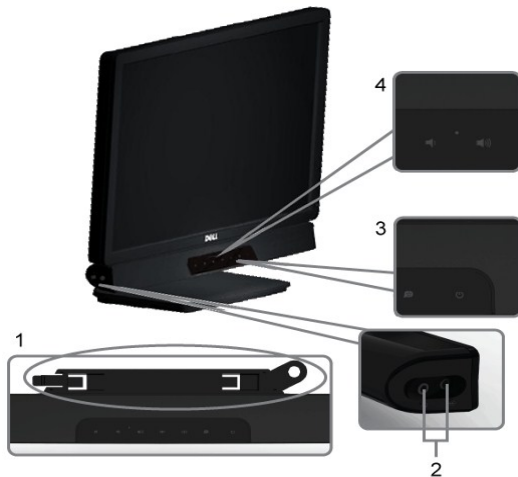
1.	Attach mechanism
2.	Headphone connectors
3.	Power indicator
4.	Power/Volume control

Using the Tilt

Tilt

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

21°   **4°**

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

Back to Contents Page

Setting Up Your Monitor

Dell™ E1912H monitor

Setting the display resolution to 1366 x 768 (Maximum)

For optimal display performance while using the Microsoft Windows operating systems, set the display resolution to 1366 x 768 pixels by performing the following steps:

In Windows XP:

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

2. Select the **Settings** tab.

3. Move the slider-bar to the right by pressing and holding the left-mouse button and adjust the screen resolution to **1366 x 768**.

4. Click **OK**.

In Windows Vista® or Windows® 7:

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

2. Click **Change Display Settings**.

3. Move the slider-bar to the right by pressing and holding the left-mouse button and adjust the screen resolution to **1366 x 768**.

4. Click **OK**.

 If you do not see **1366 x 768** 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.

Dell™ E1912H **monitor**

Model E1912Hf/E1912Hc

April 2011 Rev. A01

Setting Up the Monitor
Dell™ E1912H Monitor User's Guide

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

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

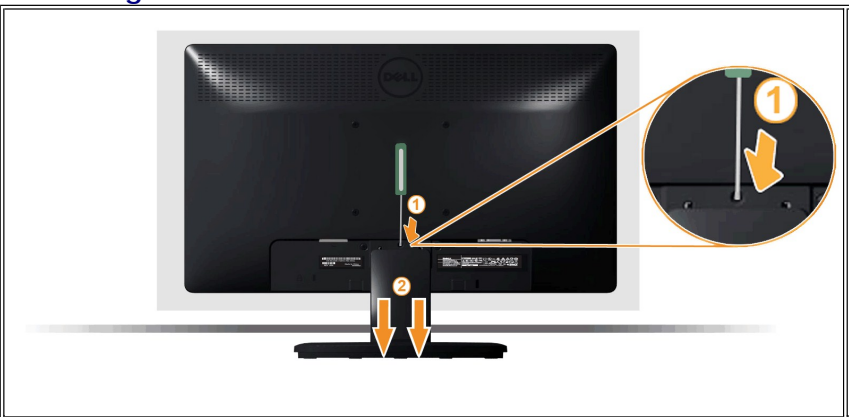To connect your monitor to the computer:

1. Turn off your computer and disconnect the power cable.

2. Connect the blue display connector cable to the corresponding video port on the back of your computer.

Connecting the Blue VGA Cable

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

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.

Attaching the Dell Soundbar

⚠ **CAUTION:** Do not use with any device other than the Dell Soundbar.

To attach the soundbar:

1. Working from the back of the monitor, attach Soundbar by aligning the two slots with the two tabs along the bottom of the monitor.

2. Slide the Soundbar to the left until it snaps into place.

3. Connect the Soundbar with the DC power connector from the Soundbar Power Adapter.

4. Insert the mini stereo plug from the back of the Soundbar into the computer's audio output jack.

Troubleshooting

Dell™ E1912H monitor

- Self-Test
- Built-in Diagnostics
- Common Problems
- Product Specific Problems
- Soundbar Problems

⚠ **WARNING:** Before you begin any of the procedures in this section, follow the Safety Instructions.

Self-Test

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

1. Turn off both your computer and the monitor.
2. Unplug the video cable from the back of the computer. 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 blue. Also, depending upon the selected input, one of the dialogs shown below will continuously scroll through the screen.
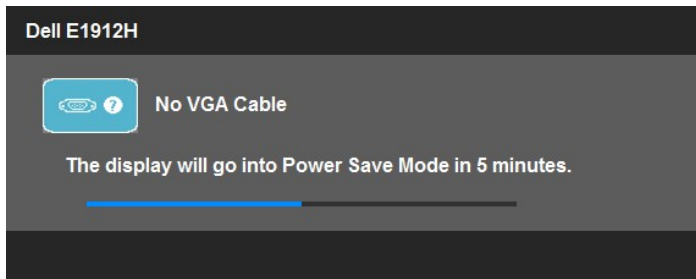
4. This box also appears during normal system operation, if the video cable becomes disconnected or damaged. The monitor will enter **Power Save Mode after 5 minutes** if left at this state.
5. Turn off your monitor and reconnect the video cable; then turn on both your computer and the monitor.

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 Experience	Possible Solutions
No Video/Power LED off	No picture	l Ensure that the video cable connecting the monitor and the computer is properly connected and secure. l Verify that the power outlet is functioning properly using any other electrical equipment. l Ensure that the power button is depressed fully.
No Video/Power LED on	No picture or no brightness	l Increase brightness & contrast controls via OSD. l Perform monitor self-test feature check. l Check for bent or broken pins in the video cable connector. l Run the built-in diagnostics.
Poor Focus	Picture is fuzzy, blurry, or ghosting	l Perform Auto Adjust via OSD. l Adjust the Phase and Pixel Clock controls via OSD. l Eliminate video extension cables. l Reset the monitor to Factory Settings. l Change the video resolution to the correct aspect ratio (16:9).
Shaky/Jittery Video	Wavy picture or fine movement	l Perform Auto Adjust via OSD. l Adjust the Phase and Pixel Clock controls via OSD. l Reset the monitor to Factory Settings. l Check environmental factors. l Relocate the monitor and test in another room.
Missing Pixels	LCD screen has spots	l Cycle power on-off. l 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: **support.dell.com**.
Stuck-on Pixels	LCD screen has bright spots	l Cycle power on-off. l 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: **support.dell.com**.
Brightness Problems	Picture too dim or too bright	l Reset the monitor to Factory Settings. l Auto Adjust via OSD. l Adjust brightness & contrast controls via OSD.
Geometric Distortion	Screen not centered correctly	l Reset the monitor to Factory Settings. l Auto Adjust via OSD. l Adjust brightness & contrast controls via OSD.
Horizontal/Vertical Lines	Screen has one or more lines	l Reset the monitor to Factory Settings. l Perform Auto Adjust via OSD. l Adjust Phase and Pixel Clock controls via OSD. l Perform monitor self-test feature check and determine if these lines are also in self-test mode. l Check for bent or broken pins in the video cable connector.
Synchronization Problems	Screen is scrambled or appears torn	l Reset the monitor to Factory Settings. l Perform Auto Adjust via OSD. l Adjust Phase and Pixel Clock controls via OSD. l Perform monitor self-test feature check to determine if the scrambled screen appears in self-test mode. l Check for bent or broken pins in the video cable connector. l Restart the computer in the *safe mode*.
Safety-Related Issues	Visible signs of smoke or sparks	l Do not perform any troubleshooting steps. l Contact Dell immediately.
Intermittent Problems	Monitor malfunctions on & off	l Ensure that the video cable connecting the monitor to the computer is connected properly and is secure. l Reset the monitor to Factory Settings. l Perform monitor self-test feature check to determine if the intermittent problem occurs in self-test mode.
Missing Color	Picture missing color	l Perform monitor self-test feature check. l Ensure that the video cable connecting the monitor to the computer is connected properly and is secure. l Check for bent or broken pins in the video cable connector.
Wrong Color	Picture color not good	l Change the Color Setting Mode in the Color Settings OSD to Graphics or Video depending on the application.

		l 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. l Change the Input Color Format to PC RGB or YPbPr in the Advance Setting OSD.
Image retention from a static image left on the monitor for a long period of time	Faint shadow from the static image displayed appears on the screen	l Use the Power Management feature to turn off the monitor at all times when not in use (for more information, see Power Management Modes). l Alternatively, use a dynamically changing screensaver.

Product Specific Problems

Specific Symptoms	What You Experience	Possible Solutions
Screen image is too small	Image is centered on screen, but does not fill entire viewing area	l Reset the monitor to Factory Settings.
Cannot adjust the monitor with the buttons on the front panel	OSD does not appear on the screen	l Turn off the monitor, unplug the power cord, plug back, and then turn on the monitor. l Check if the OSD menu is locked. If yes, press and hold ⤺ key for 10 seconds to unlock. See Menu Lock.
No Input Signal when user controls are pressed	No picture, the LED light is blue. When you press "up", "down" or "Menu" key, the message " No input signal" will appear.	l 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. l **Check whether the signal cable is plugged in properly. Re**-plug the signal cable if necessary. l 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	l Due to different video formats (aspect ratio) of DVDs, the monitor may display in full screen. l Run the built-in diagnostics.

Dell™ Soundbar Problems

Common Symptoms	What You Experience	Possible Solutions
No sound for system where the Soundbar draws power from an AC adapter	No power to Soundbar - the power indicator is off	l Turn the Power/Volume knob on the Soundbar clockwise to the middle position; check if the power indicator (green LED) on the front of the Soundbar is illuminated. l Confirm that the power cable from the Soundbar is plugged into the adapter.
No Sound	Soundbar has power - power indicator is on	l Plug the audio line-in cable into the computer's audio out jack. l Set all volume controls to their maximum and ensure that the mute option is not enabled. l Play some audio content on the computer (example, audio CD, or MP3). l Turn the Power/Volume knob on the Soundbar clockwise to a higher volume setting. l Clean and reseat the audio line-in plug. l 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	l Clear any obstructions between the Soundbar and the user. l Confirm that the audio line-in plug is completely inserted into the jack of the sound card. l Set all Windows volume controls to their midpoints. l Decrease the volume of the audio application. l Turn the Power/Volume knob on the Soundbar counter-clockwise to a lower volume setting. l Clean and reseat the audio line-in plug. l Troubleshoot the computer's sound card. l Test the Soundbar using another audio source (For example: portable CD player, MP3 player). l Avoid using an audio cable extension or audio jack converter.
Distorted Sound	Other audio source is used	l Clear any obstructions between the Soundbar and the user. l Confirm that the audio line-in plug is completely inserted into the jack of the audio source. l Decrease the volume of the audio source. l Turn the Power/Volume knob on the Soundbar counter-clockwise to a lower volume setting. l Clean and reseat the audio line-in plug.
Unbalanced Sound Output	Sound from only one side of Soundbar	l Clear any obstructions between the Soundbar and the user. l Confirm that the audio line-in plug is completely inserted into the jack of the sound card or audio source. l Set all Windows audio balance controls (L-R) to their midpoints. l Clean and reseat the audio line-in plug. l Troubleshoot the computer's sound card. l Test the Soundbar using another audio source (For example: portable CD player, MP3 player).
Low Volume	Volume is too low	l Clear any obstructions between the Soundbar and the user. l Turn the Power/Volume knob on the Soundbar clockwise to the maximum volume setting. l Set all Windows volume controls to their maximum. l Increase the volume of the audio application. l Test the Soundbar using another audio source (For example: portable CD player, MP3 player)