# User's Guide Dell S2319H/S2319HN/S2319NX

Model No.: S2319H/S2319HN/S2319NX Regulatory model: S2319Hc/S2319Nc



# 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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2019 - 08 Rev. A02

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# **About Your Monitor**

### **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
• Stand riser
Stand base
<ul> <li>Power cable (varies by countries)</li> </ul>
HDMI Cable

Power Adapter
<ul> <li>Quick Setup Guide</li> <li>Safety and Regulatory Information</li> </ul>

### **Product Features**

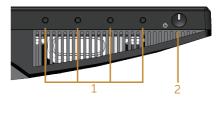
The **Dell S2319H\_S2319HN\_S2319NX** flat panel display has an active matrix, Thin-Film Transistor (TFT), Liquid Crystal Display (LCD), In-plane Switching panel and LED backlight. The monitor features include:

- **S2319H/S2319HN/S2319NX**: 58.42 cm (23 inch) viewable area display (measured diagonally). 1920 x 1080 resolution, plus full-screen support for lower resolutions.
- Wide viewing angle to allow viewing from a sitting or standing position, or while moving from side-to-side.
- Plug and play capability if supported by your system.
- VGA and HDMI connectivity makes it simple and easy to connect with legacy and new systems.
- Build-in Speaker (3W)x2 (Only for S2319H).
- On-Screen Display (OSD) adjustments for ease of set-up and screen optimization.
- Security lock slot.
- Capability to switch from wide aspect to standard aspect ratio while maintaining the image quality.
- TCO-Certified Displays.
- BFR/PVC-Reduced (Its circuit boards are made from BFR/PVC-free laminates).
- Arsenic-Free glass and Mercury-Free for the panel only.
- High Dynamic Contrast Ratio (8,000,000:1).
- 0.3 W standby power when in the sleep mode.
- Energy Gauge shows the energy level being consumed by the monitor in real time.
- Optimize eye comfort with a flicker-free screen and ComfortView feature which minimizes blue light emission.

### **Identifying Parts and Controls**

### **Front View**





#### Front panel controls

Label	Description
1	Function buttons (For more information, see Operating your 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	Security-lock slot	Secures monitor with security lock (security lock not included).
2	Regulatory label (including Barcode serial number and Service Tag label)	Lists the regulatory approvals. Refer to this label if you need to contact Dell for technical support. The Dell service tag is used for Dell warranty and customer service management purposes and for records of the base system.
3	Regulatory information engraving.	Lists the regulatory approvals.
4	Stand release button	Releases stand from monitor.
5	Cable management slot	Uses to organize cables by placing them through the slot.

### **Side View**



#### **Bottom View**

S2319H



Bottom view without monitor stand

Label	Description	Use		
1/7	Speaker	Build-in Speaker(3W)x2		
2	Power-adapter port	To connect the monitor power cable using a 12V DC adapter for transition.		
3	Audio Line Out port	Connect to external speakers (Optional Purchase)*		
4	Audio Line In port	Connects the audio cable (Optional Purchase) from the source device to the monitor.		
5	HDMI port	To connect your computer to the monitor using an HDMI cable.		
6	VGA port	To connect your computer to the monitor using a VGA cable.		

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

### **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 Your Monitor.

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

### **Maintenance Guidelines**

#### **Cleaning Your Monitor**



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

CAUTION: Read and follow the Safety Instructions before cleaning the monitor. Λ

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 antistatic coating. Do not use benzene, thinner, ammonia, abrasive cleaners or compressed air.
- Use a lightly-dampened, warm cloth to clean the monitor. Avoid using detergent of any kind as some detergents leave a milky film on the monitor.
- If you notice white powder when you unpack your monitor, wipe it off with a cloth
- Handle your monitor with care as a darker-colored monitor may get scratched and show white scuff marks more than a lighter-colored monitor.
- To help maintain the best image quality on your monitor, use a dynamically changing screen saver and turn off your monitor when not in use.

# Setting Up the Monitor

### **Connecting the Stand**

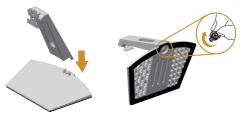
- **NOTE:** The stand is detached when the monitor is shipped from the factory.
- **NOTE:** The following steps is applicable for a monitor with a stand.

To attach the monitor stand:

1. Place the monitor on a soft cloth or cushion.



2. Fit the stand riser and stand base together, and then turn the screw in the stand base.



**3.** Fit the two tabs on the upper part of the stand to the groove on the back of the monitor. Press the stand until it snaps into place.



4. Inserting the stand until the snap locked.



### **Connecting Your Monitor**



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

**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 VGA/HDMI/audio cable from your monitor to the computer.

#### Connecting the VGA cable(Optional Purchase)



### Connecting the HDMI cable



Connecting the audio cable(Optional Purchase)



### **Organizing Cables**



After you connect all necessary cables to your monitor and computer, organize all cables as shown above.



**NOTE:** After the cables are connected, they will have to be disconnected again to route them through the hole.

### **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 and clean surface.

**NOTE:** The following steps is applicable for a monitor with a stand.

To remove the stand:

**1.** Place the monitor on a soft cloth or cushion.



2. Tilt the stand downwards to access to the release button.



**3.** Use a long and thin screwdriver to push the release button.



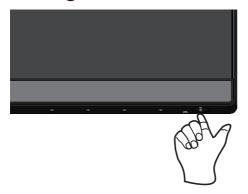
4. While pressing on the release button, pull the stand out.



# **Operating Your Monitor**

### Power On the Monitor

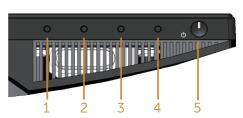
Press the 🕑 button to turn On the monitor.



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

Use the control buttons on the front of the monitor to adjust the image being displayed.





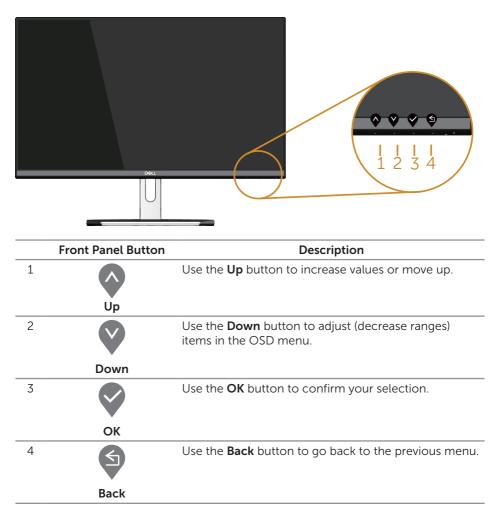
The following table describes the front panel buttons:

Front Panel Button		Description
1	Ŷ	Use this button to choose from a list of preset modes.
	Shortcut key/Preset Modes	

2		Use the buttons to adjust the volume. Minimum is '0' (-). Maximum is '100' (+).
	Shortcut key/Volume	
3		Use the MENU button to launch the On-Screen Display (OSD) and select the OSD Menu. See Accessing the OSD menu.
	Menu	
4	$\bigotimes$	Use this button to go back to the main menu or exit the OSD main menu.
	Exit	
5	U	Use the <b>Power</b> button to turn the monitor <b>On</b> and <b>Off</b> .
	Power On/Off button (with LED indicator)	Solid white light indicates the monitor is On and fully functional. Blinking white light indicates the power save mode.

### **OSD** controls

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



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

#### Accessing the OSD menu

**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.

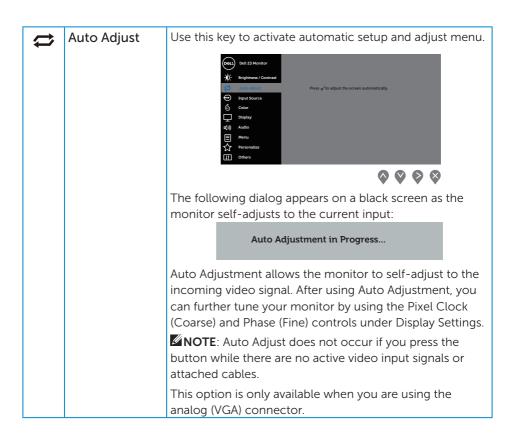
**1.** Press the button to display the OSD main menu.

#### Main Menu for analog (VGA) input

Dell	Dell 23 Monitor						
- <b>Ò</b> -	Brightness / Contrast						
1	Auto Adjust	-ò.				75%	
Ð	Input Source						
Ś	Color	$\bullet$				75%	
Ţ	Display						
鸟》	Audio						
	Menu						
□☆	Personalize						
41	Others						
					V		$\otimes$

- 2. Press the  $\heartsuit$  and  $\heartsuit$  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 button once to activate the highlighted option.
- 4. Press  $\bigcirc$  and  $\bigtriangledown$  button to select the desired parameter.
- 5. Press 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.

lcon	Menu and Submenus	Description				
<b>`.</b>	Brightness/ Contrast	Use this menu to activate Brightness/Contrast adjustment.				
	Brightness	Brightness adjusts the luminance of the backlight. Press the button to increase the brightness and press the button to decrease the brightness (min. 0 / max. 100). MOTE: Manual adjustment of Brightness is disabled when Dynamic Contrast is switched on.				
	Contrast	Adjust the Brightness first, and then adjust the Contrast only if further adjustment is necessary. Press the button to increase the contrast and press the button to decrease the contrast (min. 0 / max. 100). The <b>Contrast</b> function adjusts the degree of difference between darkness and lightness on the monitor screen.				



Ð	Input Source	Use the Input Source menu to select between the different video signals that may be connected to your monitor.	
	Auto Select	Select Auto Select to scan for available input signals.	
	VGA	Select VGA input when you are using the analog (VGA)	
	HDMI	connector. Push 💙 to select the VGA input source. Select HDMI input when you are using the Digital (HDMI)	
	ΠΟΜΙ	connector. Push to select the HDMI input source.	
	Auto Select	Select Auto Select to scan for available input signals.	
	<b>Reset Input Source</b>		
6	Color	Use Color to adjust the color setting mode.	

Preset Modes	When you select Preset Modes, you can choose Standard, ComfortView, Multimedia, Movie, Game, Warm, Cool or Custom Color from the list.
	<ul> <li>Standard: Loads the monitor's default color settings. This is the default preset mode.</li> </ul>
	<ul> <li>ComfortView: Decreases the level of blue light emitted from the screen to make viewing more comfortable for your eyes.</li> </ul>
	Movie: Loads color settings ideal for movies.
	<ul> <li>Game: Loads color settings ideal for most gaming applications.</li> </ul>
	• Warm: Increases the color temperature. The screen appears warmer with a red/yellow tint.
	<ul> <li>Cool: Decreases the color temperature. The screen appears cooler with a blue tint.</li> </ul>
	<ul> <li>Custom Color: Allows you to manually adjust the color settings.</li> </ul>
	Press the $\bigcirc$ and $\heartsuit$ buttons to adjust the three colors (R, G, B) values and create your own preset color mode.
	Delt 33 Monstar         With Manual / Const att       Venue Indian       ✓ Standard         With Adjust       LeastCalor Format       Canadard         Page 1 Stores       Raart Calor Format       Canadard         Wares       Canadard       Canadard         Quiplay       Manual       Canadard         Quiplay       Wares       Canadard         Personalize       Canadard       Canadard         Dimension       Canadard       Canadard         Wares       Canadard       Canadard         Others       Canadard       Canadard
	· · · ·
Input Color Format	<ul> <li>Allows you to set the video input mode to:</li> <li>RGB: Select this option if your monitor is connected to a computer or DVD player using the HDMI cable.</li> <li>YPbPr: Select this option if your DVD player supports only YPbPr output.</li> </ul>
	Delt 33 Montar     Prest Moles       icities     Brightman / Contrast     Prest Moles       icities     Auto Adjust     Delt 32       icities     Rest Color     Web/r       icities     Delta 34     Prest Moles       icities     Rest Color     Web/r       icities     Rest Color     Web/r       icities     Delta 34     Prest Moles       icities     Rest Color     Web/r       icities     Delta 34     Prest Moles       icities     Rest Color     Web/r       icities     Delta 34     Prest Moles       icities     Delta 34     Prest Moles
Reset Color	Allows your monitor color settings to the factory settings
	Allows your monitor color settings to the factory settings.

	Display	Use the Display to adjust image.		
Ч <u>Ч</u>		Detu) Dell 23 Montor		
		Birghtness / Constrant Auguset Ratio > Wide 16:9		
		trapst Source Vertical Fostion     Color Sharpness > 50		
		■         Deschop         Funct Clock           ↓↓↓         Auto         Phase		
		Merca         Dynamic: Constrant           ☆         Personalize         Response Time         > Normal           [IF]         Overs         Reset Risplay		
		$\diamond \diamond \diamond$		
	Aspect Ratio	Adjusts the image ratio to Wide 16:9, 4:3 or 5:4.		
	Horizontal Position	Use or the buttons to adjust image left and right. Minimum is '0' (-). Maximum is '100' (+).		
	Vertical Position			
		Use the V or V buttons to adjust image up and down. Minimum is '0' (-). Maximum is '100' (+).		
	Sharpness	This feature can make the image look sharper or softer.		
	• •			
	Pixel Clock	Use $\checkmark$ or $\checkmark$ to adjust the sharpness from '0' to '100'. The Phase and Pixel Clock adjustments allow you to adjust		
	Pixel Clock	your monitor to your preference. Use $\land$ or $\checkmark$ buttons to		
		adjust for best image quality. Minimum is '0' (-). Maximum is '100' (+).		
	Phase	If satisfactory results are not obtained using the Phase		
		adjustment, use the Pixel Clock (coarse) adjustment and		
		then use Phase (fine), again. Minimum is '0' (-). Maximum is '100' (+).		
	Dynamic	Allows you to increase the level of contrast to provide		
	Contrast	sharper and more detailed image quality.		
		Press the button to select the Dynamic Contrast "On" or "Off".		
		<b>NOTE:</b> Dynamic Contrast provides higher contrast if you select Game or Movie preset mode.		
	Response Time	User can select between Normal, Fast or Super fast.		
	Reset Display	Select this option to restore default display settings.		

Audio	Weil 23 Montair         Weil Bipfinnair / Converta       Volume       > 50         Anto Adquit       Mainto montair       > 50         Direga Source       Spanker       > 10 mathe         Originary       Direga Mainto montair       > 50         Originary       Direga Mainto       Direga Mainto         Weiner       Particulary       Direga Mainto         Weiner       Particulary       Direga Mainto         Originary       Direga Mainto       Direga Mainto         Weiner       Particulary       Direga Mainto         Others       Direga Mainto       Direga Mainto
Volume (Only S2319H)	Use the buttons to adjust the volume. Minimum is '0' (-). Maximum is '100' (+).
Audio Source	Allows you to set the Audio Source mode to: • PC Audio • HDMI
Speaker (Only S2319H)	Allows you to enable or disable speaker function.
Reset Audio	Select this option to restore default display settings.
Menu	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.
Language	Language options set the OSD display to one of the eight languages (English, Spanish, French, German, Brazilian Portuguese, Russian, Simplified Chinese, or Japanese).
Transparency	Select this option to change the menu transparency by
	pressing the 🍄 and 💙 buttons from 0 to 100.
Timer	OSD Hold Time: sets the length of time the OSD will remain active after the last time you pressed a button. Use $\bigcirc$ or $\bigcirc$ to adjust the slider in 1 second increments, from 5 to 60 seconds.
Reset Menu	Reset all OSD settings to the factory preset values.

*	Personalize	Users can choose a feature from Shortcut Key 1, Shortcut Key 2, Power Button LED or Reset Personalization, Preset Modes or Brightness/Contrast and set it as a shortcut key.
	Shortcut Key 1	User can select one of the followings: Preset Modes, Brightness/Contrast, Auto Adjust, Input Source, Aspect Ratio and Volume to set the Shortcut Key 1.
	Shortcut Key 2	User can select one of the followings: Preset Modes, Brightness/Contrast, Auto Adjust, Input Source, Aspect Ratio and Volume to set the Shortcut Key 2.
	Power Button LED	Allows you to set the power LED indicator On During Active or Off During Active to save energy.
	Reset Personalization	Allows you to restore shortcut key to the default setting.
1111	Others	Well 23 Monthly       Weight cond / Contrast     Exceptory Infe       Accord Adjust     DOD(C1     On       Object     On       Output fource     LCD Conditioning     > On       Output fource     Statust     Non       Output fource     Statust     Non       Other     Provide     Provide       Other     Provide
	Display Info	Press to display the information about the display.

DDC/CI	DDC/CI (Display Data Channel/Command Interface) allows your monitor parameters (brightness, color balance and etc.) to be adjustable via the 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. To start LCD conditioning, select Enable.		
Firmware	Display the version of the firmware about the display.		
Service Tag	Display the service tag number of the display.		
Reset Other	Reset all settings under the <b>Others</b> setting menu to the factory preset values.		
Factory Reset	Reset all settings to the factory preset values.		

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

#### **OSD** Warning Messages

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



When the monitor does not support a particular resolution mode, the following message is displayed:



This means that the monitor cannot synchronize with the signal that it is receiving from the computer. See Monitor Specifications for the Horizontal and Vertical frequency ranges addressable by this monitor. Recommended mode is 1920 x 1080.

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



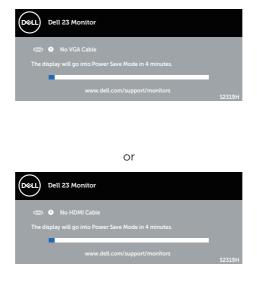
When the monitor enters the **Power Save Mode**, the following message appears:



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



If VGA or HDMI cable is not connected, a floating dialog box as shown below appears. The monitor will enter Power Save Mode after 4 minutes if left at this state.



See Troubleshooting for more information.

### Setting the Maximum Resolution

To set the maximum resolution for the monitor:

In Windows 7, Windows 8, Windows 8.1 and Windows 10:

- 1. For Windows 8 and Windows 8.1, 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 **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



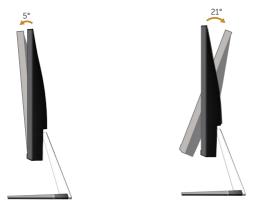
**NOTE:** This is applicable for a monitor with a stand. When any other stand is bought, please refer to the respective stand setup guide for set up instructions.

### **Rotating the Monitor**

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



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



# Troubleshooting

**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 if 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. Disconnect the video cable from the back of the computer. To ensure proper Self-Test operation, remove all digital and analog cables from the back of monitor.
- 3. Turn on the monitor.

If the monitor is working correctly, it detects that there is no signal and one of the following message appears. While in self-test mode, the power LED remains white.

Dell 23 Monitor	
📼 🕘 🛛 No HDMI Cable	
The display will go into Power Save Mode in 4 minutes.	
	l
www.dell.com/support/monitors	S2319H

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

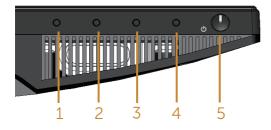
If your monitor remains dark after you reconnect the cables, check your video controller and computer, because your monitor is functioning properly.

### **Built-in diagnostics**

Your monitor has a built-in diagnostic tool that helps you determine if any screen abnormality you experience 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 for 5 seconds. A gray screen appears.
- 4. Carefully inspect the screen for abnormalities.
- 5. Press Button 1 on the bottom of the monitor again. The color of the screen changes to red.
- 6. Inspect the display for any abnormalities.
- 7. Repeat steps 5 and 6 to inspect the display in green, blue, black, white and text screens.

The test is complete when the text screen appears. To exit, press Button 1 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 correct input source is selected via the Input Source menu.</li> </ul>
No Video/Power LED on	No picture or no brightness	<ul> <li>Increase brightness and contrast controls using the 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 via 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(Factory Reset).</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(Factory Reset).</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: 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(Factory Reset).</li> <li>Adjust brightness &amp; contrast controls via OSD.</li> </ul>
Geometric Distortion	Screen not centered correctly	<ul> <li>Reset the monitor to Factory Settings(Factory Reset).</li> <li>Adjust horizontal &amp; vertical controls via OSD.</li> </ul>

No sound or sound is low	Monitor has no sound or sound is low	<ul><li>Make sure the audio cable is properly connected to the monitor.</li><li>Adjust the volume settings of both your monitor and</li></ul>
		<ul> <li>computer.</li> <li>Make sure the computer sound card driver is properly installed and activated.</li> </ul>
		• Make sure the audio source is correct on the OSD.
Horizontal/	Screen has one	• Reset the monitor to Factory Settings(Factory Reset).
Vertical Lines	or more lines	• 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	<ul> <li>Reset the monitor to Factory Settings(Factory Reset).</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 safe mode.</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(Factory Reset).</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 Color Setting Mode in the Color Settings OSD to Graphics or Video depending on the application.</li> <li>Try different Preset Modes in Color settings OSD. Adjust R/G/B value in Custom Color in Color settings OSD.</li> <li>Change the Input Color Format to RGB or YPbPr in the Color settings 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>

Video Ghosting or Overshooting	Moving image appears to have trailing shadow or bright edge.	<ul> <li>Change the Response Time in the Display OSD to Fast or Normal depending on your application and usage.</li> </ul>
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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>Check the Aspect Ratio setting in the Display settings OSD.</li> <li>Reset the monitor to Factory Settings (Factory Reset) .</li> </ul>
Cannot adjust the monitor with the buttons on the side panel	OSD does not appear on the screen	<ul> <li>Turn Off the monitor, unplug the power cord, plug it back, and then turn On the monitor.</li> <li>Check if the OSD menu is locked. If yes, press and hold the button above the Power button for 6 seconds to unlock. (For more information, see Lock).</li> </ul>
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 standby or sleep mode by moving the mouse or pressing any key on the keyboard.</li> <li>Check if the video cable is plugged in properly. Disconnect and reconnect the video 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>

# **Product-Specific Problems**

# Appendix

#### WARNING: Safety Instructions



MARNING: 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.



MARNING: 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.

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.

### Contact Dell

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

**NOTE:** If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area.

#### To get online Monitor support content:

1. Visit www.dell.com/support/monitors.

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

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

### **Setting Up Your Monitor**

### Setting the display resolution

For maximum display performance with Microsoft Windows operating systems, set the display resolution to **1920 x 1080** pixels by performing the following steps:

In Windows 7, Windows 8, Windows 8.1 and Windows 10:

- 1. For Windows 8 and Windows 8.1, select the Desktop tile to switch to classic desktop.
- 2. Right-click on the desktop and click Screen Resolution.
- 3. Click the Dropdown list of the Screen Resolution and select 1920 x 1080.
- 4. Click OK

If you do not see the recommended resolution as an option, you may need to update your graphics driver. Please choose the scenario below that best describes the computer system you are using, and follow the given steps.

#### 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 init-caps, 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<sup>™</sup> 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 7, Windows 8, Windows 8.1 and Windows 10:

- 1. For Windows 8 and Windows 8.1, select the Desktop tile to switch to classic desktop.
- 2. Right-click on the desktop and click **Personalization**.
- 3. Click Change Display Settings.
- 4. Click Advanced Settings.
- 5. Identify your graphics controller supplier from the description at the top of the window (e.g. NVIDIA, ATI, Intel etc.).
- 6. Refer to the graphic card provider website for updated driver (for example, www. ATI.com OR www.NVIDIA.com).

7. After installing the drivers for your graphics adapter, attempt to set the resolution to **1920 x 1080** again.



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

#### **Flat Panel Specifications**

Model	S2319H/S2319HN/S2319NX	
Screen type	Active matrix - TFT LCD	
Panel type	In-plane Switching	
Viewable image		
Diagonal	58.42 cm (23 in)	
Horizontal, Active Area	509.18 mm (20.05 in)	
Vertical, Active Area	286.41 mm (11.28 in)	
Area	1458.34 cm² (226.04 inch²)	
Pixel pitch	0.265mm	
Viewing angle (vertical / horizontal)	178° / 178° (typical)	
Luminance output	250 cd/m² (typical)	
Contrast ratio	1000 to 1 (typical)	
	8,000,000 to 1 (Dynamic Contrast)	
Faceplate coating	Low Haze with 3H hardness	
Backlight	LED edgelight system	
Response time	5ms gray to gray (typical)	
Color depth	16.78 million colors	
Color gamut	83%(typical)*	

\*[S2319H/S2319HN/S2319NX] color gamut(typical) is based on CIE1976(83%) and CIE1931(72%) test standards.

#### **Resolution Specifications**

Model	S2319H/S2319HN/S2319NX	
Horizontal scan range 30 kHz to 83 kHz (automatic)		
Vertical scan range	56 Hz to 76 Hz (automatic)	
Maximum preset 1920 x 1080 at 60 Hz resolution		

### Preset Display Modes

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal / Vertical)
VESA, 720 x 400	31.5	70.1	28.3	-/+
VESA, 640 x 480	31.5	60.0	25.2	-/-
VESA, 640 x 480	37.5	75.0	31.5	-/-
VESA, 800 x 600	37.9	60.3	40.0	+/+
VESA, 800 x 600	46.9	75.0	49.5	+/+
VESA, 1024 x 768	48.4	60.0	65.0	-/-
VESA, 1024 x 768	60.0	75.0	78.8	+/+
VESA, 1152 x 864	67.5	75.0	108.0	+/+
VESA, 1280 x 1024	64.0	60.0	108.0	+/+
VESA, 1280 x 1024	80.0	75.0	135.0	+/+
VESA, 1600 x 900	60.0	60.0	108.0	+/+
VESA, 1920 x 1080	67.5	60.0	148.5	+/+

### **Electrical Specifications**

Model		S2319H&S2319HN&S2319NX	
Video input signals		Analog RGB, 0.7 Volts +/-5%, positive polarity at 75     ohm input impedance	
		• HDMI1.4 (HDCP), 600 mV for each differential line, positive polarity at 100 ohm input impedance	
Synchronization input signals		Separate horizontal and vertical synchronizations, polarity-free TTL level, SOG (Composite SYNC on green)	
Inrush current		No damage at cold starting	
AC/DC Adapter*	Input voltage/ frequency/ current	Delta adapter ADP-40DD B: 100 VAC to 240 VAC/50 Hz to 60 Hz $\pm$ 3 Hz/1.5 A (Max.),	
		Lite-On adapter PA-1041-81: 100 VAC to 240 VAC/50 Hz to 60 Hz $\pm$ 3 Hz/1.2 A (Max).	
	Output voltage/ current	Output: 12VDC/3.33A	

### **Physical Characteristics**

Model	S2319H	S2319HN/S2319NX
Signal cable type	• Digital: detachable, HDMI, 19 pins.	<ul> <li>Digital: detachable, HDMI, 19 pins.</li> </ul>
	• Analog: detachable, D-Sub, 15 pins	• Analog: detachable, D-Sub, 15 pins
Front frame gloss (minimum)	Black frame - 85 gloss unit	Black frame - 85 gloss unit
Dimensions (with stand)		
Height	404.0 mm (15.91 in)	404.0 mm (15.91 in)
Width	522.2 mm (20.56 in)	522.2 mm (20.56 in)
Depth	152.8 mm (6.01in)	152.8 mm (6.01in)
Dimensions (without stand)		
Height	312.3 mm (12.30 in)	312.3 mm (12.30in)
Width	522.2 mm (20.56 in)	522.2 mm (20.56 in)
Depth	49.1 mm (1.93 in)	49.1 mm (1.93 in)
Stand dimensions		
Height	171.6 mm (6.76 in)	171.6 mm (6.76 in)
Width	249.0 mm (9.80 in)	249.0 mm (9.80 in)
Depth	152.8 mm (6.01 in)	152.8 mm (6.01 in)
Weight		
Weight with packaging	5.38 kg (11.86 lb)	5.33 kg (11.75 lb)
Weight with stand assembly and cables	3.90 kg (8.60 lb)	3.84 kg (8.47 lb)
Weight without stand assembly	2.89 kg (6.37 lb)	2.83 kg (6.24lb)
Weight of stand assembly	0.52 kg (1.15lb)	0.52 kg (1.15 lb)

#### **Environmental Characteristics**

Model		S2319H/S2319HN/S2319NX			
Temperature	Temperature				
Operating		0°C to 40°C (32°F to 104°F)			
Non-operating Storage		• -20°C to 60°C (-4°F to 140°F)			
	Shipping	<ul> <li>-20°C to 60°C (-4°F to 140°F)</li> </ul>			
Humidity		·			
Operating		10% to 80% (non-condensing)			
Non-operating		Storage: 5% to 90% (non-condensing)			
		Shipping: 5% to 90% (non-condensing)			
Altitude					
Operating (maximum)		5,000 m (16,400 ft)			
Non-operating (maximum)		12,192 m (40,000 ft)			
Thermal dissipation		• 116.01 BTU/hour (maximum)			
		• 78.48 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.

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

#### S2319H/S2319HN/S2319NX

VESA Modes	Horizontal Sync	Vertical Sync	Video	Power Indicator	Power Consumption
Normal operation	Active	Active	Active	White	34 W (maximum)** 23 W (typical)
Active-off mode	Inactive	Inactive	Blanked	White (Glowing )	Less than 0.3 W
Switch off	-	-	-	Off	Less than 0.3 W

Power Consumption P <sub>on</sub>	16 W
Total Energy Consumption (TEC)	50.81 kWh

#### MOTE:

 $\mathsf{P}_{\mathsf{on}}$  : Power consumption of on mode measured with reference to Energy Star test method.

TEC: Total energy consumption in kWh measured with reference to Energy Star test method.

\*\* Maximum power consumption with max luminance.

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.

#### **Speaker Specifications**

Model	S2319H
Speaker rated power	2 x 3 W
Frequency Response	200 Hz - 20 kHz
Impedance	8 ohm

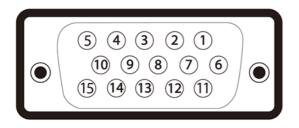
The OSD functions only in the normal operation mode. When any button is pressed in the Active-off mode, the following message will be displayed:

Dell 23 Monitor
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.
(1)

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

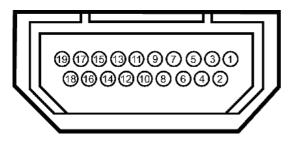
### **Pin Assignments**

#### **VGA Connector**



Pin Number	15-pin Side of the Connected Signal Cable
1	Video-Red
2	Video-Green
3	Video-Blue
4	GND
5	Self-test
6	GND-R
7	GND-G
8	GND-B
9	Computer 5V/3.3V
10	GND-sync
11	GND
12	DDC data
13	H-sync
14	V-sync
15	DDC clock

#### **HDMI Connector**



Pin Number	19-pin Side of the Connected Signal Cable
1	T.M.D.S. Data 2-
2	T.M.D.S. Data 2 Shield
3	T.M.D.S. Data 2+
4	T.M.D.S. Data 1+
5	T.M.D.S. Data 1 Shield
6	T.M.D.S. Data 1 -
7	T.M.D.S. Data 0+
8	T.M.D.S. Data 0 Shield
9	T.M.D.S. Data 0-
10	T.M.D.S. Clock +
11	T.M.D.S. Clock Shield
12	T.M.D.S. Clock -
13	CEC
14	Reserved (N.C. on device)
15	SCL
16	SDA
17	DDC/CEC Ground
18	+5V Power
19	Hot Plug Detect