




Dell S3220DGF

User's Guide

Monitor Model: S3220DGF
Regulatory Model: S3220DGFc



-  **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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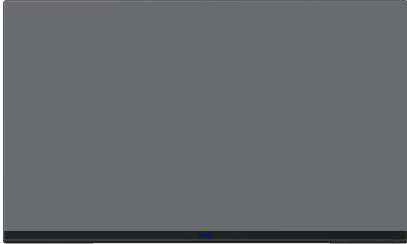





About your monitor




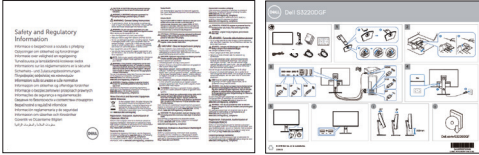
Package contents

Your monitor ships with the components shown below. Ensure that you have received all the components and see [Contacting Dell](#) for more information 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.

	Monitor
	Stand riser
	Stand base
	Power cable (varies by countries)



	<p>HDMI 2.0 cable</p>
	<p>DP 1.2 cable</p>
	<p>USB 3.0 upstream cable (enables the USB ports on the monitor)</p>
	<ul style="list-style-type: none"> • Quick Setup Guide • Safety and Regulatory Information



Product features

The Dell S3220DGF monitor has an active matrix, Thin-Film Transistor (TFT), Liquid Crystal Display (LCD), anti-static, and LED backlight. The monitor features include:

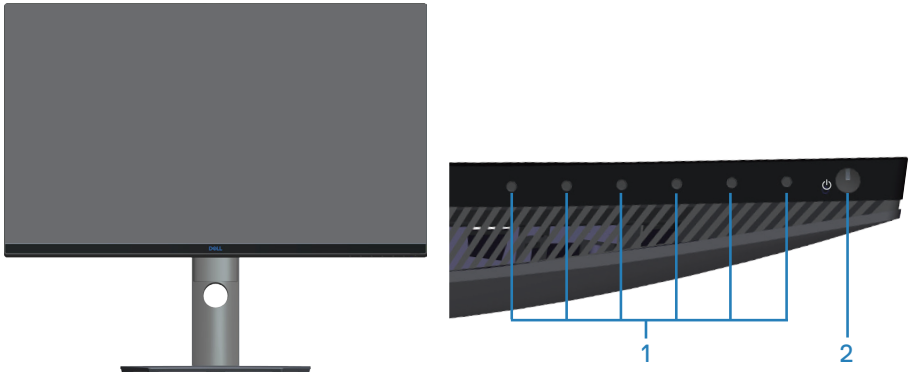
- 80.01 cm (31.5 in.) viewable area display (measured diagonally). 2560 x 1440 resolution, with full-screen support for lower resolutions.
- Selectable adaptive sync option (AMD Freesync 2 or No Sync), high refresh rates and a rapid response time of 4 ms.
- Supports 48 Hz to 144 Hz (HDMI) and 48 Hz to 164 Hz (DP) in Freesync Mode, 165 Hz in fixed frequency mode.
- Smooth, low latency HDR gaming with AMD Radeon FreeSync™ 2 HDR Technology.
- Digital connectivity with DP and HDMI.
- Equipped with 1 USB upstream port and 4 USB downstream ports.
- Plug and play capability if supported by your computer.
- On-Screen Display (OSD) adjustments for ease of setup and screen optimization.
- Monitor offers enhanced features for gaming such as Timer, Frame Rate Counter and Dark Stabilizer in addition to enhanced gaming modes such as FPS (First-Person Shooter), MOBA/RTS (Battle Royale/Real-Time Strategy), RPG (Role-Playing Game), SPORTS, color adjustments (custom color, warm, cool) and three additional game modes to personalize your preferences.
- Removable stand and Video Electronics Standards Association (VESA™) 100 mm mounting holes for flexible mounting solutions.
- Tilt, swivel and height adjustment capabilities.
- Security-lock slot.
- 0.3 W standby power when in the sleep mode.
- Dell Display Manager Software included.
- Premium Panel Exchange service for issues that cannot be resolved over the phone.
- Optimize eye comfort with a flicker-free screen.

⚠ WARNING: The possible long-term effects of blue light emission from the monitor may cause damage to the eyes, including eye fatigue, digital eye strain, and so on. ComfortView feature is designed to reduce the amount of blue light emitted from the monitor to optimize eye comfort.



Identifying parts and controls

Front view

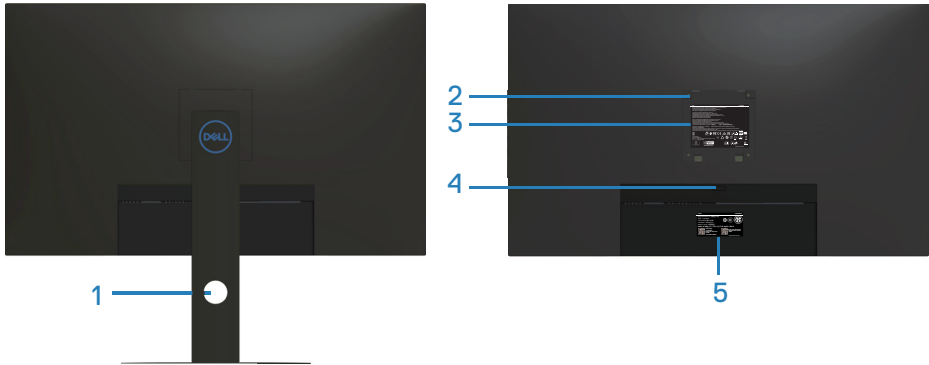


Control buttons

Label	Description	Use
1	Function buttons	Use the function buttons to adjust items in the OSD menu. (For more information, see Using the control buttons)
2	Power On/Off button	Use the power button to turn the monitor On and Off.



Back view



Back View with monitor stand

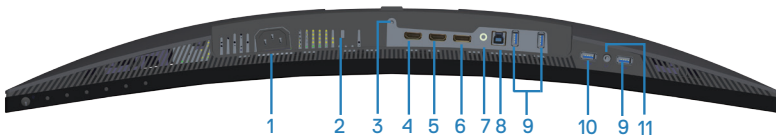
Label	Description	Use
1	Cable management slot	Use to organize cables by routing them through the slot.
2	VESA mounting holes (behind VESA cover)	VESA mounting holes (100 mm x 100 mm). Use for Wall mounting the monitor through a VESA-compatible wall mount kit.
3	Regulatory information label	Lists the regulatory approvals.
4	Stand release button	Releases stand from monitor.
5	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 Service Tag is a unique alphanumeric identifier that enables Dell service technicians to identify the hardware components in your computer and access warranty information.



Side view




Bottom view



Bottom view without monitor stand

Label	Description	Use
1	Power connector	Connect the power cable (shipped with your monitor).
2	Security-lock slot	Secure your monitor using a security lock (purchased separately) to prevent unauthorized movement of your monitor.
3	Stand lock feature	To lock the stand to the monitor using a M3 x 6 mm screw (screw not included).
4	HDMI1 2.0 port	Connect to your computer using a HDMI cable.
5	HDMI2 2.0 port	Connect to your computer using a HDMI cable.
6	DP 1.4 port	Connect to your computer using a DP cable.
7	Audio line out port	Connect to an external speaker or a sub-woofer (purchased separately).*
8	USB 3.0 upstream port	Connect the USB cable from this port to your computer to enable the USB ports on your monitor.



9	USB 3.0 downstream ports	<p>Connect your USB peripherals such as storage devices and printers.</p> <p> NOTE: To use this port, you must connect the USB upstream cable (shipped with your monitor) between the monitor and the computer.</p>
10	USB 3.0 downstream with BC1.2 charging	USB 3.0 downstream port with charging capability. Connect to charge your USB device.
11	Headphone out port	Connect to the headphone.

*Audio line out port does not support headphones. To connect your headphones, use the headphone out port on the monitor.



Monitor specifications

Model	S3220DGF
Screen type	Active matrix-TFT LCD
Panel type	Vertical Alignment
Viewable image	
Diagonal	800.1 mm (31.5 in.)
Horizontal, Active Area	697.3 mm (27.5 in.)
Vertical, Active Area	392.3 mm (15.4 in.)
Area	273550.8 mm ² (423.5 in. ²)
Native resolution and refresh rate	2560 x 1440 at 144 Hz (HDMI1 and HDMI2) 2560 x 1440 at 165 Hz (DP)
Pixel pitch	0.2724 mm x 0.2724 mm
Pixel per inch (PPI)	93
Viewing angle	
Horizontal	178° (typical)
Vertical	178° (typical)
Luminance output	400 cd/m ² (typical)
Contrast ratio	3000 to 1 (typical)
Faceplate coating	Anti-glare with 3H hardness, Haze 25%
Backlight	LED edgelight system
Response time (Gray to Gray)	4 ms
Color depth	1.07 billion colors
Color gamut	sRGB CIE 1931 (99.7%) CIE1976 (98.8%) DCI P3 CIE 1931 (89.2%) CIE1976 (92.4%)



Connectivity	<p>2 x HDMI 2.0 with HDCP 2.2 (2560 x 1440, up to 144 Hz)</p> <p>1 x DP 1.4 (2560 x 1440, up to 165 Hz)</p> <p>1 x USB 3.0 upstream</p> <p>1 x USB 3.0 downstream with BC1.2 charging</p> <p>3 x USB 3.0 downstream</p> <p>1 x Audio line out</p> <p>1 x Headphone out</p>
Bezel width (edge of monitor to active area)	
Top	8.1 mm
Left/Right	8.1 mm
Bottom	24.6 mm
Adjustability	
Height adjustable stand	150 mm
Tilt	-5° to 21°
Swivel	-30° to 30°
Pivot	N/A
Dell display manager compatibility	Easy Arrange and other key features
Security	Security-lock slot (cable lock optional purchase)



Resolution specifications

Model	S3220DGF
Horizontal scan range	30 kHz to 250 kHz
Vertical scan range	48 Hz to 144 Hz (HDMI) 48 Hz to 165 Hz (DP) 48 Hz to 164 Hz (DP FreeSync)
Maximum preset resolution	2560 x 1440 at 60 Hz with HDCP 2.2 2560 x 1440 at 165 Hz (DP) 2560 x 1440 at 144 Hz (HDMI)

Supported video modes

Model	S3220DGF
Video display capabilities (HDMI/DP)	480p, 480i, 576p, 720p, 1080p, 576i, 1080i, QHD



Preset display modes

HDMI 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	59.9	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 768	47.8	59.9	79.5	-/+
VESA, 1280 x 1024	64.0	60.0	108.0	+/+
VESA, 1280 x 1024	79.9	75.0	135.0	+/+
VESA, 1600 x 1200	75.0	60.0	162.0	+/+
VESA, 1680 x 1050	65.3	60.0	146.3	-/+
VESA, 1920 x 1080	67.5	60.0	148.5	+/+
VESA, 1920 x 1200	74.6	59.9	193.3	-/+
VESA, 2048 x 1080	66.6	60.0	147.2	+/-
VESA, 2560 x 1440	88.8	60.0	241.5	+/-
VESA, 2560 x 1440	586.0	143.9	222.0	+/-



DP 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	59.9	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 768	47.8	59.9	79.5	-/+
VESA, 1280 x 1024	64.0	60.0	108.0	+/+
VESA, 1280 x 1024	79.9	75.0	135.0	+/+
VESA, 1600 x 1200	75.0	60.0	162.0	+/+
VESA, 1680 x 1050	65.3	60.0	146.3	-/+
VESA, 1920 x 1080	67.5	60.0	148.5	+/+
VESA, 1920 x 1200	74.6	59.9	193.3	-/+
VESA, 2048 x 1080	66.6	60.0	147.2	+/-
VESA, 2560 x 1440	88.8	60.0	241.5	+/-
VESA, 2560 x 1440	586.0	143.9	222.0	+/-
VESA, 2560 x 1440	645.0	165.0	244.3	+/-

 **NOTE: This monitor supports AMD FreeSync.**



Electrical specifications

Model	S3220DGF
Video input signals	HDMI 2.0 (HDCP), 600 mV for each differential line, 100 ohm input impedance per differential pair DP 1.2, 600 mV for each differential line, 100 ohm input impedance per differential pair DP 1.4, 600 mV for each differential line, 100 ohm input impedance per differential pair
AC input voltage/ frequency/current	100 VAC to 240 VAC / 50 Hz or 60 Hz \pm 3 Hz / 2A (typical)
Inrush current	120 V: 30 A (Max.) at 0°C (cold start) 240 V: 60 A (Max.) at 0°C (cold start)



Physical characteristics

Model	S3220DGF
Signal cable type	<ul style="list-style-type: none">• Digital: HDMI, 19 pins• Digital: DP, 20 pins• Universal Serial Bus: USB, 9 pins
Dimensions (with stand)	
Height (extended)	618.2 mm (24.34 in.)
Height (compressed)	468.7 mm (18.45 in.)
Width	709.1 mm (27.92 in.)
Depth	249.6 mm (9.83 in.)
Dimensions (without stand)	
Height	424.9 mm (16.73 in.)
Width	709.1 mm (27.92 in.)
Depth	59.8 mm (2.36 in.)
Stand dimensions	
Height (extended)	482.3 mm (18.99 in.)
Height (compressed)	437.1 mm (17.21 in.)
Width	319.7 mm (12.59 in.)
Depth	249.6 mm (9.83 in.)
Weight	
Weight with packaging	15.53 kg (34.24 lb)
Weight with stand assembly and cables	10.93 kg (24.10 lb)
Weight without stand assembly (no cables)	7.63 kg (16.82 lb)
Weight of stand assembly	2.75 kg (6.06 lb)
Front-frame gloss	Black frame 2-4 gloss units



Environmental characteristics

Model	S3220DGF
Compliant Standards	
<ul style="list-style-type: none"> ENERGY STAR certified monitor RoHS-compliant BFR/PVC free monitor (excluding external cables) Arsenic-free glass and Mercury-free for the panel only Energy Gauge shows the energy level being consumed by the monitor in real time. 	
Temperature	
Operating	0°C to 40°C (32°F to 104°F)
Non-operating	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Storage 10% to 90% (non-condensing) Shipping 10% to 90% (non-condensing)
Altitude	
Operating (maximum)	5,000 m (16,400 ft)
Non-operating (maximum)	12,192 m (40,000 ft)
Thermal dissipation	<ul style="list-style-type: none"> 341.44 BTU/hour (maximum) 102.43 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 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 power cable from the monitor.

VESA Modes	Horizontal Sync	Vertical Sync	Video	Power Indicator	Power Consumption
Normal operation	Active	Active	Active	White	100 W (maximum)** 30 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_{ON}	28.34 W
Total Energy Consumption (TEC)	89.21 kWh

** Maximum power consumption with max luminance, and USB active.

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.



 **NOTE: This monitor is ENERGY STAR certified.**

This product qualifies for ENERGY STAR in the factory default settings which can be restored by “Factory Reset” function in the OSD menu. Changing the factory default settings or enabling other features may increase power consumption that could exceed the ENERGY STAR specified limit.



 **NOTE:**

P_{ON}: Power consumption of On Mode as defined in Energy Star 8.0 version.

TEC: Total energy consumption in KWh as defined in Energy Star 8.0 version.



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

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

 **CAUTION: Read and follow the [Safety Instructions](#) before cleaning the monitor.**

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

- To clean your 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 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 the black-colored monitor may get scratched and show white scuff marks.
- 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

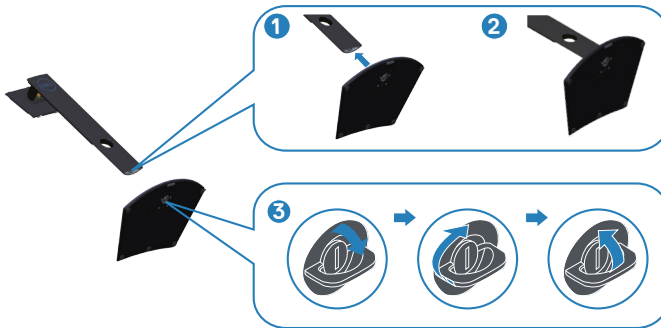
Connecting the stand

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

 **NOTE:** The following procedure is applicable for the stand that shipped with your monitor. If you are connecting a third-party stand, see the documentation that shipped with the stand.

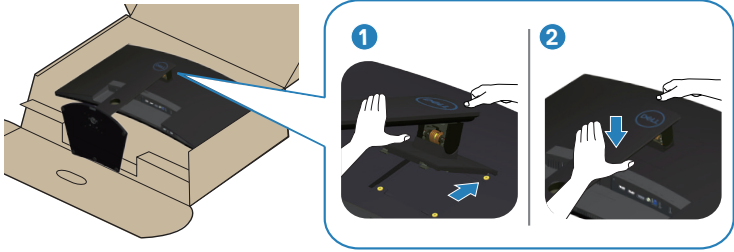
To attach the monitor stand:

1. Follow the instructions on the flaps of carton to remove the stand from the top cushion that secures it.
2. Connect the stand base to the stand riser.
3. Open the screw handle on the stand base and tighten the screw to secure the stand riser to the stand base.
4. Close the screw handle.



5. Slide the tabs on the stand assembly into the slots on the monitor and press the stand assembly down to snap it into place.





6. Place the monitor upright.



Connecting your monitor

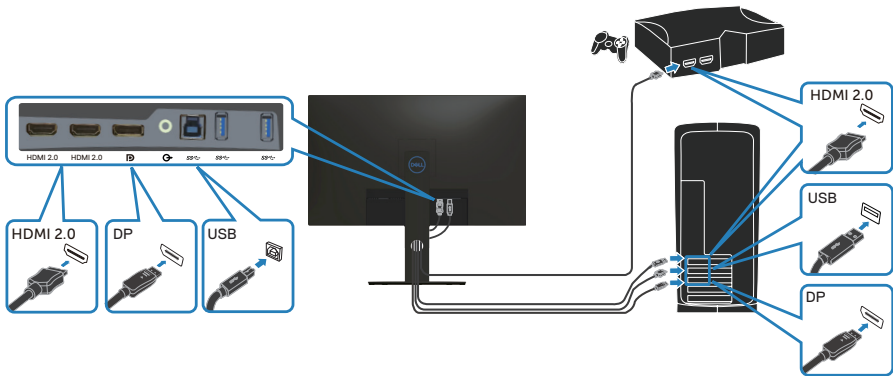
⚠ WARNING: Before you begin any of the procedures in this section, follow the [Safety Instructions](#).

📌 NOTE: Do not connect all cables to the computer at the same time. It is recommended to route the cables through the cable-management slot before you connect them to the monitor.

To connect your monitor to the computer:

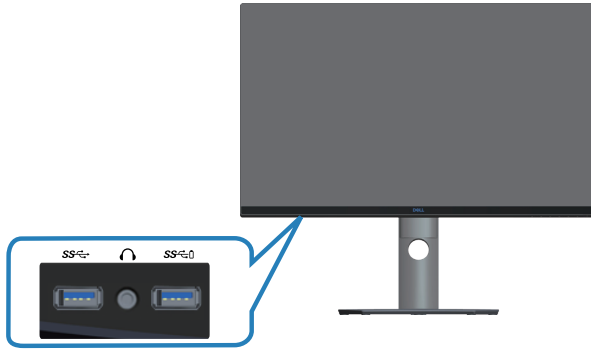
1. Turn Off your computer and disconnect the power cable.
2. Connect the HDMI or DP cable from your monitor to the computer.

Connecting the HDMI, DP and USB 3.0 cable



1. Connect the USB upstream cable (shipped with your monitor) 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.

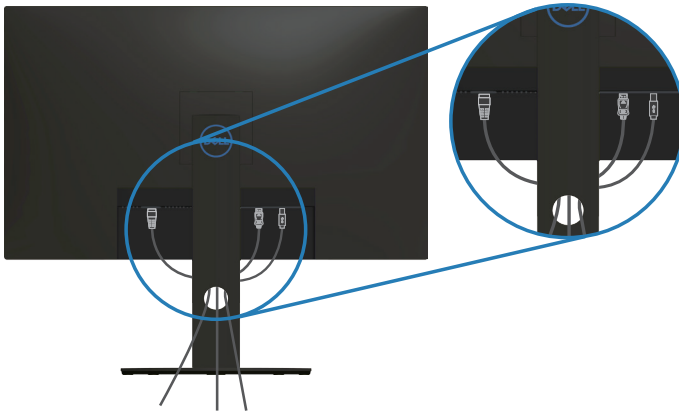






3. Connect the power cables from your computer and monitor into a wall outlet.

Organizing cables

Use the cable-management slot to route the cables connected to your monitor.

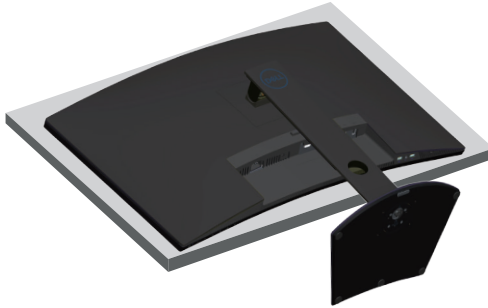


Removing the stand

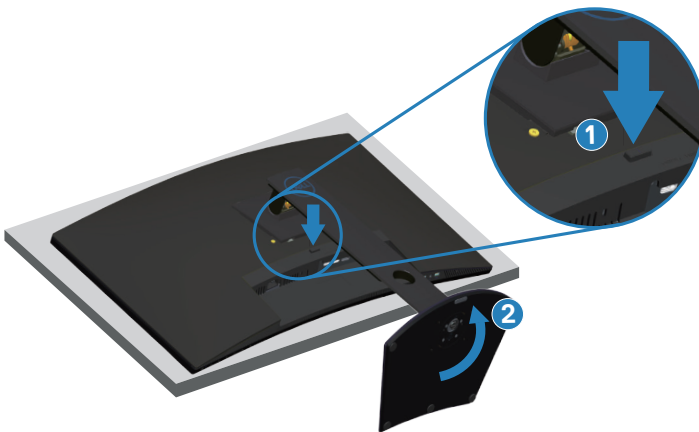
-  **NOTE:** To prevent scratches on the screen when removing the stand, ensure that the monitor is placed on a soft and clean surface.
-  **NOTE:** The following procedure is applicable only for the stand that shipped with your monitor. If you are connecting a third-party stand, see the documentation that shipped with the stand.

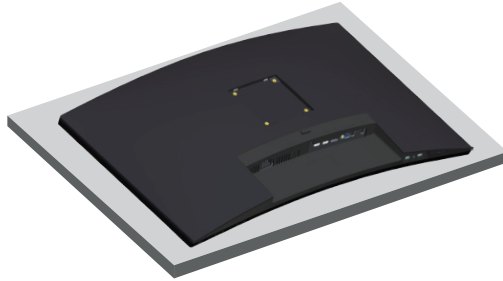
To remove the stand:

1. Place the monitor on a soft cloth or cushion at the edge of the desk.

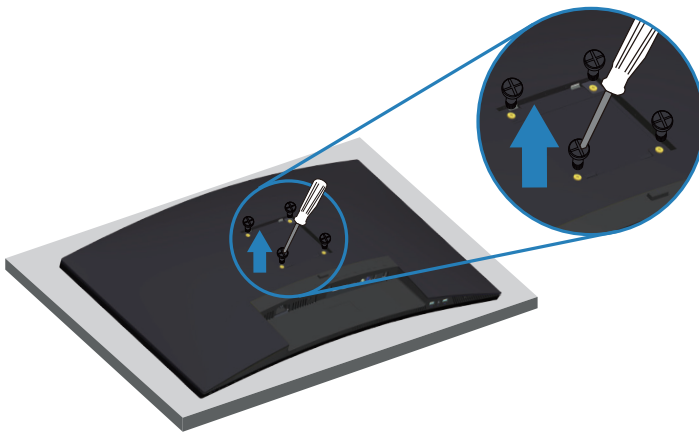


2. Press and hold the stand release button, and then lift the stand off the monitor.






Wall mounting (optional)



(Screw dimension: M4 x 10 mm).

See the documentation that shipped with the VESA-compatible wall mounting kit.

1. Lay the monitor on a soft cloth or cushion at the edge of the desk.
2. Remove the stand. See [Removing the stand](#) for details.
3. Remove the four screws that secure the panel to the monitor.
4. Attach the mounting bracket from the wall mounting kit to the monitor.
5. To mount the monitor on the wall, see the documentation that shipped with the wall mounting kit.

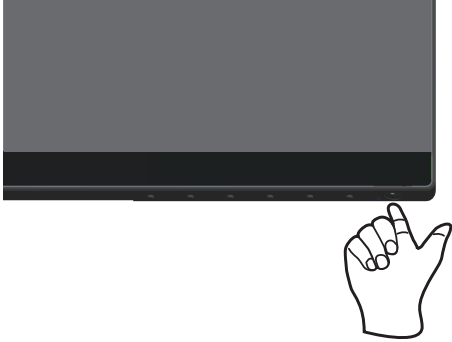
 **NOTE: For use only with UL or CSA or GS-listed wall mount bracket with minimum weight/load bearing capacity of 30.52 kg.**



Operating your monitor

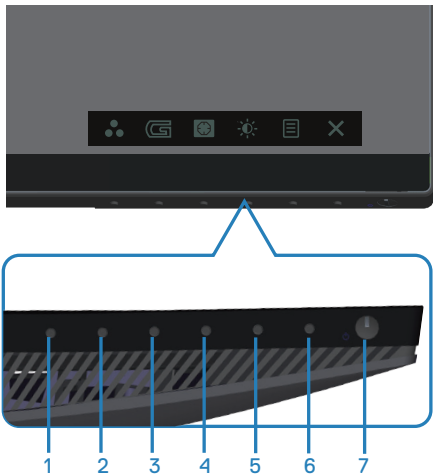
Power on the monitor

Press the  button to turn on the monitor.










Using the control buttons

Use the control buttons at the bottom edge of the monitor to adjust the image being displayed.



Control buttons

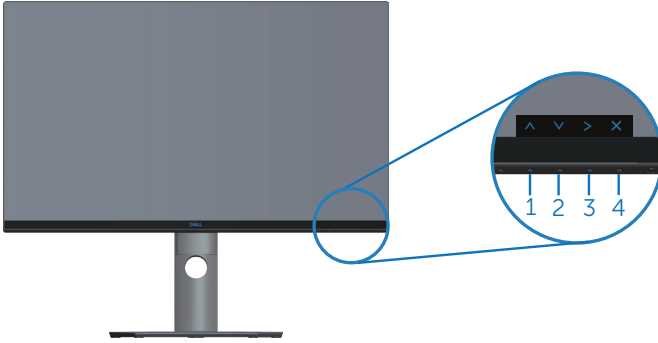
The following table describes the control buttons:





	Control Buttons	Description
1	 Shortcut key/Preset Modes	Use this button to choose from a list of preset modes.
2	 Game	Use this button to adjust the Game setting mode.
3	 Dark Stabilizer	Use this button to launch the Dark Stabilizer menu.
4	 Brightness/Contrast	Use this button to activate Brightness/Contrast/Volume adjustment.
5	 Menu	Use the Menu button to launch the On-Screen Display (OSD) and select the OSD Menu. See Accessing the OSD menu .
6	 Exit	Use this button to go back to the main menu or exit the OSD main menu.
7	 Power On/Off button (with LED indicator)	Use the Power button to turn the monitor on and off. 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 bottom of the monitor to adjust the image settings.





	Control Buttons	Description
1	 Up	Use the Up button to increase values or move up in a menu.
2	 Down	Use the Down button to decrease values or move down in a menu.
3	 OK	Use the OK button to confirm your selection in a menu.
4	 Back	Use the Back button to go back to the previous menu.



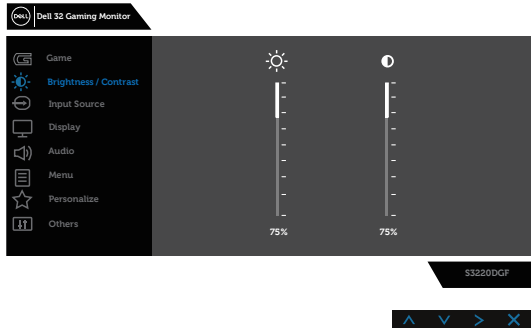
Using the On-Screen Display (OSD) menu










Accessing the OSD menu

 **NOTE:** Any changes you make are automatically saved when you move to another menu, exit the OSD menu, or wait for the OSD menu to automatically close.


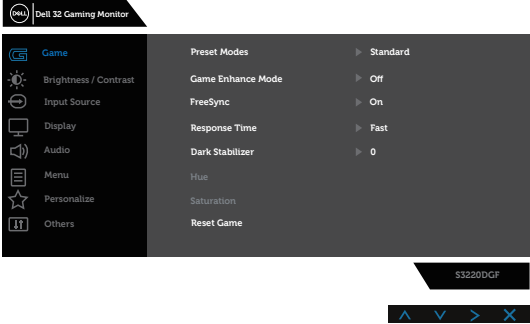
1. Press the  button to display the OSD main menu.

Main Menu for HDMI input

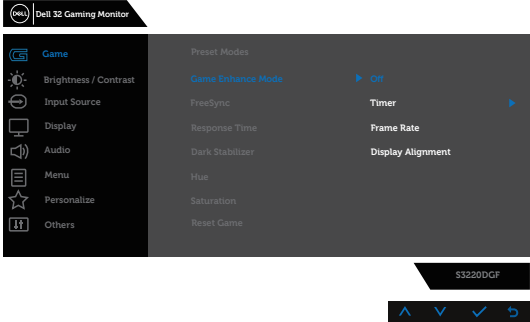
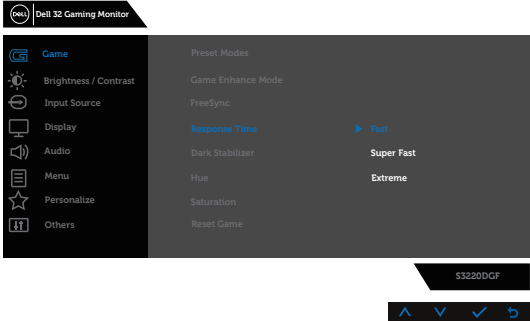







2. Press the  and  buttons to move between the setting options. As you move from one icon to another, the option name is highlighted. See the following table for a complete list of all the options available for the monitor.
3. Press the  button once to activate the highlighted option.
4. Press  and 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







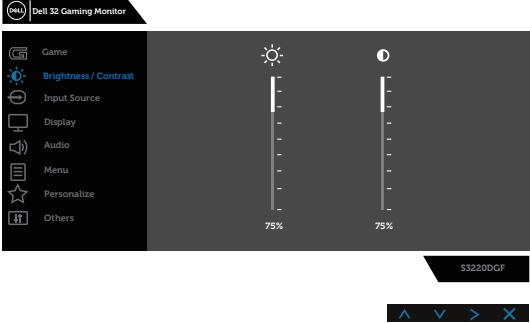






Icon	Menu and Submenus	Description
	<p>Game</p>	<p>Use Game to adjust the Game setting mode.</p> 
	<p>Preset Modes</p>	<ul style="list-style-type: none"> ● Standard: Reset the color to default setting on your monitor. ● FPS: Loads color settings ideal for First-Person Shooter games. ● MOBA/RTS: Loads color settings: Ideal for “Multiplayer Online Battle Arena” and “Real-time Strategy” games. ● RPG: Loads color settings ideal for Role-Playing games. ● SPORTS: Loads color settings: Ideal for “SPORTS” games. ● Game 1/Game 2/Game 3: Allows you to customize the color settings for your gaming needs. ● ComfortView: Decreases the level of blue light emitted from the screen to make viewing more comfortable for your eyes. ● Warm: Increases the color temperature. The screen appears warmer with a red or 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.



<p>Game Enhance Mode</p>	<p>Adjusts Game Enhance Mode to Off, Timer, Frame Rate or Display Alignment.</p> 
<p>Freesync</p>	<p>Allows you to set the Freesync On or Off.</p>
<p>Response Time</p>	<p>User can select between Fast, Super Fast or Extreme.</p> 
<p>Dark Stabilizer</p>	<p>The feature improves the visibility in the dark gaming scenarios. The higher the value (between 0 to 3), the better visibility in dark area of the display image.</p>
<p>Hue</p>	<p>This feature can shift the color of the video image to green or purple. This is used to adjust the desired flesh tone color. Use  and  to adjust the hue from 0 to 100.</p> <p>Press  to increase the green shade of the video image.</p> <p>Press  to increase the purple shade of the video image.</p> <p> NOTE: Hue adjustment is available only when you select FPS, RTS, RPG, SPORTS mode.</p>



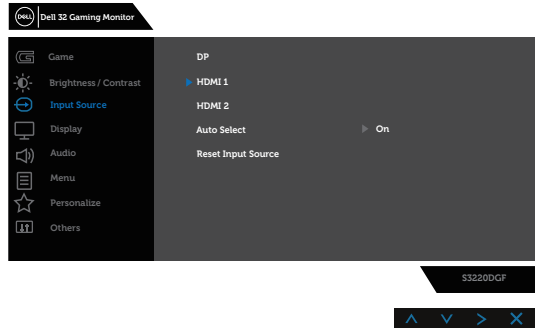
	<p>Saturation</p>	<p>This feature can adjust the color saturation of the video image. Use  and  to adjust the saturation from 0 to 100.</p> <p>Press  to increase the monochrome appearance of the video image.</p> <p>Press  to increase the colorful appearance of the video image.</p> <p> NOTE: Saturation adjustment is available only when you select FPS, RTS, RPG, SPORTS mode.</p>
	<p>Reset Game</p>	<p>Resets the game settings to the factory defaults.</p>
	<p>Brightness/ Contrast</p>	<p>Use this menu to change the brightness or contrast levels on the monitor.</p>  <p>Brightness</p> <p>Brightness adjusts the luminance of the backlight.</p> <p>Press the  button to increase the brightness and press the  button to decrease the brightness (min. 0 / max. 100).</p> <p>Contrast</p> <p>Adjust the brightness first, and then adjust the contrast only if further adjustment is necessary.</p> <p>Press the  button to increase the contrast and press the  button to decrease the contrast (min. 0 / max. 100).</p> <p>The contrast function adjusts the degree of difference between darkness and lightness on the monitor screen.</p>






Input Source


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




DP

Select DP input when you are using the DP connector. Push  to select the DP input source.

HDMI 1

Select HDMI 1 input when you are using the HDMI 1 connector. Push  to select the HDMI 1 input source.

HDMI 2

Select HDMI 2 input when you are using the HDMI 2 connector. Push  to select the HDMI 2 input source.

Auto Select

Select auto select to scan for available input signals.

Reset Input Source

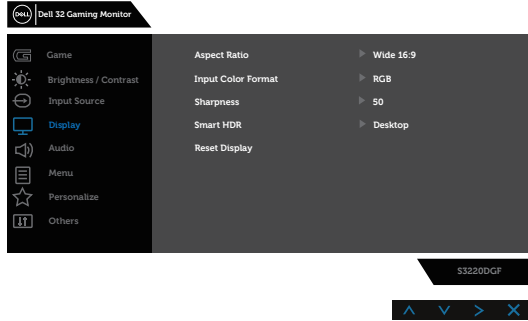
Select this option to restore default Input Source.





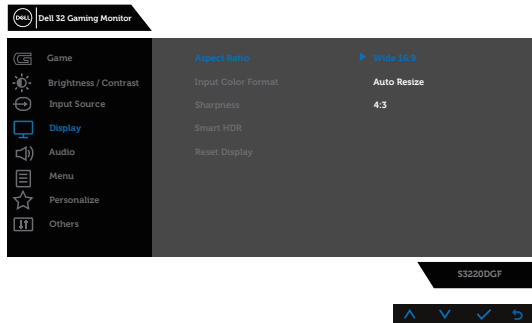
Display

Use the display to adjust image.



Aspect Ratio

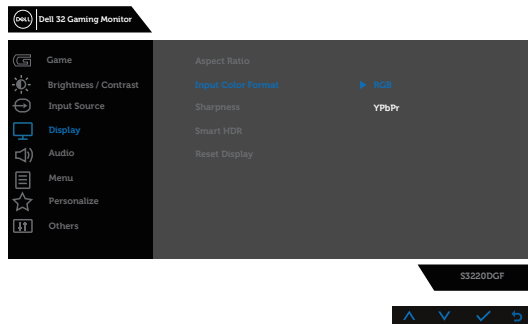
Adjusts the image ratio to Wide 16:9, Auto Resize or 4:3.




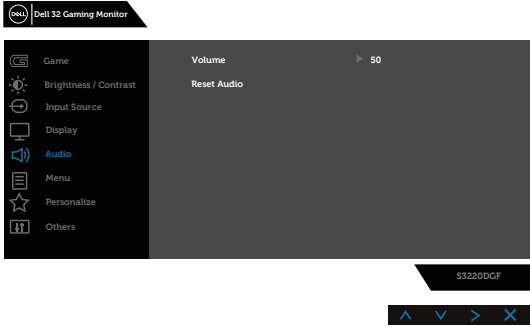


Input Color Format

Allows you to set the video input mode to:

- **RGB**: Select this option if your monitor is connected to a computer or DVD player using the HDMI cable.
- **YPbPr**: Select this option if your DVD player supports only YPbPr output.



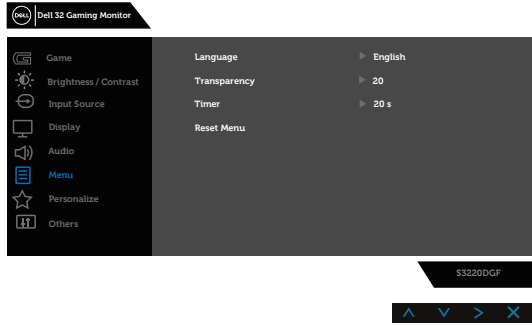
	<p>Sharpness</p>	<p>Use  to increase the sharpness and  to decrease the sharpness level between 0 to 100.</p>
	<p>Smart HDR</p>	<p>Smart High Dynamic Range Imaging.</p> <p>This technology simulates the human visual system to process a wider range of luminosity than traditional imaging technique can do.</p> <p>It is most suitable for displaying darkest or brightest scenes.</p> <ul style="list-style-type: none"> • Desktop: Smart HDR setting for computer desktop usage. • Movie HDR: Smart HDR setting for movie content. • Game HDR: Smart HDR setting for gaming. • Display HDR: Smart HDR setting for display usage. • Off: Turn off Smart HDR function.
	<p>Reset Display</p>	<p>Select this option to restore default display settings.</p>
<p></p>	<p>Audio</p>	
	<p>Volume</p>	<p>Use the buttons to adjust the volume. Minimum is '0' (-). Maximum is '100' (+).</p>
	<p>Reset Audio</p>	<p>Select this option to restore default display settings.</p>





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  and  to adjust the slider in 1 second increments, from 5 to 60 seconds.

Reset Menu

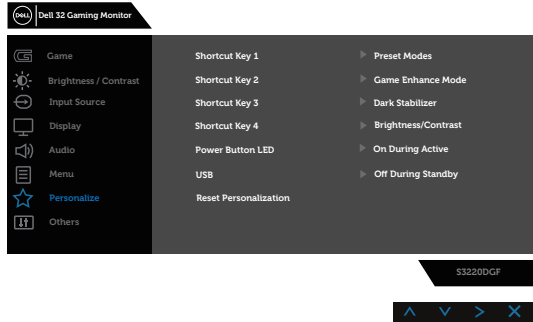
Reset all OSD settings to the factory preset values.





Personalize

Users can choose a feature from Shortcut key 1, Shortcut key 2, , Shortcut key 3, Shortcut key 4, Power Button LED, USB or Reset Personalization, Preset Modes or Volume and set it as a shortcut key.



Shortcut Key 1

User can select one of the following: Preset Modes, Game Enhance Mode, Freesync, Dark Stabilizer, Brightness/Contrast, Input Source, Aspect Ratio or Smart HDR to set the shortcut key 1.

Shortcut Key 2

User can select one of the following: Preset Modes, Game Enhance Mode, Freesync, Dark Stabilizer, Brightness/Contrast, Input Source, Aspect Ratio or Smart HDR to set the shortcut key 2.

Shortcut Key 3

User can select one of the following: Preset Modes, Game Enhance Mode, Freesync, Dark Stabilizer, Brightness/Contrast, Input Source, Aspect Ratio or Smart HDR to set the shortcut key 3.

Shortcut Key 4

User can select one of the following: Preset Modes, Game Enhance Mode, Freesync, Dark Stabilizer, Brightness/Contrast, Input Source, Aspect Ratio or Smart HDR to set the shortcut key 4.

Power Button LED

Allows you to set the power LED indicator On During Active or Off During Active to save energy.

USB

Allows you to set the USB On During Standby or Off During Standby to save energy.

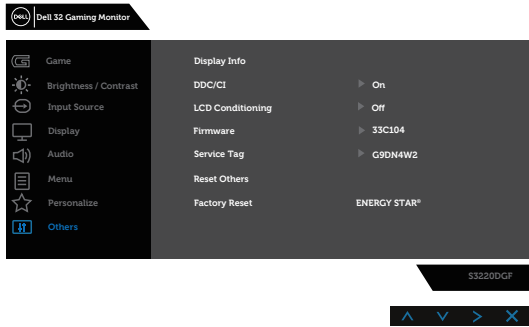
Reset Personalization

Allows you to restore shortcut key to the default setting.



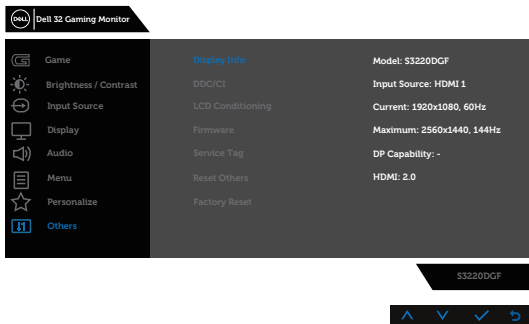


Others



Display Info

Press to display the information about the display.

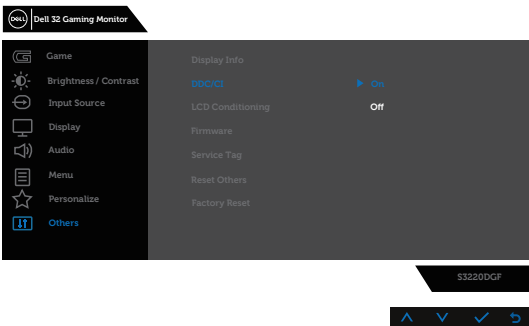


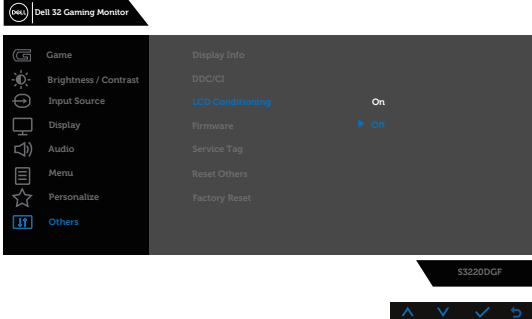
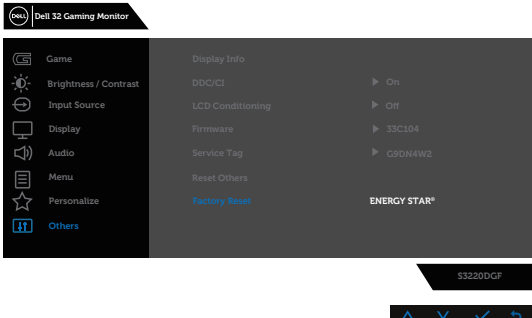
DDC/CI

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.



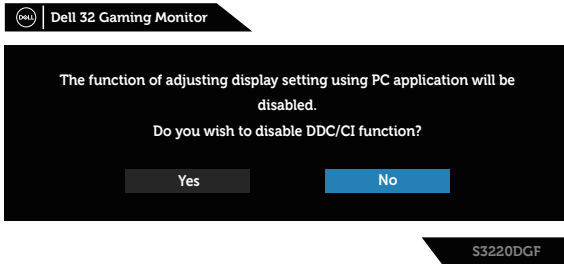
<p>LCD Conditioning</p>	<p>Helps reduce minor cases of image retention. Depending on the degree of image retention, the program may take some time to run. To start LCD conditioning, select Off.</p> 
<p>Firmware</p>	<p>Display the version of the firmware about the display.</p>
<p>Service Tag</p>	<p>Display the service tag number of the display.</p>
<p>Reset Other</p>	<p>Reset all settings under the others setting menu to the factory preset values.</p>
<p>Factory Reset</p>	<p>Restore all preset values to the factory default settings. These are also the settings for ENERGY STAR® tests.</p> 

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



OSD warning messages

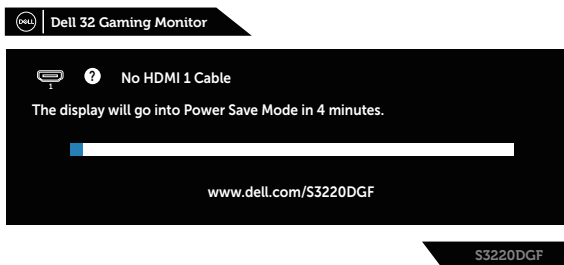
Before the **DDC/CI** function is disabled, the following message is displayed:



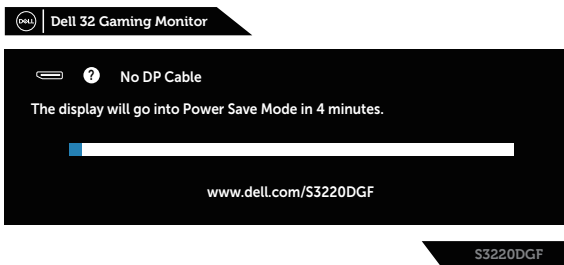
When the monitor enters the **Power Save Mode**, the following message appears:



If 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.

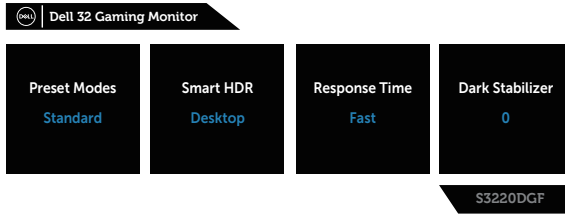


If DP cable is not connected, a floating dialog box as shown below appears. The monitor will enter Power Save Mode after 4 minutes if left at this state.



S3220DGF

When any control button is pressed at normal display state, a brief summary dialog box as shown below appears on the top right corner of the screen, showing the current setting of Preset Modes, Smart HDR, Response Time, Dark Stabilizer about the display.



 **NOTE:** For more information, see [Using the On-Screen Display \(OSD\) menu](#).

See [Troubleshooting](#) for more information.



Setting up your monitor

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 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**.

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 www.dell.com/support, enter your computer's 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.

If you have a Dell desktop or a Dell portable computer with internet access

- Go to www.dell.com/support, enter your service tag, and download the latest driver for your graphics card.
5. 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 to inquire about a graphics adapter that supports these resolutions.**




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

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

1. For Windows 8 and Windows 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, and so on).
6. Refer to the graphic card provider website for updated driver (for example, www.ATI.com OR www.AMD.com).
7. After installing the drivers for your graphics adapter, attempt to set the resolution to **2560 x 1440** again.

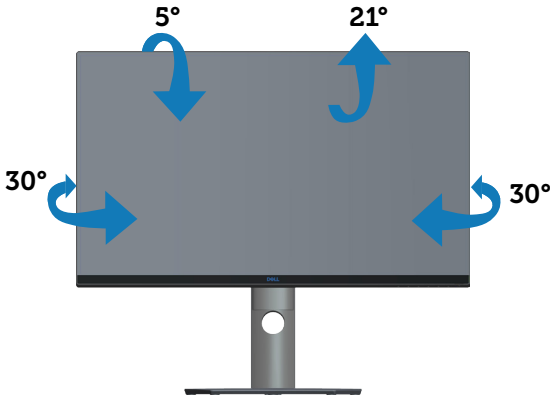


Using the tilt, swivel, and vertical extension

 **NOTE:** These values are applicable to the stand that was shipped with your monitor. To set up with any other stand, see the documentation that shipped with the stand.

Tilt, Swivel

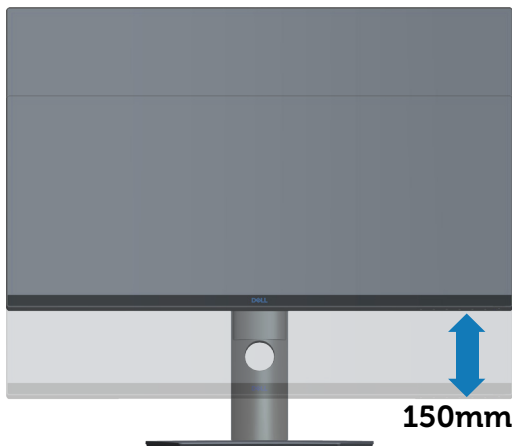
With the stand attached to the monitor, you can tilt and swivel the monitor for the most comfortable viewing angle.



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

Vertical Extension

 **NOTE:** The stand can be extended vertically up to 150 mm.



Troubleshooting

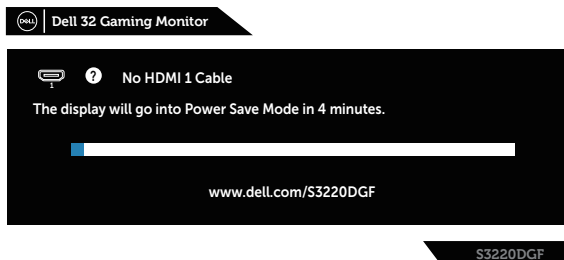
⚠ WARNING: Before you begin any of the procedures in this section, follow the [Safety Instructions](#).

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 all video cables from the monitor. This way, the computer doesn't have to be involved.
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.



✎ 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 your computer and the monitor.

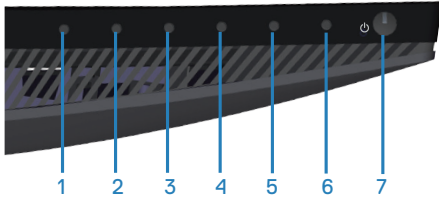
If your monitor remains dark after you reconnect the cables, check your video controller and computer.



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 3 for 5 seconds. A gray screen appears.
4. Carefully inspect the screen for abnormalities.
5. Press Button 3 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 3 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	Possible Solutions
No Video/Power LED off	<ul style="list-style-type: none">● 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 pressed.● Ensure that the correct input source is selected via the Input Source menu.
No Video/Power LED on	<ul style="list-style-type: none">● Increase brightness and contrast controls using the OSD.● Perform monitor self-test feature check.● Check for bent or broken pins in the video cable connector.● Run the built-in diagnostics.● Ensure that the correct input source is selected via the Input Source menu.
Poor Focus	<ul style="list-style-type: none">● Eliminate video extension cables.● Reset the monitor to Factory Settings (Factory Reset).● Change the video resolution to the correct aspect ratio.
Shaky/Jittery Video	<ul style="list-style-type: none">● Reset the monitor to Factory Settings (Factory Reset).● Check environmental factors.● Relocate the monitor and test in another room.
Missing Pixels	<ul style="list-style-type: none">● 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: www.dell.com/support/monitors.



Stuck-on Pixels	<ul style="list-style-type: none"> ● 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: www.dell.com/support/monitors.
Brightness Problems	<ul style="list-style-type: none"> ● Reset the monitor to Factory Settings (Factory Reset). ● Adjust brightness & contrast controls via OSD.
Geometric Distortion	<ul style="list-style-type: none"> ● Reset the monitor to Factory Settings (Factory Reset). ● Adjust horizontal & vertical controls via OSD.
Horizontal/Vertical Lines	<ul style="list-style-type: none"> ● Reset the monitor to Factory Settings (Factory Reset). ● 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	<ul style="list-style-type: none"> ● Reset the monitor to Factory Settings (Factory Reset). ● 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	<ul style="list-style-type: none"> ● Do not perform any troubleshooting steps. ● Contact Dell immediately.
Intermittent Problems	<ul style="list-style-type: none"> ● Ensure that the video cable connecting the monitor to the computer is connected properly and is secure. ● Reset the monitor to Factory Settings (Factory Reset). ● Perform monitor self-test feature check to determine if the intermittent problem occurs in self-test mode.
Missing Color	<ul style="list-style-type: none"> ● 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	<ul style="list-style-type: none"> ● Change the Color Setting Mode in the Color Settings OSD to Graphics or Video depending on the application. ● Try different Preset Modes in Color settings OSD. Adjust R/G/B value in Custom Color in Color settings OSD. ● Change the Input Color Format to RGB or YPbPr in the Color settings OSD. ● Run the built-in diagnostics.
Image retention from a static image left on the monitor for a long period of time	<ul style="list-style-type: none"> ● 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.
Video Ghosting or Overshooting	<ul style="list-style-type: none"> ● Change the Response Time in the Display OSD to Fast, Super Fast or Extreme depending on your application and usage.



Product-specific problems

Specific Symptoms	Possible Solutions
Screen image is too small	<ul style="list-style-type: none">• Check the Aspect Ratio setting in the Display settings OSD.• Reset the monitor to Factory Settings (Factory Reset).
Cannot adjust the monitor with the buttons on the bottom of the panel	<ul style="list-style-type: none">• Turn Off the monitor, unplug the power cord, plug it back, and then turn On the monitor.• Check if the OSD menu is locked. If yes, press and hold the menu button for 6 seconds to unlock.
No Input Signal when user controls are pressed	<ul style="list-style-type: none">• 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.• Check if the video cable is plugged in properly. Disconnect and reconnect the video cable if necessary.• Reset the computer or video player.
The picture does not fill the entire screen	<ul style="list-style-type: none">• Due to different video formats (aspect ratio) of DVDs, the monitor may display in full screen.• Run the built-in diagnostics.



Appendix

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 **Safety Environment and Regulatory Information (SERI)**.

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.

Please follow these safety instructions for best performance, and long life for your monitor:

1. The socket-outlet shall be installed near the equipment and shall be easily accessible.
2. The equipment can be installed on wall or ceiling mounting in horizontal position.
3. The monitor is equipped with a three-pronged grounded plug, a plug with a third (Grounding) pin.
4. Do not use this product near water.
5. Read these instructions carefully. Keep this document for future reference. Follow all warnings and instructions marked on product.
6. Excessive sound pressure from earphones and headphones can cause hearing loss. Adjustment of the equalizer to maximum increases the earphones and headphones output voltage and therefore the sound pressure level.



Contacting Dell

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

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

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

To 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.

