Dell™ S2340T Monitor

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Model S2340Tt

March 2014 Rev. A05

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Notes, Cautions, and Warnings

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

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

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

Model S2340Tt

March 2014 Rev. A05

Setting Up Your Monitor
Dell™ S2340T Monitor

Setting the display resolution to 1920 x 1080 (maximum)

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 or Windows® 8 / Windows® 8.1:

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 a non Dell™ desktop, portable computer, or graphics card.

About Your Monitor

Dell™ S2340T Monitor User's Guide

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.

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

	• Monitor with stand

	• Power cable
	• Power adapter
	• HDMI cable
	• DisplayPort cable
	• USB upstream cable (enables the USB ports on the monitor)
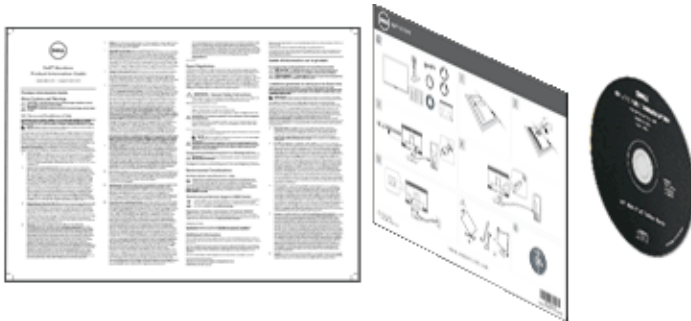
	• Cloth
	• Velcro strap
	• *Drivers and Documentation* media • *Quick Setup Guide* • *Product and Safety Information Guide*

Product Features

The **S2340T** flat panel display has an active matrix, Thin-Film Transistor (TFT), Liquid Crystal Display (LCD). The monitor features include:

- 23-inch (58.42 cm) viewable area display (Measured diagonally). 1920 x 1080 resolution, and 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 and touch usage scenario 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), Dell Display Manager software application and product documentation.

- Energy Saver feature for Energy Star compliance.

- Image Enhance feature.

- EPEAT Silver Rating.

- BFR/PVC-reduced.

- Arsenic-free glass and Mercury-free panel.

- Mega Dynamic Contrast (when turned on).

- Dell Display Manager software included (comes in the CD shipped with the monitor).

- TCO 6.0 certified displays.

- Webcam with the resolution of FHD 1080p (1920x1080) and digital dual Mic input.

- USB audio input selected from OSD munu.

- Integrated Gigabit USB Dock Ethernet (10/100/1000Mbit).

- Audio output with two channels of 5W speaker and stereo headphone jack.

- External Mic input jack.

- Minimum PC configuration: CPU 2nd Generation Intel$^®$ Core™ i5-2467M processor, Memory size 4GB Dual Channel DDR3 1333MHz, USB port 2.0, access to CD-ROM, HDMI and DP, Harddisk size minimum empty space 10GB.

- Recommended PC configuration: CPU 2nd Generation Intel$^®$ Core™ i7 series processor, Memory size 4GB Dual Channel DDR3 1333MHz, USB port 3.0, access to DVD-ROM, HDMI and DP, Harddisk size empty space 40GB.

Identifying Parts and Controls

Front View
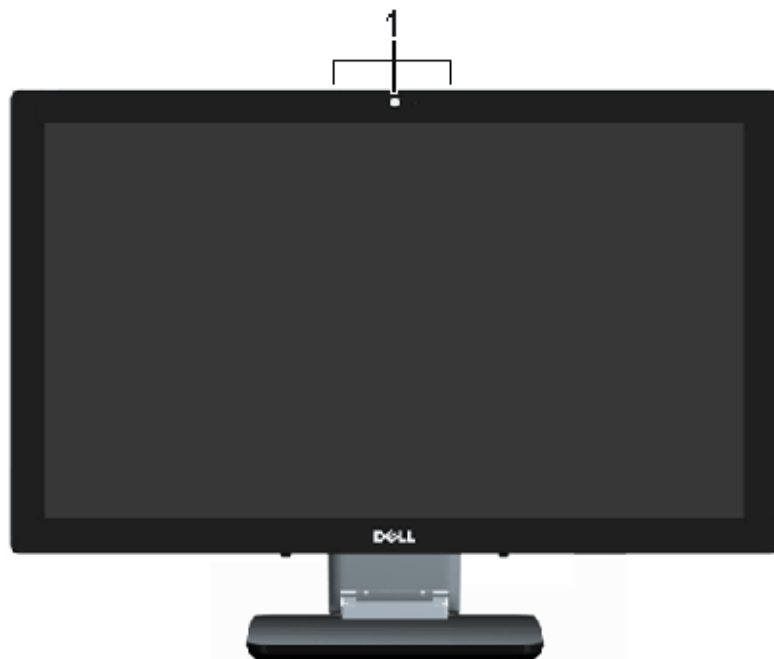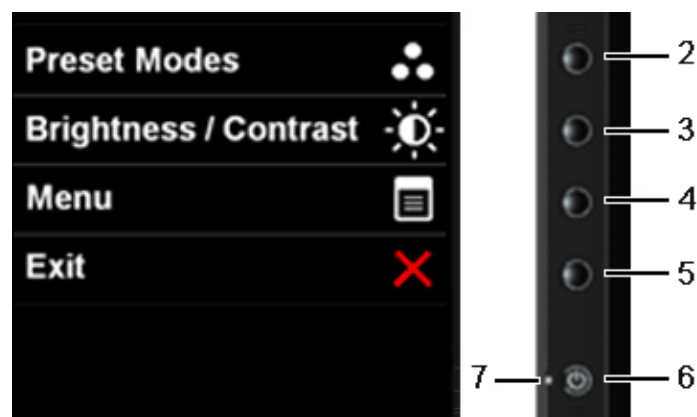
Front View   **Side panel controls**

Label	Description
1	Webcam with MIC (Only for USB device)
2	Preset Modes (default, but configurable)
3	Brightness & Contrast (default, but configurable)
4	Menu
5	Exit
6	Power
7	Light Indicates

Back and Bottom View
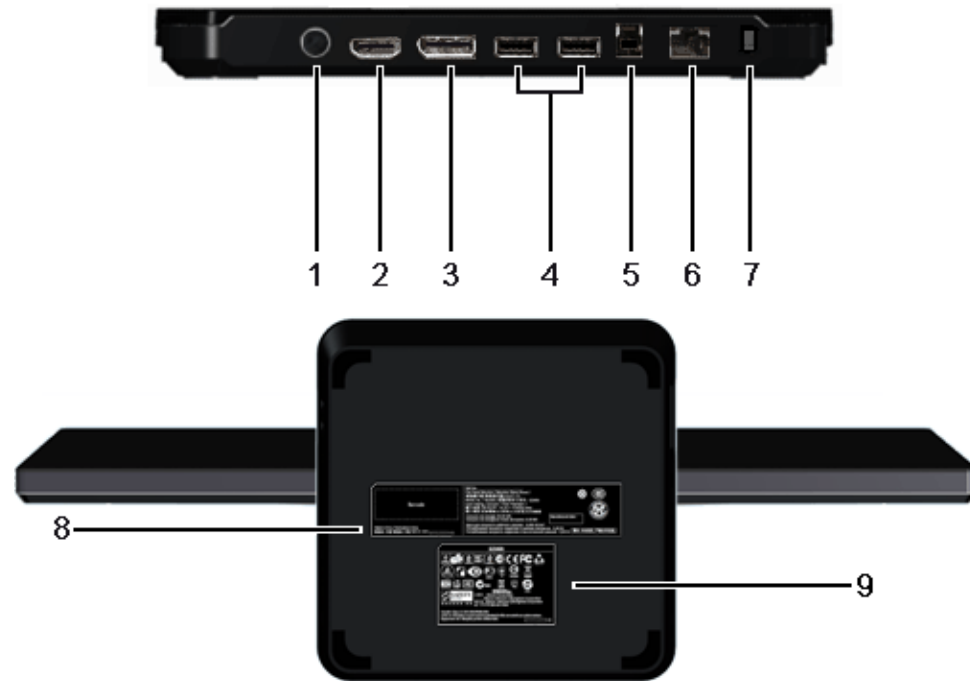
Label	Description	Use
1	DC power cord connector	Connect the power cord.
2	HDMI connector	Connect to devices with HDMI output (or equivalent) such as PC, notebooks, DVD player or set-up box.

3	DisplayPort connector	Connect to devices with DisplayPort output (or equivalent).
4	USB downstream ports	Connect your USB devices. You must connect the USB cable (provided) to the computer and the monitor to use these ports.
5	USB upstream port	Connect to devices with USB Host. Once this cable is connected, you can use the docking features and available USB ports on the side and back.
6	RJ45 connector	Support Ethernet connection 10/100/1000 Mbps.
7	Security Lock	Secures monitor with security cable lock.
8	Barcode serial number label	Required when contacting Dell for technical support.
9	Regulatory label	Lists the regulatory approvals.

Side View

Left view   **Right view**

Label	Description

1	Speaker
2	Microphone input (Only for USB device)
3	Headphone out (Only for USB device)
4	USB downstream ports

Monitor Specifications

Flat Panel Specifications

Screen type	Active matrix - TFT LCD
Panel type	In-plane switching technology
Screen dimensions	23 inches (23-inches viewable image size)
Preset display area:	533.2 (H) x 312.0 (V) mm
Horizontal	533.2 mm (20.99 inches)
Vertical	312.0 mm (12.28 inches)
Pixel pitch	0.27 mm
Viewing angle	178 degree (vertical) typical 178 degree (horizontal) typical
Luminance output	270 cd/m²(typical)
Contrast ratio	1000 to 1 (typical), 8,000,000 : 1 (typical Dynamic Contrast On)
Faceplate coating	Glare with hard-coating > 7H
Backlight	LED edgelight system
Response Time	8 ms gray-to-gray (typical)
Color depth	16.7 million colors
Color Gamut	82%*

*[S2340T] color gamut (typical) is based on CIE1976 (82%) and CIE1931 (72%) test standards.

Resolutionn Specifications

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

Video display capabilities	480p, 576p, 720p, 1080p, 480i, 576i, 1080i

Preset Display Modes

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal/Vertical)
VGA, 720 x 400	31.5	70.0	28.3	-/+
VGA, 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	+/+
MAC, 1152 x 864	67.5	75.0	108.0	+/+
SXGA, 1280 x 1024	64.0	60.0	108.0	+/+
SXGA, 1280 x 1024	80.0	75.0	135.0	+/+
VESA STD, 1600 x 900	60.0	60.0	108.0	+/+
FHD, 1920 x 1080	67.5	60.0	148.5	+/+

Electrical Specifications

Video input signals	DP 1.2/HDMI 1.4/USB signal input support
AC/DC adaptor input voltage/frequency/current	100 VAC to 240 VAC / 50 Hz or 60 Hz $\pm$ 3 Hz / 1.5 A (Typical)
Inrush current	115 V / 230 V: 150 A (Max)
monitor input voltage	19.5Vdc, 4.62A

Physical Characteristics

Connector type	HDMI/DisplayPort/USB, black connector
Signal cable type	DisplayPort: Detachable, DisplayPort, Solid pins High Definition Multimedia Interface: Detachable, HDMI, 19 pins Universal Serial Bus: Detachable, USB, 9 pins
Extended to highest position	

Height (extended)	415.0 mm (16.3 inches)
Width	562.2 mm (22.1 inches)
Depth	218.0 mm (8.6 inches)
Compressed to lowest position	
Height	88.0 mm (3.5 inches)
Width	562.2 mm (22.1 inches)
Depth	339.0 mm (13.4 inches)
Weight	
Weight with packaging	10.5 kg (23.15 lb)

Environmental Characteristics

Temperature	
Operating	0 °C to 40 °C
Non-operating	Storage: -20 °C to 60 °C (-4 °F to 140 °F) Shipping: -20 °C to 60 °C (-4 °F to 140 °F)
Humidity	
Operating	10% to 80% (non-condensing)
Non-operating	Storage: 5% to 90% (non-condensing) Shipping: 5% to 90% (non-condensing)
Altitude	
Operating	5,000 m (16,400 ft) max
Non-operating	10,668 m (35,000 ft) max
Thermal dissipation	170.6 BTU/hour (maximum) 92.1 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	White	50 W (maximum) ** 27 W (typical)
Active-off mode	Inactive	Inactive	Blanked	White (Breathing)	Less than 0.5 W
Switch off	-	-	-	Off	Less than 0.5 W

green mode:
On: Lower Power Usage. (Default)
Off: Normal Power Usage with Advanced USB feature.

The OSD will only function in the normal operation mode. When any button is pressed in Active-off mode, one of the following messages will be displayed:
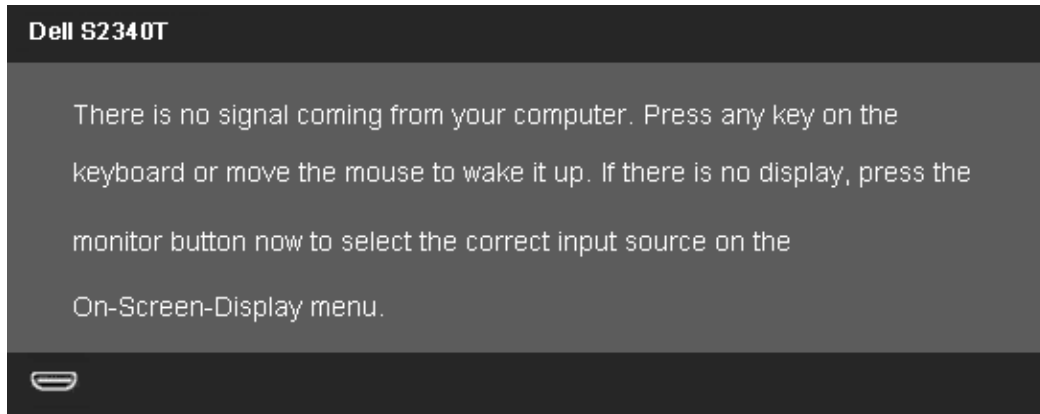
Activate the computer and the monitor to gain access to the OSD.

✎ **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, max audio, Touch, Webcam, Ethernet and USB active.

Touch Specifications

Item	Contents
Type	Projected Capacitive System
Panel Diagonal	23"
Panel Thickness	2.35 +/- 0.20 mm
Active Area	Extended beyond Viewing Area
Sensor Stack thickness	0.5 mm
Cover Glass Thickness	1.85 +/- 0.20 mm
Input Method	Bare finger, Thin gloves, conductive stylus
Touch point	10 touch-points
Response time	<10 ms
Output position resolution	32767 x 32767
Touch method	Fingers and thin gloves
Support OS	Windows 8 / Windows 8.1 Certified

Camera - MIC Specifications

Overview

The integrated USB camera and digital microphones allow you to take pictures, videos, and communicate with other computer users. The camera is located at the top of the monitor and is fixed.
When the camera is on, the white light next to the camera turns on.

Lens	Field of view	66.2 degree +/- 5 %
	Focus mode	Fixed Focus
	Focus area	53 cm~Infinity
	Focusing distance (normal mode)	1100 mm
Image Sensor	Active array size	2.0 mega-pixel
Video specification	Video frame rate	1920 x 1080 (1080p) - up to 30 frames per second
		640 x 480 (VGA) and below - up to 30 frames per second
Audio Specification	Microphone type	Mono Microphone x2
Interface		USB 2.0 high Speed
Power Supply		5.0 volts+- 5%

Pin Assignmentss

DisplayPort Connector

19-pin HDMI Connector
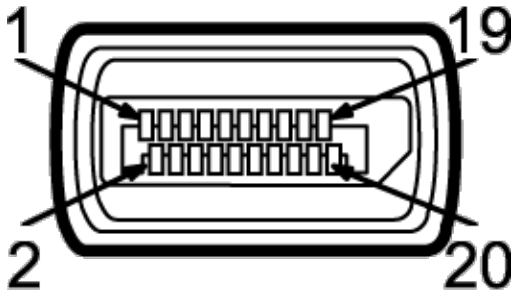
Pin Number	20-pin side of the connected signal cable	Pin Number	20-pin side of the connected signal cable	Pin Number	19-pin side of the connected signal cable	Pin Number	19-pin side of the connected signal cable
1	ML0(p)	11	GND	1	TMDS DATA 2+	11	TMDS CLOCK SHIELD
2	GND	12	ML3(n)	2	TMDS DATA 2 SHIELD	12	TMDS CLOCK-
3	ML0(n)	13	GND	3	TMDS DATA 2-	13	Floating
4	ML1(p)	14	GND	4	TMDS DATA 1+	14	Floating
5	GND	15	AUX(p)	5	TMDS DATA 1 SHIELD	15	DDC CLOCK (SDA)

6	ML1(n)	16	GND		6	TMDS DATA 1-	16	DDC DATA (SDA)
7	ML2(p)	17	AUX(n)		7	TMDS DATA 0+	17	Cable detect
8	GND	18	HPD		8	TMDS DATA 0 SHIELD	18	+5 V POWER
9	ML2(n)	19	DP_PWR Return		9	TMDS DATA 0-	19	HOT PLUG DETECT
10	ML3(p)	20	+3.3 V DP_PWR		10	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 Operating the Monitor.

Universal Serial Bus (USB) Interface

This section gives you information about the USB ports that are available on the left side of your monitor.

NOTE: The USB ports on this monitor are USB 3.0 compliant.

Transfer speed	Data Rate	Power Consumption
SuperSpeed	5 Gbps	4.5 W (Max., each port)
Hi-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
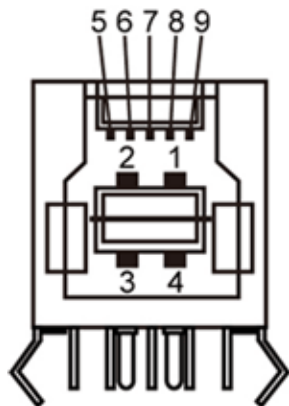
USB Downstream Connector
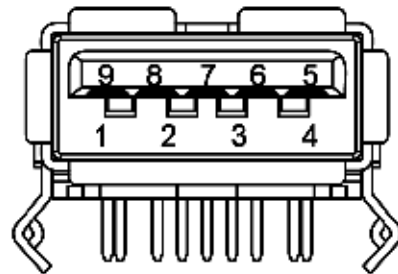
Pin Number	Signal Name
1	VBUS

Pin Number	Signal Name
1	VBUS

2	D-		2	D-
3	D+		3	D+
4	GND		4	GND
5	StdB_SSTX-		5	StdA_SSRX-
6	StdB_SSTX+		6	StdA_SSRX+
7	GND_DRAIN		7	GND_DRAIN
8	StdB_SSRX-		8	StdA_SSTX-
9	StdB_SSRX+		9	StdA_SSTX+
Shell	Shield		Shell	Shield

USB Ports

- 1 upstream - back
- 4 downstream - 2 on back; 2 on right side

NOTE: USB 3.0 functionality requires a USB 3.0 compatible computer.

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

Ethernet port

Ethernet port

USB Downstream Connector
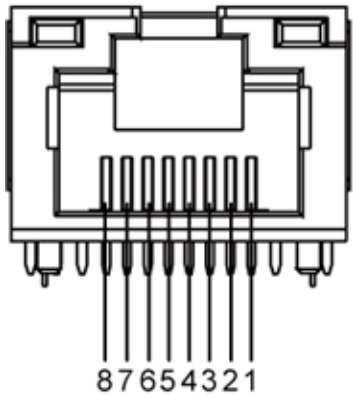
RJ45 pin out for 10BASE-T and 100BASE-TX

Pin Number	Name	Description
Pin 1	TX_D1+	Transmit +
Pin 2	TX_D1-	Transmit -
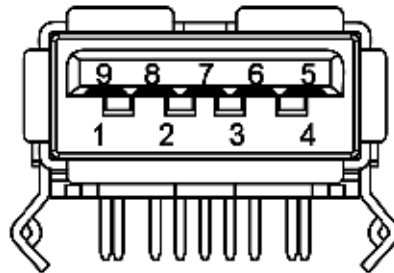
RJ45 Pinout for 1000Base-T (Gigabit LAN)

Pin Number	Name	Description
Pin 1	TX_D1+	Transmit +
Pin 2	TX_D1-	Transmit -

Pin 3	RX_D2+	Receive +		Pin 3	RX_D2+	Receive +
Pin 4	Not Used	Not Used		Pin 4	BI_D3+	Bi-directional Data+
Pin 5	Not Used	Not Used		Pin 5	BI_D3-	Bi-directional Data-
Pin 6	RX_D2-	Receive -		Pin 6	RX_D2-	Receive -
Pin 7	Not Used	Not Used		Pin 7	BI_D4+	Bi-directional Data+
Pin 8	Not Used	Not Used		Pin 8	BI_D4-	Bi-directional Data-

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. These pixels

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 Guideliness

Cleaning Your Monitor

⚠️ **WARNING: 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 the screen, wipe the screen with a soft, damp cloth. 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 scratch and show white scuff marks more than a lighter-colored monitor.
- To help maintain the best image quality on your monitor, use a dynamically changing screen saver and turn off your monitor when not in use.

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Setting Up the Monitor

Dell™ S2340T Monitor User's Guide

- Connecting the Monitor
- Organizing Your Cables

Connecting Your Monitor

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

To connect your monitor to the computer:

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

2. Connect the black HDMI cable or the DP (DisplayPort) cable to the corresponding video port on the back of your computer.
   Do not use all the cables on the same computer.
   Use all of the cables only when they are connected to different computers with appropriate video systems.

Connecting the black DisplayPort cable
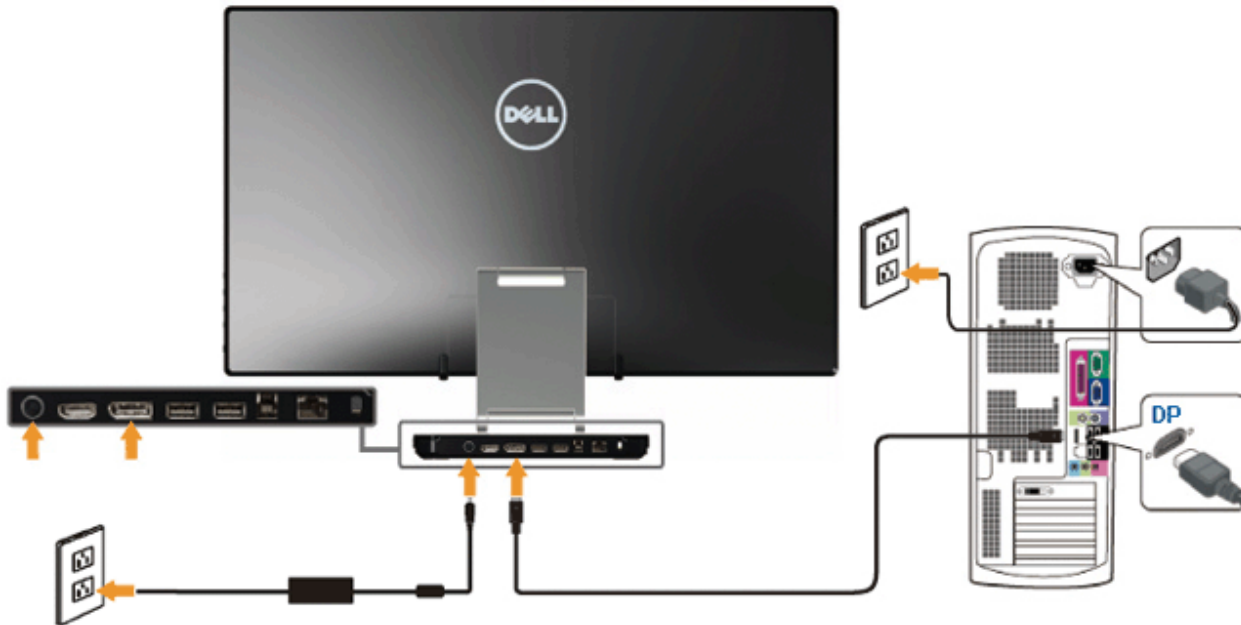
Connecting the HDMI Cable
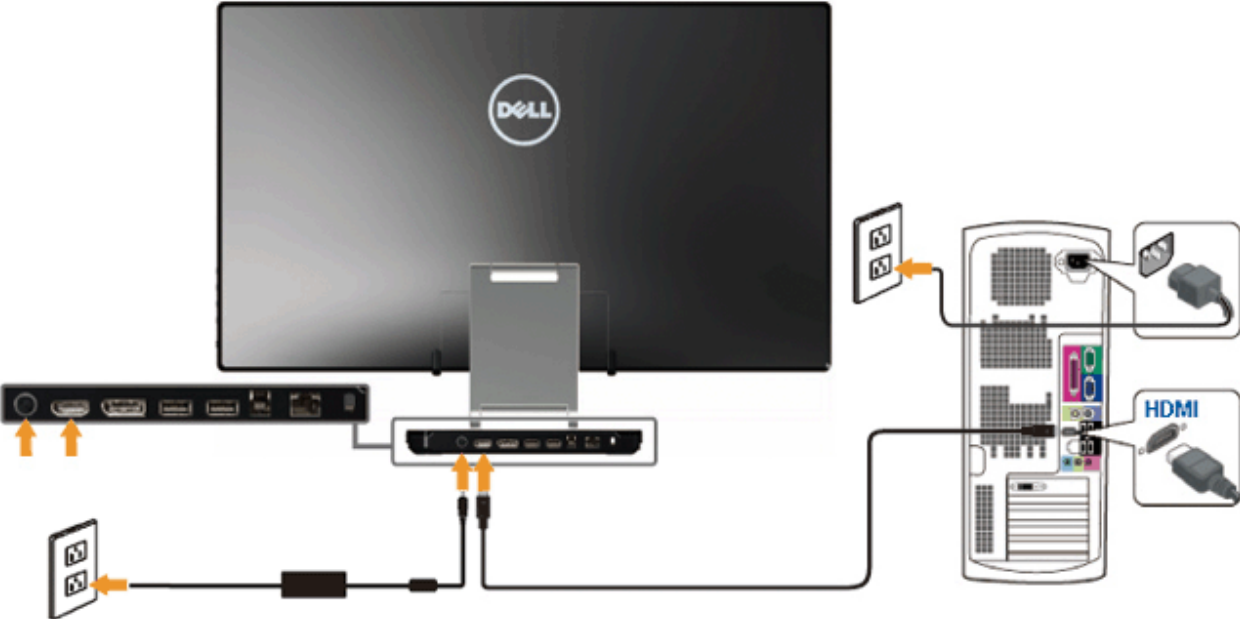
⚠ **CAUTION:** The Graphics are used for the purpose of illustration only. Appearance of the computer may vary.

Connecting the USB cable
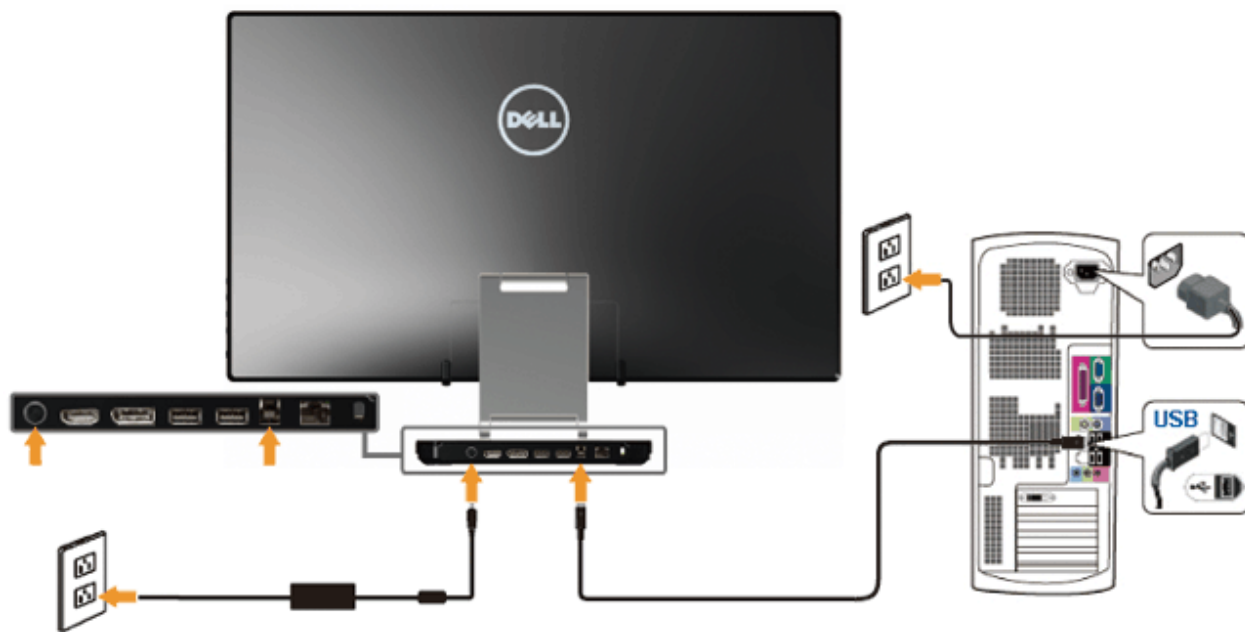
After you have completed connecting the HDMI/DP cable, follow the procedure below to connect the USB cable to the computer and complete your monitor setup:

1. Install the DisplayLink drivers from the Resource CD.
2. Change input source to USB.
3. Connect the upstream USB port (cable supplied) to an appropriate USB port on your computer. (See bottom view for details.)
4. If your monitor displays an image, installation is complete. If it does not display an image, see Solving Problems.
5. Use the Velcro strap on the monitor stand to organize the cables.

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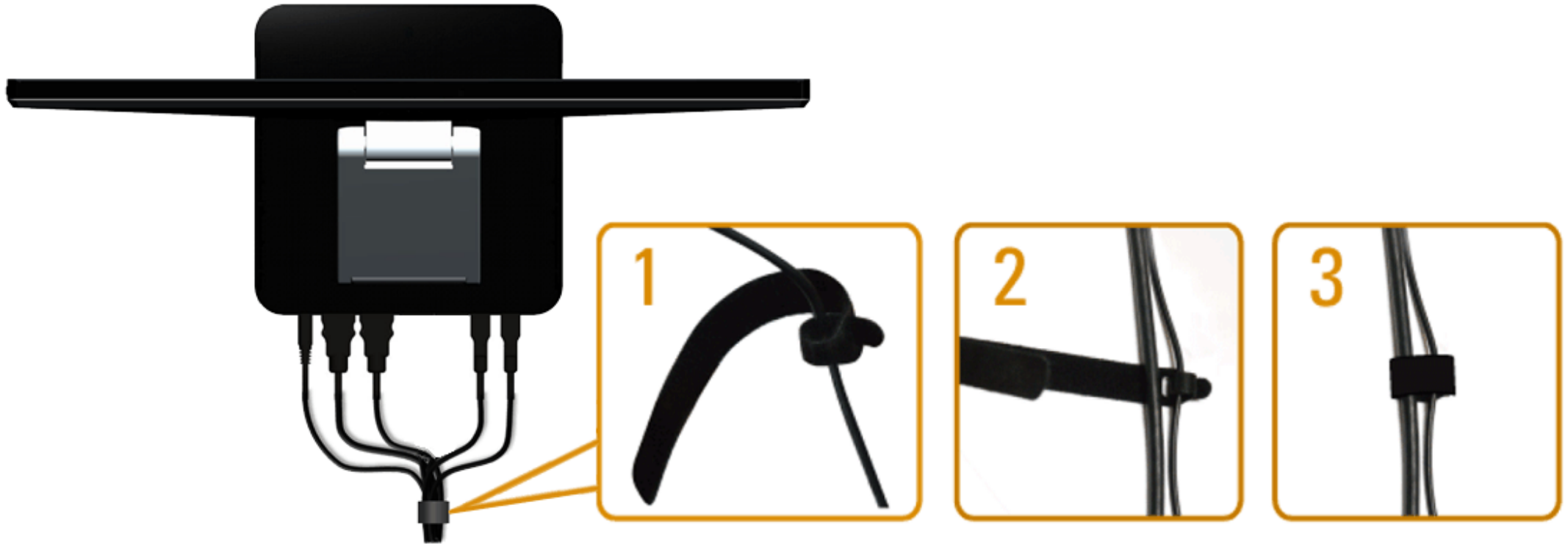
After attaching all necessary cables to your monitor and computer, (See Connecting Your Monitor for cable attachment,) use the Velcro strap to organize all cables as shown above.

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Operating the Monitor

Dell™ S2340T Monitor User's Guide

- [Using the Side Panel Controls](#)
- [Using the On-Screen Display (OSD) Menu](#)
- [Setting the Maximum Resolution](#)
- [USB Display, USB Audio, USB Ethernet set up](#)
- [Using the Tilt and Touch Usage Scenario](#)

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.
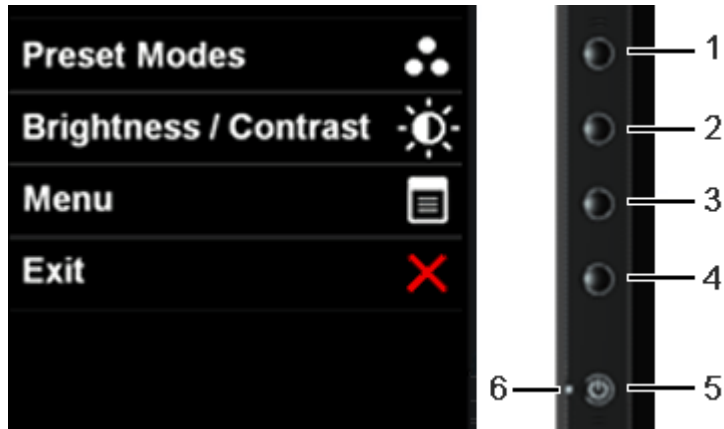
The following table describes the side panel buttons:

Side Panel Button	Description
1 **Shortcut key/ Preset Modes**	Use this button to choose from a list of preset color modes.
2 **Shortcut key / Brightness/Contrast**	Use this button to directly access the "Brightness/Contrast" menu.
3 **Menu**	Use the MENU button to launch the on-screen display (OSD) and select the OSD Menu. See [Accessing the Menu System](#).

4	✕ **Exit**	Use this button to go back to the main menu or exit the OSD main menu.
5	⏻ **Power**	Use the Power button to turn the monitor on and off.
6	**Light indicator**	The white LED indicates the monitor is on and fully functional. A glowing white LED indicates DPMS power save mode.

Using the On-Screen Display (OSD) Menu
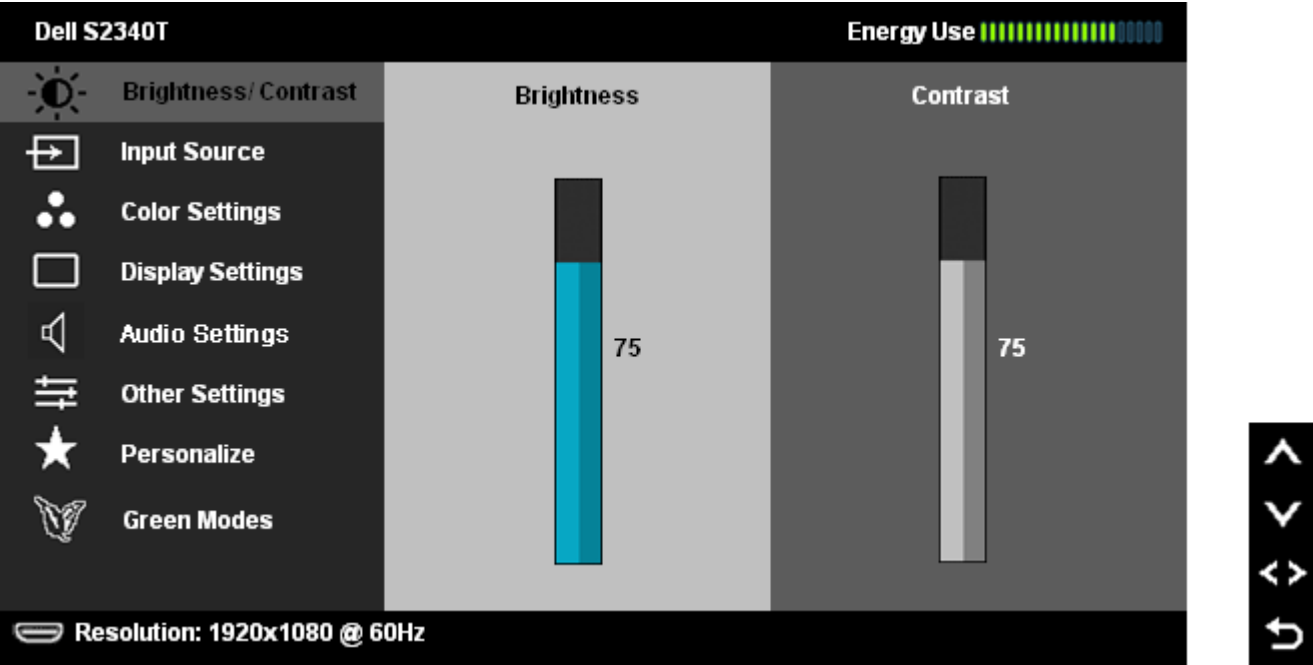
Accessing the Menu System

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.

1. Push the ▤ button to launch the OSD menu and display the main menu.
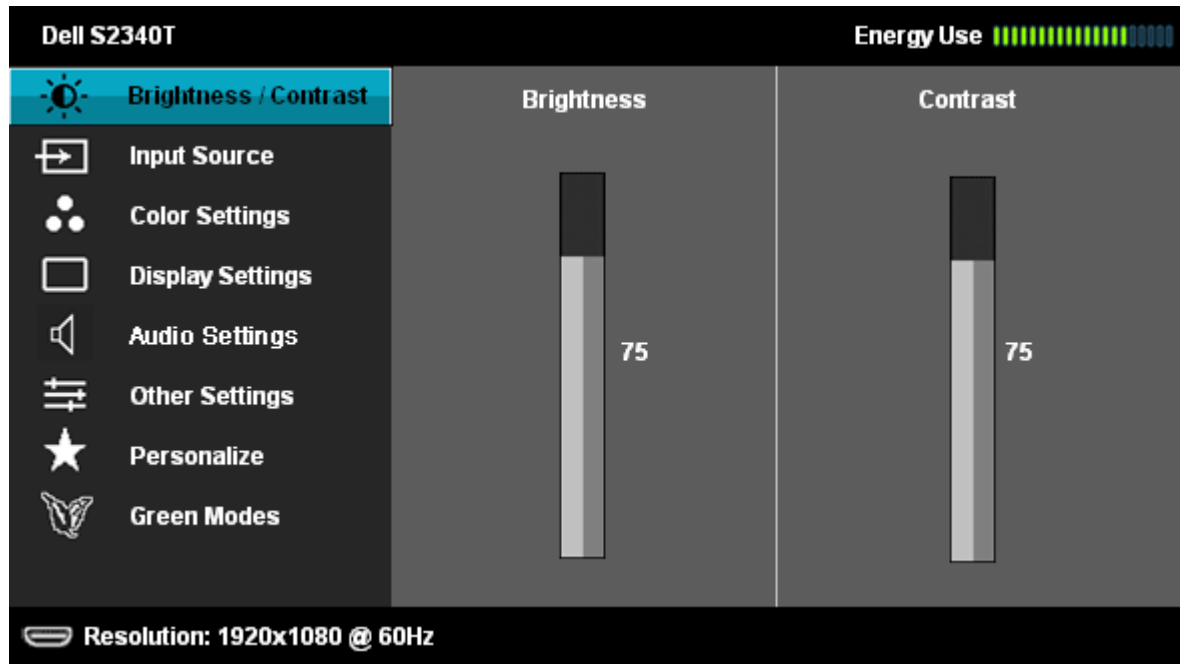
2. Push the ∧ and ∨ buttons to move between the setting options. As you move from one icon to another, the option name is highlighted. See the following table for a complete list of all the options available for the monitor.

3. Push the ➡ button once to activate the highlighted option.

4. Push ∧ and ∨ button to select the desired parameter.

5. Push ➡ to enter the slide bar and then use the ∧ and ∨ buttons, according to the indicators on the menu, to make your changes.

6. Select the ⤺ button to return to the main menu.

Icon	Menu and Submenus	Description
☀	**Brightness/Contrast**	Use this menu to activate Brightness/Contrast adjustment.
	Brightness	Brightness adjusts the luminance of the backlight. Push the ∧ button to increase brightness and push the ∨ button to decrease brightness (min 0 ~ max 100). **1,** Green Mode is turned ON by default. **2,** In Green Mode, the maximum brightness is optimally adjusted to meet Energy Star requirements. Power saving is done for the user automatically. **3,** If the user prefers a brighter setting, exit Green Mode by following these steps:

a. Press "⋀" button until the brightness level reaches 100 (maximum). Then, press-and-hold "⋀" for an additional 2 seconds. The following message pops up.

Dell S2340T

Green model will be switched off.

Do you want to continue?

No

Yes
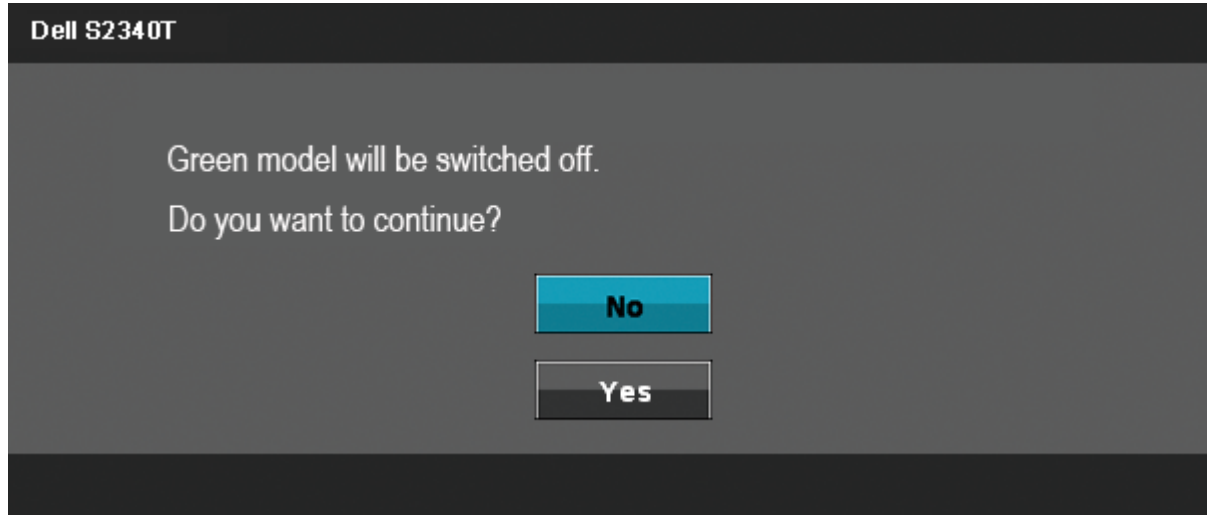
b. Answer the prompt. "**Yes**" to accept change. "**No**" to cancel and remain in Green Mode.

c. If "**Yes**" is selected, Performance Mode is turned ON. Brightness level can be adjusted higher if needed. In which case, auto power saving is disabled.

|		
	Contrast	Adjust Brightness first, and then adjust Contrast only if further adjustment is necessary. Push the ⋀ button to increase contrast and push 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.
⊡	**Input Source**	Use the **Input Source** menu to select between different video signals that may be connected to your monitor.
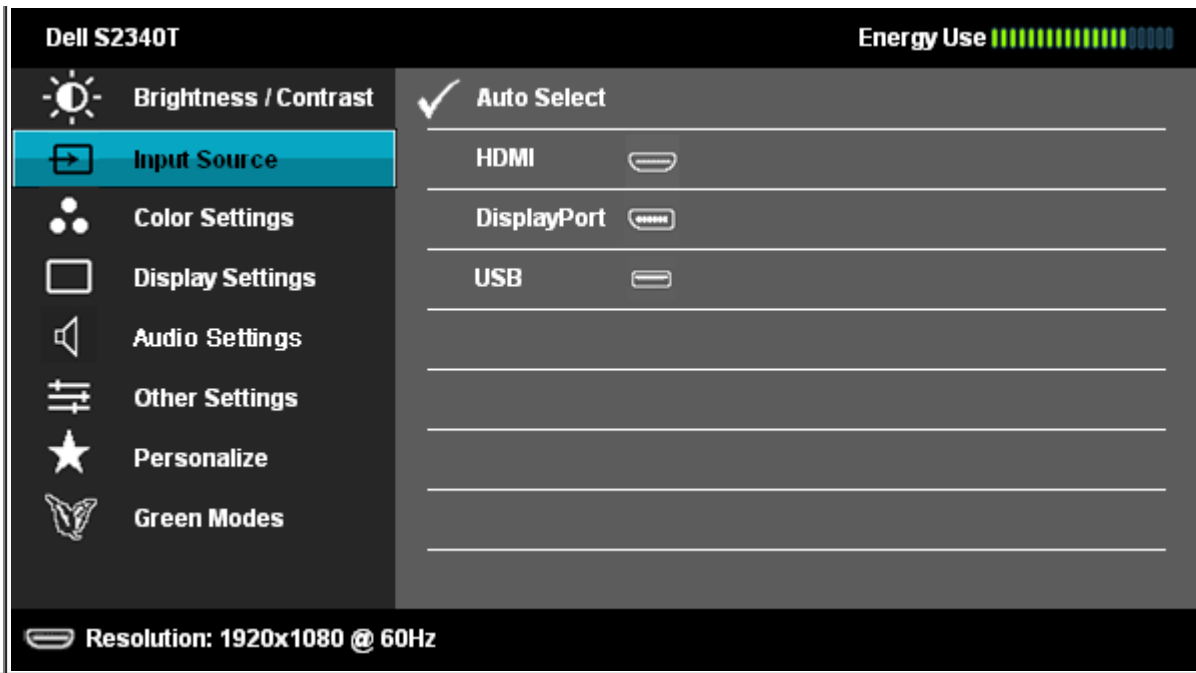
		Dell S2340T Energy Use ‖‖‖‖‖‖‖‖‖‖‖‖‖‖	
		☀ **Brightness / Contrast** ✓ **Auto Select**	
		⊞ **Input Source** **HDMI** ▭	
		⠤ **Color Settings** **DisplayPort** ▭	
		▭ **Display Settings** **USB** ▭	
		◁ **Audio Settings**	
		⇄ **Other Settings**	
		★ **Personalize**	
		⚐ **Green Modes**	
		▭ Resolution: 1920x1080 @ 60Hz	
	Auto Select	Press ➡ to select **Auto Select**, the monitor auto detects either the HDMI input or the DislpayPort input or USB input.	
▭	**HDMI**	Select **HDMI input** when you are using the HDMI connector. Press the ➡ button to select the HDMI input source.	
▭	**DisplayPort**	Select **DisplayPort input** when you are using the DisplayPort (DP) connector. Press the ➡ to select the DisplayPort input source.	
▭	**USB**	Select **USB input** when you are using the USB monitor. Press the ➡ button to select the USB input source.	
⠤	**Color Settings**	Use the **Color Settings** to adjust the color setting mode and color temperature. There are different color-setting sub-menus for HDMI/DisplayPort.	

	Dell S2340T Energy Use ‖‖‖‖‖‖‖‖‖‖‖‖▯▯▯▯▯
	☀ Brightness / Contrast **Input Color Format** ▶ **RGB**
	⇥ Input Source **Preset Modes** ▶ **Standard**
	⠿ **Color Settings** Image Enhance
	▭ Display Settings Reset Color Settings
	◁ Audio Settings
	⇉ Other Settings
	★ Personalize
	⩗ Green Modes
	˄ ˅ → ✕
	⬡ Resolution: 1920x1080 @ 60Hz
Input Color Format	**Dell S2340T** Energy Use ‖‖‖‖‖‖‖‖‖‖‖‖▯▯▯▯▯
	☀ Brightness / Contrast **Input Color Format** ✓ **RGB**
	⇥ Input Source **Preset Modes** **YPbPr**
	⠿ Color Settings Image Enhance
	▭ Display Settings Reset Color Settings
	◁ Audio Settings
	⇉ Other Settings
	★ Personalize
	⩗ Green Modes
	˄ ˅ ✓ ↩
	⬡ Resolution: 1920x1080 @ 60Hz
Preset Modes	You can choose **Standard, Multimedia, Movie, Game, Text, Warm, Cool** or **Custom Color;**

- **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 most movie applications.
- **Game**: Loads color settings ideal for most gaming applications.
- **Text**: Loads color settings ideal for text.

	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 up and down buttons to adjust the three colors (R, G, B) values and create your own preset color mode.
Hue	This feature can shift color of video image to green or purple. This is used to adjust the desired flesh tone color. Use ![up](up) or ![down](down) to adjust the hue from '0' to '100'. Press ![up](up) to increase the green shade of the video image. Press ![down](down) to increase the purple shade of the video image. **NOTE:** Hue adjustment is available only for **Movie** and **Game** mode.
Saturation	This feature can adjust the color saturation of the video image. Use ![up](up) or ![down](down) to adjust the saturation from '0' to '100'. Press ![up](up) to increase the monochrome appearance of the video image. Press ![down](down) to increase the colorful appearance of the video image. **NOTE:** Saturation adjustment is available only for **Movie** and **Game** mode.
Demo Mode	Vertically splits the screen into two segments. The left half of the screen in the normal mode and the right half of the screen is displayed in the color enhanced mode. **NOTE:** Demo Mode is only available for **Movie** mode.
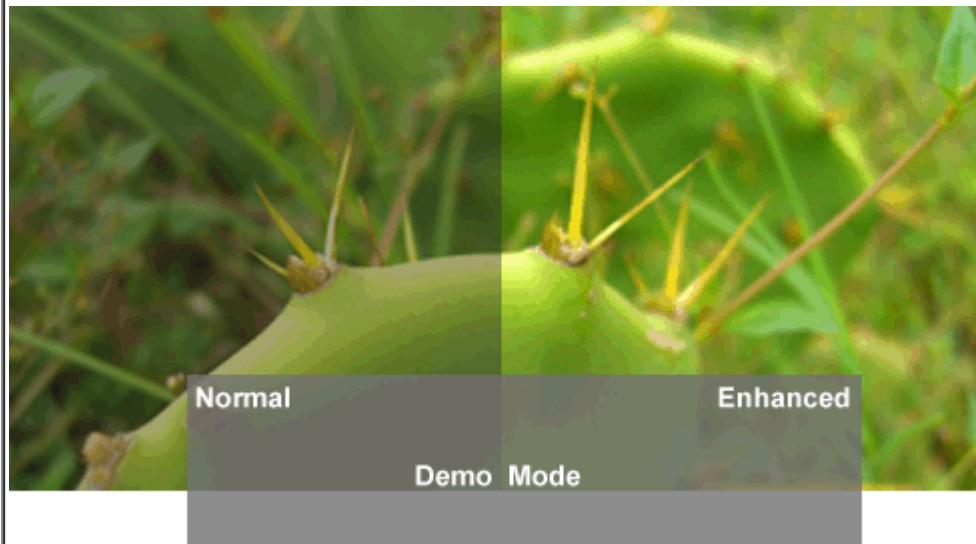
	Image Enhance	To enhance image clarity. **NOTE: Image Enhance** is only available for **Standard**, **Multimedia**, **Movie** and **Game** mode.
	Reset Color Settings	Reset your monitor color settings to the factory settings.
	Display Settings	Use the Display Settings to adjust image.
	Aspect Ratio	Adjust the image ratio as wide 16:9, 4:3 or 5:4.
	Sharpness	This feature can make the image look sharper or softer. Use ∧ or ∨ to adjust the sharpness from '0' to '100'.
	Dynamic Contrast	Dynamic Contrast adjusts the contrast ratio to 8,000,000 : 1. Push the ➡ button to select the Dynamic Contrast "On" or "Off". **NOTE:** Dynamic Contrast provides higher contrast if you choose **Game** mode and **Movie** mode.
	Reset Display Settings	Select this option to restore default display settings.
	Audio Settings	Use the **Audio Settings** menu to adjust the audio settings.

	Dell S2340T		**Energy Use** ‖‖‖‖‖‖‖‖‖‖‖‖‖‖
	☼ **Brightness / Contrast**	**Speaker Volume** ▶	50
	⊞ **Input Source**	**Audio Source** ▶	HDMI / DP
	⁛ **Color Settings**	**Reset Audio Setting**	
	▢ **Display Settings**		
	◁ **Audio Settings**		
	≡ **Other Settings**		
	★ **Personalize**		∧
	▽ **Green Modes**		∨
			→
	⬭ **Resolution: 1920x1080 @ 60Hz**		✕

	Speaker Volume	Allows you to increase the speaker volume. Use ∧ and ∨ buttons to adjust the speaker volume from '0' to '100'.
	Audio Source	Use the Audio Select to choose the Audio output.
	Reset Audio Setting	Resets your monitor audio settings to the factory defaults.
≡	**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 S2340T — Energy Use |||||||||||||||||||
	-☼- **Brightness / Contrast** **Language** ▶ English
	⇥ **Input Source** **Menu Transparency** ▶ 20
	∴ **Color Settings** **Menu Timer** ▶ 20s
	▢ **Display Settings** **Menu Lock** ▶ Unlock
	◁ **Audio Settings** **Energy Smart** ▶ Off
	⇶ **Other Settings** **DDC/CI** ▶ Enable
	★ **Personalize** **LCD Conditioning** ▶ Disable
	🜲 **Green Modes** **Ethernet** ▶ Off
	Factory Reset **Reset All Settings**
	⊂ Resolution: 1920x1080 @ 60Hz ∧ ∨ → ✕

Language	Allows you to set the OSD display to one of six languages: English, Espanol, Francais, Deutsch, Simplified Chinese or Japanese.
Menu Transparency	Select this option to change the menu transparency by pressing ∧ and ∨ buttons (Minimum: 0 ~ Maximum: 100).
Menu Timer	OSD Hold Time: Sets the length of time the OSD will remain active after the last time you pressed a button. Use the ∧ or ∨ 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 buttons are locked. **NOTE:** Lock function – Either soft lock (through OSD menu) or hard lock (Press and hold the button above power button for 10 sec) Unlock function– **Only** hard unlock (Press and hold the button above power button for 10 sec)
Energy Smart	• When Energy Smart is switched On, the Brightness function shall be disabled. • When the Energy Smart is Off, Brightness function shall be activated. • The text and the icon of "Dynamic Contrast" shall be deactivated and grey out. • When Energy Smart is On, the dynamic dimming feature automatically reduces the screen's brightness level when the displayed image contains a high proportion of bright areas. • When Energy Smart is On, The **'Energy Use indicator' on OSD menu** should response to the changes in the screen content.
DDC/CI	DDC/CI (Display Data Channel/Command Interface) allows your monitor parameters (brightness, color balance etc) to be adjustable via software on your computer. You can disable this feature by selecting "Disable". Enable this feature for best user experience and optimum performance of your monitor.
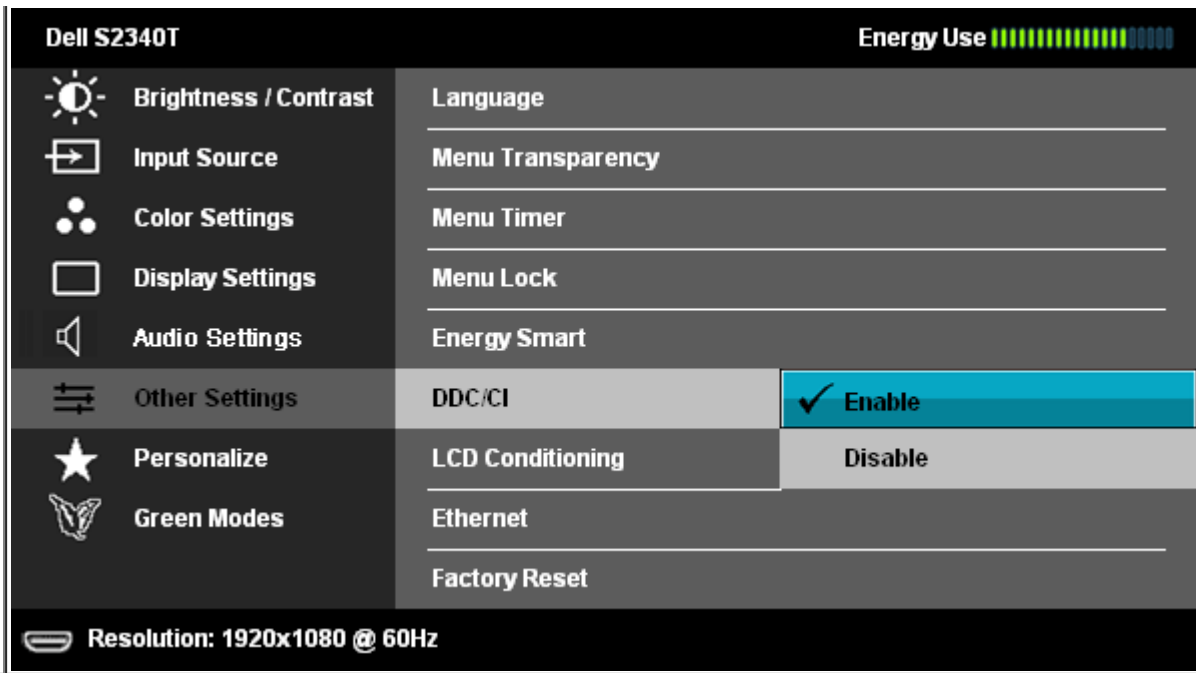
LCD Conditioning	Helps reduce minor cases of image retention. Depending on the degree of image retention, the program may take some time to run. You can enable this feature by selecting "Enable".
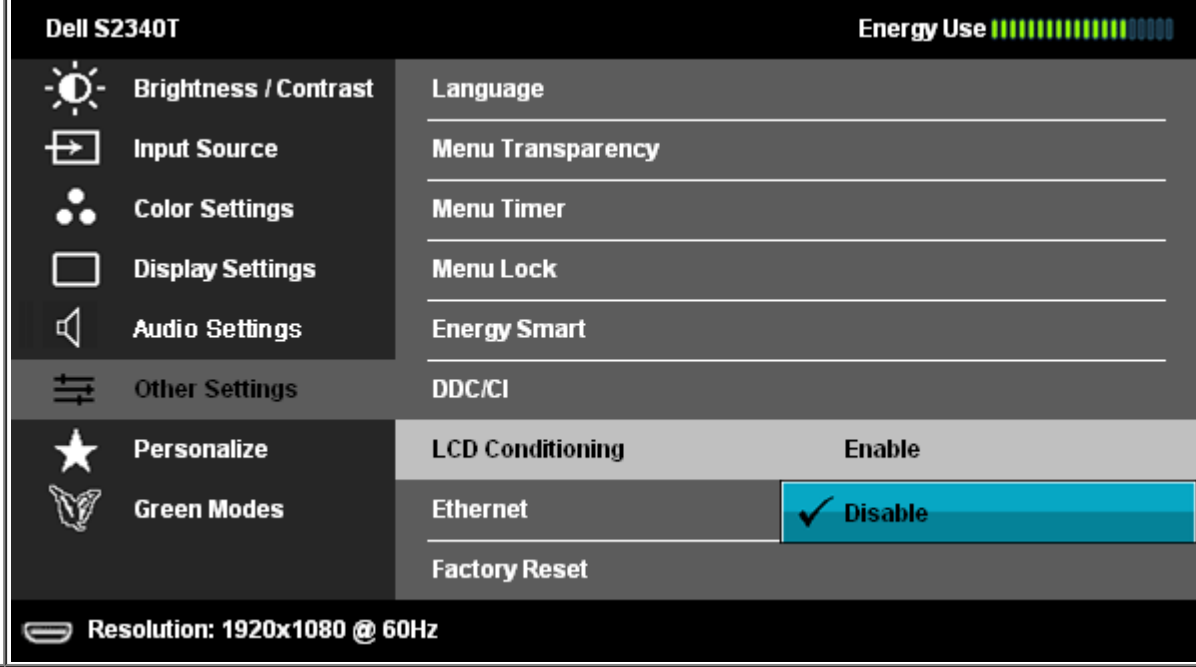
Ethernet	Select to active from power save mode when Ethernet cable plug in.
Factory Reset	Reset all OSD settings to the factory preset values.
Personalize	User can select from "Preset Modes", "Brightness/Contrast", "Aspect Ratio", "Input Source" and set as shortcut key.

| | **Green Mode** | On: Lower Power Usage. (Default)
Off: Normal Power Usage with Advanced USB feature.

When user selects 'USB' in 'Input Source', a dialogue will pop up and disappear after 4 seconds: |

> **Dell S2340T**
>
> Swiching out of Green mode...
>
> ⊂⊃

When there is no input source and if the user selects 'USB', a dialogue will pop up and disappear after 4 seconds:

> **Dell S2340T**
>
> Swiching out of Green mode...
>
> ⊂⊃

When user selects 'Power Saver' mode, a dialogue will pop up and disappear after 4 seconds:

> **Dell S2340T**
>
> Advanced USB features will be disabled.
>
> ⊂⊃

OSD Warning Messages

When Dynamic Contrast Feature is enabled (in these modes: Game and Movie), the manual brightness adjustment is disabled.
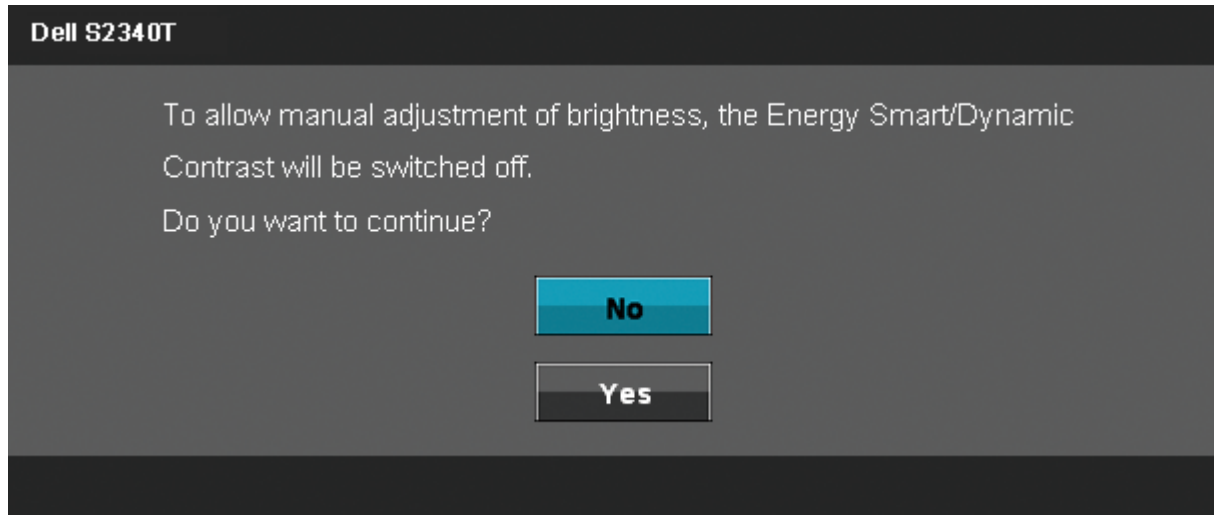
When the monitor does not support a particular resolution mode you will see the following message:
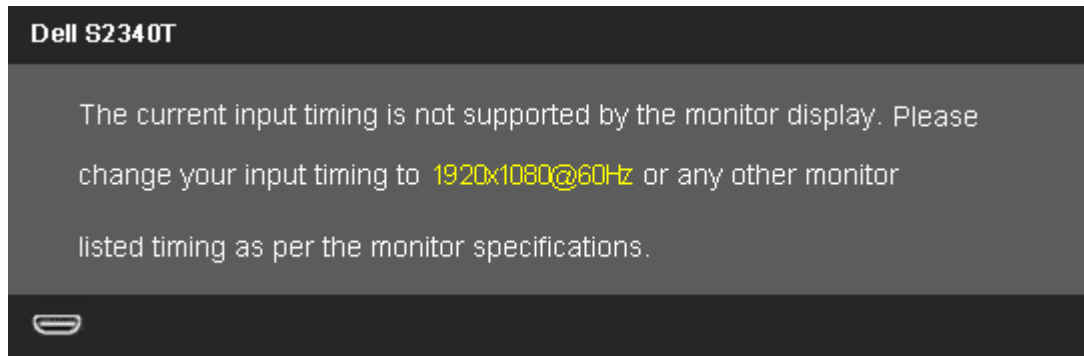
This means that the monitor cannot synchronize with the signal that it is receiving from the computer. See Monitor Specifications for the Horizontal and Vertical frequency ranges addressable by this monitor. Recommended mode is 1920 x 1080.

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

Dell S2340T

The function of adjusting display setting using PC application will be disabled.

Do you wish to disable DDC/CI function?

No

Yes

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

Dell S2340T

Entering Power Save Mode.

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

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

DP/HDMI/USB input

Dell S2340T

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 DisplayPort/HDMI input is selected and both DisplayPort/HDMI cables are not connected, a floating dialog box as shown below appears.

Dell S2340T

No DisplayPort Cable

The display will go into Power Save Mode in 5 minutes

or

Dell S2340T

No HDMI Cable

The display will go into Power Save Mode in 5 minutes

See Solving Problems for more information.

Setting the Maximum Resolution

To set the Maximum resolution for the monitor:

Windows Windows® 7, Windows® 8 / Windows® 8.1:

1. For Windows® 8 / Windows® 8.1 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.

USB Display, USB Audio, USB Ethernet set up

Only for Windows® 7 or Windows® 8 / Windows® 8.1

1. Intstal the included Driver CD.
2. Double click on Setup.exe.
3. Follow the on-screen instructions until the installation is complete.

Using the Tilt and Touch Usage Scenario

 With the built-in stand, you can tilt the monitor for the most comfortable viewing angle.

Troubleshooting

Dell™ S2340T Monitor User's Guide

- [Self-Test](#)
- [Built-in Diagnostics](#)
- [In-Store Demo](#)
- [Common Problems](#)
- [Camera Problems](#)
- [Touch Problem](#)
- [Product Specific Problems](#)
- [Universal Serial Bus Specific Problems](#)
- [DisplayLink Specific 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 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.

or

Dell S2340T

No HDMI Cable

The display will go into Power Save Mode in 5 minutes
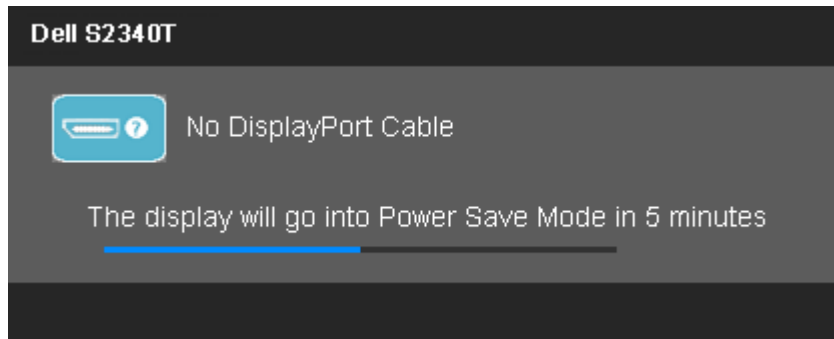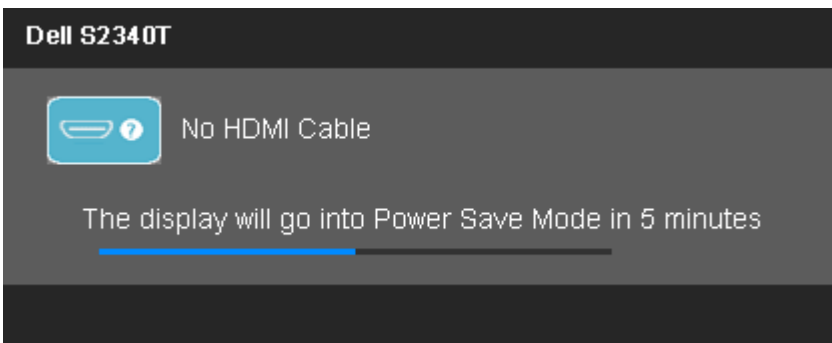
4. This box also appears during normal system operation if the video cable becomes disconnected or damaged.
5. Turn off your monitor and reconnect the video cable; then turn on both your computer and the monitor.

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*.

Preset Modes

Brightness / Contrast

Menu

Exit
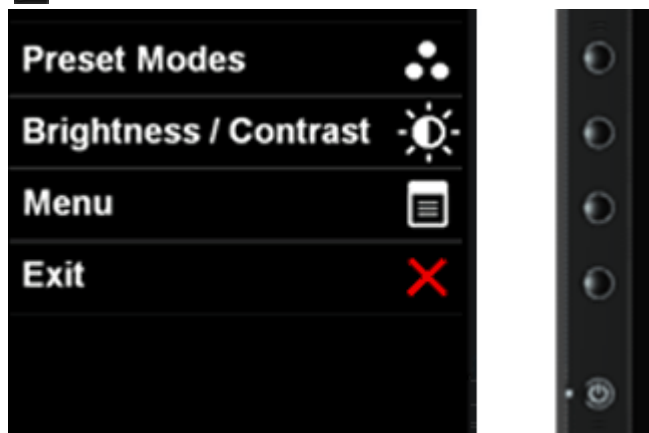
To run the built-in diagnostics:

1. Ensure that the screen is clean (no dust particles on the surface of the screen).
2. Unplug the video cable(s) from the back of the computer or monitor. The monitor then goes into the self-test mode.
3. Press and hold the **Button 1** and **Button 4** on the front panel simultaneously for 2 seconds. A gray screen appears.
4. Carefully inspect the screen for abnormalities.
5. Press the **Button 4** on the front panel again. The color of the screen changes to red.
6. Inspect the display for any abnormalities.
7. Repeat steps 5 and 6 to inspect the display in green, blue, black, white, and text screens.

The test is complete when the text 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.

In-Store Demo

To activate the In-Store Demo:

1. Turn on the monitor.
2. Unplug the video cable(s) from the back of the monitor.
3. Press and hold the Button 2 along with the Button 4 on the front panel for 5 seconds. Flashing labels appear floating randomly on screen.
4. To exit In-Store Demo, press and hold the Button 2 along with the Button 4 on the front panel for 5 seconds.

NOTE: If a video cable is inserted with signal while in **In-Store Demo**, the display becomes to **Demo mode**.
NOTE: In-Store Demo is not a diagnostic tool to test for abnormalities. Instead, use the built-in diagnostics.

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 Select button.
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 Select button.
Poor Focus	Picture is fuzzy, blurry, or ghosting	• 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	• 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. • Adjust brightness & contrast controls via OSD.
Geometric Distortion	Screen not centered correctly	• Reset the monitor to Factory Settings.
Horizontal/Vertical Lines	Screen has one or more lines	• 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.
Synchronization Problems	Screen is scrambled or appears torn	• Reset the monitor to Factory Settings. • 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	• 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	• 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.

Camera Problems

COMMON SYMPTOMS	WHAT YOU EXPERIENCE	POSSIBLE SOLUTIONS
No Power	The camera is not working and the LED is off	If the monitor has no power, see Troubleshooting Your Monitor. Verify if the camera is detected by Windows.
Camera is not detected	The camera is not working and the LED is on	Remove and insert the USB cable.
Poor Focus	The camera captures fuzzy or unclear videos and pictures	Verify the camera lens is clean. Clean the camera surface using a damp, soft lint-free cloth.

		Increase the available ambient light or change the source of light.
Poor quality video on the Internet	The camera captures grainy images while using it on the Internet	Check your internet connection speed. A slow Internet connection could cause similar problems with the video. It is recommended to use a broadband connection with good throughput.
No Image	Blank screen	Increase the available ambient light, change the direction of the camera, or change the source of light.
		Ensure the camera is detected correctly by the Windows operating system.
Slow frame rate in video capture mode	The capture video is not smooth	Install the latest DirectX and the latest webcam driver.
Microphone is not working	The webcam captures video but not sound	Speak closer to the microphone.
		The integrated microphone is designed to have a wider reception area for recording but it has limitations. Try moving closer to the microphone or ensure that you are within the recording area for the microphone.
		Check if the volume is muted. To enable sound: 1. Click **Start**®**Control Panel**®**Sound and Audio Devices**. 2. Click to uncheck the box next to **Mute**.
		Test the microphone. To test the microphone, 1. Click **Start**®**Control Panel**®**Sound and Audio Devices**. 2. Click the **Voice** tab. 3. Click the **Test Hardware** button and follow the instructions.

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.

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 Image Setting OSD. • Reset the monitor to Factory Settings.
Cannot adjust the monitor with the buttons on the front panel	OSD does not appear on the screen	• Turn off the monitor, unplug the power cord, plug back, and then turn on the monitor. • Check whether OSD is locked. If yes, press and hold button above power button for 10 seconds to unlock. See Menu Lock.
No Input Signal when user controls are pressed	No picture, the LED light is white breathing. When you press "+", "-" or "Menu" key, the message "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	• 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 to make sure Video Source to **HDMI**, **DP** or **USB** is powered and playing video media. • Check whether the signal cable is plugged in properly. Re-plug the signal cable if necessary. • Reset the computer or video player.

| | source on the On-Screen-Display menu." appears | |

| 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. |

Universal Serial Bus (USB) Specific Problems

Specific Symptoms	What You Experience	Possible Solutions
USB interface is not working	USB peripherals are not working	• Check that your monitor is turned ON. • Reconnect the upstream cable to your computer. • Reconnect the USB peripherals (downstream connector). • Switch off and then turn on the monitor again. • Reboot the computer. • Some USB devices like external portable HDD require higher electric current; connect the device directly to the computer system.
USB 3.0 speed is slow	USB 3.0 peripherals working slowly or not working at all	• Check that your computer is USB 3.0 compatible. • Some computers have both USB 3.0 and USB 2.0 ports. Ensure that the correct USB port is used. • Reconnect the upstream cable to your computer. • Reconnect the USB peripherals (downstream connector). • Reboot the computer.

DisplayLink Specific Problems

Specific Symptoms	What You Experience	Possible Solutions
USB display is not working	No USB video function	• Check the DisplayLink driver is installed.
USB audio is not working	No USB audio function	• Check the DisplayLink driver is installed.
Ethernet is not working	Can not connect with internet	• Check the DisplayLink driver is installed. • Check the internet is available

Appendix

Dell™ S2340T Monitor User's Guide

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

⚠WARNING: Safety Instructions

For displays with glossy bezels the user should consider the placement of the display as the bezel may cause disturbing reflections from surrounding light and bright surfaces.

⚠ **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.

Contacting Dell

To get online monitor support content:
Visit www.dell.com/support/monitors

Setting Up Your Monitor

Dell™ S2340T 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™ S2340T Monitor

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

In Windows® 7 or Windows® 8 / Windows® 8.1:

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 http://www.NVIDIA.com).

6. After installing the drivers for your Graphics Adapter, attempt to set the resolution to **1920 x 1080** again.

7. DisplayLink or Dell website for driver download.

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