Dell™ G2410H Flat Panel Monitor User's Guide

About Your Monitor Setting Up the Monitor Operating the Monitor Troubleshooting Appendix

Notes, Notices, and Cautions

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

SNOTICE: A NOTICE indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

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

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Model G2410t.

December 2009 Rev. A00

About Your Monitor Dell[™] G2410H Flat Panel Monitor User's Guide

- Package Contents
- Product Features
- Identifying Parts and Controls
- <u>Monitor Specifications</u>
- Plug and Play Capability
- <u>Maintenance Guidelines</u>

Package Contents

Your monitor ships with the components shown below. Ensure that you have received all the components and contact Dell if something is missing.

💋 NOTE: Some items may be optional and may not ship with your Monitor. Some features or media may not be available in certain countries.



Product Features

The Dell^m G2410H flat panel display has an active matrix, thin-film transistor (TFT), liquid crystal display (LCD), and LED backlight. The monitor features

include:

- 24-inch (609.70 mm) viewable area display. 1920 x 1080 resolution, plus full-screen support for lower resolutions.
- Wide viewing angle to allow viewing from a sitting or standing position, or moving side-to-side.
- Tilt, swivel and vertical extension adjustment capability.
- Plug and play capability if supported by your system.
- On-Screen Display (OSD) adjustments for ease of set-up and screen optimization.
- Software and documentation media includes an information file (INF), Image color Matching File (ICM), PowerNap software application and product documentation.
- Energy Saver feature for Energy Star compliance.
- Asset Management Capable.
- Intelligent ambient light sensor (Energy Smart Plus and Energy Smart mode) which automatically adjusts the screen-brightness level in real-time in accordance to how well-lit the surrounding environment is.
- Dynamic dimming (Energy Smart Plus mode) which automatically reduces the screen-brightness level when the displayed image contains a high proportion of bright areas.
- High Dynamic Contrast Ratio (DCR).
- 0.15 W standby power when in sleep mode.^
- Power Efficiency up to 90%.
- Energy Gauge shows the energy level being consumed by the monitor in real time.
- EPEAT Gold rating.
- Reduction in Plastic Packaging.
- PowerNap Software included (comes in the CD attached with the monitor).
- Arsenic / Mercury Free.
- BFR/CFR/PVC Free. ^ ^
- ^Based on measurement of standby power consumption using VGA input.
- ^ ^ Excluding Power Cord, VGA, DVI cable.

Identifying Parts and Controls

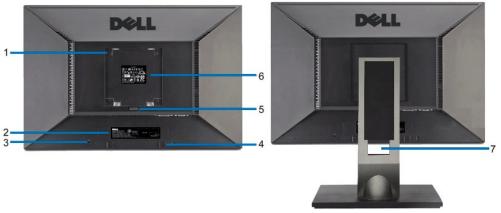
Front View



1 Ambient light Sensor Lens

- 2 Shortcut Key 1 / Up button
- 3 Shortcut Key 2 / Down button
- 4 OSD menu button / OK button
- 5 Back / Exit button
- Power button (with power light indicator) 6

Back View



Back view

Back view with monitor stand

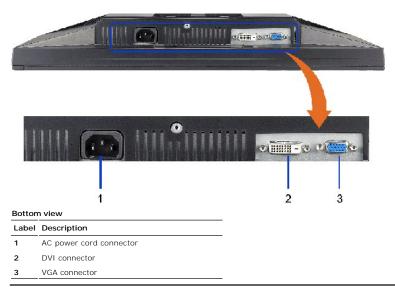
	Label	Description/Use
1	VESA [®] mounting holes (100 mm) (behind attached VESA plate)	Use to mount the monitor.
2	Barcode serial number label	Refer to this label if you need to contact Dell for technical support.
3	Security lock slot	Use a security lock with the slot to help secure your monitor.
4	Dell Soundbar mounting brackets	Attach the optional Dell Soundbar.
5	Stand removal button	Press to release the stand.
6	Regulatory rating label	Lists the regulatory approvals.
7	Cable management slot	Use to organize cables by placing them through the slot.

Side View



Left view

Bottom View



Monitor Specifications

Flat Panel Specifications

Model	G2410H
Screen type	Active matrix - TFT LCD
Panel type	TN
Screen dimensions	24 inches (24-inch viewable image size)
Preset display area:	
Horizontal	531.36 mm (20.92 inches)
Vertical	298.89 mm (11.77 inches)
Pixel pitch	0.277 mm
Viewing angle	160° (vertical) typ, 170° (horizontal) typ
Luminance output	250 cd/m ² (typ)
Contrast ratio	1000 to 1 (typ)
Dynamic contrast ratio	Up to 1,000,000 : 1 (typ)
Faceplate coating	Antiglare with hard-coating 3H
Backlight	W-LED system
Response Time	5ms typical
Color gamut (Typical)	80%*

* G2410H color gamut (typical) is based on CIE1976 (80%) and CIE1931 (68%) test standards.

Resolution Specifications

Horizontal scan range30 kHz to 83 kHz (automatic)Vertical scan range56 Hz to 75 Hz (automatic)	Model	G2410H
Vertical scan range 56 Hz to 75 Hz (automatic)	Horizontal scan range	30 kHz to 83 kHz (automatic)
	Vertical scan range	56 Hz to 75 Hz (automatic)
Maximum resolution 1920 x 1080 at 60 Hz	Maximum resolution	1920 x 1080 at 60 Hz

Video Supported Modes

Model	G2410H
Video display capabilities (DVI playback)	480i/480p/576i/576p/720p/1080i/1080p (Support HDCP)

Preset Display Modes

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal/Vertical)
720 x 400	31.47	70.0	28.3	-/+
640 x 480	31.47	60.0	25.1	-/-
640 x 480	37.5	75.0	31.5	-/-
800 x 600	37.88	60.0	40.0	+/+
800 x 600	46.88	75.0	49.5	+/+
1024 x 768	48.36	60.0	65.0	-/-
1024 x 768	60.02	75.0	78.7	+/+
1152 x 864	67.5	75.0	108.0	+/+
1280 x 1024	64.0	60.0	108.0	+/+
1280 x 1024	80.0	75.0	135.0	+/+
1920 x 1080	67.5	60.0	148.5	+/+

Electrical Specifications

Model	G2410H
Video input signals	Analog RGB, 0.7 Volts +/-5%, positive polarity at 75 ohm input impedance Digital DVI-D TMDS, 600 mV for each differential line, positive polarity at 50 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 to 240 VAC/50 or 60 Hz <u>+</u> 3 Hz/2.0 A (Max.)
Inrush current	120 V: 40 A (Max.) 240 V: 80 A (Max.)

Physical Characteristics

lodel	G2410H		
onnector type	15-pin D-subminiature, blue connector; DVI-D, white connector		
ignal cable type	Digital: Detachable, DVI-D, Solid pins, shipped detached from the monito Analog: Detachable, D-Sub, 15 pins, shipped attached to the monitor		
imensions (with stand)			
eight (extended)	463.81 mm (18.26 inches)		
eight (compressed)	363.81 mm (14.32 inches)		
/idth	570.75 mm (22.47 inches)		
epth	184.12 mm (7.25 inches)		
imensions (without stand)			
eight	338.35 mm (13.32 inches)		
/idth	570.75 mm (22.47 inches)		
epth	62.0 mm (2.44 inches)		
tand dimensions			
eight (extended)	363.82 mm (14.32 inches)		
eight (compressed)	323.52 mm (12.74 inches)		
/idth	279.92 mm (11.02 inches)		
epth	184.12 mm (7.25 inches)		
/eight			
/eight with packaging	17.47 lb (7.94 kg)		
leight with stand assembly and cables	13.33 lb (6.06 kg)		

Environmental Characteristics

Model	G2410H		
Temperature			
Operating	5° to 35°C (41° to 95°F)		
Non-operating	Storage: -20° to 60°C (-4° to 140°F) Shipping: -20° to 60°C (-4° 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	3,657.6 m (12,000 ft) max		
Non-operating	12,192 m (40,000 ft) max		
Thermal dissipation	98.977 BTU/hour (maximum) 68.26 BTU/hour (typical)		

Power Management Modes

If you have VESA's DPM[™] compliance display card or software installed in your PC, the monitor can automatically reduce its power consumption when not in use. This is referred to as *Power Save Mode*^{*}. If the computer detects input from 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	20 W (typical)/29 W (maximum)
Active-off mode	Inactive	Inactive	Blanked	Amber (breathing)	0.15 W^^
Switch off	-	-	-	Off	Less than 0.15 W

^^Based on measurement of standby power consumption using VGA input

The OSD will only function in the normal operation mode. When the **menu** or **plus** buttons are pressed in Active-off mode, one of the following messages will be displayed:

Analog Input In Power Save Mode. Press Computer Power Button or Any Key on Keyboard or Move Mouse OR

Digital Input In Power Save Mode. Press Computer Power Button or Any Key on Keyboard or Move Mouse

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



NOTE: This monitor is ENERGY STAR®-compliant as well as TCO '03 power management compatible.

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

Pin Assignments

VGA Connector

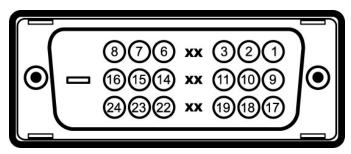
D
_

Pin 15-pin Side of the Connected Signal Cable Number

1	Video-Red			
2	Video-Green			

- 3 Video-Blue
- 4 GND
- 5 Self-test
- 6 GND-R
- 7 GND-G
- 8 GND-B
- 9 Computer 5V/3.3V
- 10 GND-sync
- 11 GND
- 12 DDC data
- 13 H-sync
- 14 V-sync
- 15 DDC clock

DVI Connector



Pin 24-pin Side of the Connected Signal Cable Number

TMDS RX2-
TMDS RX2+
TMDS Ground
Floating
Floating
DDC Clock
DDC Data
Floating
TMDS RX1-
TMDS RX1+
TMDS Ground
Floating
Floating
+5V/+3.3V power
Self test

- 16 Hot Plug Detect
- 17 TMDS RX0-
- 18 TMDS RX0+

19	TMDS Ground
20	Floating
21	Floating
22	TMDS Ground
23	TMDS Clock+
24	TMDS Clock-

Plug and Play Capability

You can install the monitor in any Plug and Play-compatible system. The monitor automatically provides the computer system with its Extended Display Identification Data (EDID) using Display Data Channel (DDC) protocols so the system can configure itself and optimize the monitor settings. Most monitor installations are automatic; you can select different settings if desired. For more information about changing the monitor settings, see <u>Operating the Monitor</u>.

LCD Monitor Quality and Pixel Policy

During the LCD monitor manufacturing process, it is not uncommon for one or more pixels to become fixed in an unchanging state. The visible result is a fixed pixel that appears as an extremely tiny dark or bright discolored spot. 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: support.dell.com

Maintenance Guidelines

Cleaning Your Monitor

CAUTION: Read and follow the <u>safety instructions</u> before cleaning the monitor.

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

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

- To clean your antistatic screen, lightly 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 lightly-dampened, warm cloth to clean the monitor. Avoid using detergent of any kind as some detergents leave a milky film on the monitor.
 If you notice white powder when you unpack your monitor, when it of with a cloth.
 Handle your monitor with care as dark-colored monitors may scratch and show white scuff marks more than light-colored monitors.
- To help maintain the best image quality on your monitor, use a dynamically changing screen saver and turn off your monitor when not in use. 1

Appendix

Dell™ G2410H Flat Panel Monitor User's Guide

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

Contacting Dell

CAUTION: Safety Instructions

CAUTION: 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: http://www.dell.com/regulatory_compliance.

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[™] G2410H Flat Panel 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 1920 X 1080 again.

🜠 NOTE: If you are unable to set the resolution to 1920 X 1080, please contact Dell[™] to inquire about a Graphics Adapter that supports these resolutions.

Setting Up Your Monitor

Dell™ G2410H Flat Panel Monitor

If you have non Dell[™] desktop, portable computer, or graphic 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. Refer to the graphic card provider website for updated driver (for example, <u>http://www.ATI.com</u> OR <u>http://www.NVIDIA.com</u>).
- 6. After installing the drivers for your Graphics Adapter, attempt to set the resolution to 1920 X 1080 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. Refer to the graphic card provider website for updated driver (for example, http://www.ATI.com (OR <a href="http://wwww.ATI.com"/http://www.ATI.com"/http://wwwwww
- 6. After installing the drivers for your Graphics Adapter, attempt to set the resolution to 1920 X 1080 again.

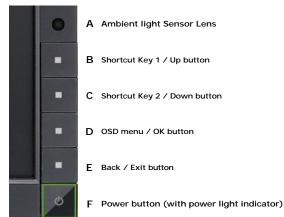
NOTE: If you are unable to set the resolution to 1920 x 1080, please contact the manufacturer of your computer or consider purchasing a graphics adapter t support the video resolution of 1920 x 1080.

Operating the Monitor Dell[™] G2410H Flat Panel 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, Swivel, and Vertical Extension

Using the Front Panel Controls

Use the control buttons on the front of the monitor to adjust the characteristics of the image being displayed. As you use these buttons to adjust the controls, an OSD shows the numeric values of the characteristics as they change.



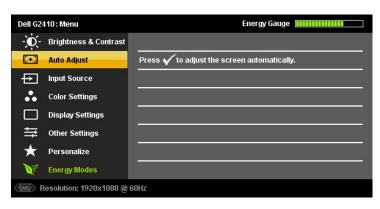
	Front panel Button	Description
A	Ambient light Sensor Lens	Intelligent ambient light sensor automatically adjust the screen brightness in real-time based on brightness of the environment. NOTE: For best result, keep any object clear from the sensor which may potentially block the light source to the sensor.
В	Shortcut Key 1 / Up button	Use this button to directly access the "Shortcut Key 1" menu or to increase the values of the selected menu option.
С	Shortcut Key 2 / Down button	Use this button to directly access the "Shortcut Key 2" menu or to decrease the values of the selected menu option.
D	OSD menu / OK button	Use the MENU button to launch the on-screen display (OSD) and select the OSD Menu. See <u>Accessing the Menu System</u> .
E	Back / Exit button	Go back to the main menu or exit the OSD main menu.
F	Power button (with power light indicator)	Use the Power button to turn the monitor on and off. The blue LED indicates the monitor is on and fully functional. A breathing amber LED indicates DPMS power save mode.

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.
 Press the MENU button to launch the OSD menu and display the main menu.

Main Menu for Analog (VGA) Input



or

Main Menu for Digital (DVI-D) Input

Dell G24	10 : Menu	Energy Gauge	
Ð.	Brightness & Contrast		
÷			
Ð	Input Source		
••	Color Settings		
	Display Settings		
ŧŧ	Other Settings		
\star	Personalize		
V	Energy Modes		
💷 R	esolution: 1920x1080 @	60Hz	

MOTE: AUTO ADJUST is only available when you use the analog (VGA) connector.

2. Press the and buttons to move between the setting options. As you move from one icon to another, the option name is highlighted. See the following table for a complete list of all the options available for the monitor.

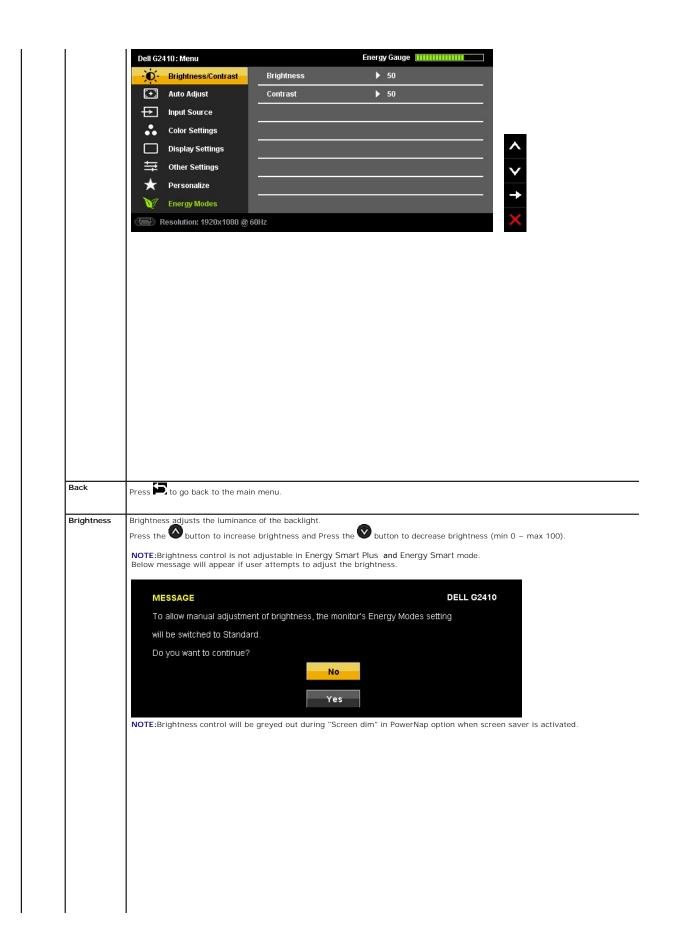
3. Press the \square or \checkmark button once to activate the highlighted option.

4. Press the \bigcirc and \bigotimes buttons to select the desired parameter.

5. Press D or V to enter the slide bar and then use the V or V button, according to the indicators on the menu, to make your changes.

6. Press the button once to return to the main menu to select another option or press the button two or three times to exit from the OSD menu.

Icon	Menu and Submenus	Description
	Energy Gauge	This meter shows the energy level being consumed by the monitor in real time. When the meter is green, it indicates the monitor is c level. When the energy consumed increases, the meter will change to yellow and subsequently red.
Ŏ.	BRIGHTNESS & CONTRAST	Use this menu to activate Brightness/Contrast adjustment.



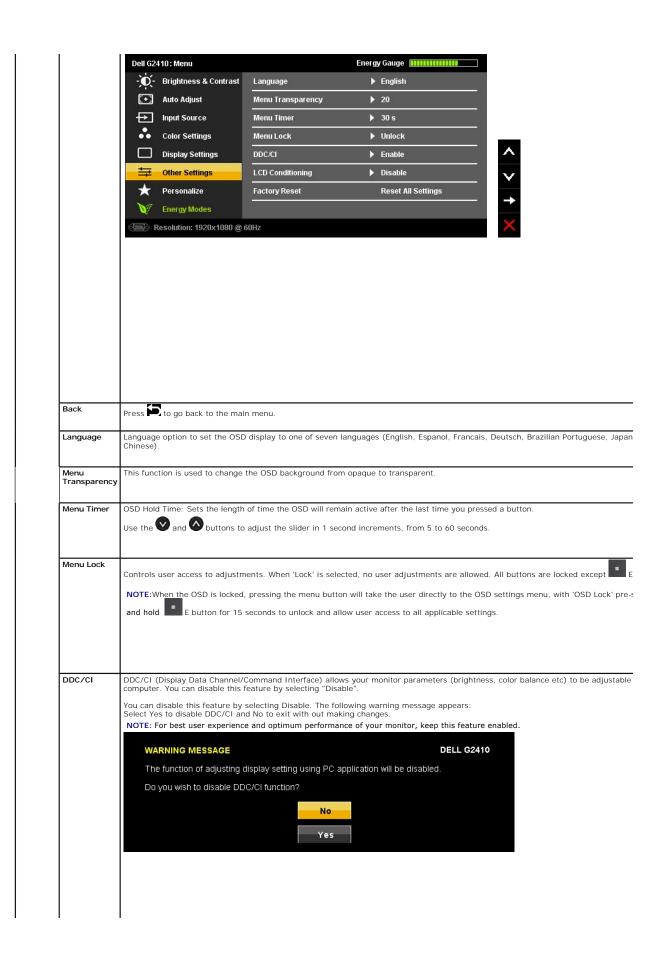
	Contrast	Adjust Brightness first, and then adjust Contrast only if further adjustment is necessary. Press the button to increase contrast and Press the button to decrease contrast (min 0 ~ max 100). The Contrast function adjusts the degree of difference between darkness and lightness on the monitor screen.
	Exit Menu	
		Press 🗖 to exit the OSD main menu.
	AUTO ADJUST	The set of our computer recognizes your monitor on startup, the Auto Adjustment function optimizes the display settings for use Auto Adjustment allows the monitor to set-adjust to the incoming video signal. After using Auto Adjustment, you can further ture you click and Phase controls under Displays Settings. The following dialog appears on a black screen as the monitor automatically adjust biolog 2010: Minut Frees to adjust the screen automatically. The reg Gauge Initiation is a black screen as the monitor automatically adjust where the source is a strategy in the screen automatically. The reg Modes The reg Modes The reg Modes Auto Adjustment in progress NOTE: In most cases, Auto Adjust produces the best image for your configuration. NOTE: AUTO ADJUST option is only available when you are using the analog (VGA) connector. When the output is only available when you are using the analog (VGA) connector.
	SOURCE	
1	L	<u> </u>

		Dell G2410: Menu		Energy Gauge	
		- O- Brightness & Contrast	🗸 Auto Select		
		王 Auto Adjust	VGA 🖉)	
		Input Source	DVI - D)	
		Color Settings			
		Display Settings			^
					V
		★ Personalize			
		V Energy Modes			
		(mm) Resolution: 1920x1080 @ 6	OHz		×
	Back	Press 🔁 to go back to the mair	n menu.		
	VGA			connector. Press 🗹 to select the VGA	
		Select VGA input when you are u	ising the analog (VGA)	connector. Press 💟 to select the VGA	input source.
0	DVI-D	Select DVI-D input when you are	using the Digital (DVI)	connector. Press 🖌 to select the DVI	input source.
	Scan for Sources	Select Auto Select to scan for av	ailable input signals.		
		_			
	Exit Menu	Press 🐱 to exit the OSD main n	nenu.		
	Color				
•••	Settings	Use the Color Settings to adjust There are different color setting	-		
	Color setting				•
	mode submenu	Dell G2410: Menu		Energy Gauge	
		- O- Brightness & Contrast	Input Color Format	► RGB	
		💽 Auto Adjust	Mode Selection	► Graphics	
		→ Input Source	Preset Modes	► Standard	
		Color Settings	Reset Color Settings	· · · · · · · · · · · · · · · · · · ·	
		Display Settings	Reset Color Settings		^
		Display Settings	Reset Color Settings		^ ¥
		☐ Display Settings ➡ Other Settings ★ Personalize	Reset Color Settings		^ ✓ →
		□ Display Settings ⇒ Other Settings ★ Per sonalize ▼ Energy Modes			^ ✓ →
		☐ Display Settings ➡ Other Settings ★ Personalize			 ∧ ∨ → ×
		□ Display Settings ⇒ Other Settings ★ Per sonalize ▼ Energy Modes			∧ ∨ →
		□ Display Settings ⇒ Other Settings ★ Per sonalize ▼ Energy Modes			 × ×
		□ Display Settings ⇒ Other Settings ★ Per sonalize ▼ Energy Modes			 ∧ ∨ → ×
		□ Display Settings ⇒ Other Settings ★ Per sonalize ▼ Energy Modes			^ ✓ ★
		□ Display Settings ⇒ Other Settings ★ Per sonalize ▼ Energy Modes			 ▲ ✓ → ×

Back	Press D to go back to the main menu.
Input Color Format	Allows you to set the video input mode to. 1 RGB: Select this option if your monitor is connected to a computer or DVD player using the VGA and DVI cable or the HDMI to I 1 YPbPr: Select this option if your DVD player supports only YPbPr output.
Mode Selection	Allows you to set the display mode to: I Graphics: Select this mode if your monitor is connected to your computer. I Video: Select this mode if your monitor is connected to a DVD player.
	NOTE: Depending upon the Display Mode you select the Preset Modes available for your monitor changes.
Preset Mode	Allows you to choose from a list of preset color modes. In the Graphics mode, you can set the color to the following preset values: Standard: Loads the monitor's default color settings. This is the default preset mode. Multimedia: Loads color settings ideal for multimedia applications. Game: Loads color settings ideal for most gaming applications. Varm: Increase the color temperature. The screen appears warmer with a red/yellow tint. Cool: Decreases the color temperature. The screen appears cooler with a blue tint. Cool: Decreases the color temperature. The screen appears cooler with a blue tint. Custom (R, G, B): Allows you to manually adjust the color settings. Press the and buttons to adjust the Red, Green create your own preset color mode. In the Video mode, you can set the color to the following preset values: Movie: Loads color settings ideal for movies. This is the default preset mode. Sports: Loads color settings ideal for sports. Game: Loads color settings ideal for game. Nature: Loads color settings ideal for nature.
Hue	This feature can shift color of video image to green or purple. This is used to adjust the desired flesh tone color. Use v or v to a '100'. Press to increase the green shade of the video image Press to increase the purple shade of the video image NOTE: Hue adjustment is available only for video input.

Saturation				
			image. Use 💟 or 🙆 to adjust t	he saturation from '0' to '100'.
	Press 💟 to increase the monod	chrome appearance of th	e video image	
	Press 🜑 to increase the colorfu			
	NOTE: Saturation adjustment is	available only for video	input.	
Color Rese	Resets your monitor's color setti	ings to the factory defau	ts.	
Exit Menu	Press 📕 to exit the OSD main m	nenu.		
DI SPLAY SETTI NGS				
SETTINGS				
Display Setting submenu	Display Setting submenu for V	GA input		
Submenu	Dell G2410: Menu		Energy Gauge	
	- O- Brightness & Contrast	Horizontal Position	▶ 50	-
	E Auto Adjust	Vertical Position	▶ 50	-
	Input Source Color Settings	Sharpness	► 50	-
		Pixel Clock	► 50	
	Display Settings	Phase	▶ 50	- ^
	↔ Other Settings	Dynamic Contrast	▶ Off	- 🗸
	★ Personalize	Reset Display Settings		
	Energy Modes	6047		
	Display Setting submenu for D			<u>~</u>
	Dell G2410 : Menu	•	Energy Gauge	
	- Contrast	Horizontal Position	▶ 50	
	💽 Auto Adjust	Vertical Position	▶ 50	_
	→ Input Source	Sharpness	▶ 50	
	📩 Color Settings	Pixel Clock	▶ 50	_
	Display Settings	Phase	▶ 50	^
	Other Settings	Dynamic Contrast	▶ Off	
	★ Personalize	Reset Display Settings		- `
	💓 Energy Modes	-		- →
	Resolution: 1920x1080 @ 0	60Hz		×

	Back	Press 🔁 to go back to the main menu.
	Horizontal Po	
	sition	Use the \checkmark and \checkmark buttons to adjust image left and right. Minimum is '0' (-). Maximum is '100' (+). NOTE: When using a DVI source, the Horizontal Position setting is not available.
	Vertical Posit ion	Use the and buttons to adjust image up and down. Minimum is '0' (-). Maximum is '100' (+). NOTE: When using a DVI source, the Vertical Position setting is not available.
	Sharpness	This feature can make the image look sharper or softer. Use \bigotimes or \bigotimes to adjust the sharpness from '0' to '100'.
	Pixel Clock	The Phase and Pixel Clock adjustments allow you to adjust your monitor to your preference.
		Use the 🕙 and 🐼 buttons to adjust for best image quality.
	Phase	If satisfactory results are not obtained using the Phase adjustment, use the Pixel Clock (coarse) adjustment and then use Phase (fin NOTE: Pixel Clock and Phase Adjustments are only available for "VGA" input.
	Dynamic Contrast	The Dynamic Contrast adjustment helps the user to get a higher contrast if you choose Game preset, Movie Preset, Sports Preset ar (Brightness control is disabled while in Dynamic Contrast mode and will be grayed out.) Use the volume button to enable the Dynamic Contrast adjustment.
		Use the S button to disable the Dynamic Contrast adjustment.
		NOTE: Dynamic Contrast is not available (greyed out) in Energy Smart Plus and Energy Smart modes.
	Display Reset	Reset the image to the original factory setting.
		Press to exit the OSD main menu.
HT -	OTHER SETTINGS	



LCD	This feature will help reduce minor cases of image retention.
Conditioning	If an image appears to be stuck on the monitor, select LCD Conditioning to help eliminate any image retention. Using the LCD Co 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.
	WARNING MESSAGE DELL G2410
	This feature will help reduce minor cases of image retention. Depending on the degree
	of image retention, the program may take some time to run.
	Do you wish to continue?
	No
	Yes
	LCD Conditioning is currently in progress. Press any button on the monitor to terminate LCD Conditioning at any time.
	NOTE: Press any button on the monitor to terminate LCD Conditioning at any time.
Factory Rese t	Reset all OSD settings to the factory preset values.
	WARNING MESSAGE DELL G2410
	Are you sure you want to reset to default settings?
	No
	Yes

\star	Personalize	Dell G2410 : Menu		Energy Gauge	
		- C- Brightness & Contrast	Shortcut Key 1	Energy Modes	
		💽 Auto Adjust	Shortcut Key 2	Brightness/Contrast	
		🕂 Input Source			
		Color Settings			_
		Display Settings			^
		🕂 Other Settings			\mathbf{v}
		+ Personalize			
		🥡 Energy Modes			+
		Resolution: 1920x1080 @	60Hz		\times

Setting Up Your Monitor

Dell™ G2410H Flat Panel Monitor

Setting the display resolution to 1920 X 1080 (maximum)

For maximum display performance while using the Microsoft[®] Windows[®] operating systems, set the display resolution to 1920 X 1080 pixels by performing the following steps:

In Windows 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 1920 X 1080.

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 1920 X 1080.

4. Click OK.

If you do not see **1920 X 1080** as an option, you may need to update your graphics driver. Please choose the scenario below that best describes the computer system you are using, and follow the provided directions:

1: If you have a Dell[™] desktop or a Dell[™] portable computer with internet access.

2: If you have non Dell[™] desktop, portable computer, or graphic card.

Dell™ G2410H Flat Panel Monitor

User Guide

Setting the display resolution to 1920 X 1080 (maximum).

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Model G2410t.

December 2009 Rev. A00

Setting Up the Monitor Dell™ G2410H Flat Panel Monitor User's Guide

- Attaching the Stand
- Connecting the Monitor
- Organizing the Cables
- Attaching the Soundbar (Optional).
- Removing the Stand
- Wall Mounting (Optional)

Attaching the Stand

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



Remove the monitor cover and place the monitor on it.

Fit the two tabs on the upper part of the stand to the groove on the back of the monitor.
 Lower the stand so that the monitor mounting area snaps onto the stand.

Connecting Your Monitor

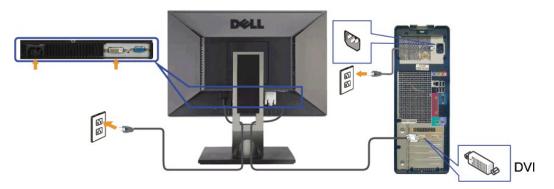
A CAUTION: Before you begin any of the procedures in this section, follow the Safety Instructions.

To connect your monitor to the computer:

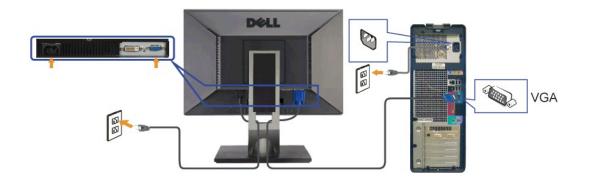
1. 2.

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

Connecting the White DVI Cable



Connecting the Blue VGA Cable



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

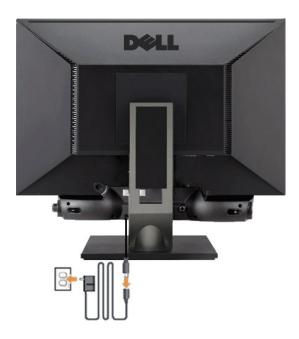
Organizing the Cables



After attaching all necessary cables to your monitor and computer, (See <u>Connecting Your Monitor</u> for cable attachment,) use the cable management slot to organize all cables as shown above.

Attaching the Soundbar (Optional)





• NOTICE: Do not use with any device other than Dell Soundbar.

- 1. Working from the rear of the monitor, attach the Dell Soundbar by aligning the two slots with the two tabs along the bottom rear of the monitor.
- 2. Slide the Dell Soundbar to the left until it snaps into place.
- 3. Connect the Soundbar with the power brick.
- 4. Plug the power cables of the power brick into a nearby outlet.
- 5. Insert the lime-green mini stereo plug from the rear of the Soundbar into the computer's audio output jack.

Removing the Stand

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

To remove the stand:



Press and hold the stand release button.
 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.

- Place the monitor panel on a soft cloth or cushion on stable flat table.
 Remove the stand.
 Use a screwdriver to remove the four screws securing the plastic cover.
 Attach the mounting bracket from the wall mounting kit to the LCD.
 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 4.36 kg.

Troubleshooting Dell™ G2410H Flat Panel Monitor User's Guide

- Troubleshooting Your Monitor
- Common Problems
- Product-Specific Problems

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

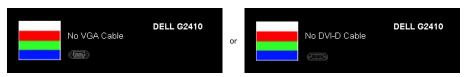
Troubleshooting Your Monitor

Self-Test Feature Check

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:

- 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 both Digital (white connector) and the Analog (blue 2.
- 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.



This box also appears during normal system operation, if the video cable becomes disconnected or damaged.
 Turn off your monitor and reconnect the video cable; then turn on both your computer and the monitor.

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

Built-in Diagnostics

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

MOTE: 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:

- Ensure that the screen is clean (no dust particles on the surface of the screen). 1.
- Unplug the video cable(s) from the back of the computer or monitor. The monitor then goes into the self-test mode. Press and hold the **B** and **E** buttons on the front panel, simultaneously for 2 seconds. A gray screen appears. 2. 3.



- Carefully inspect the screen for abnormalities.
 Press the E button on the front panel again. The color of the screen changes to red.
 Inspect the display for any abnormalities.
 Repeat steps 5 and 6 to inspect the display in green, blue, and white colored screens.

The test is complete when the white screen appears. To exit, press the ${\bf E}$ button again.

If you do not detect any screen abnormalities upon using the built-in diagnostic tool, the monitor is functioning properly. Check the video card and computer.

Common Problems

The following table contains general information about common monitor problems you might encounter and the possible solutions.

Common Symptoms	What You Experience	Possible Solutions
No Video/ Power LED off	No picture	 Ensure that the video cable connecting the monitor and the computer is properly connected and secure. Verify that the power outlet is functioning properly by 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 using the OSD. Perform monitor self-test feature check. Check for bent or broken pins in the video cable connector. Run the built-in diagnostics.
Poor Focus	Picture is fuzzy, blurry, or ghosting	 Perform Auto Adjust using the OSD. Adjust the Phase and Pixel Clock controls using the OSD. Eliminate video extension cables. Reset the monitor to Factory Settings. Change the video resolution to the correct aspect ratio (16:9).
Shaky/Jittery Video	Wavy picture or fine movement	 Perform Auto Adjust using the OSD. Adjust the Phase and Pixel Clock controls using the OSD. Reset the monitor to Factory Settings. Check environmental factors. Relocate the monitor and test it 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. Run the built-in diagnostics.
Stuck-on Pixels	LCD screen has bright spots	 Cycle power on-off. Pixel that is permanently off is a natural defect that can occur in LCD technology. Run the built-in diagnostics.
Brightness Problems	Picture too dim or too bright	 Reset the monitor to Factory Settings. Auto Adjust using the OSD. Adjust brightness & contrast controls using the OSD. Keep any object clear from the intelligent ambient light sensor.
Geometric Distortion	Screen not centered correctly	 Reset the monitor to Factory Settings. Auto Adjust using the OSD. Adjust brightness & contrast controls using the OSD.
		NOTE: When using '2: 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 using the OSD. Adjust Phase and Pixel Clock controls using the OSD. Perform monitor self-test feature check and determine if these lines are also in self-test mode. Check for bent or broken pins in the video cable connector. Run the built-in diagnostics.
Synchronization Problems		NOTE: When using '2: DVI-D', the Pixel Clock and Phase adjustments are not available.

	scrambled or appears torn	 Perform Auto Adjust using the OSD. Adjust Phase and Pixel Clock controls using the OSD. Perform monitor self-test feature check to determine if 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 does not have 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 is not good	 Change the Color Setting Mode in the Color Settings OSD to Graphics or Video depending to 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. Run the built-in diagnostics.
Image retention from a static image left on the monitor for a long period of time	Faint shadow from the static image displayed appears on the screen the screen	 Use the Power Management feature to turn off the monitor at all times when it is not in use (for more information, see Power Management Modes). Alternatively, use a dynamically changing screensaver.