Dell G3223D Monitor

User's Guide

Monitor Model: G3223D
Regulatory Model: G3223Dc

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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Safety instructions

Use the following safety guidelines to protect your monitor from potential damage and to ensure your personal safety. Unless otherwise noted, each procedure in this document assumes that you have read the safety information that shipped with your monitor.

NOTE: Before using the monitor, read the safety information that is shipped with your monitor and printed on the product. Keep the documentation at a secure location for future reference.

⚠ 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.

⚠ WARNING: The possible long-term effect of listening to audio at high volume through the headphones (on monitor that support it) may damage your hearing ability.

- Place the monitor on a solid surface and handle it carefully. The screen is fragile and can be damaged if dropped or pressed with a sharp object.
- Ensure that your monitor is electrically rated to operate with the AC power available in your location.
- Keep the monitor in room temperature. Excessive cold or hot conditions can have an adverse effect on the liquid crystal of the display.
- Connect the power cable from the monitor to a wall outlet that is near and accessible. See Connecting your monitor.
- Do not place and use the monitor on a wet surface or near water.
- Do not subject the monitor to severe vibration or high impact conditions. For example, do not place the monitor inside a car trunk.
- Unplug the monitor when it is going to be left unused for an extended period.
- To avoid electric shock, do not attempt to remove any cover or touch inside the monitor.
- Read these instructions carefully. Keep this document for future reference. Follow all warnings and instructions indicated on product.
- Certain monitors can be wall mounted using the VESA mount that is sold separately. Ensure to use the correct VESA specifications as mentioned in the wall mounting section of the User's Guide.

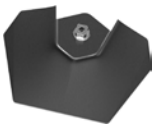
For information about safety instructions, *see the Safety, Environmental, and Regulatory Information (SERI)* document that is shipped with your monitor.

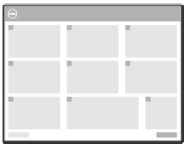
About your monitor

Package contents

The following table provides the list of components that are shipped with your monitor. If any component is missing, contact Dell. For more information, see Contacting Dell.

NOTE: Some items may be optional and may not ship with your monitor. Some features may not be available in certain countries.

Component image	Component description
	Monitor
	Stand riser
	Stand base
	Power cable (varies by countries)

Component image	Component description
	DP1.4 cable
	USB-C cable
 	• Quick Start Guide • Safety, Environmental, and Regulatory Information

Product features

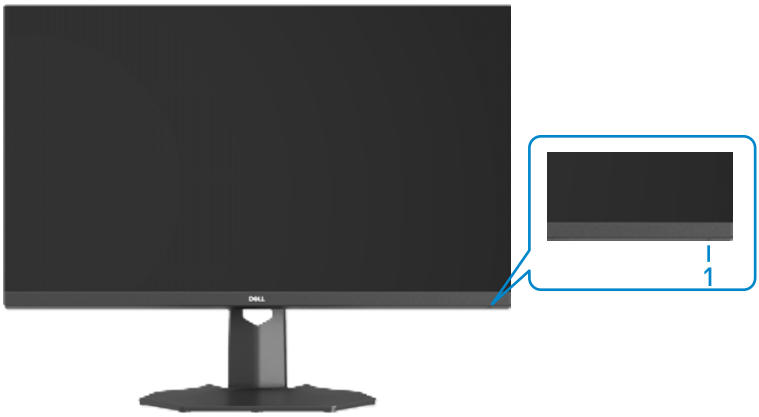
The Dell G3223D monitor has an active matrix, Thin-Film Transistor (TFT), Liquid Crystal Display (LCD), anti-static, and LED backlight. The monitor features include:

- Viewable display area measured diagonally 80 cm (31.50 in.).
- 2560 x 1440 resolution, with full-screen support for lower resolutions.
- NVIDIA G-SYNC Compatible Certified and supports AMD FreeSync Premium Pro Technology for tear free, stutter free, low latency gaming.
- Supports the high refresh rates of 144 Hz and 165 Hz and a rapid response time of 1 ms in Extreme mode.
- VESA DisplayHDR 400.
- Color gamut of DCI-P3 95%.
- Supports Picture by Picture (PBP) and Picture in Picture (PIP) select modes.
- Enabled with gaming console VRR supportability.
- Vision Engine including Night vision, Clear vision, Bino vision, Chroma vision, or Crosshair that can enhance visual elements in different gaming scenes.
- Digital connectivity with DP and HDMI.
- Equipped with one USB Type-C upstream port and two USB downstream ports.
- Plug-and-play capability if supported by your computer.
- On-Screen Display (OSD) adjustments for ease of setup and screen optimization.
- Game-enhanced features such as Timer, Frame Rate Counter, and Dark Stabilizer in addition to enhanced gaming modes, such as First-Person Shooter (FPS), Battle Royale/Real-Time Strategy (MOBA/RTS), Role-Playing Game (RPG), 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.
- Dell Display Manager Software included.
- Uses Low Blue Light panel and is compliant with TUV Rheinland (Hardware Solution) at factory reset/default setting model (Preset mode: Standard).
- 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. The long-term effects include but not limited to eye fatigue and digital eye strain. ComfortView Plus feature is designed to reduce the amount of blue light that is emitted from the monitor to optimize eye comfort.**

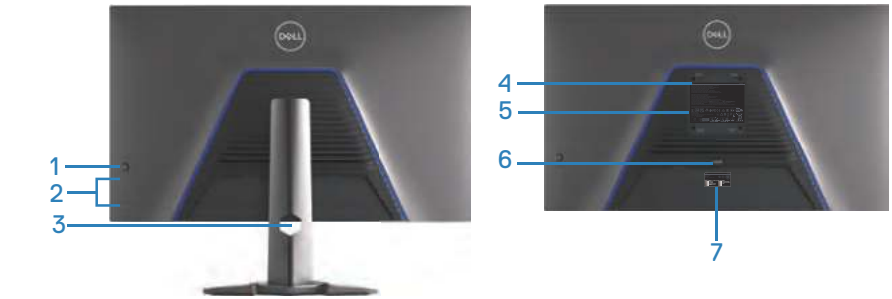
Identifying parts and controls

Front view



Label	Description	Use
1	Power on/off button (with power-status light)	To turn the monitor on or off. Solid white light indicates that the monitor is turned on and functioning normally. Blinking white light indicates that the monitor is in Standby Mode.

Back view



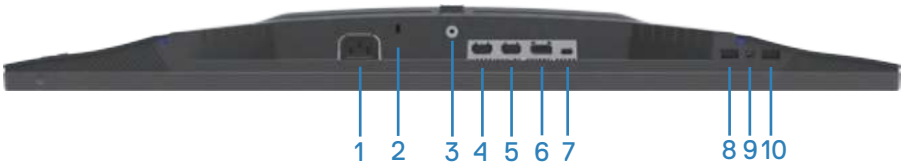
Back View with monitor stand

Label	Description	Use
1	Joystick	Use to control the OSD menu. For more information, see Operating your monitor.
2	Function buttons	Press the function buttons to adjust items in the OSD menu. For more information, see Operating your monitor.
3	Cable management slot	Use to organize cables by routing them through the slot.
4	VESA mounting holes (4)	Four VESA mounting holes (100 mm x 100 mm) accessible behind the VESA cover that is used for wall mounting the monitor through a VESA-compatible wall mount kit. For more information, see Wall mounting (optional).
5	Regulatory information label	Lists the regulatory approvals.
6	Stand release button	Releases the stand from the monitor.
7	Regulatory label (including barcode, serial number, and Service Tag label)	Lists the regulatory approvals. See 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 (based on Kensington Security Slot)	Secure your monitor using a security lock (purchased separately) to prevent unauthorized movement of your monitor. For more information, see Securing your monitor using Kensington lock (optional).
3	Stand lock feature	To lock the stand to the monitor using a M3x6 mm screw (screw not included).
4	HDMI 2.0 port	Connect to your computer using an HDMI cable.
5	HDMI 2.0 port	Connect to your computer using an HDMI cable.
6	DisplayPort 1.4	Connect to your computer using a DisplayPort cable.

Label	Description	Use
7	USB-C upstream port	Connect the USB-C cable that came with your monitor to the computer. This port supports USB Power Delivery, Data, and DisplayPort video signal. The SuperSpeed USB 5 Gbps (USB 3.2 Gen 1) Type-C port supports Alternate Mode DP 1.4. It supports a maximum resolution of 2560 x 1440 at 165 Hz, PD 5 V/3 A. **NOTE: USB-C is not supported on Windows versions that are before Windows 10.**
8	USB 3.0 charging port	USB 3.0 downstream port has the charging capability. Connect to charge your USB device.
9	Headphone out port	Connect to a headphone.
10	SuperSpeed USB 5 Gbps (USB 3.2 Gen 1) Type-A downstream port	Connect your USB device.* **NOTE: To use these ports, you must connect the USB-C cable (shipped with your monitor) to the USB-C upstream port on the monitor and to your computer.**

*To avoid signal interference, when a wireless USB device has been connected to a USB downstream port, it is NOT recommended to connect any other USB devices to the adjacent port(s).

Monitor specifications

Description	Value
Screen type	Active matrix-TFT LCD
Panel type	In-plane switching technology (IPS)
Viewable image dimensions:	
Diagonal	800 mm (31.50 in.)
Horizontal, Active Area	697.34 mm (27.45 in.)
Vertical, Active Area	392.26 mm (15.44 in.)
Area	273538.59 mm^2 (423.99 $in.^2$)
Native resolution and refresh rate	2560 x 1440 at 144 Hz (HDMI 2.0) 2560 x 1440 at 165 Hz (DisplayPort 1.4)
Pixel pitch	0.2724 mm x 0.2724 mm
Pixel per inch (PPI)	93
Viewing angle: Horizontal Vertical	 178° (typical) 178° (typical)
Luminance output	400 cd/m^2 (typical)
Contrast ratio	1000 to 1 (typical)
Faceplate coating	Haze 25%, 3H
Backlight	LED edgelight system
Response time	4 millisecond gray to gray in **Fast** mode 2 millisecond gray to gray in **Super Fast** mode 1 millisecond gray to gray in **Extreme** mode **NOTE: The 1 ms gray-to-gray mode is achievable in the Extreme mode to reduce visible motion blur and increased image responsiveness. However, the Extreme mode may introduce some slight and noticeable visual artifacts into the image. As each computer setup and each gamers' needs are different, it is recommended that you experiment with different modes to find the best setting.**

Description	Value
Color depth	1.07 Billion colors (8bit + A-FRC)
Color gamut	DCI-P3 CIE 1976 95%
Connectivity	2 x HDMI 2.0 with HDCP 2.2 (2560 x 1440, up to 144 Hz) 1 x DisplayPort 1.4 with HDCP 2.2 (2560 x 1440, up to 165 Hz) 1 x USB Type-C upstream port (Alternate mode with DisplayPort 1.4, 2560 x 1440, up to 165 Hz. Power Delivery PD up to 15 W)* 1 x USB 3.2 Gen 1 (5 Gbps) downstream ports with BC 1.2 charging at 2 A (maximum) 1 x SuperSpeed USB 5 Gbps (USB 3.2 Gen 1) downstream port 1 x Headphone out
Bezel width (edge of monitor to active area):	
Top	7.87 mm
Left/Right	7.90 mm
Bottom	27 mm
Adjustability:	
Height adjustable stand	100 mm
Tilt	-5° to 21°
Swivel	-30° to 30°
Slant Adjust	N/A
Dell display manager compatibility	Easy Arrange and other key features
Security	Security-lock slot (cable lock optional purchase)

*USB-C (Alternate mode with DisplayPort 1.4); High Bit Rate 3 (HBR3) is supported.

Resolution specifications

Description	Value
Horizontal scan range	30 kHz to 250 kHz (automatic)
Vertical scan range	48 Hz to 144 Hz (HDMI 2.0) 48 Hz to 165 Hz (DisplayPort 1.4)
Maximum preset resolution	2560 x 1440 at 60 Hz with HDCP 2.2 2560 x 1440 at 144 Hz with HDCP 2.2 (HDMI 2.0) 2560 x 1440 at 165 Hz with HDCP 2.2 (DisplayPort 1.4/ USB-C)

Supported video modes

Description	Value
Video display capabilities (HDMI)	480p, 576p, 720p, 1080p, 1080i, 1440P
Video display capabilities (DisplayPort/USB-C)	480p, 576p, 720p, 1080p, 1440P

NOTE: This monitor supports AMD FreeSync Premium Pro Technology.

Preset display modes

HDMI Preset Display Modes

Display mode	Horizontal frequency (kHz)	Vertical frequency (Hz)	Pixel clock (MHz)	Sync polarity (Horizontal / Vertical)
IBM, 720 x 400	31.47	70.08	28.32	-/+
VESA, 640 x 480	37.50	75	31.50	-/-
VESA, 640 x 480	31.47	59.94	25.18	-/-
VESA, 800 x 600	37.88	60.32	40	+/+
VESA, 800 x 600	46.88	75	49.50	+/+
VESA, 1024 x 768	48.36	60	65	-/-
VESA, 1024 x 768	60.02	75.03	78.75	+/+
VESA, 1152 x 864	67.50	75	108	+/+
VESA, 1280 x 800	49.31	59.91	71	+/+
VESA, 1280 x 1024	63.98	60.02	108	+/+
VESA, 1280 x 1024	79.98	75.02	135	+/+
VESA, 1680 x 1050	65.29	59.95	146.25	-/+
VESA, 1920 x 1080	67.50	60	148.50	+/+
VESA, 1920 x 1080	137.26	120	285.50	+/+
VESA, 2560 x 1440	183	120	497.75	+/-
VESA, 2560 x 1440	88.79	59.95	241.50	+/-
VESA, 2560 x 1440	222.06	144	592	+/-

DisplayPort/USB-C Preset Display Modes

Display mode	Horizontal frequency (kHz)	Vertical frequency (Hz)	Pixel clock (MHz)	Sync polarity (Horizontal / Vertical)
IBM, 720 x 400	31.47	70.08	28.32	-/+
VESA, 640 x 480	37.50	75	31.50	-/-
VESA, 640 x 480	31.47	59.94	25.18	-/-
VESA, 800 x 600	37.88	60.32	40	+/+
VESA, 800 x 600	46.88	75	49.50	+/+
VESA, 1024 x 768	48.36	60	65	-/-
VESA, 1024 x 768	60.02	75.03	78.75	+/+
VESA, 1152 x 864	67.50	75	108	+/+
VESA, 1280 x 1024	63.98	60.02	108	+/+
VESA, 1280 x 1024	79.98	75.02	135	+/+
VESA, 1680 x 1050	65.29	59.95	146.25	-/+
VESA, 1920 x 1080	67.50	60	148.50	+/+
VESA, 1920 x 1080	137.26	120	285.50	+/-
VESA, 1920 x 1080	166.59	143.98	346.50	+/-
VESA, 1920 x 1080	186.50	165	387.81	+/-
VESA, 2560 x 1440	88.79	59.95	241.50	+/-
VESA, 2560 x 1440	183	120	497.75	+/-
VESA, 2560 x 1440	222.15	143.97	604.25	+/-
VESA, 2560 x 1440	244.32	165	645	+/-

Electrical specifications

Description	Value
Video input signals	HDMI 2.0 (HDCP), 600 mV for each differential line, 100 ohm input impedance per differential pair. DisplayPort 1.4, 600 mV for each differential line, 100 ohm input impedance per differential pair. USB-C (with Alternate mode) signal input support.
AC input voltage/ frequency/current	100 VAC to 240 VAC/50 Hz or 60 Hz ± 3 Hz/1.5 A (maximum)
Inrush current	120 V: 30 A (maximum) at 0°C (cold start) 240 V: 60 A (maximum) at 0°C (cold start)
Power consumption	0.3 W (Off mode)[1] 0.4 W (Standby Mode)[1] 33 W (On Mode)[1] 97 W (Maximum)[2] 33 W (P_{on})[3] 104 kWh (TEC)[3]

[1] As defined in EU 2019/2021 and EU 2019/2013.

[2] Maximum brightness and contrast setting.

[3] P_{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.

This document is informational only and reflects laboratory performance. Your product may perform differently, depending on the software, components, and devices you ordered and shall have no obligation to update such information.

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.

Physical characteristics

Description	Value
Signal cable type	• Digital: DisplayPort, 20 pins • Digital: HDMI, 19 pins • Digital: USB-C, 24 pins
Dimensions (with stand):	
Height (extended)	556 mm (21.89 in.)
Height (compressed)	456 mm (17.96 in.)
Width	713.15 mm (28.08 in.)
Depth	246.94 mm (9.72 in.)
Dimensions (without stand):	
Height	427.12 mm (16.82 in.)
Width	713.15 mm (28.08 in.)
Depth	68.61 mm (2.70 in.)
Stand dimensions:	
Height	420.30 mm (16.55 in.)
Width	340.27 mm (13.40 in.)
Depth	246.94 mm (9.72 in.)
Weight:	
Weight with packaging	12.90 kg (28.44 lb)
Weight with stand assembly and cables	8.66 kg (19.09 lb)
Weight without stand assembly (no cables)	5.72 kg (12.61 lb)
Weight of stand assembly	2.78 kg (6.13 lb)
Front-frame gloss	Black frame 2-4 gloss units

Environmental characteristics

Description	Value
Compliant standards:	
• RoHS-compliant • BFR/PVC reduce monitor (The circuit boards are made from BFR/PVC-free laminates.) • Arsenic-free glass and Mercury-free for the panel only	
Temperature:	
Operating	0°C to 40°C (32°F to 104°F)
Non-operating	• Storage: -20°C to 60°C (-4°F to 140°F) • Shipping: -20°C to 60°C (-4°F to 140°F)
Humidity:	
Operating	10% to 80% (non-condensing)
Non-operating	• Storage 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	331.2 BTU/hour (maximum) 112.68 BTU/hour (On Mode)

Plug-and-Play capability

You can connect the monitor to any Plug-and-Play compatible system. The monitor automatically provides the computer with its Extended Display Identification Data (EDID) using Display Data Channel (DOC) protocols so that the computer can configure itself and optimize the monitor settings. Most monitor installations are automatic; you can select different settings as required. 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 about Dell Monitor Quality and Pixel Policy, see Dell Support site at **www.dell.com/pixelguidelines**.

Ergonomics

△ **CAUTION: Improper or prolonged usage of keyboard may result in injury.**

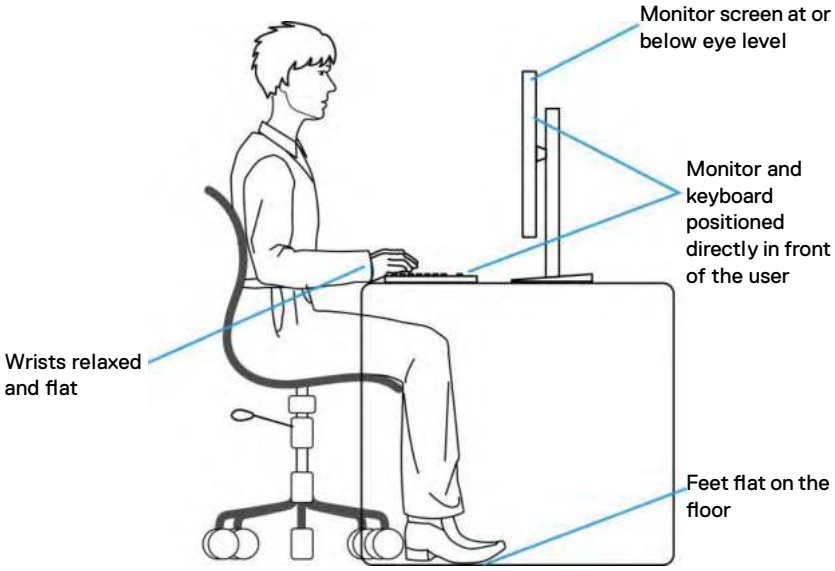
△ **CAUTION: Viewing the monitor screen for extended periods of time may result in eye strain.**

For comfort and efficiency, observe the following guidelines when setting up and using your computer workstation:

- Position your computer so that the monitor and keyboard are directly in front of you as you work. Special shelves are commercially available to help you correctly position your keyboard.
- To reduce the risk of eye strain and neck, arm, back, or shoulder pain from using the monitor for long period, it is recommend that you:

1. Set the distance of the screen between 20 in. to 28 in. (50 cm - 70 cm) from your eyes.
2. Blink frequently to moisten your eyes or wet your eyes with water after prolonged usage of the monitor.
3. Take regular and frequent breaks for 20 minutes every two hours.
4. Look away from your monitor and gaze at a distant object at 20 ft away for at least 20 seconds during the breaks.
5. Perform stretches to relieve tension in the neck, arm, back, and shoulders during the breaks.

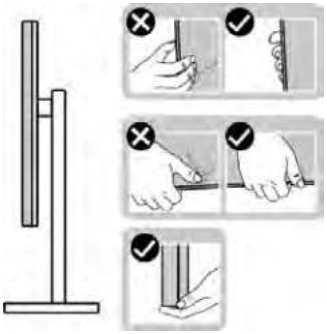
- Ensure that the monitor screen is at eye level or slightly lower when you are sitting in front of the monitor.
- Adjust the tilt of the monitor, its contrast, and brightness settings.
- Adjust the ambient lighting around you. Adjust the overhead lights, desk lamps, and the curtains or blinds on nearby windows to minimize reflections and glare on the monitor screen.
- Use a chair that provides good lower-back support.
- Keep your forearms horizontal with your wrists in a neutral, comfortable position while using the keyboard or mouse.
- Always leave space to rest your hands while using the keyboard or mouse.
- Let your upper arms rest naturally on both sides.
- Ensure that your feet are resting flat on the floor.
- When sitting, ensure that the weight of your legs is on your feet and not on the front portion of your seat. Adjust the chair height or use a footrest if necessary to maintain a proper posture.
- Vary your work activities. Try to organize your work so that you do not have to sit and work for extended periods of time. Try to stand or get up and walk around at regular intervals.
- Keep the area under your desk clear of obstructions and power cables that may interfere with comfortable seating or present a potential trip hazard.



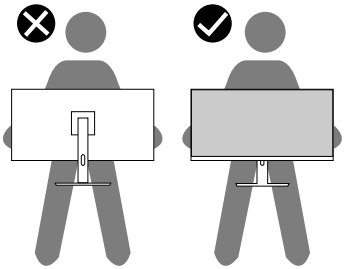
Handling and moving your display

To ensure that the monitor is handled safely when lifting or moving it, observe the following guidelines:

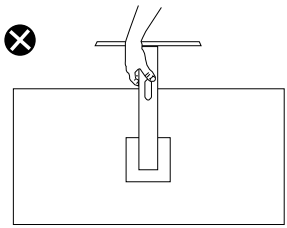
- Before moving or lifting the monitor, turn off your computer and the monitor.
- Disconnect all cables from the monitor.
- Place the monitor in the original box with the original packing materials.
- Hold the bottom edge and the side of the monitor firmly without applying excessive pressure when lifting or moving the monitor.



- When lifting or moving the monitor, ensure that the screen is facing away from you. Do not press on the display area to avoid any scratches or damage.



- When transporting the monitor, avoid any sudden shock or vibration to it.
- When lifting or moving the monitor, do not turn the monitor upside down while holding the stand base or stand riser. It may result in accidental damage to the monitor or cause personal injury.



Maintenance guidelines

Cleaning your monitor

⚠ **WARNING: Using improper methods when cleaning the monitor can result in a physical damage to the screen or the body of your Dell monitor.**

△ **CAUTION: Read and follow the** Safety instructions **before cleaning the monitor.**

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

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

- To clean the Dell monitor screen, lightly dampen a soft, clean cloth with water. If possible, use a special screen-cleaning tissue or solution that is suitable for the Dell monitor screen.

△ **CAUTION: Do not use detergents or other chemicals such as benzene, thinner, ammonia, abrasive cleaners, or compressed air.**

△ **CAUTION: Using chemicals for cleaning may cause changes in the appearance of the monitor, such as color fading, milky film on the monitor, deformation, uneven dark shade, and peeling of screen area.**

⚠ **WARNING: Do not spray the cleaning solution or even water directly on the surface of the monitor. The liquid can accumulate at the bottom of the display panel and corrode the electronics resulting in permanent damage. Instead, apply the cleaning solution or water to a soft cloth and then clean the monitor.**

NOTE: Monitor damage due to improper cleaning methods and use of benzene, thinner, ammonia, abrasive cleaners, alcohol, compressed air, detergent of any kind can lead to a Customer Induced Damage (CID). CID is not covered under the standard Dell warranty.

- If you notice white powder when you unpack your monitor, wipe it off with a cloth.
- Handle your monitor with care as a dark-colored monitor may get scratched and show white scuff marks more than a light-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.

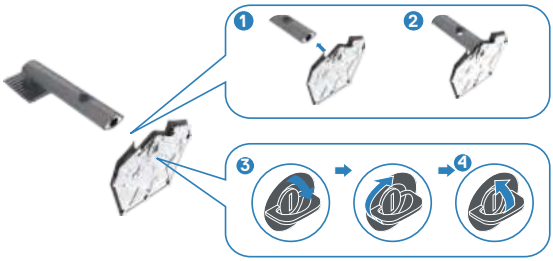
Setting up the monitor

Attaching the stand

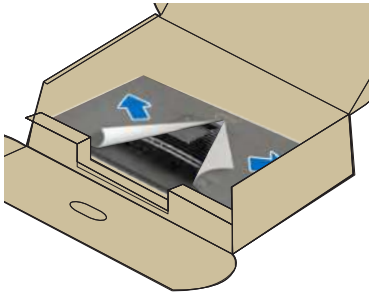
NOTE: The stand is not installed at the factory when shipped.

NOTE: The following instructions are applicable only for the stand that was shipped with your monitor. If you are attaching a stand that you purchased from any other source, follow the setup instructions that were included with the stand.

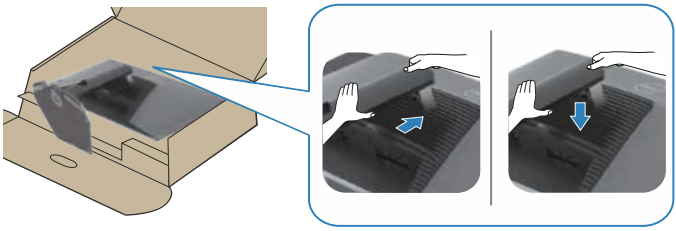
1. Follow the instructions on the flaps of packaging box to remove the stand from the top cushion that secures it.
2. Align and place the stand riser on the stand base.
3. Open the screw handle at the bottom of the stand base and turn it clockwise to secure the stand assembly.
4. Close the screw handle.



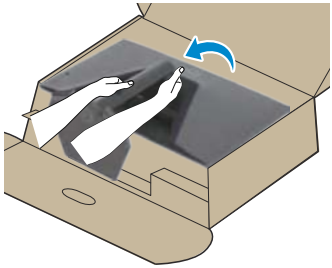
5. Open the protective cover on the monitor to access the VESA slot on the monitor.



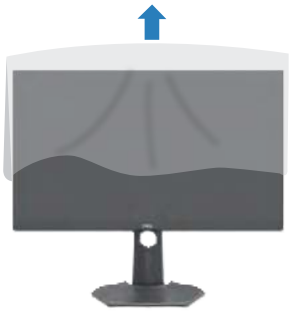
6. Slide the tabs on the stand riser into the slots on the display back cover and lower the stand assembly to snap it into place.



7. Hold the stand riser and lift the monitor carefully, and then place it on a flat surface.



8. Lift the protective cover from the monitor.

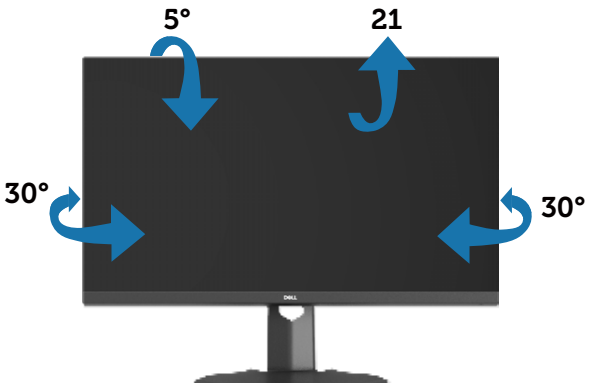


Using the tilt and vertical extension

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 extension

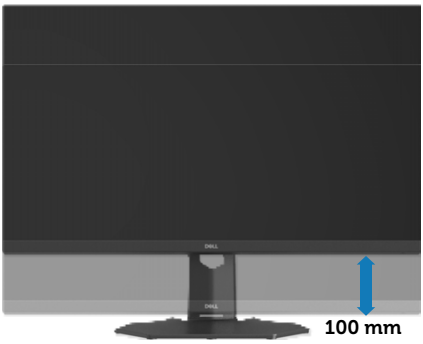
With the stand that is attached to the monitor, you can tilt the monitor for the most comfortable viewing angle.



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

Vertical extension

NOTE: The stand can be extended vertically up to 100 mm.



Connecting your monitor

WARNING: Before you begin any of the procedures, follow the Safety instructions.

NOTE: Dell monitors are designed to work optimally with Dell supplied inbox cables. Dell does not guarantee the video quality and performance if non-Dell cables are used.

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

NOTE: Do not connect all cables to the computer simultaneously.

NOTE: The images are used for illustration purpose only. The appearance of the computer may vary.

To connect your monitor to the computer:

1. Turn off your computer and disconnect the power cable.
2. Connect the DisplayPort/USB-C cable from your monitor to the computer.

Connecting the DisplayPort 1.4 cable



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 that are connected to your monitor.



Securing your monitor using Kensington lock (optional)

The security lock slot is at the bottom of the monitor. For more information, see Security-lock slot. Secure your monitor to a table using the Kensington security lock.

For more information about using the Kensington lock (sold separately), see the documentation that is shipped with the lock.



NOTE: The image is used for illustration purpose only. The appearance of the lock may vary.

Removing the monitor stand

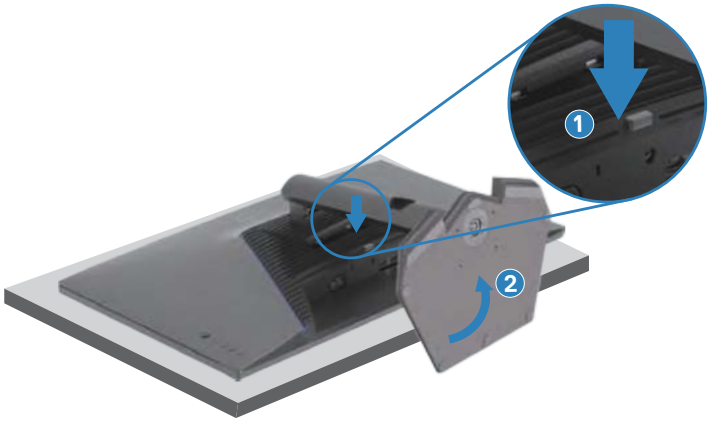
NOTE: To prevent scratches on the LCD screen when removing the stand, ensure that the monitor is placed on a soft surface and handle it carefully.

NOTE: The following steps are applicable for removing the stand that is shipped with your monitor. If you are removing a stand that you purchased from any other source, follow the setup instructions that are included with the stand.

1. Place the monitor on a soft cloth or cushion on a stable flat table.



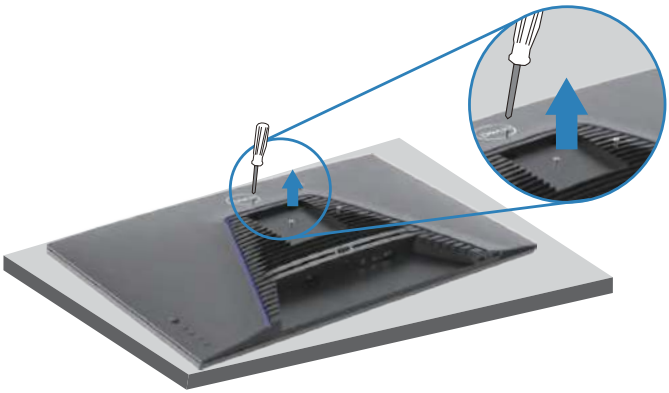
2. Press and hold the stand-release button at the back of the display.



3. Lift the stand up and away from the monitor.



Wall mounting (optional)



NOTE: Use M4x10 mm screws to connect the monitor to the wall-mounting kit.

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

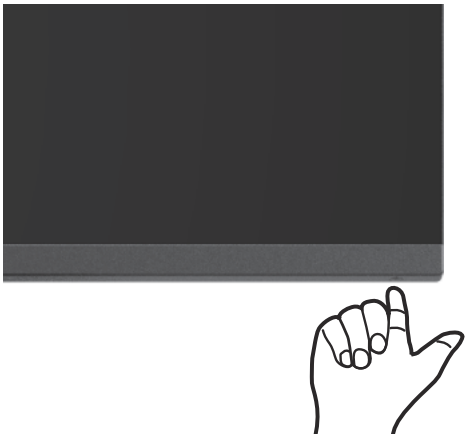
1. Place the monitor on a soft cloth or cushion on a stable flat table.
2. Remove the stand. For more information, see Removing the monitor stand.
3. Remove the four screws that secure the display back cover.
4. Attach the mounting bracket from the wall mounting kit to the monitor.
5. Mount the monitor on the wall as instructed in 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 or load bearing capacity of 22.88 kg (50.44 lb).

Operating your monitor

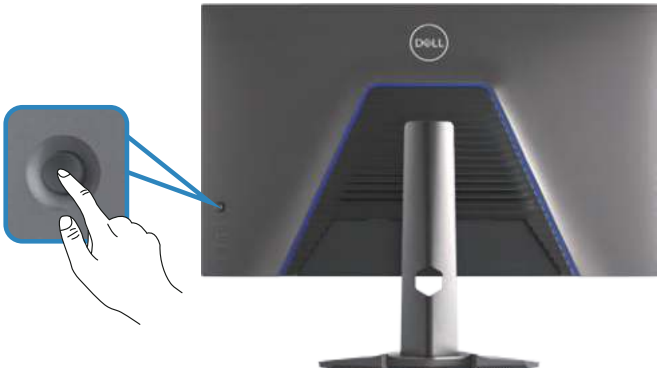
Power on the monitor

Press the button to turn on the monitor.



Using the joystick button

Use the joystick button on the rear of the monitor to adjust the image settings.



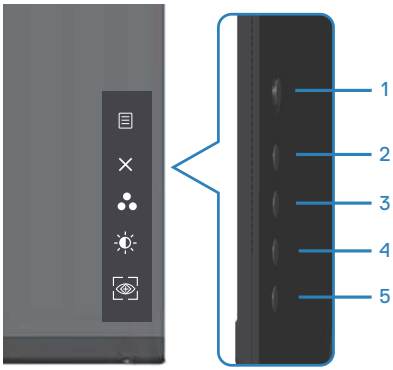
1. Press the joystick button to launch the OSD main menu.
2. Move the joystick button up, down, left, or right to switch between options.
3. Press the joystick button again to confirm the settings and exit.

Joystick Description

Joystick	Description
	• When the OSD menu is on, press the button to confirm the selection or save the settings. • When the OSD menu is off, press the button to launch the OSD main menu. For more information, see Accessing the menu system.
	• For two-way (right and left) directional navigation. • Move right to enter the submenu. • Move left to exit from the submenu. • Increases (right) or decreases (left) the parameters of selected menu item.
	• For two-way (up and down) directional navigation. • Switches between the menu items. • Increases (up) or decreases (down) the parameters of selected menu item.

Using the control buttons

Use the control buttons at the rear of the monitor to adjust the specifications of the image being displayed.



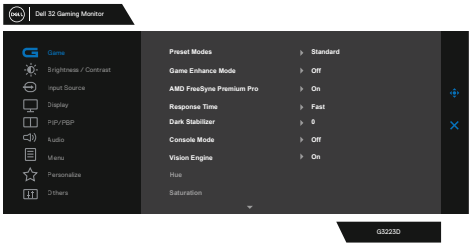
Control buttons

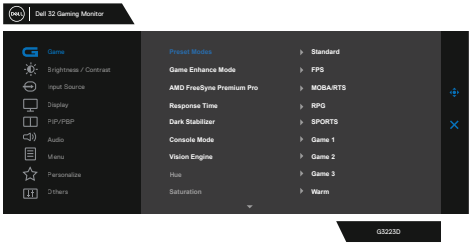
The following table describes the control buttons:

	Control buttons	Description
1	Menu	Use the **Menu** button to launch the On-Screen Display (OSD) and select the OSD menu. For more information, see Accessing the menu system.
2	Exit	Use this button to go back to the main menu or exit the OSD main menu.
3	Shortcut key/Preset Modes	Use this button for choose from a list of preset modes.
4	Shortcut key/ Brightness	Use this button to adjust the brightness.
5	Shortcut key/Vision Engine	Use this button to adjust the Vision Engine.

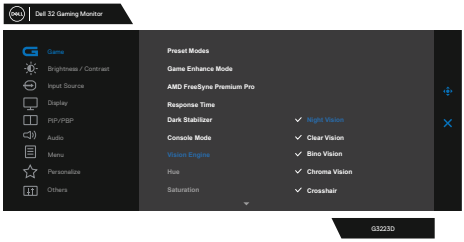
Using the On-Screen Display (OSD) menu

Accessing the menu system

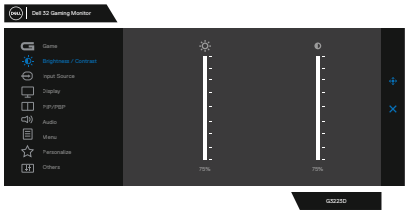
Icon	Menu and submenus	Description
	Game	
	Preset Modes	When you select **Preset Modes**, you can choose **Standard**, **FPS**, **MOBA/RTS**, **RPG**, **SPORTS**, **Game 1**, **Game 2**, **Game 3**, **Warm**, **Cool**, **sRGB**, or **Custom Color** from the list. • **Standard:** Loads the monitor's default color settings. The **Standard** mode is the default preset mode. • **FPS:** Loads color settings ideal for First-Person Shooter games. • **MOBA/RTS:** Loads color settings ideal for Multiplayer Online Battle Arena (MOBA) and Real-Time Strategy (RTS) games. • **RPG:** Loads color settings ideal for Role-Playing games. • **SPORTS:** Loads color settings ideal for "SPORTS" games. • **Game 1/Game 2/Game 3:** Enables you to customize the color settings for your gaming needs. • **Warm:** Increases the color temperature. The screen appears warmer with a red/yellow tint. • **Cool:** Decreases the color temperature. The screen appears cooler with a blue tint. • **sRGB:** Loads color settings ideal for sRGB.

Icon	Menu and submenus	Description
	Preset Modes	• **Custom Color:** Enables you to manually adjust the color settings. Moves the joystick button to adjust the **Gain, Offset, Hue,** and **Saturation** values and create your own preset color mode.  **NOTE: Preset modes are not available when Console mode is turned to "on".**
	Game Enhance Mode	Adjusts Game Enhance Mode to **Off, Timer, Frame Rate,** or **Display Alignment**. • **Off:** Selects to disable the functions under **Game Enhance Mode**. • **Timer:** Enables you to disable or enable the timer at the top-left corner of the display. The timer shows the time elapsed since the game starts. Selects an option from the time-interval list to keep you aware of the remaining time. • **Frame Rate:** Selecting **On** enables you to display the current frames per second when playing games. The higher the rate, the smoother motion appears. • **Display Alignment:** Activating the function may help ensure the perfect alignment of the video contents from multiple displays.
	AMD FreeSync Premium Pro	Enables you to set the AMD FreeSync Premium Pro **On** or **Off**.
	Response Time	Enables you to set the Response Time to **Fast**, **Super Fast**, or **Extreme**.

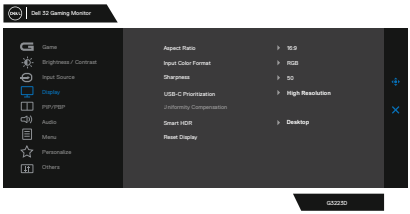
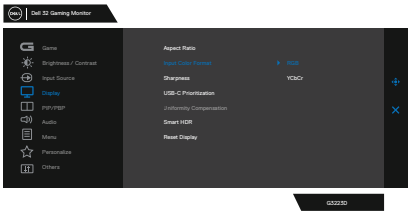
Icon	Menu and submenus	Description
	Dark Stabilizer	Improves the visibility in the dark gaming scenarios. The higher value (between 0 to 3), increases the better visibility in dark area of the display image.
	Console Mode	Adjusts **Console Mode** to **On/Off, Color,** or **Gamma**. Activating this feature gives the best gaming experience when playing console games. For more information, see Console Mode. • **On/Off:** Selects to disable the functions under Console Mode. • **Color:** RGB default 100, and this mode can adjust RGB from 0~100. • **Gamma:** Gamma default is at center 2.2. Selecting this feature enables you to manually adjust Gamma from 1.8~2.6. **NOTE: Preset modes are not available when Console mode is turned to "on".**

Icon	Menu and submenus	Description
	Vision Engine	Adjusts Vision Engine to **On/Off, Night vision, Clear vision, Bino vision, Chroma vision,** or **Crosshair**, and this feature improves the visibility in gaming scenes. For more information, see Vision Engine. • **On/Off:** Selects to enable/disable functions under Vision Engine. • **Night Vision:** Uses this feature when playing games to identify objects clearly, enhance contents in darkness. • **Clear Vision:** This feature is suitable to clean up visual artifacts, enhance contents details such as sharpness, edges, super-resolutions, in a day scene. • **Bino Vision**: This feature can zoom in on distant objects like a telescope. • **Chroma Vision**: This feature can apply heat map in dark gaming scenes. • **Crosshair**: This feature enhances the visibility of in-game crosshair.  **NOTES:** **1. FPS and Timer counters are not available in Crosshair.** **2. Vision Engine is not available in PIP/PBP.**

Icon	Menu and submenus	Description
	Hue	Shifts the color of the video image to green or purple. This feature is used to adjust the required flesh tone color. Uses the joystick button to adjust the hue from 0 to 100. Moves the joystick button up to increase the green shade of the video image. Moves the joystick button down to increase the purple shade of the video image. **NOTE:** The Hue adjustment is available only when you select **FPS, MOBA/RTS, SPORTS,** or **RPG** preset mode.
	Saturation	Adjusts the color saturation of the video image. Uses the joystick button to adjust the saturation from 0 to 100. Moves the joystick button up to increase the colorful appearance of the video image. Moves the joystick button down to increase the monochrome appearance of the video image. **NOTE: The Saturation adjustment is available only when you select FPS, MOBA/ RTS, SPORTS, or RPG preset mode.**
	Reset Game	Resets all settings under the **Game** menu to the factory defaults.

Icon	Menu and submenus	Description
	Brightness/ Contrast	Uses this menu to adjust the **brightness** and **contrast**. 
	Brightness	Adjusts the luminance of the backlight (minimum 0; maximum 100). Moves the joystick button up to increase brightness. Moves the joystick button down to decrease brightness.
	Contrast	Adjusts the Brightness first, and then adjust Contrast only if further adjustment is necessary. Moves the joystick button up to increase contrast. Moves the joystick button down to decrease contrast (between 0 and 100). The **Contrast** function adjusts the degree of difference between darkness and lightness on the monitor screen.

Icon	Menu and submenus	Description
	Input Source	Uses the **Input Source** menu to select between the different video signals that may be connected to your monitor. 
	USB-C 15W	Selects the **USB-C 15W** input when using the USB-C connector. Presses the joystick button to confirm the selection.
	DP	Selects **DP** input when using the DP (DisplayPort) connector. Presses the joystick button to confirm the selection.
	HDMI 1 **HDMI 2**	Selects the **HDMI 1** or **HDMI 2** input when using the HDMI connector. Presses the joystick button to confirm the selection.
	Auto Select	Turns on the function to allow the monitor to automatically scan for available input sources. Presses the joystick button to confirm the selection.
	Auto Select for USB-C	Enables you to set **Auto Select for USB-C** to: • **Prompt for Multiple Inputs:** Always displays the "Switch to USB-C Video Input" message for you to choose whether to switch or not. • **Yes:** Always switches to USB-C video input (without asking) when the USB-C cable is connected. • **No:** Never automatically switches to USB-C video input when the USB-C cable is connected. Presses the joystick button to confirm the selection. **NOTE: Auto Select for USB-C is available only when Auto Select is on.**
	Reset Input Source	Resets all settings under the **Input Source** menu to factory defaults.

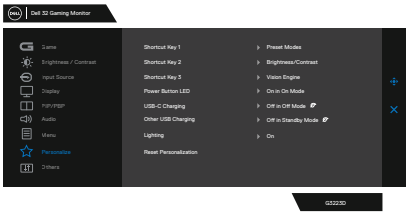
Icon	Menu and submenus	Description
	Display	Uses the display to adjust image. 
	Aspect Ratio	Adjusts the image ratio to 16:9, Auto Resize, 4:3.
	Input Color Format	Enables you to set the video input mode to: • **RGB:** Selects this option if your monitor is connected to a computer (or media player) using the DisplayPort or HDMI cable. • **YCbCr:** Selects this option if your media player supports only YCbCr output. 
	Sharpness	Makes the image look sharper or softer. Moves the joystick button up and down to adjust the sharpness from '0' to '100'.
	USB-C Prioritization	Enables you to specify the priority to transfer the data with high resolution (High Resolution) or high speed (High Data Speed) when using the USB-C port. For more information, see USB-C Prioritization.
	Uniformity Compensation	Enables you to set **Uniformity Compensation** to **On** or **Off**. **NOTE: Vision Engine must be off for Uniformity Compensation to work.**

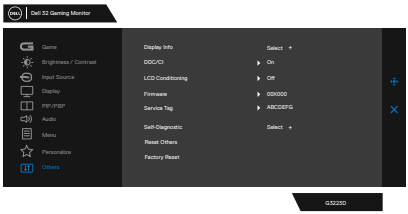
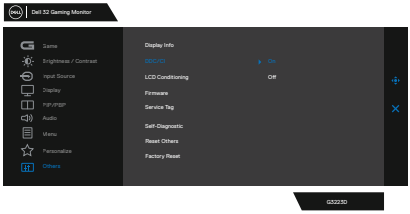
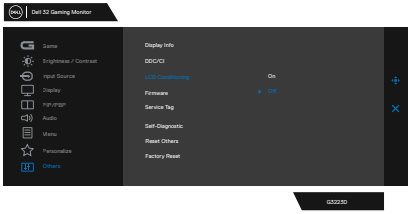
Icon	Menu and submenus	Description
	Smart HDR	Moves the joystick button to switch the **Smart HDR** feature between **Desktop, Movie HDR, Game HDR, Display HDR 400,** or **Off**. **Smart HDR** (High Dynamic Range) automatically enhances the display output by adjusting the settings optimally to resemble life-like visuals. • **Desktop:** Desktop is the default mode. This mode is more suitable for general usage of the monitor with a desktop computer. • **Movie HDR:** Uses this mode during playback of HDR video content to expand the contrast ratio, brightness, and color palette. It matches the video quality with real life visuals. • **Game HDR:** Uses this mode when playing games that support HDR to expand the contrast ratio, brightness, and color palette. It makes gaming experience more realistic as intended by game developers. • **DisplayHDR 400:** Best used with content that complies with DisplayHDR 400 standards. • **Off:** Disables **Smart HDR** function. **NOTE: The possible peak luminance during HDR mode is 400-nits (typical). The actual value and duration during HDR playback might vary accordingly to the video content.**
	Reset Display	Selects this option to restore default display settings.

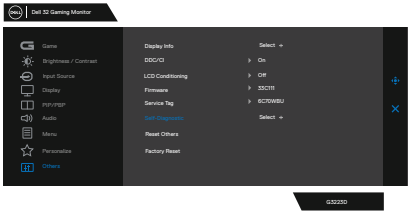
<table>
<tr><th>Icon</th><th>Menu and submenus</th><th>Description</th></tr>
<tr><td rowspan="6"></td><td>PIP/PBP</td><td>Enables you to watch more images at the same time.

</td></tr>
<tr><td>PIP/PBP Mode</td><td>Adjusts the PIP or PBP mode. You can adjust this feature by selecting Off, 50%-50%, 75%-25%, 25%-75%, 67%-33%, 33%-67%, PIP(Small), PIP(Large).
NOTE: FreeSync is turned off when PIP/PBP is enabled.</td></tr>
<tr><td>PIP/PBP (Sub)</td><td>Selects between USB-C 15W, DP, HDMI 1, or HDMI 2 video signals that may be connected to your monitor for the PIP/PBP sub-window.
<table>
<tr><th rowspan="2">Main Window</th><th colspan="4">Sub-Window</th></tr>
<tr><th>USB-C 15W</th><th>DP</th><th>HDMI 1</th><th>HDMI 2</th></tr>
<tr><td>USB-C 15W</td><td>—</td><td>✓</td><td>✓</td><td>✓</td></tr>
<tr><td>DP</td><td>✓</td><td>—</td><td>✓</td><td>✓</td></tr>
<tr><td>HDMI 1</td><td>✓</td><td>✓</td><td>—</td><td>✓</td></tr>
<tr><td>HDMI 2</td><td>✓</td><td>✓</td><td>✓</td><td>—</td></tr>
</table></td></tr>
<tr><td>Audio</td><td>Enables you to set the Audio Main or Sub.</td></tr>
<tr><td>Video Swap</td><td>Selects to swap videos between main window and sub-window in PIP/PBP mode.</td></tr>
<tr><td>Contrast (Sub)</td><td>Adjust the contrast level of the picture in PIP/PBP mode.
NOTE: Only applicable when you turn on PIP/PBP.</td></tr>
</table>

Icon	Menu and submenus	Description
	Audio	
	Volume	Enables you to set the volume level of headphone output. Uses the joystick button to adjust the volume level from 0 to 100.
	Reset Audio	Resets all settings under the Audio menu to the factory defaults.
	Menu	Selects this option to adjust the settings of the OSD, such as the languages, the amount of time, the menu remains on screen, and so on. 
	Language	Sets the OSD display to one of the following eight languages: **English, Spanish, French, German, Brazilian Portuguese, Russian, Simplified Chinese,** or **Japanese**.
	Transparency	Selects this option to change the menu transparency by moving the joystick button up or down (minimum 0; maximum 100).
	Timer	OSD Hold Time: Sets the length of time, and then the OSD remains active after you press a button. Moves the joystick button to adjust the slider in 1 second increments, from 5 to 60 seconds.
	Reset Menu	Resets all settings under the **Reset Menu** to factory defaults.

Icon	Menu and submenus	Description
☆	**Personalize**	Selects this option to adjust the settings of the personalization. 
	Shortcut Key 1 **Shortcut Key 2** **Shortcut Key 3**	Selects from **Preset Modes, Game Enhance Mode, AMD FreeSync Premium Pro, Dark Stabilizer, Vision Engine, Brightness/Contrast, Input Source, Aspect Ratio, Smart HDR, PIP/PBP Mode, Video Swap,** or **Volume** as shortcut key.
	Power Button LED	Enables you to set the state of the power light to save energy.
	USB-C Charging	The default setting is **Off in Off Mode** . Selecting **On in Off Mode** may automatically charge your laptop or mobile devices through the USB-C cable even when the monitor is in off mode.
	Other USB Charging	Enables you to enable or disable USB Type-A (Downstream Ports) charging function during monitor standby mode.
	Lighting	Allows you to turn **On** or **Off** the light on the display back-cover.
	Reset Personalization	Resets all settings under the **Personalize** menu to the factory preset values.

Icon	Menu and submenus	Description
	Others	Changes the OSD settings, such as the **DDC/CI**, **LCD conditioning**, and so on. 
	Display Info	Displays the current settings of the monitor.
	DDC/CI	Enables your monitor parameters such as brightness, color balance, and so on to be adjustable through the software on your computer. You can disable this feature by selecting **Off**. Enables this feature for best user experience and optimum performance of your monitor. 
	LCD Conditioning	Helps reduce minor cases of image retention. Depending on the degree of image retention, the program may take some time to run. You can enable this feature by selecting **On**. 
	Firmware	Displays the version of the firmware about the display.

Icon	Menu and submenus	Description
	Service Tag	Displays the service tag number of the display. The Service Tag is a unique alpha numeric identifier that enables Dell to identify the product specifications and access warranty information. **NOTE: The Service Tag is also printed on a label at the back of the cover.**
	Self-Diagnostic	Enables you to check if your monitor is functioning properly. 
	Reset Others	Resets all settings under the others setting menu to the factory preset values.
	Factory Reset	Restores all preset values to the factory default settings.

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

Console Mode

Console Mode is specifically designed with the excellent picture quality at a fast response time and a high frame rate of 120 Hz to give the best console game experience. It can support up to 4K resolution in this QHD monitor.

Support timing

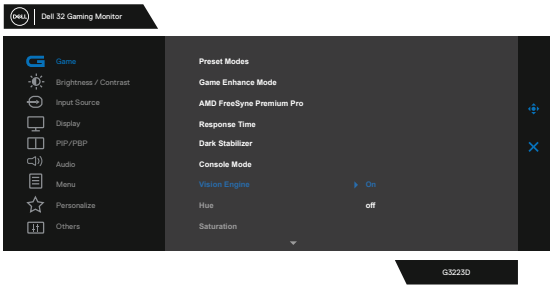
Display mode	Horizontal frequency (kHz)	Vertical frequency (Hz)	Pixel clock (MHz)	Sync polarity (Horizontal / Vertical)
IBM, 720 x 400	31.47	70.08	28.32	-/+
VESA, 640 x 480	37.5	75	31.5	-/-
VESA, 640 x 480	31.47	59.94	25.18	-/-
VESA, 800 x 600	37.88	60.32	40	+/+
VESA, 800 x 600	46.88	75	49.5	+/+
VESA, 1024 x 768	48.36	60	65	-/-
VESA, 1024 x 768	60.02	75.03	78.75	+/+
VESA, 1152 x 864	67.5	75	108	+/+
VESA, 1280 x 800	49.31	59.91	71	+/+
VESA, 1280 x 1024	63.98	60.02	108	+/+
VESA, 1280 x 1024	79.98	75.02	135	+/+
VESA, 1680 x 1050	65.29	59.95	146.25	-/+
VESA, 1920 x 1080	67.5	60	148.5	+/+
VESA, 1920 x 1080	137.26	120	285.5	+/+
VESA, 2560 x 1440	183	120	497.75	+/-
VESA, 2560 x 1440	88.79	59.95	241.5	+/-
CTA, 3840 x 2160	112.5	50	594	Progressive
CTA, 3840 x 2160	135	60	594	Progressive

Vision Engine

Vision Engine has special vision engine design that can enhance visual elements in different gaming scenes, including five visions: **Night vision, Clear vision, Bino vision, Chroma vision, or Crosshair** engines for you to select. Trigger using the OSD or Dell Display Manager to set them up, and trigger from the Shortcut key.

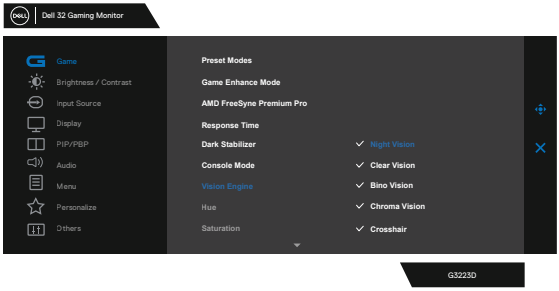
Use the OSD menu and Shortcut key to launch Vision Engine:

1. Press the Joystick button to launch the OSD Main Menu.
2. Move the Joystick button to select **Game > Vision Engine** to initiate it.
3. Select **On** or **Off** to decide whether to enable the functions in **Vision Engine** mode.

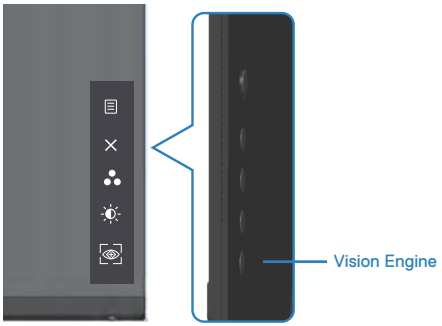


The following message appears when you select "**On**", and you can preview the effect of each vision by moving Joystick button.

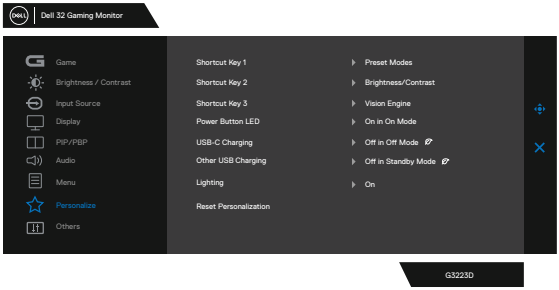
NOTE: Press Joystick button to check/uncheck the vision engines. By default, all vision engines are checked. You can check the vision engines according to your preference.



4. Use the **Shortcut Key** of **Vision Engine** to toggle different vision engines.

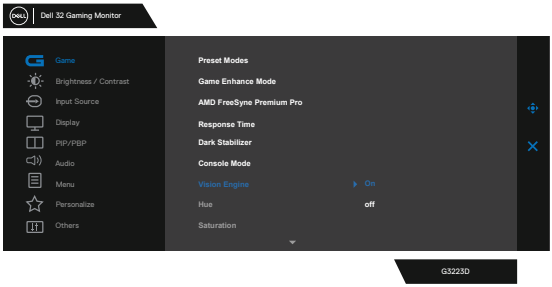


NOTE: Adjust the preset Shortcut keys in Personalize settings.



Use the Dell Display Manager and Shortcut key to launch Vision Engine:

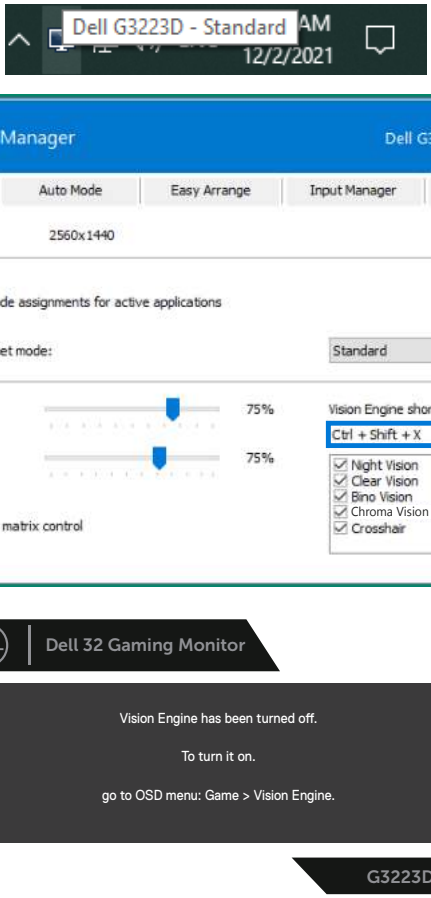
1. Press the Joystick button to launch the OSD Main Menu.
2. Move the Joystick button to select **Game > Vision Engine** to initiate it.
3. Select **On** to enable the functions in **Vision Engine** mode.



4. Alternatively, **Vision Engine** settings can be set in Dell Display Manager **(Dell Display Manager installed for better gaming experiences).** For more information, see Dell Display Manager installation section on **https://www.dell.com/G3223D**.

The Vision Engine Shortcut Key enables you to configure and use a key combination on the keyboard to toggle through the Vision Engines.

Each Vision Engine can be selected by selecting or clearing the check boxes. The OSD is synchronized to these settings.



NOTE: Shortcut Key can be used only after Vision Engine is turned to "On".

USB-C Prioritization

Enables you to specify the priority to transfer the data with high resolution (High Resolution 4 Lanes) or high speed (High Data Speed 2 Lanes) when using the USB-C port.

NOTES:

1. Default setting High Resolution 4 Lanes (HBR3) can support up to 2560 x 1440 at 165 Hz, Color bits 10 bits, HDR; USB performance will be reduced to USB 2.0.

2. While manually switch to High Data Speed 2 Lanes (HBR3), you can select preferred timings. The following table is a detailed description.

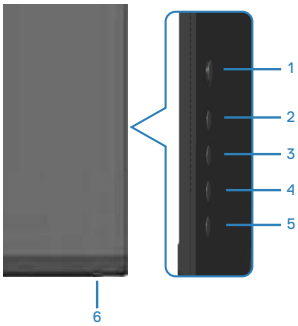
I/O Port		**USB-C**	**USB-C**	**USB-C**
Bandwidth		**12.96 G/bits**	**8.64 G/bits**	**4.32 G/bits**
Resolution	Color bits	2 Lanes (HBR3)	2 Lanes (HBR2)	2 Lanes (HBR)
2560 x 1440 at 165 Hz	24	X	X	X
2560 x 1440 at 165 Hz	30	X	X	X
2560 x 1440 at 144 Hz	24	X	X	X
2560 x 1440 at 144 Hz	30	X	X	X
2560 x 1440 at 120 Hz	24	√	X	X
2560 x 1440 at 120 Hz	30	X	X	X
1920 x 1080 at 165 Hz	24	√	X	X
1920 x 1080 at 165 Hz	30	√	X	X
1920 x 1080 at 144 Hz	24	√	√	X
1920 x 1080 at 144 Hz	30	√	X	X
1920 x 1080 at 120 Hz	24	√	√	X
1920 x 1080 at 120 Hz	30	√	√	X

NOTE: The "√" indicates support, and the "X" indicates not support.

Menu and Power button lock

Prevents you to access or change OSD menu settings on the display.

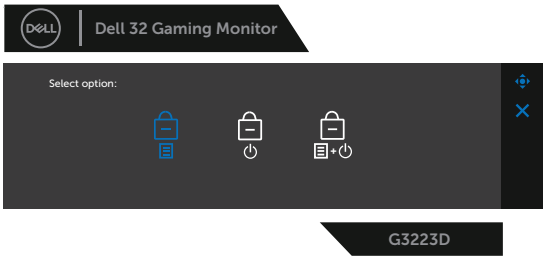
By default, the Menu and Power button lock setting is disabled.



NOTE: To access the Lock or Unlock menu – Press and hold the button 5 for four seconds.

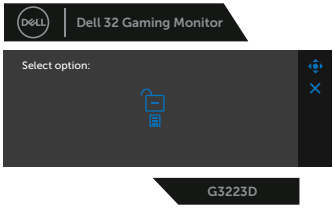
To access the lock menu, press and hold the button 5 for four seconds. A lock menu appears at the bottom-right corner of the display.

NOTE: The lock menu can be accessed using this method when the Menu and Power buttons are in unlocked state.



To access the unlock menu, press and hold the button 5 for four seconds. An unlock menu appears at the bottom-right corner of the display.

NOTE: The unlock menu can be accessed when the Menu and Power buttons are in locked state.



There are three lock options.

	Menu	Description
1	Menu Buttons 	When **Menu Buttons** is selected, the OSD menu settings cannot be changed. All buttons are locked except Power button.
2	Power Button 	When **Power Button** is selected, the display cannot be turned off using the Power button.
3	Menu + Power Buttons 	When **Menu + Power Buttons** is selected, the OSD menu settings cannot be changed and the Power button is locked.

The  icon appears at the center of the display in the following scenarios:

- When the joystick button and control buttons (button 1 - 5) are pressed. The icon indicates that the OSD menu buttons are in lock state.
- When the Power button (button 6) is pressed. The icon indicates that the Power button is in lock state.
- When any one of the six buttons is pressed. The icon indicates that the OSD menu buttons and the Power button are in lock state.

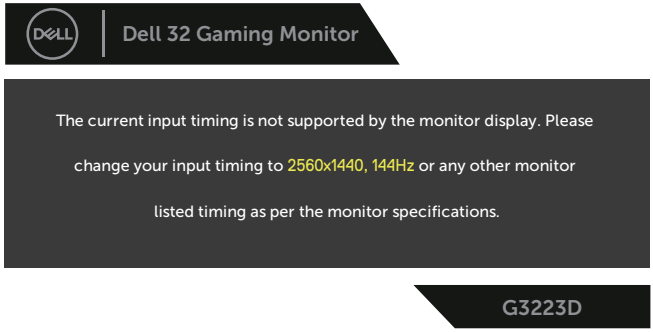
Unlocking the OSD menu and Power buttons:

1. Press and hold the button 5 for four seconds. The unlock menu appears.
2. Select the unlock icon  to unlock the buttons on the display.

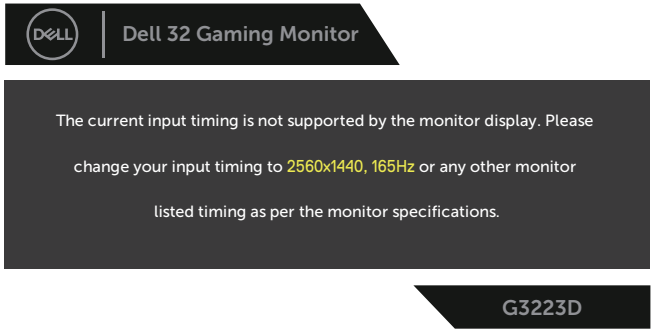
OSD warning messages

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

HDMI

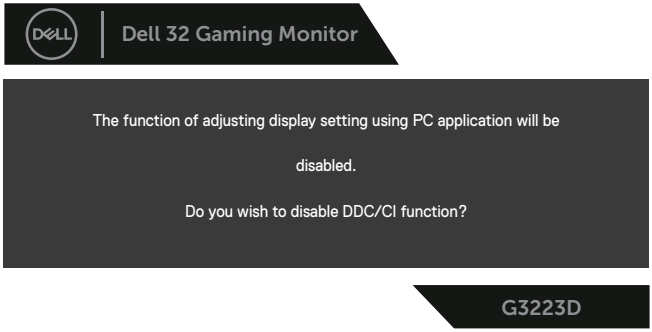


DP/USB-C

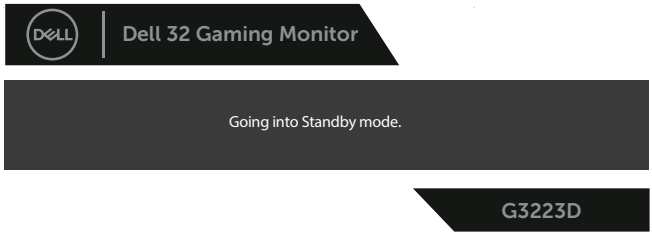


This message indicates that the monitor cannot synchronize with the signal that it is receiving from the computer. See Monitor specifications for the Horizontal and Vertical frequency ranges addressable by this monitor. Recommended mode is 2560 x 1440.

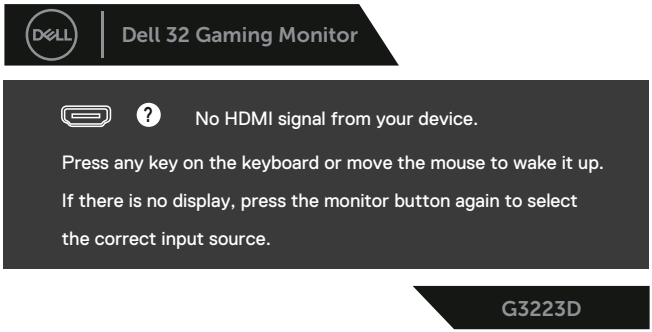
Before the **DDC/CI** function is disabled, the following message is displayed:



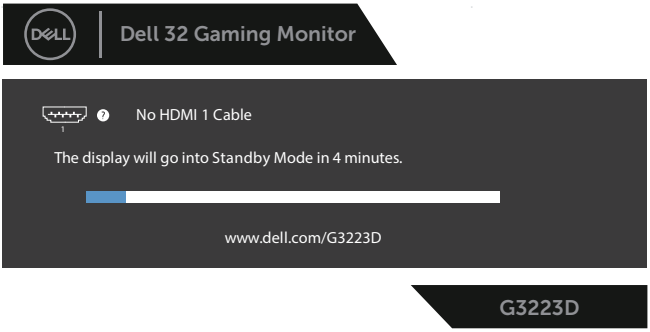
When the monitor enters the **Standby Mode**, the following message appears:



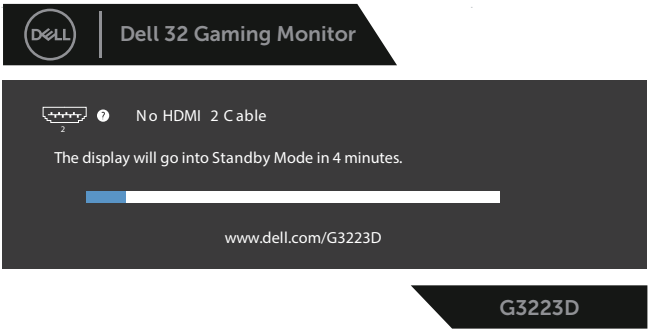
If you press any button other than the power button, the following messages appear depending on the selected input:



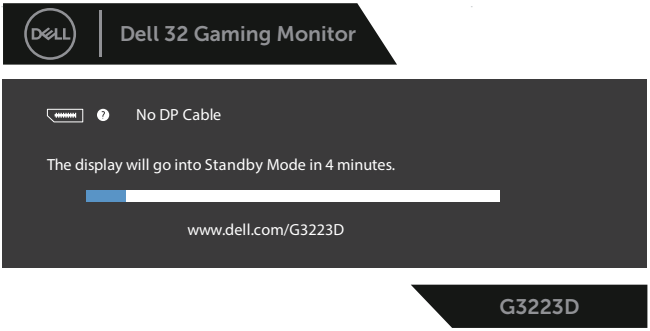
If an HDMI or DisplayPort or USB-C cable is not connected, the following dialog box appears. The monitor enters Standby Mode after four minutes if left at this state.



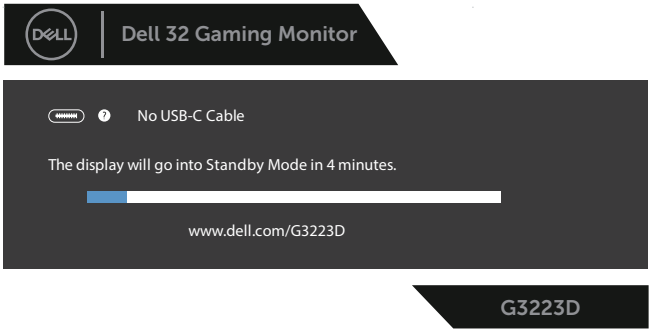
or



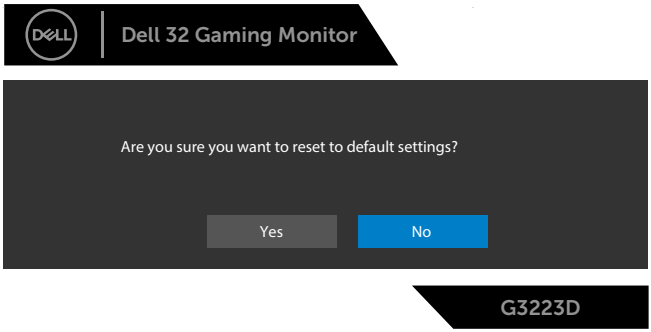
or



or



When you select OSD items of **Factory Reset** in **Other** feature, the following message appears:



For more information, see Troubleshooting.

Setting the maximum resolution

NOTE: The steps may vary slightly depending on the version of Windows you have.

In Windows 8.1:

1. For Windows 8.1, select the Desktop tile to switch to classic desktop.
2. Right-click the desktop and click **Screen Resolution**.
3. If you have more than one monitor connected, ensure that you select **G3223D**.
4. Click the **Screen Resolution** drop-down list and select **2560 x 1440**.
5. Click **OK**.

In Windows 10 and Windows 11:

1. Right-click the desktop and click **Display settings**.
2. If you have more than one monitor connected, ensure to select **G3223D**.
3. Click the **Display Resolution** drop-down list and select **2560 x 1440**.
4. Click **Keep changes**.

If you do not see **2560 x 1440** as an option, you must update your graphics driver to the latest version. Depending on your computer, complete one of the following procedures:

If you have a Dell desktop or laptop, go to **https://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 (laptop 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.

Troubleshooting

⚠ **WARNING: Before you begin working on the following steps, follow the Safety instructions.**

Self-Test

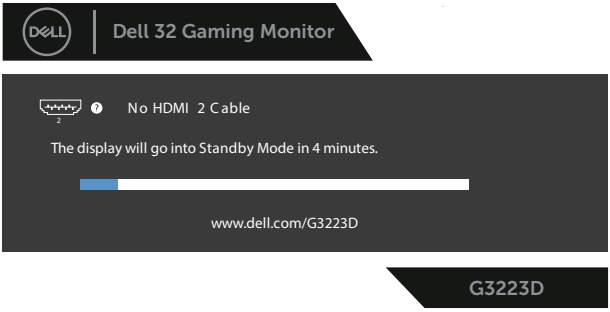
Your monitor provides a self-test feature that enables you to check if your monitor is functioning properly. If your monitor and computer are properly connected but the monitor screen remains dark, run the monitor self-test by performing the following steps:

1. Turn off both your computer and the monitor.
2. Disconnect all video cables from the monitor. This way, the computer does not 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 messages appear. While in self-test mode, the power LED remains white.



or



or



NOTE: This dialog box appears even during normal operation and when the video cable is disconnected or damaged.

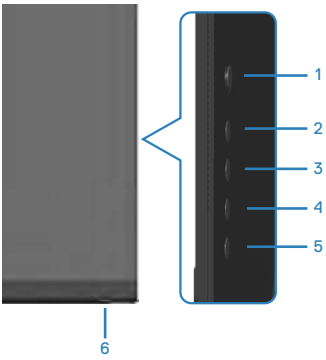
4. Turn off your monitor and reconnect the video cable; Turn on your computer and the monitor.

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

Built-in diagnostics

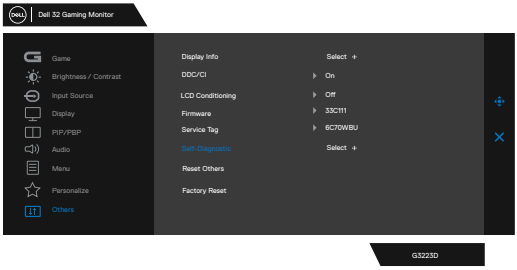
Your monitor has a built-in diagnostic tool. It helps you determine if the screen abnormality that you are experiencing is an inherent problem with your monitor, or with your computer and video card.

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



To run the built-in diagnostics:

1. Ensure that the screen is clean and there are no dust particles on the surface of the screen.
2. Press the Joystick button to launch the OSD Main Menu.
3. Move the joystick button to select **Others > Self-Diagnostic** to initiate the self-diagnostic process.



4. When initiated, a gray screen appears. Inspect the screen for abnormalities.
5. Switch the joystick button. The color of the screen changes to red. Inspect the screen for abnormalities.

6. Repeat step 5 and inspect the screen when it displays the colors green, blue, black, and white followed by the on-screen text.
7. The test is complete when the text screen appears. To exit, toggle the joystick button again.

If you do not detect any screen abnormalities upon using the Built-in diagnostics-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 or power LED off	• 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 through the Input Source menu.
No video or Power LED on	• 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 through the Input Source menu.
Poor focus	• Eliminate video extension cables. • Reset the monitor to factory settings (**Factory Reset**). • Change the video resolution to the correct aspect ratio.
Shaky or jittery video	• Reset the monitor to factory settings (**Factory Reset**). • Check environmental factors. • Relocate the monitor and test in another room.
Missing pixels	• Cycle power On-Off. • Pixel that is permanently Off is a natural defect that can occur in LCD technology. • For more information about Dell Monitor Quality and Pixel Policy, see Dell Support site at: **www.dell.com/pixelguidelines**.

Common symptoms	Possible solutions
Stuck-on pixels	• Cycle power On-Off. • Pixel that is permanently off is a natural defect that can occur in LCD technology. • For more information about Dell Monitor Quality and Pixel Policy, see Dell Support site at: **www.dell.com/pixelguidelines**.
Brightness problems	• Reset the monitor to factory settings (**Factory Reset**). • Adjust brightness and contrast controls through OSD.
Geometric distortion	• Reset the monitor to factory settings (**Factory Reset**). • Adjust horizontal and vertical controls through OSD.
Horizontal or vertical lines	• 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	• 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	• Do not perform any troubleshooting steps. • Contact Dell immediately.
Intermittent problems	• 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.

Common symptoms	Possible solutions
Missing color	• Perform monitor self-test feature check. • Ensure that the video cable connecting the monitor to the computer is connected properly and is secure. • Check for bent or broken pins in the video cable connector.
Wrong color	• 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 **YCbCr** in the **Color settings** OSD. • Run the built-in diagnostics.
Image retention from a static image left on the monitor for a long period	• Set the screen to turn off after a few minutes of screen idle time. It can be adjusted in Windows Power Options or Mac Energy Saver setting. • Alternatively, use a dynamically changing screensaver.
Video ghosting or overshooting	• 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	• 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	• Turn off the monitor, unplug the monitor power cable, plug it back, and then turn on the monitor. • Check if the OSD menu is locked. If yes, press and hold the button 5 for four seconds to unlock.
No input signal when user controls are pressed	• Ensure that the computer is not in the power-saving 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	• Due to different video formats (aspect ratio) of DVDs, the monitor may display in full screen. • Run the built-in diagnostics.

Regulatory information

FCC notices (U.S. Only) and other regulatory information

For FCC notices and other regulatory information, see the regulatory compliance website at **www.dell.com/regulatory_compliance**.

EU product database for energy label and product information sheet

G3223D: **https://eprel.ec.europa.eu/qr/1035291**

Contacting Dell

To contact Dell for sales, technical support, or customer service issues, see **www.dell.com/contactdell.**

NOTE: Availability varies by country or region and product, and some services may not be available in your country or region.

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.