Dell™ S2240T Monitor User's Guide

Model: S2240Tb March 2013 Rev. A00



Notes, Cautions, and 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.

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Package Contents

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



NOTE: To set up with any other stand, please refer to the respective stand setup guide for setup instructions.



USB Cable (enables touch screen function on the monitor)
Cleaning Cloth
• Velcro Strap
 Drivers and Documentation Media Quick Setup Guide Product and Safety Information Guide

Product Features

The **Dell S2240T** flat panel display has an active matrix, Thin-Film Transistor (TFT), Liquid Crystal Display (LCD) and LED backlight. The monitor features include:

- **S2240T**: 54.6 cm (21.5-inch) viewable area display (measured diagonally). 1920 x 1080 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 capability.
- Removable stand 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 includes an Information File (INF), Image Color Matching File (ICM), and product documentation.
- Dell Display Manager Software included (comes in the CD shipped with the monitor).

- Energy Saver feature for Energy Star compliance.
- Security lock slot.
- Capability to switch from wide aspect to standard aspect ratio while maintaining the image quality.
- EPEAT silver Rating.
- Arsenic-Free glass and Mercury-Free for the panel only.
- High Dynamic Contrast Ratio (8,000,000:1).
- 0.5 W standby power when in the sleep mode.
- Energy Gauge shows the energy level being consumed by the monitor in real time.

Identifying Parts and Controls

Front View





Side panel controls

Label	Description		
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 x 100 mm - behind attached VESA Plate)	Wall mount monitor using VESA- compatible wall mount kit (100 mm x 100 mm).
2	Security lock slot	Use a security lock with the slot to help secure your monitor.
3	Regulatory rating label	List the regulatory approvals.
4	Barcode serial number label	Refer to this label if you need to contact Dell for technical support.
5	Cable management slot	Use to organize cables by placing them through the slot.

Side View



Bottom View



Bottom view without monitor stand

Label	Description	Use	
1	Security lock slot	Secure the monitor with a security cable lock.	
2	Audio Line-out	Connect your speakers.*	
3	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 touch screen function on the monitor.	
4	DC power cord connector	Connect the power cable.	
5	HDMI connector	Connect your computer HDMI cable.	
6	DVI connector	Connect your computer DVI cable (optional purchase).	
7	VGA connector	Connect your computer VGA cable (optional purchase).	

*Headphone usage is not supported for the audio line out connector.

Monitor Specifications

Flat Panel Specifications

	600.40T
Model	S2240T
Screen type	Active matrix - TFT LCD
Panel type	VA
Screen dimensions	54.6 cm (21.5-inch diagonal viewable image size)
Preset display area:	
 Horizontal 	476.64 mm (18.77 inches)
Vertical	268.11 mm (10.56 inches)
Pixel pitch	0.248 x 0.248 mm
Viewing angle	178° (vertical) typical
	178° (horizontal) typical
Luminance output	Panel 280 cd/m² (Typ.)
	Monitor 250 cd/m ² (Typ.)
Contrast ratio	3000 to 1 (typical)
	8M to 1 (typical Dynamic Contrast On)
Faceplate coating	Anti-Glare with 3H hardness
Backlight	LED edgelight system
Response time	25 ms (typical)
	12 ms (typical) with Overdrive
Color depth	16.7 million colors
Color gamut	CIE1931 (72%)*

*[S2240T] color gamut (typical) is based on CIE1976 (84%) and CIE1931 (72%) test standards.

Resolution Specifications

Model	S2240T
Horizontal scan range	30 kHz to 83 kHz (automatic)
Vertical scan range	56 Hz to 76 Hz (automatic)
Maximum preset resolution	1920 x 1080 at 60 Hz

Supported Video Modes

Model	S2240T
Video display capabilities (DVI & HDMI playback)	480p, 576p, 720p, 1080p

Preset Display Modes

S2240T

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal/ Vertical)
VESA, 720 x 400	31.5	70.1	28.3	-/+
VESA, 640 x 480	31.5	60.0	25.2	-/-
VESA, 640 x 480	37.5	75.0	31.5	-/-
VESA, 800 x 600	37.9	60.3	40.0	+/+
VESA, 800 x 600	46.9	75.0	49.5	+/+
VESA, 1024 x 768	48.4	60.0	65.0	-/-
VESA, 1024 x 768	60.0	75.0	78.8	+/+
VESA, 1152 x 864	67.5	75.0	108.0	+/+
VESA, 1280 x 1024	64.0	60.0	108.0	+/+
VESA, 1280 x 1024	80.0	75.0	135.0	+/+
VESA, 1920 x 1080	67.5	60.0	148.5	+/+

Electrical Specifications

Model	S2240T
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 HDMI, 600mV for each differential line, 100 ohm input impedance per differential pair
Synchronization input signals	Separate horizontal and vertical synchronizations, polarity-free TTL level, SOG

AC/DC adapter*	Input voltage/ frequency/current	100 VAC to 240 VAC / 50 Hz or 60 Hz \pm 3 Hz / 1.2 A (typical)
	Output voltage/ current	Output: 12 VDC / 3.33 A
Inrush cui	rrent	• 120 V: 30 A (Max)
		• 240 V: 60 A (Max)

*Qualified Compatible AC/DC adapters.



CAUTION: To avoid damage to the monitor, use only the adapter designed for this particular Dell monitor.

Manufacturer	Model	Polarity
Delta	ADP-40DD BA	⊙_€_⊕
Lite-On	PA-1041-71TP-LF	⊙-€-€

Physical Characteristics

Model	S2240T	
Connector type	15-pin D-subminiature, blue connector; DVI-D, white connector; HDMI, black connector	
Signal cable type	High Definition Multimedia Interface: Detachable, HDMI, 19 pins	
	 Universal Serial Bus: Detachable, USB, 4 pins 	
Dimensions (with stand)		
Height (extended)	370.8 mm (14.60 inches)	
Width	522.5 mm (20.57 inches)	
Depth	205.7 mm (8.10 inches)	
Dimensions (without stand)		
Height	318.9 mm (12.56 inches)	
Width	522.5 mm (20.57 inches)	
Depth	41.2 mm (1.62 inches)	
Stand dimensions		
Height	287.1 mm (11.30 inches)	
Width	352.0 mm (13.86 inches)	
Depth	205.7 mm (8.10 inches)	

Weight	
Weight with packaging	6.9 kg (15.20 lb)
Weight with stand assembly and cables	5.8 kg (12.78 lb)
Weight without stand assembly (For wall mount or VESA mount considerations - no cables)	3.4 kg (7.49 lb)
Weight of stand assembly	1.7 kg (3.74 lb)
Front frame gloss	Black Frame - 5~8% gloss unit (max.)

Environmental Characteristics

Model	S2240T	
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	5,000m (16,400 ft) (maximum)	
Non-operating	12,192m (40,000 ft) (maximum)	
Thermal dissipation	 102.3 BTU/hour (maximum) 62.8 BTU/hour (typical)	

Power Management Modes

If you have VESA's DPMTM 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 the 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	White	30 W (maximum) ** 20 W (typical)
Active-off mode	Inactive	Inactive	Blanked	White (Breathing)	Less than 0.5 W
Switch off	-	-	-	Off	Less than 0.5 W

The OSD functions only in the normal operation mode. When any button is pressed in the Active-off mode, one of the following messages will be displayed:

Dell S2240T	
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 the monitor to gain access to the OSD.



NOTE: This 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 USB active.

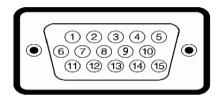
Touch Specifications

Item	Contents	
Туре	Projected Capacitive System	
Panel diagonal	21.5 inch	
Panel thickness	2.4 <u>+</u> 0.2 mm	
Active area	482.2 x 272.9 extended beyond viewing area	
Sensor stack thickness	1.1 mm	
Cover glass thickness	1.1 +/- 0.2 mm	

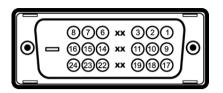
Input method	Bare finger, thin gloves, conductive stylus
Touch point	10 touches with palm accommodation
Response time	25 ms
Output position resolution	25 PPI (minimum)
Touch method	Fingers and thin gloves
Support OS	Windows 8 Certified

Pin Assignments

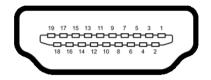
VGA Connector



Pin Number	15-pin Side of the Connected 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	Computer 5 V/3.3 V	
10	GND-sync	
11	GND	
12	DDC data	
13	H-sync	
14	V-sync	
15	DDC clock	



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/+3.3 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-



Pin Number	19-pin Side of the Connected Signal Cable
1	TMDS DATA 2+
2	TMDS DATA 2 SHIELD
3	TMDS DATA 2-
4	TMDS DATA 1+
5	TMDS DATA 1 SHIELD
6	TMDS DATA 1-
7	TMDS DATA 0+
8	TMDS DATA 0 SHIELD
9	TMDS DATA 0-
10	TMDS CLOCK+
11	TMDS CLOCK SHIELD
12	TMDS CLOCK-
13	CEC
14	Reserved (N.C. on device)
15	DDC CLOCK (SCL)
16	DDC DATA (SDA)
17	DDC/CEC Ground
18	+5V POWER
19	HOT PLUG DETECT

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 Operating the Monitor.

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	Data Rate	Power Consumption
High speed	480 Mbps	2.5 W (Max, each port)
Full speed	12 Mbps	2.5 W (Max, each port)
Low speed	1.5 Mbps	2.5 W (Max, each port)

USB Upstream Connector



Pin Number	4-pin Side of the Connector
1	DMU
2	VCC
3	DPU
4	GND

USB Ports

1 upstream - back





NOTE: The monitor's USB interface works only when the monitor is On or in the power save mode.

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 which are hard to see and do not affect the display quality or usability. For more information on Dell Monitor Quality and Pixel Policy, see Dell Support site at: **support.dell.com**.

Maintenance Guidelines

Cleaning Your Monitor



CAUTION: Read and follow the Safety Instructions before cleaning the monitor. WARNING: 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 touch 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, wipe it off with a cloth.
- Handle your monitor with care as a darker-colored monitor may get scratched 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 turn off your monitor when not in use.

Attaching the Stand

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

- **1** Attach the stand to the monitor.
 - a. Place the monitor on a soft cloth or cushion.
 - b. Pull the monitor stand arm upwards clear of the monitor.



Connecting Your Monitor



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



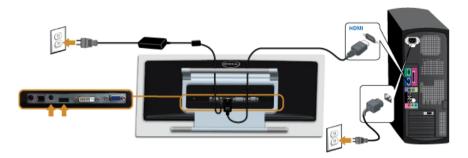
NOTE: The VGA/DVI cable can be purchased separately.

NOTE: Do not connect all cables to the computer at the same time.

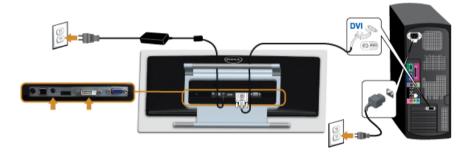
To connect your monitor to the computer:

1. Turn off your computer and disconnect the power cable. Connect the HDMI/DVI/VGA cable from your monitor to the computer.

Connecting the HDMI cable



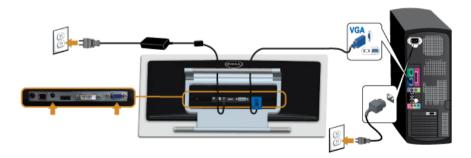
Connecting the white DVI cable



Connecting the blue VGA cable



Use a screwdriver to tighten the VGA cable.

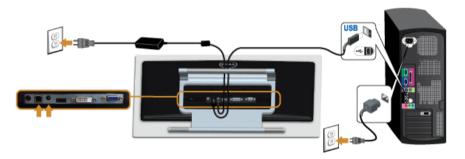


CAUTION: The graphics are used for the purpose of illustration only. Appearance of the computer may vary.

Connecting the USB cable

After you have completed connecting the DVI/VGA/HDMI 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. Plug the power cables for your computer and monitor into a nearby outlet.
- **3.** Turn on the Monitor and the computer. When your USB cable connection is complete, if the touch function does not functional, see Touch Problem.
- 4. 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.

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 soft cloth or cushion.
- 2. Loosen the two screws that secure the sand to the monitor.
- 3. Lift the stand up and away from the monitor.



Wall Mounting (Optional)

Refer to the instructions that come with the VESA-compatible wall mounting kit.

- **1.** Place the monitor panel on a soft cloth or cushion on a stable, flat table.
- 2. Remove the stand.



(Screw dimension: M4 x 10 mm).

3. Attach the mounting bracket from the wall mounting kit to the monitor.

4. Mount the monitor on the wall by following the instructions that comes with the wall mounting kit.



NOTE: For use only with UL-listed wall mount bracket with minimum weight/load bearing capacity of 5.88 kg.

Power On the Monitor

Press the 🕑 button to turn on the monitor.



Using the Side Panel Controls

Use the control buttons on the side 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.



The following table describes the side panel buttons:

Side Panel Button		Description
		Use this button to choose from a list of preset color modes.
	Shortcut key/ Preset Modes	
2		Use this button to directly access the Brightness/Contrast menu
	Shortcut key/ Brightness/ Contrast	

3		Use the MENU button to launch the On-Screen Display (OSD) and select the OSD Menu. See Accessing the Menu System.
	Menu	
4	X	Use this button to go back to the main menu or exit the OSD main menu.
	Exit	
5	C	Use the Power button to turn the monitor On and Off .
		The white light indicates the monitor is On and fully functional. A
	Power	breathing white light indicates the power save mode.
	(with power light	
	indicator)	

Side Panel Button

Use the buttons on the side of the monitor to adjust the image settings.



Side	Panel Button	Description
1	Up	Use the Up button to adjust (increase ranges) items in the OSD menu.
2	Down	Use the Down button to adjust (decrease ranges) items in the OSD menu.
3	ОК	Use the OK button to confirm your selection.
4 Back		Use the Back button to go back to the previous menu.

Using the On-Screen Display (OSD) Menu

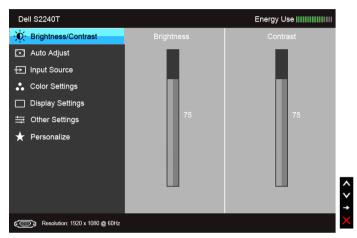
Accessing the Menu System

IJ

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.

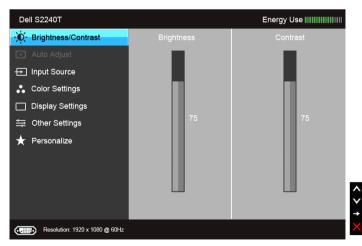
1. Press the 🗊 button to launch the OSD menu and display the main menu.

Main Menu for analog (VGA) input



or

Main Menu for digital (DVI) input



Main Menu for digital (HDMI) input

Dell S2240T		Energy Use
• Brightness/Contrast	Brightness	Contrast
💽 Auto Adjust		
→ Input Source		
🛟 Color Settings		
Display Settings		
	75	75
🛧 Personalize		
		Ľ
Resolution: 1920 x 1080 @ 60Hz		>

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

- 2. Press the A and V 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 \bigcirc button once to activate the highlighted option.
- 4. Press \Lambda and 💟 button to select the desired parameter.
- 5. Press to enter the slide bar and then use the A and V buttons, according to the indicators on the menu, to make your changes.
- 6. Select the 🗩 button to return to the main menu

lcon	Menu and Submenus		Description		
	Brightness/	Use this menu to activa	te Brightness/Contra	ast adjustment.	
	Contrast	Dell S2240T		Energy Use	
		- O- Brightness/Contrast	Brightness	Contrast	
		💽 Auto Adjust			
		→ Input Source			
		Color Settings			
		Display Settings	75	75	
			15	15	
		ر (Resolution: 1920 x 1080 @ 60Hz			< > + ×
	Brightness	Brightness adjusts the l	uminance of the bac	klight.	
	2	Press the button t button to decrease the	-)
		NOTE: Manual adjustm Smart or Dynamic Con	-	disabled when Energy	,
	Contrast	Adjust the Brightness fi adjustment is necessary		ne Contrast only if fur	th
		Press the A button t button to decrease the			
		The Contrast function a darkness and lightness			



Auto Adjust Even though your computer recognizes your monitor on startup, the Auto Adjustment function optimizes the display settings for use with your particular setup.

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: 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.

Input Source Use the Input Source menu to select between the different video signals that may be connected to your monitor.

Dell S2240T		Energy Use		
· Drightness/Contrast	✓ Auto Select			
💽 Auto Adjust	VGA			
➡ Input Source	DVI-D			
Color Settings	HDMI			
Display Settings				
🛨 Personalize				
C Resolution: 1920 x 1080 @ 600	lz		>	
Press 🖨 to select Auto Select, the monitor scans for available inpu				

	Auto Select	Press to select Auto Select , the monitor scans for available input sources.
•	VGA	Select the VGA input when you are using the analog (VGA) connector. Press D to select the VGA input source.
	DVI-D	Select the DVI-D input when you are using the Digital (DVI) connector. Press to select the DVI input source.
	HDMI	Select the HDMI input when you are using the HDMI connector. Press to select the HDMI input source.

Color	Use Color Settings to	o adjust the color set	ting mode.	
Settings	Dell S2240T		Energy Use	
	- Drightness/Contrast	Input Color Format	► RGB	
	💽 Auto Adjust	Preset Modes	Standard	
	→ Input Source	Image Enhance	▶ Off	
	Color Settings	Reset Color Settings		
	Display Settings			
	★ Personalize			
			• •	
	Resolution: 1920 x 1080 @ 60	DHz	5	
				_

Format

Input Color Allows you to set the video input mode to:

RGB: Select this option if your monitor is connected to a computer or DVD player using the VGA and DVI cable.

YPbPr: Select this option if your monitor is connected to a DVD player by YPbPr to VGA, or YPbPr to DVI cable; or if the DVD color output setting is not RGB.

Dell S2240T		Energy Use
·•• Brightness/Contrast	Input Color Format	RGB
💽 Auto Adjust	Preset Modes	YPbPr
➡ Input Source	Image Enhance	▶ Off
Color Settings	Reset Color Settings	
Display Settings		
🛧 Personalize		
		▼ ✓
Resolution: 1920 x 1080 @ 60Hz		É

Preset Modes When you select Preset Modes, you can choose Standard, Multimedia, Movie, Game, Text, Warm, Cool or Custom Color from the list.

- **Standard**: Loads the monitor's default color settings. This is the default preset mode.
- Multimedia: Loads color settings ideal for multimedia applications.
- Movie: Loads color settings ideal for movies.
- Game: Loads color settings ideal for most gaming applications.
- Text: Loads brightness and sharpness settings ideal for viewing texts.
- Warm: 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.
- Custom Color: Allows you to manually adjust the color settings.

Press the A and V buttons to adjust the three colors (R, G, B) values and create your own preset color mode.

Dell S2240T		Energy Use
- Ď- Brightness/Contrast	Input Color Format	
💽 Auto Adjust	Preset Modes	Standard
E Input Source	Image Enhance	Multimedia
• Color Settings	Reset Color Settings	Movie
Display Settings		Game
☐ Other Settings		Text
★ Personalize		Warm
		Cool
		Custom Color
		**
C Resolution: 1920 x 1080 @	60Hz	5
	st the desired flesh ton	o image to green or purple. e color. Use 🔊 or 文 to
Press 🔥 to increa	ase the green shade of	the video image.
Press 💽 to increa	ase the purple shade o	f the video image.
NOTE: Hue adjustr	nent is available only w	rhen you select Movie or

Game preset mode.

Saturation		t the color saturation t the saturation from	n of the video image. Use n '0' to '100'.		
		e the monochrome a	appearance of the video		
	image.		renee of the wide of income		
	-		rance of the video image.		
	or Game preset mode		only when you select Movie		
Demo Mode	Splits the screen into t enhanced Movie pres	-	mages under the normal and		
	You can also press this mode.	and 🗴 simulta	neously to enable/disable		
	NOTE: Demo Mode i mode.	is available only whe	n you select Movie preset		
lmage Enhance	Makes upsized images roughness of edge.	Makes upsized images higher quality by removing image fading and roughness of edge.			
	NOTE: Image Enhan Multimedia, Movie, O	*	when you select Standard , e.		
Reset Color Settings	Reset your monitor co	olor settings to the fa	actory settings.		
Display	Use the Display Settings to adjust image.				
Settings	Dell S2240T Energy Use ((((((((((((((((((((())))))))))))))))				
	- D- Brightness/Contrast	Aspect Ratio	• Wide 16:9		
	. Auto Adjust	Horizontal Position	▶ 50		
	→ Input Source	Vertical Position	▶ 50		
	Color Settings	Sharpness	▶ 50		
	Display Settings	Pixel Clock	▶ 50		
		Phase	▶ 50		
	★ Personalize	Dynamic Contrast			
		Reset Display Settings			
			∨		
	د (Resolution: 1920 x 1080 @ 60+	łz	→		
Aspect Ratio	Adjusts the image rati	o to Wide 16:9, 4:3,	or 5:4 .		
Horizontal	Use 🔊 or 🔽 to ac	djust the image left o	r right. Minimum is '0' (-).		
Position	Maximum is '100' (+).				
Vertical	Use 🔊 or 💽 to a	adjust the image up o	or down. Minimum is '0' (-).		
Position	Maximum is '100' (+).				
	NOTE: Horizontal Po available for "VGA" inp		Position adjustments are only		
Sharpness	This feature can make	e the image look sha arpness from '0' to '1			

	Pixel Clock	The Phase and Pixel Clock adjustments allow you to adjust your monitor to your preference.			
		Use or 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 (fine), again.			
		NOTE: Pixel Clock and Phase adjustments are only available for "VGA input.			
	Dynamic Contrast	Allows you to increase the level of contrast to provide sharper and more detailed image quality.			
		Press the 😑 button to select the Dynamic Contrast "On" or "Off"			
		NOTE: Dynamic Contrast provides higher contrast if you select Game or Movie preset mode.			
	Reset Display Settings	Select this option to restore default display settings.			
e	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 remains on screen, and so on.			
		Dell S2240T Energy Use IIIIIIIIII			
		- Ú- Brightness/Contrast	Language	▶ English	
		王 Auto Adjust	Menu Transparency	▶20	
		 . Auto Adjust . Input Source 	Menu Transparency Menu Timer	▶20 ▶20 s	
		→ Input Source	Menu Timer	▶20 s	
		Input Source Color Settings Display Settings Other Settings	Menu Timer Menu Lock	20 s Unlock Off Enable	
		 ➡ Input Source ♣ Color Settings ➡ Display Settings 	Menu Timer Menu Lock Energy Smart	20 s Unlock Off Enable Disable	
		Input Source Color Settings Display Settings Other Settings	Menu Timer Menu Lock Energy Smart DDC/Cl	20 s Unlock Off Enable	
		Input Source Color Settings Display Settings Other Settings	Menu Timer Menu Lock Energy Smart DDC/CI LCD Conditioning	20 s Unlock Off Enable Disable	
		Input Source Color Settings Display Settings Other Settings	Menu Timer Menu Lock Energy Smart DDC/CI LCD Conditioning Factory Reset	20 s Unlock Off Enable Disable	

Menu Transparency	Select this option to change the menu transparency by pressing the and w buttons (Minimum: 0 ~ Maximum: 100).		
Menu Timer	OSD Hold Time : sets the length of time the OSD will remain active af the last time you pressed a button.		
	Use or to a 60 seconds.	adjust the slider in 1 secc	ond increments, from 5
Menu Lock		to adjustments. When L ved. All buttons are lock	
	NOTE:		
		er soft lock (through the utton above the power I	
	Unlock function– On the power button for	ily hard unlock (press an 10 seconds)	nd hold the button abov
Energy Smart	To turn on or off dyna	amic dimming.	
	The dynamic dimming feature automatically reduces the screen's brightness level when the displayed image contains a high proportion of bright areas.		
DDC/CI	monitor parameters (Channel/Command In brightness, color balanc ware on your computer	e, and etc.) to be
	You can disable this fe	eature by selecting Disa	ble.
	Enable this feature for of your monitor.	r best user experience ar	nd optimum performan
	Dell S2240T		Energy Use
	Brightness/Contrast	Language	
	. Auto Adjust	Menu Transparency	
	→ Input Source	Menu Timer	
	Color Settings	Menu Lock	
	Display Settings	Energy Smart	
		DDC/CI	Enable
	★ Personalize	LCD Conditioning	Disable
		Factory Reset	
			¥
	د (Resolution: 1920 x 1080 @ 600		

LCD Helps reduce minor cases of image retention. Depending on the degree of image retention, the program may take some time to run. You can enable this feature by selecting **Enable**.

Dell S2240T		Energy Use	
•••• Brightness/Contrast	Language		
💽 Auto Adjust	Menu Transparency		
➡ Input Source	Menu Timer		
🛟 Color Settings	Menu Lock		
Display Settings	Energy Smart		
	DDC/CI		
🛨 Personalize	LCD Conditioning	Enable	
	Factory Reset	V Disable	
			Ĵ
		· · · · · · · · · · · · · · · · · · ·	/
Resolution: 1920 x 1080 @ 60H	z	1	Ь

Factory Reset Reset all OSD settings to the factory preset values.

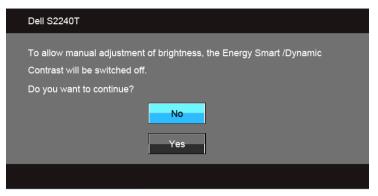
Personalize Users can choose a feature from Preset Modes, Brightness/Contrast, Auto Adjust, Input Source, or Aspect Ratio and set it as a shortcut key.

💽 Auto Adjust	Shortcut Key 2	Brightness/Contrast	
→ Input Source	Reset Personalize	Auto Adjust	
Color Settings		Input Source	
Display Settings		Aspect Ratio	
+ Personalize			
			$\hat{\mathbf{v}}$
			\checkmark
Resolution: 1920 x 1080 @ 608	tz		Ð

NOTE: This monitor has a built-in feature to automatically calibrate the brightness to compensate for LED aging.

OSD Warning Messages

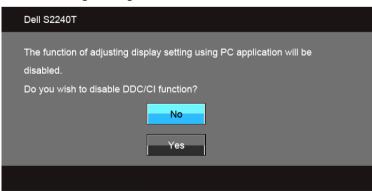
When the **Energy Smart** or **Dynamic Contrast** feature is enabled (in these preset modes: **Game** or **Movie**), the manual brightness adjustment is disabled.



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. Recommended mode is 1920 x 1080.



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

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



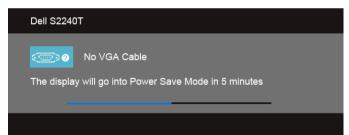
Activate the computer and wake up the monitor to gain access to the Using the On-Screen Display (OSD) Menu.

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

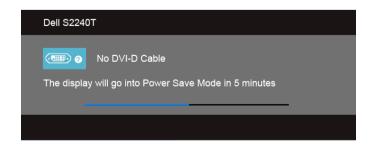
VGA/DVI-D/HDMI input

Dell S2240T
There is no signal coming from your computer. Press any key on the keyboard or move the mouse to wake it up. If there is no display, press the monitor button now to select the correct input source on the On-Screen-Display menu.

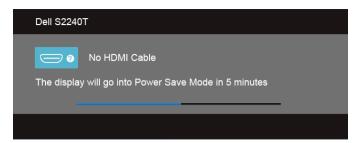
If either VGA, DVI-D, or HDMI input is selected and the corresponding cable is not connected, a floating dialog box as shown below appears.



or







It is recommended that you use the supplied power adapter. If not, you will see the message as shown below.

Dell S2240T
Wrong power adapter detected. The display will shut down in 10 seconds.

See Troubleshooting for more information.

Setting the Maximum Resolution

To set the maximum resolution for the monitor:

In Windows[®] 7 and Windows[®] 8:

- 1. For Windows® 8 only, select the Desktop tile to switch to classic desktop.
- 2. Right-click on the desktop and click Screen Resolution.
- 3. Click the Dropdown list of the Screen Resolution and select 1920 x 1080.
- 4. Click OK.

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

If you have a Dell desktop or portable computer:

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

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

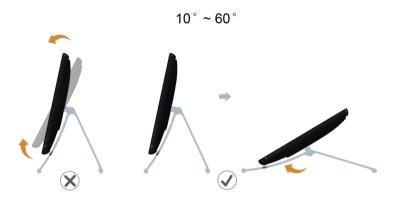
- Go to the support site for your computer and download the latest graphic drivers.
- Go to your graphics card website and download the latest graphic drivers.

Tilting the Monitor



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 set up instructions.

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



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

⚠

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

Self-Test

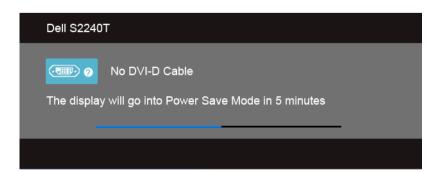
Your monitor provides a self-test feature that allows you to check whether your monitor is functioning properly. If your monitor and computer are properly connected but the monitor screen remains dark, run the monitor self-test by performing the following steps:

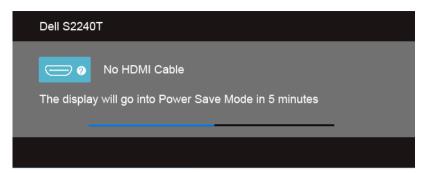
- **1.** Turn off both your computer and the monitor.
- 2. Unplug the video cable from the back of the computer. To ensure proper Self-Test operation, remove all Digital (white connector) and the Analog (blue connector) cables from the back of computer.
- 3. Turn on the monitor.

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

Dell S2240	т
The displa	No VGA Cable y will go into Power Save Mode in 5 minutes

or





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

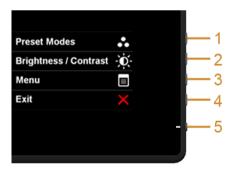
If your monitor screen remains blank after you use the previous procedure, check your video controller and computer, because your monitor is functioning properly.

Built-in Diagnostics

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



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



To run the built-in diagnostics:

- 1. Ensure that the screen is clean (no dust particles on the surface of the screen).
- 2. Unplug the video cable(s) from the back of the computer or monitor. The monitor then goes into the self-test mode.

- **3.** Press and hold **Button 1** and **Button 4** on the side panel simultaneously for 2 seconds. A gray screen appears.
- 4. Carefully inspect the screen for abnormalities.
- 5. Press Button 4 on the side 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 text screen appears. To exit, press **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.

In-Store Demo

To enter InStore OSD Mode

Detach/Disconnect all cables. Make sure the monitor is in "On" mode. Press and hold **Button 2** and **Button 4** for 5 seconds.

To exit InStore OSD Mode

Press and hold **Button 2** and **Button 4** for 5 seconds. If power is cut off during demo, resume the demo after power is restored.

Common Problems

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

Common Symptoms	What You Experience	Possible Solutions
No Video/ Power LED off	No picture	 Ensure that the video cable connecting the monitor and the computer is properly connected and secure. Verify that the power outlet is functioning properly using any other electrical equipment. Ensure that the power button is depressed fully. Ensure that the correct input source is selected via the Input Source menu.
No Video/ Power LED on	No picture or no brightness	 Increase brightness & contrast controls via OSD. Perform monitor self-test feature check. Check for bent or broken pins in the video cable connector. Run the built-in diagnostics. Ensure that the correct input source is selected via the Input Source menu.

Poor Focus	Picture is fuzzy, blurry, or ghosting	 Perform Auto Adjust via OSD. Adjust the Phase and Pixel Clock controls via OSD. Eliminate video extension cables. Reset the monitor to Factory Settings. Change the video resolution to the correct aspect ratio (16:9).
Shaky/Jittery Video	Wavy picture or fine movement	 Perform Auto Adjust via OSD. Adjust the Phase and Pixel Clock controls via OSD. Reset the monitor to Factory Settings. Check environmental factors. Relocate the monitor and test in another room.
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: support.dell.com.
Stuck-on Pixels	LCD screen has bright spots	 Cycle power on-off. Pixel that is permanently off is a natural defect that can occur in LCD technology. For more information on Dell Monitor Quality and Pixel Policy, see Dell Support site at: support.dell.com.
Brightness Problems	Picture too dim or too bright	 Reset the monitor to Factory Settings. Auto Adjust via OSD. Adjust brightness & contrast controls via OSD.
Geometric Distortion	Screen not centered correctly	 Reset the monitor to Factory Settings. Auto Adjust via OSD. Adjust horizontal & vertical controls via OSD. NOTE: When using DVI-D/HDMI input, 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. Run the built-in diagnostics. NOTE: When using DVI-D/HDMI input, 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. Run the built-in diagnostics.
Image retention from a static image left on the monitor for a long period of time	from the static image displayed appears on the	 Use the Power Management feature to turn off the monitor at all times when not in use (for more information, see Power Management Modes). Alternatively, use a dynamically changing screensaver.

Touch Problem

Specific Symptoms	What You Experience	Possible Solutions
Touch report error	Touch function miss alignment or no touch function	 Make sure power cord comes with ground pin. Unplug and replug the DC cable from power adapter to allow touch module auto recalibration. Make sure to use Dell provide USB cable, connect with computer. Make sure computer support USB 2.0 cable. If the device cannot be detected by system, power off/on the monitor or plug out/in the USB cable.
Touch screen no response in saving mode	Could not wake up monitor and computer by touching in saving mode	 Access to Device Manager and choose HID Interface Device under Human Device. Select HID- compliant device Properties Allow the device to wake the computer.

Win 7 and Win 8 Calibration	The cursor does not accurately
	follow your finger
	when you touch
	the screen

- Enter control panel to choose the Tablet PC settings.
- Select Calibration.
- Recalibrate your screen following the text on the screen
- Save or give up the calibrate data.

Product Specific Problems

Specific Symptoms	What You Experience	Possible Solutions
Screen image is too small	Image is centered on screen, but does not fill entire viewing area	 Check the Scaling Ratio setting in the Image Setting OSD. Reset the monitor to Factory Settings.
Cannot adjust the monitor with the buttons on the side panel	OSD does not appear on the screen	 Turn off the monitor, unplug the power cord, plug it back, and then turn on the monitor. Check whether the OSD menu is locked. If yes, press and hold the button above the Power button for 10 seconds to unlock (for more information, see Menu Lock).
No Input Signal when user controls are pressed	No picture, the LED light is blue.	 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. Replug 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 will not be available.

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 <u>www.dell.com\regulatory_compliance</u>.

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.

Setting Up Your Monitor

Setting the display resolution

For maximum display performance with Microsoft[®] Windows[®] operating systems, set the display resolution to **1920 x 1080** pixels by performing the following steps: In Windows[®] 7 and Windows[®] 8:

1. For Windows[®] 8 only, select the Desktop tile to switch to classic desktop.

- 2. Right-click on the desktop and click Screen Resolution.
- 3. Click the Dropdown list of the Screen Resolution and select 1920 x 1080.
- 4. Click OK.

If you do not see the recommended resolution 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 given steps.

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://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.

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

In Windows[®] 7 and 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. 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>).
- 7. After installing the drivers for your graphics adapter, attempt to set the resolution to **1920 x 1080** again.
- **NOTE:** If you are unable to set the recommended resolution, please contact the manufacturer of your computer or consider purchasing a graphics adapter that will support the video resolution.