## Dell S2716DG Monitor User's Guide



Model: S2716DG Regulatory model: S2716DGb

### 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 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 quide for setup instructions.

 Monitor
Stand Riser
Stand Base

	Power Cable (Varies by Countries)
	DP Cable
Ó	USB 3.0 Upstream Cable (Enables the USB Ports on the Monitor)
	<ul> <li>Drivers and Documentation Media</li> <li>Quick Setup Guide</li> <li>Safety, Environmental, and Regulatory Information</li> </ul>

#### **Product Features**

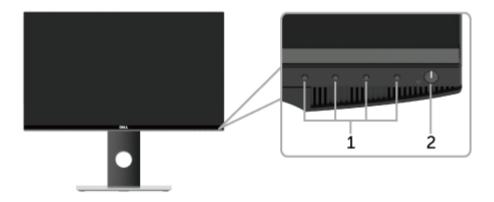
The **Dell S2716DG** flat panel display has an active matrix, Thin-Film Transistor (TFT), Liquid Crystal Display (LCD) and LED backlight. The monitor features include:

- 68.47 cm (27-inch) viewable area (measured diagonally). Resolution: Up to 2560 x 1440 through DisplayPort and HDMI, with full-screen support or lower resolutions.
- Nvidia G-Sync-enabled monitor, with a extremely high refresh rate of 144 Hz and a rapid response time of 1 ms.
- Color gamut of 72% NTSC.
- Tilt, swivel, height, and rotate adjustment capabilities.
- Removable stand and Video Electronics Standards Association (VESA™) 100 mm mounting holes for flexible mounting solutions.
- Digital connectivity with DisplayPort and HDMI.
- Equipped with 1 USB upstream port and 4 USB downstream ports.
- 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.
- Energy Star compliance.
- Security lock slot.
- Stand lock.
- EPEAT Silver Rating.
- TCO-Certified Displays.
- Arsenic-Free glass and Mercury-Free for the panel only.
- 0.5 W standby power when in sleep mode.
- Energy Gauge shows the energy level being consumed by the monitor in real time.
- Analog backlight dimming control for flicker-free display.

#### **Identifying Parts and Controls**

#### **Front View**



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

**NOTE:** 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.

#### **Back View**





#### Back view with monitor stand

Label	Description	Use
1	VESA mounting holes (100 mm x 100 mm - behind attached VESA Cover)	Wall mount monitor using VESA-compatible wall mount kit (100 mm x 100 mm).
2	Regulatory label	Lists the regulatory approvals.
3	Stand release button	Releases stand from monitor.
4	Security lock slot	Secures monitor with security lock (security lock not included).
5	Barcode serial number label	Refer to this label if you need to contact Dell for technical support.
6	Cable-management slot	Use to organize cables by placing them through the slot.

#### **Side View**



Label	Description	Use	
1	USB downstream port	Connect your USB device.	
		<b>NOTE:</b> To use this port, you must connect the USB cable (shipped with your monitor) to the USB-upstream port on the monitor and to your computer.	
2	USB charging port	Connect your USB device (also supports fast charging).	
3	Headphone-out jack	Connect the headphones.	



Bottom view without monitor stand

Label	Description	Use		
1	Power cable connector	Connect the power cable (shipped with your monitor).		
2	Stand lock feature	To lock the stand to the monitor using a M3 x 6 mm screw (screw not included).		
3	Line-out port	Connect your speakers.		
		NOTE: This port does not support headphones.		
4	DisplayPort	Connect your computer with DP cable (shipped with your monitor).		
5	HDMI port	Connect your computer with HDMI cable.		
6	USB upstream port	Connect the USB cable (shipped with your monitor) to this port and your computer to enable the USB ports on your monitor.		
7	USB downstream port	Connect USB device.		
		<b>NOTE:</b> To use this port, you must connect the USB cable (shipped with your monitor) to the USB-upstream port on the monitor and to your computer.		

#### **Monitor Specifications**

#### **Flat Panel Specifications**

Model	\$2716DG	
Screen type	Active matrix - TFT LCD	
Panel type	TN	
Viewable image		
Diagonal	684.67 mm (27 inches)	
Horizontal, Active Area	596.74 mm (23.49 inches)	
Vertical, Active Area	335.66 mm (13.21 inches)	
Area	200301.74 mm <sup>2</sup> (310.30 inch <sup>2</sup> )	
Pixel pitch	0.2331 mm x 0.2331 mm	
Viewing angle 160° (vertical) typical		
	170° (horizontal) typical	
Luminance output	350 cd/m² (typical)	
Contrast ratio	1000 to 1 (typical)	
Faceplate coating	Anti-Glare with 3H hardness	
Backlight	LED edgelight system	
Response time 3 ms (typical) for NORMAL mode		
	1 ms (typical) for FAST mode	
Color depth	16.7 million colors	
Color gamut	72%* (CIE1931)	

\* Color gamut (typical) is based on CIE1976 (82%) and CIE1931 (72%) test standards.

#### **Resolution Specifications**

Model	\$2716DG
Horizontal scan range	69.7 kHz to 250.6 kHz (automatic)
Vertical scan range	30 Hz to 145 Hz (automatic)
Maximum preset resolution	2560 x 1440 at 144 Hz

Model	\$2716DG
Video display capabilities (HDMI & DP playback)	480p, 576p, 720p, 1080p, QHD

#### **Preset Display Modes**

#### HDMI Display Modes

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal/ Vertical)
IBM VGA,640 x 480p	31.5	60	25.2	-/-
VESA, 720 x 480p	29.83	60	26.25	+/-
VESA, 720 x 576p	29.55	50	26	+/-
VESA, 800 x 600p	37.88	60	40	+/+
VESA, 1024 x 768p	48.36	60	65	-/-
HDTV, 1280 x 720p	37.5	50	74.25	+/+
HDTV, 1280 x 720p	45	60	74.25	+/+
HDTV, 1920 x 1080p	55.6	50	141.5	-/+
HDTV, 1920 x 1080p	67.5	60	148.5	+/+
VESA, 2560 x 1440p	88.8	60	241.5	+/-

#### **DP Display Modes**

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal/ Vertical)
VESA, 640 x 480	31.5	60	25.2	-/-
VESA, 800 x 600	37.88	60	40	+/+
VESA, 1024 x 768	48.36	60	65	-/-
VESA, 2560 x 1440	88.8	60	241.5	+/-
VESA, 2560 x 1440	127.4	85	346.5	+/-
VESA, 2560 x 1440	150.9	100	410.5	+/-
VESA, 2560 x 1440	182.9	120	497.75	+/-
VESA, 2560 x 1440	209.5	144	569.75	+/+
VESA, 2560 x 1440	34.9	24	95	+/-



**NOTE:** This monitor supports NVIDIA G-Sync. Please visit http://www.geforce.com/hardware/technology/g-sync/supportedgpus?field\_gpu\_type\_value=desktop-gpus&=Apply to know whether your NVIDIA graphics card supports the G-SYNC feature.

#### **Electrical Specifications**

Model	S2716DG	
Video input signals	<ul> <li>HDMI 1.4, 600 mV for each differential line, 100 ohm input impedance per differential pair</li> </ul>	
	<ul> <li>DisplayPort 1.2, 600 mV for each differential line, 100 ohm input impedance per differential pair</li> </ul>	
AC input voltage/frequency/ current	100 VAC to 240 VAC / 50 Hz or 60 Hz $\pm$ 3 Hz / 1.5 A (typical)	
Inrush current	• 120 V: 42 A (Max.) at 0 °C (cold start)	
	• 220 V: 80 A (Max.) at 0 °C (cold start)	

#### **Physical Characteristics**

Model	S2716DG
Connector type	DP; HDMI; USB 3.0
Signal cable type         • Digital: HDMI, 19 pins (cable not i	
	<ul> <li>Digital: DisplayPort, 20 pins</li> </ul>
	<ul> <li>Universal Serial Bus: USB, 9 pins</li> </ul>
Dimensions (with stand)	
Height (extended)	546.3 mm (21.51 inches)
Height (compressed)	416.3 mm (16.39 inches)
Width	612.5 mm (24.11 inches)
Depth	200.3 mm (7.89 inches)
Dimensions (without stand)	
Height	362.5 mm (14.27 inches)
Width	612.5 mm (24.11 inches)
Depth	55.6 mm (2.19 inches)
Stand dimensions	
Height (extended)	433.4 mm (17.06 inches)
Height (compressed)	387.2 mm (15.24 inches)
Width	292.4 mm (11.51 inches)

Depth	200.3 mm (7.89 inches)
Weight	
Weight with packaging	10.10 kg (22.27 lb)
Weight with stand assembly and cables	7.20 kg (15.87 lb)
Weight without stand assembly (For wall mount or VESA mount considerations - no cables)	4.40 kg (9.70 lb)
Weight of stand assembly	2.48 kg (5.47 lb)
Front frame gloss	25+/-5

#### **Environmental Characteristics**

Model	\$2716DG
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)
	<ul> <li>Shipping: -20 °C to 60 °C (-4 °F to 140 °F)</li> </ul>
Humidity	
Operating	10% to 80% (non-condensing)
Non-operating	<ul> <li>Storage: 5% to 90% (non-condensing)</li> </ul>
	<ul> <li>Shipping: 5% to 90% (non-condensing)</li> </ul>
Altitude	
Operating	5,000 m (16,404 ft) (maximum)
Non-operating	12,192 m (40,000 ft) (maximum)
Thermal dissipation	• 307.09 BTU/hour (maximum)
	• 160.37 BTU/hour (typical)

#### **Power Management Modes**

If you have VESA's DPM<sup>TM</sup> 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	90 W (maximum)** 47 W (typical)
Active-off mode	Inactive	Inactive	Blanked	White (blinking)	Less than 0.5 W
Switch off	-	-	-	Off	Less than 0.3 W

Energy Star	Power Consumption
On Mode	32.63 W***

**NOTE:** This monitor is **ENERGY STAR**<sup>®</sup>-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.

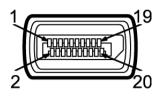
The OSD functions only in the normal operation mode. When any button is pressed in the Active-off mode, the following message will be displayed:

\*\*\* Energy consumption (On Mode) is tested at 230 Volts / 50 Hz.

This document is informational only and reflects laboratory performance. Your product may perform differently, depending on the software, components and peripherals you ordered and shall have no obligation to update such information. Accordingly, the customer should not rely upon this information in making decisions about electrical tolerances or otherwise. No warranty as to accuracy or completeness is expressed or implied.

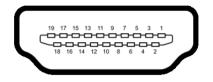
#### **Pin Assignments**

#### DisplayPort Connector



Pin Number	20-pin Side of the Connected Signal Cable
1	ML0(p)
2	GND
3	ML0(n)
4	ML1(p)
5	GND
6	ML1(n)
7	ML2(p)
8	GND
9	ML2(n)
10	ML3(p)
11	GND
12	ML3(n)
13	GND
14	GND
15	AUX(p)
16	GND
17	AUX(n)
18	GND
19	Re-PWR
20	+3.3 V DP_PWR

#### HDMI Connector



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 that 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.

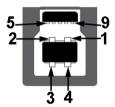


**NOTE:** This monitor is Super-Speed USB 3.0 compatible.

Transfer Speed	Data Rate	Power Consumption*
Super-speed	5 Gbps	4.5 W (Max, each port)
High speed	480 Mbps	4.5 W (Max, each port)
Full speed	12 Mbps	4.5 W (Max, each port)

\* Up to 2 A on USB downstream port (port with ssci lightning icon) with BC1.2-compliant devices or normal USB devices.

#### **USB Upstream Connector**



Pin Number	9-pin Side of the Connector
1	VCC
2	D-
3	D+
4	GND
5	SSTX-
6	SSTX+
7	GND
8	SSRX-
9	SSRX+

#### **USB Downstream Connector**



Pin Number	9-pin Side of the Connector
1	VCC
2	D-
3	D+
4	GND
5	SSTX-
6	SSTX+
7	GND
8	SSRX-
9	SSRX+

#### **USB** Ports

- 1 upstream bottom
- 2 downstream bottom
- 2 downstream side
- Power Charging Port- the port with SSC lightning icon; supports fast current charging capability if the device is BC1.2 compatible.



NOTE: USB 3.0 functionality requires a USB 3.0-capable computer.

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

#### 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: http://www.dell.com/support/monitors.

#### **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 anti-static screen, lightly dampen a soft, clean cloth with water. If possible, use a special screen-cleaning tissue or solution suitable for the anti-static 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

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



**NOTE:** This is applicable for a monitor with a stand. When any other stand is bought, please refer to the respective stand setup guide for the set up instructions.

To attach the monitor stand:

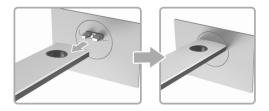
- **1** Remove the cover and place the monitor on it.
- 2 Insert the two tabs on the upper part of the stand to the groove on the back of the monitor.
- **3** Press the stand till it snaps into place.



4 Hold the stand base with the triangle mark,  $\blacktriangle$ , facing upward. Then, align the stand base protruded blocks to the matching slot on the stand.



5 Insert the stand base blocks fully into the stand slot.



6 Lift the screw handle and turn the screw clockwise.



7 After fully tightening the screw, fold the screw handle flat within the recess.

#### **Connecting Your Monitor**



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



**NOTE:** Route the cables through the cable-management slot before connecting them.



**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.
- 2 Connect the DP or HDMI cable from your monitor to the computer.

#### Connecting the DisplayPort (DP to DP) cable



#### Connecting the HDMI cable (optional)



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

#### Connecting the USB 3.0 cable

After you have completed connecting the DP/HDMI cable, follow the procedures below to connect the USB 3.0 cable to the computer and complete your monitor setup:

- 1 Connect the upstream USB 3.0 port (cable supplied) to an appropriate USB 3.0 port on your computer. (See Bottom View for details.)
- 2 Connect the USB 3.0 peripherals to the downstream USB 3.0 ports on the monitor.
- **3** Plug the power cables for your computer and monitor into a nearby outlet.
- 4 Turn On the monitor and the computer. If your monitor displays an image, installation is complete. If it does not display an image, see Universal Serial Bus (USB) Specific Problems.
- **5** Use the cable slot on the monitor stand to organize the cables.



**Organizing Your Cables** 



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

#### **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 Press and hold the stand release button.
- **3** Lift the stand up and away from the monitor.

#### Wall Mounting (Optional)



(Screw dimension: M4 x 10 mm).

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

- 1 Place the monitor panel on a soft cloth or cushion on a stable, flat table.
- 2 Remove the stand.
- **3** Use a Phillips crosshead screwdriver to remove the four screws securing the plastic cover.
- 4 Attach the mounting bracket from the wall mounting kit to the monitor.
- **5** 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 4.40 kg.

#### Power On the Monitor

Press the 🕑 button to turn On the monitor.



#### **Using the Front-Panel Controls**

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



The following table describes the front-panel buttons:

	Front-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 <b>Brightness/Contrast</b> menu.	

3	Menu	Use the <b>MENU</b> 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	C	Use the <b>Power</b> button to turn the monitor <b>On</b> and <b>Off</b> .
		The white light indicates the monitor is <b>On</b> and fully
	Power	functional. A blinking white light indicates the power save
	(with power light indicator)	mode.

#### **Front-Panel Button**

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

^	~	→	5
1	2	3	4

Front	-Panel Button	Description
1	^	Use the <b>Up</b> button to adjust (increase ranges) items in the OSD menu.
	Up	
2	~	Use the <b>Down</b> button to adjust (decrease ranges) items in the OSD menu.
	Down	
3	⇒	Use the <b>Select</b> button to confirm your selection.
	Select	
4	5	Use the <b>Back</b> button to go back to the previous menu.
	Back	

#### Using the On-Screen Display (OSD) Menu

#### Accessing the Menu System

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**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 digital (DP) input

Dell S2716D	0G		Energy Use
🔆 Brightne	ss/Contrast		
🕀 Input So	urce	※	O
🚯 Color			
🖵 Display			
Audio		75%	75%
🛅 Menu			
🗙 Personal	ize		
Others		-	-
📟 Resolutio	on: 2560x1440, 60Hz Normal Mode		

- 2 Press the and buttons to move between the setting options. As you move from one icon to another, the option name is highlighted. See the following table for a complete list of all the options available for the monitor.
- **3** Press the  $\rightarrow$  button once to activate the highlighted option.
- 4 Press the 🗛 and 🔽 buttons to select the desired parameter.
- 5 Press → 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 **5** button to return to the main menu.

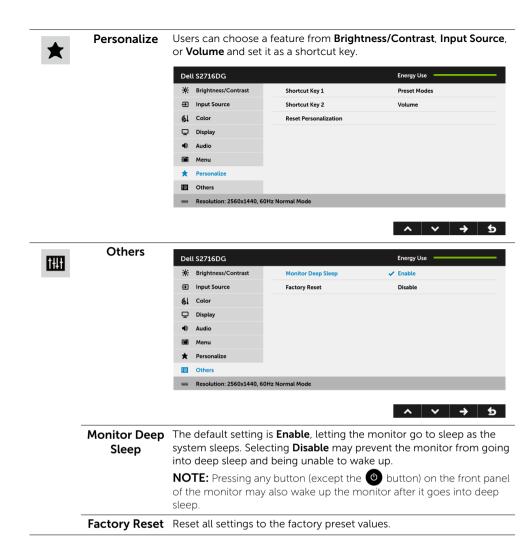
 $\land \lor \lor \Rightarrow \lor 5$ 

lcon	Menu and Submenus		Descrip	otion		
jo;	Brightness/ Contrast	Use this menu to a	ctivate <b>Brightnes</b>	s/Contrast adju	stment.	
· Ť •	Contrast	Dell S2716DG		Energy Us	e	
		🔅 Brightness/Contrast	×		0	
		Input Source	*		U	
		🚯 Color				
		🖵 Display				
		Audio		75%	75%	
		Menu Menu				
		Personalize     Others				
		e Resolution: 2560x1440, 6	0Hz Normal Mode			
			in the manual mode			
				~	✓ → 5	
	Brightness	Brightness adjusts	the luminance of	the backlight.		
			sts the luminance of the backlight. utton to increase the brightness and press the vase the brightness (min. 0 / max. 100).			
	Contrast	Adjust the <b>Brightness</b> first, and then adjust the <b>Contra</b> adjustment is necessary.		<b>rast</b> only if further		
		Press the <b>A</b> butt button to decrease			oress the 💙	
		The <b>Contrast</b> funct darkness and lightr	•	-	nce between	
Ð	Input Source	Use the <b>Input Sour</b> signals that may be			lifferent video	
		Dell S2716DG		Energy Us	e	
		Brightness/Contrast	✓ HDMI			
		Enput Source	DP			
		🚯 Color				
		🖵 Display				
		Audio				
		Menu				
		★ Personalize				
		Others     Resolution: 2560x1440, 66				
		Resolution: 2560X1440, 60	JHZ Normal Mode			
				~	✓ → 5	
	HDMI	Select the <b>HDMI</b> in	put when you are IDMI input source	-	l connector. Press	
	DP	Select the <b>DP</b> input connector. Press		• • •		

A	Color	Use <b>Color</b> to adjust the color setting mode.				
81		Dell S2716DG		Energy Use		
		🔅 Brightness/Contrast	Preset Modes	✓ Standard		
		E Input Source	Reset Color	Warm		
		🚯 Color		Cool		
		🖵 Display		Custom Color		
		Audio				
		🛅 Menu				
		* Personalize				
		Others				
		Resolution: 2560x1440,	60Hz Normal Mode			
				> < < > < < > < > < > < < > < < > < < > < < > < < > < < > < < > < < < < < < < < < < < < < < < < < < < <		
	Preset Modes	When you select Preset Modes, you can choose Standard, Wa				
		Cool, or Custom	Color from the list.			
		• Standard: Load	ds the monitor's defau	It color settings. This is the		
		default preset i	mode.			
		Warm: Increases 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 🔨	and <b>X</b> buttons to ac	ljust the three colors (R, G, B)		
			ate your own preset co			
			<u> </u>			
	Reset Color	Reset your monito	or color settings to the	actory settings.		

	Display	Use <b>Display</b> to adjust image.		
-		Dell S2716DG		Energy Use
		🔅 Brightness/Contrast	Response Time	Normal
		Input Source		
		🚯 Color		
		🖵 Display	Reset Display	
		Audio		
		🗰 Menu		
		★ Personalize		
		Others		
		📟 Resolution: 2560x1440, 6	0Hz Normal Mode	
	Response Time	Allows you to set the	he <b>Response Time</b> t	o <b>Normal</b> or <b>Fast</b> .
	ULMB ULMB (Ultra Low Motion Blur) helps have less of a mot while you are watching fast-moving images. When the supports G-SYNC, make sure that the Enable G-SYNC selected in the NVIDIA Control Panel, ULMB will be au enabled.		nages. When the graphics card Enable G-SYNC function is not	
		<b>NOTE:</b> This function is available when the refresh rate is 85 Hz, 100 Hz or 120 Hz.		
		<b>NOTE:</b> When ULMB is enabled, the message of ULMB Mode is displayed on the lower-left corner of the OSD. When <b>G-SYNC</b> is enabled in the NVIDIA Control Panel, the message of G-SYNC Mode is displayed instead. If your system doesn't support G-SYNC, then the message of Normal Mode is displayed.		
·	ULMB Pulse Width	Allows you to adjust the panel's backlight a bit, so as to reduce motio blur. Use or to adjust the level from 10 to 100. Smaller value decrease motion blur and brightness.		
	Reset Display	Select this option t	o restore default dis	splay settings.

	Audio	Dell S2716DG		Energy Use				
<b>-</b> 9		🔅 Brightness/Contrast	Volume	50				
		Input Source	Reset Audio					
		🚯 Color						
		🖵 Display						
		Audio						
		🗰 Menu						
		★ Personalize						
		Others						
		📟 Resolution: 2560x1440, 6	0Hz Normal Mode					
				∧ ∨ → 5				
	Volume			headphone output.				
		Use 🔨 or 💙 to	adjust the volume	e level from 0 to 100.				
	<b>Reset Audio</b>	Select this option t	o restore default a	udio settings.				
_	Menu	Select this option t	o adjust the setting	gs of the OSD, such as, the				
		languages of the C	SD, the amount of	time the menu remains on				
		screen, and so on.						
		Dell S2716DG		Energy Use				
		Brightness/Contrast	Language	English				
		Input Source	Transparency	20				
		6↓ Color ↓ Display	Timer Reset Menu	20s				
		Oispiay     Audio	Reset Menu					
		Menu						
		Personalize						
		Others						
			0Hz Normal Mode					
				∧ ∨ → 5				
	Language	Language options	set the OSD displa	y to one of the eight languages				
				azilian Portuguese, Russian,				
		Simplified Chinese						
	Transparency							
	manaparency		ons (min. 0 / max. :					
		Sate the length of time the OSD will remain active after the last time						
	Timer	Sets the length of t	ime the OSD will r	Sets the length of time the OSD will remain active after the last tim you pressed a button.				
	limer	5		emain active after the last time				
	limer	you pressed a butt	on.					
	limer	you pressed a butt	on.	emain active after the last time				
	Iimer	you pressed a butt Use <b>^</b> or <b>v</b> to	on. adjust the slider ir	n 1 second increments, from 5 to				



#### **OSD Warning Message**

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

Dell S2716DG Entering Power Save Mode.

See Troubleshooting for more information.

#### Setting the Maximum Resolution

To set the maximum resolution for the monitor:

In Windows<sup>®</sup> 7, Windows<sup>®</sup> 8, and Windows<sup>®</sup> 8.1:

- 1 For Windows<sup>®</sup> 8 and Windows<sup>®</sup> 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 2560 x 1440.
- 4 Click OK.

In Windows<sup>®</sup> 10:

- 1 Right-click on the desktop and click **Display settings**.
- 2 Click Advanced display settings.
- 3 Click the dropdown list of **Resolution** and select **2560 x 1440**.
- 4 Click Apply.

If you do not see 2560 x 1440 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 http://www.dell.com/support, enter your service tag, and download the latest driver for your graphics card.

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

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

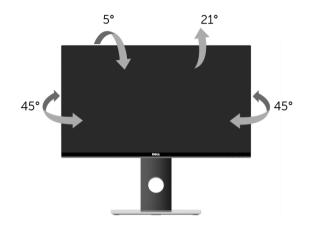
#### Using the Tilt, Swivel, and Vertical Extension



**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.

#### Tilt, Swivel

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



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

#### **Vertical Extension**

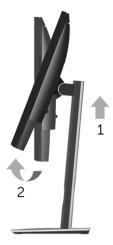


**NOTE:** The stand extends vertically up to 130 mm. The figure below illustrates how to extend the stand vertically.



#### **Rotating the Monitor**

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



Rotate clockwise





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



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

#### Adjusting the Rotation Display Settings of Your System

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



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

To adjust the Rotation Display Settings:

- 1 Right-click on the desktop and click **Properties**.
- 2 Select the **Settings** tab and click **Advanced**.
- **3** If you have an ATI graphics card, select the **Rotation** tab and set the preferred rotation.
- 4 If you have an nVidia graphics card, click the **nVidia** tab, in the left-hand column select **NVRotate**, and then select the preferred rotation.
- 5 If you have an Intel<sup>®</sup> graphics card, select the **Intel** graphics tab, click **Graphic Properties**, select the **Rotation** tab, and then set the preferred rotation.



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

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:

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

**NOTE:** A 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 blinks white.

Dell S2716DG	
Entering Power Save Mode.	



**NOTE:** This box also appears during normal system operation, if the video cable becomes disconnected or damaged.

4 Turn Off your monitor and reconnect the video cable; then turn On both your computer and the monitor.

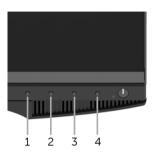
If your monitor screen remains blank after you use the previous procedure, check your video controller and computer, because your monitor is functioning properly.

#### **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 front panel simultaneously for 2 seconds. A gray screen appears.
- 4 Carefully inspect the screen for abnormalities.
- 5 Press **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, and white screens.

The test is complete when the white 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.

#### **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	<ul> <li>Ensure that the video cable connecting the monitor and the computer is properly connected and secure.</li> <li>Verify that the power outlet is functioning properly using any other electrical equipment.</li> <li>Ensure that the power button is depressed fully.</li> <li>Ensure that the correct input source is selected in the Input Source menu.</li> </ul>
No Video/Power LED on	No picture or no brightness	<ul> <li>Increase brightness &amp; contrast controls via OSD.</li> <li>Perform monitor self-test feature check.</li> <li>Check for bent or broken pins in the video cable connector.</li> <li>Run the built-in diagnostics.</li> <li>Ensure that the correct input source is selected in the Input Source menu.</li> </ul>
Poor Focus	Picture is fuzzy, blurry, or ghosting	<ul><li>Eliminate video extension cables.</li><li>Reset the monitor to factory settings.</li><li>Change the video resolution to the correct aspect ratio.</li></ul>
Shaky/Jittery Video	Wavy picture or fine movement	<ul><li>Reset the monitor to factory settings.</li><li>Check environmental factors.</li><li>Relocate the monitor and test in another room.</li></ul>
Missing Pixels	LCD screen has spots	<ul> <li>Cycle power On-Off.</li> <li>Pixel that is permanently Off is a natural defect that can occur in LCD technology.</li> <li>For more information on Dell Monitor Quality and Pixel Policy, see Dell Support site at: http://www.dell.com/support/monitors.</li> </ul>
Stuck-on Pixels	LCD screen has bright spots	<ul> <li>Cycle power On-Off.</li> <li>Pixel that is permanently off is a natural defect that can occur in LCD technology.</li> <li>For more information on Dell Monitor Quality and Pixel Policy, see Dell Support site at: http://www.dell.com/support/monitors.</li> </ul>
Brightness Problems	Picture too dim or too bright	<ul><li>Reset the monitor to factory settings.</li><li>Adjust brightness &amp; contrast controls via OSD.</li></ul>
Geometric Distortion	Screen not centered correctly	Reset the monitor to factory settings.

Horizontal/ Vertical Lines	Screen has one or more lines	<ul> <li>Reset the monitor to factory settings.</li> <li>Perform monitor self-test feature check and determine if these lines are also in self-test mode.</li> <li>Check for bent or broken pins in the video cable connector.</li> <li>Run the built-in diagnostics.</li> </ul>
Synchronization Problems	Screen is scrambled or appears torn	<ul> <li>Reset the monitor to factory settings.</li> <li>Perform monitor self-test feature check to determine if the scrambled screen appears in self-test mode.</li> <li>Check for bent or broken pins in the video cable connector.</li> <li>Restart the computer in the <i>safe mode</i>.</li> </ul>
Safety Related Issues	Visible signs of smoke or sparks	<ul><li>Do not perform any troubleshooting steps.</li><li>Contact Dell immediately.</li></ul>
Intermittent Problems	Monitor malfunctions on & off	<ul> <li>Ensure that the video cable connecting the monitor to the computer is connected properly and is secure.</li> <li>Reset the monitor to factory settings.</li> <li>Perform monitor self-test feature check to determine if the intermittent problem occurs in self-test mode.</li> </ul>
Missing Color	Picture missing color	<ul> <li>Perform monitor self-test feature check.</li> <li>Ensure that the video cable connecting the monitor to the computer is connected properly and is secure.</li> <li>Check for bent or broken pins in the video cable connector.</li> </ul>
Wrong Color	Picture color not good	<ul> <li>Change the settings of the Preset Modes in the Color menu OSD depending on the application.</li> <li>Adjust R/G/B value under Custom Color in Color menu OSD.</li> <li>Run the built-in diagnostics.</li> </ul>
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	<ul> <li>Use the Power Management feature to turn off the monitor at all times when not in use (for more information, see Power Management Modes).</li> <li>Alternatively, use a dynamically changing screensaver.</li> </ul>

Specific Symptoms	What You Experience	Possible Solutions
Screen image is too small	Image is centered on screen, but does not fill entire viewing area	<ul> <li>Reset the monitor to factory settings.</li> </ul>
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 it back, and then turn On the monitor.
No Input Signal when user controls are pressed	No picture, the LED light is white	<ul> <li>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.</li> <li>Check whether the signal cable is plugged in properly. Replug the signal cable if necessary.</li> <li>Reset the computer or video player.</li> </ul>
The picture does not fill the entire screen	The picture cannot fill the height or width of the screen	<ul> <li>Due to different video formats (aspect ratio) of DVDs, the monitor may display in full screen.</li> <li>Run the built-in diagnostics.</li> </ul>

Specific Symptoms	What You Experience	Possible Solutions
USB interface is not working	USB peripherals are not working	<ul> <li>Check that your monitor is turned On.</li> <li>Reconnect the upstream cable to your computer.</li> <li>Reconnect the USB peripherals (downstream connector).</li> <li>Switch Off and then turn On the monitor again.</li> <li>Reboot the computer.</li> <li>Some USB devices like external portable HDD require higher electric current; connect the device directly to the computer system.</li> </ul>
High Speed USB 3.0 interface is slow	High Speed USB 3.0 peripherals working slowly or not working at all	<ul> <li>Check that your computer is USB 3.0-capable.</li> <li>Some computers have USB 3.0, USB 2.0, and USB 1.1 ports. Ensure that the correct USB port is used.</li> <li>Ensure that the correct USB port is used.</li> <li>Reconnect the upstream cable to your computer.</li> <li>Reconnect the USB peripherals (downstream connector).</li> <li>Reboot the computer.</li> </ul>
Wireless USB peripherals stop working when a USB 3.0 device is plugged in	Wireless USB peripherals responding slowly or only working as the distance between itself and its receiver decreases	<ul> <li>Increase the distance between the USB 3.0 peripherals and the wireless USB receiver.</li> <li>Position your wireless USB receiver as close as possible to the wireless USB peripherals.</li> <li>Use a USB-extender cable to position the wireless USB receiver as far away as possible from the USB 3.0 port.</li> </ul>

#### Universal Serial Bus (USB) Specific Problems

#### 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>.

#### **Contact Dell**

For customers in the United States, call 800-WWW-DELL (800-999-3355).

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**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.

- Online technical assistance www.dell.com/support/monitors
- Contacting Dell www.dell.com/contactdell

#### **Setting Up Your Monitor**

#### Setting the display resolution

For maximum display performance with Microsoft<sup>®</sup> Windows<sup>®</sup> operating systems, set the display resolution to **2560 x 1440** pixels by performing the following steps:

In Windows<sup>®</sup> 7, Windows<sup>®</sup> 8, and Windows<sup>®</sup> 8.1:

- 1 For Windows<sup>®</sup> 8 and Windows<sup>®</sup> 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 2560 x 1440.
- 4 Click OK.

In Windows<sup>®</sup> 10:

- 1 Right-click on the desktop and click **Display settings**.
- 2 Click Advanced display settings.
- 3 Click the dropdown list of **Resolution** and select **2560 x 1440**.
- 4 Click Apply.

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.

# If you have a Dell<sup>™</sup> desktop or a Dell<sup>™</sup> portable computer with internet access

- **1** Go to **www.dell.com/support**, 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 2560 x 1440 again.



**NOTE:** If you are unable to set the resolution to 2560 x 1440, please contact  $Dell^{TM}$  to inquire about a graphics adapter that supports these resolutions.

# If you have a non Dell<sup>™</sup> desktop, portable computer, or graphics card

In Windows<sup>®</sup> 7, Windows<sup>®</sup> 8, and Windows<sup>®</sup> 8.1:

- 1 For Windows<sup>®</sup> 8 and Windows<sup>®</sup> 8.1 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.).

- Refer to the graphic card provider website for updated driver (for example. 6 http://www.ATI.com OR http://www.NVIDIA.com).
- 7 After installing the drivers for your graphics adapter, attempt to set the resolution to 2560 x 1440 again.

In Windows<sup>®</sup> 10<sup>.</sup>

- 1 Right-click on the desktop and click **Display settings**.
- 2 Click Advanced display settings.
- 3 Click the dropdown list of **Resolution** and select **2560 x 1440**.
- 4 Identify your graphics controller supplier from the description at the top of the window (e.g. NVIDIA, ATI, Intel etc.).
- Refer to the graphic card provider website for updated driver (for example, 5 http://www.ATI.com OR http://www.NVIDIA.com).
- After installing the drivers for your graphics adapter, attempt to set the resolution to 6 2560 x 1440 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.