Dell S2421HN/S2721HN/S2421NX/ S2721NX Monitor

User's Guide

Model: S2421HN/S2721HN/S2421NX/S2721NX
Regulatory model: S2421Ht/S2721Ht

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

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

△ **CAUTION: 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.**

- Place the monitor on a solid surface and handle it carefully. The screen is fragile and can be damaged if dropped or hit sharply.
- Always be sure 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.
- 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 of time.
- To avoid electric shock, do not attempt to remove any cover or touch the inside of the monitor.

For information on safety instructions, see the Safety, Environmental, and Regulatory Information (SERI).

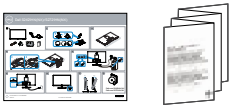
About your monitor

Package contents

Your monitor ships with the components shown below. Ensure that you have received all the components and see Contacting Dell if anything is missing.

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

	Display
S2421/S2721 HN S2421/S2721 NX	Stand riser
S2421/S2721 HN S2421/S2721 NX	Stand base
S2421/S2721 HN S2421/S2721 NX	VESA cover
	Power cable (varies by country)

	HDMI cable
	• Quick Setup Guide • Safety, Environmental, and Regulatory Information

Product features

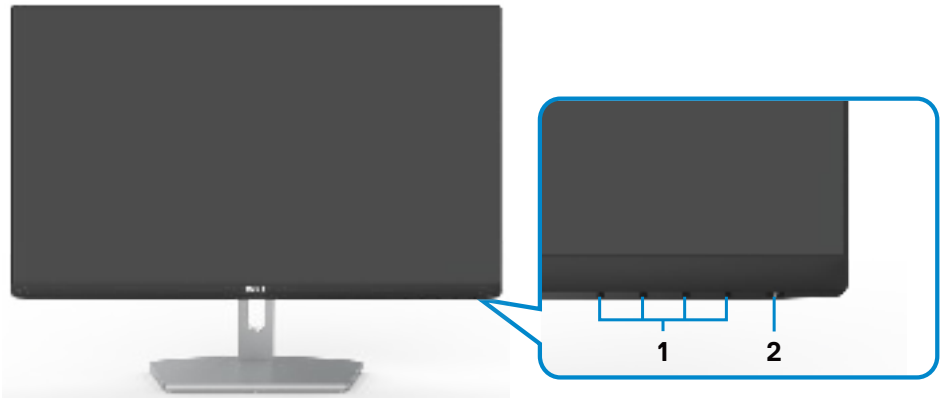
The **Dell S2421HN/S2421NX/S2721HN/S2721NX** monitor has an active matrix, Thin Film Transistor (TFT), Liquid Crystal Display (LCD), and LED backlight. The monitor features include:

- **S2421HN/S2421NX:** 60.45 cm (23.8 in.) active area display (Measured diagonally) 1920 x 1080 (16:9) resolution, plus full-screen support for lower resolutions.
- **S2721HN/S2721NX:** 68.6 cm (27 in.) active area display (Measured diagonally) 1920 x 1080 (16:9) resolution, plus full-screen support for lower resolutions.
- Tilt adjustment capability.
- Removable pedestal and Video Electronics Standards Association (VESA™) 100 mm mounting holes for flexible mounting solutions.
- Ultra-thin bezel minimizes the bezel gap in multi-monitor usage, enabling easier set up with an elegant viewing experience.
- Extensive digital connectivity with HDMI helps future-proof your monitor.
- Plug and play capability if supported by your system.
- On-Screen Display (OSD) adjustments for ease of set-up and screen optimization.
- Supports AMD FreeSync™ technology. AMD Freesync™ certified range from 48HZ -75HZ.
- Power and OSD buttons lock.
- Security lock slot.
- 0.3 W standby power when in the standby mode.
- Optimize eye comfort with a flicker-free screen.

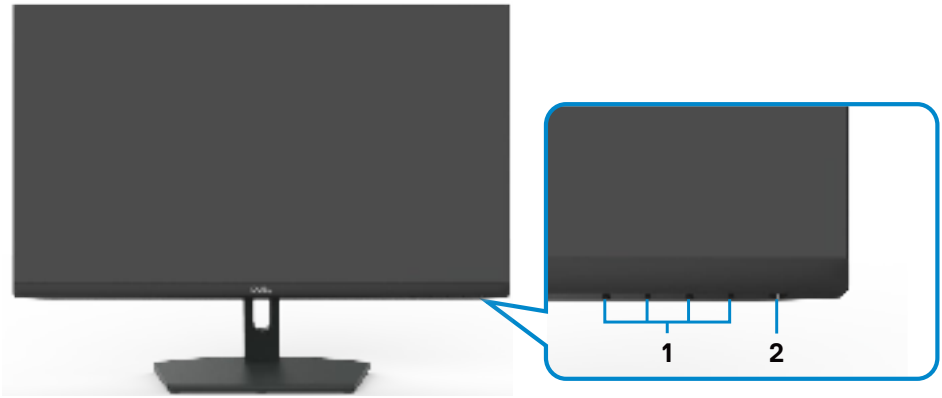
⚠ **WARNING: The possible long-term effects of blue light emission from the monitor may cause damage to the eyes, including eye fatigue or digital eye strain. ComfortView feature is designed to reduce the amount of blue light emitted from the monitor to optimize eye comfort.**

Identifying parts and controls

Front view



S2421HN/S2721HN



S2421NX/S2721NX

Label	Description	Use
1	Function buttons	For more information, see Operating the monitor
2	Power on/off button (with LED indicator)	To turn the monitor on or off.

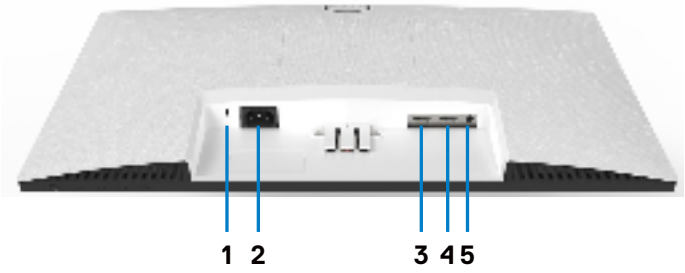
Back view

S2421HN/S2721HN

S2421NX/S2721NX

Label	Description	Use
1	VESA mounting holes (100 mm x 100 mm-behind attached VESA cover)	Wall mount monitor using VESA-compatible wall mount kit (100 mm x 100 mm).
2	Regulatory label	Lists the regulatory approvals.
3	Stand release button	Release stand from monitor.
4	Barcode, serial number, and Service Tag label	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 display and access warranty information.
5	Cable management slot	Use to organize cables by placing them through the slot.

Bottom view



S2421HN/S2721HN

S2421NX/S2721NX

Label	Description	Use
1	Security lock slot	Secures monitor with security cable lock (sold separately).
2	Power connector	Connect the power cable (shipped with your monitor).
3	HDMI port 1	Connect your computer with HDMI cable.
4	HDMI port 2	Connect your computer with HDMI cable.
5	Audio Line-out port	Connect speakers to playback audio coming through HDMI audio channel. Only two-channel audio is supported. **NOTE:** The audio line-out port does not support headphones.

Monitor specifications

Model	S2421HN/S2421NX	S2721HN/S2721NX
Screen type	Active matrix - TFT LCD	
Panel Type	In-plane switching Technology	
Aspect ratio	16:9	
Viewable image dimensions		
Diagonal	60.45 cm (23.8 in.)	68.6 cm (27 in.)
Active Area		
Horizontal	527.04 mm (20.75 in.)	597.89 mm (23.54 in.)
Vertical	296.46 mm (11.67 in.)	336.31 mm (13.24 in.)
Area	156246.28 mm^2 (242.15 $in.^2$)	201073.02 mm^2 (311.67 $in.^2$)
Pixel pitch	0.2745 mm x 0.2745 mm	0.3114 mm x 0.3114 mm
Pixel per inch (PPI)	92.56	81.59
Viewing angle		
Horizontal	178° (typical)	
Vertical	178° (typical)	
Brightness	250 cd/m² (typical)	300 cd/m² (typical)
Contrast ratio	1000 to 1 (typical)	
Display screen coating	Anti-glare treatment of the front polarizer (3H) hard coating	
Backlight	LED edgelight system	
Response Time (Gray to Gray)	8 ms (normal) 5 ms (fast) 4 ms (extreme)	
Color depth	16.7 million colors	
Color gamut*	NTSC 72%	
Connectivity	· 2 x HDMI 1.4 · 1 x Audio line-out(3.5 mm jack)	
Border width (edge of monitor to active area)		
Top/Left/Right	5.4 mm	6.0 mm
Bottom	20.7 mm	21.3 mm
Adjustability		
Height adjustable stand	NA	
Tilt	-5° to 21°	

Swivel	NA
Pivot	NA
Cable management	Yes
Dell Display Manager (DDM)Compatibility	Easy Arrange and other key features
Security	Security lock slot (cable lock sold separately)

* At panel native resolution only, under Custom Mode preset.

Resolution specifications

Model	**S2421HN/S2421NX/S2721HN/S2721NX**
Horizontal scan range	30 kHz to 83 kHz
Vertical scan range	48 Hz to 75 Hz
Maximum preset resolution	1920 x 1080 at 60 Hz
Video display capabilities (HDMI playback)	480i, 480p, 576i, 576p, 720p, 1080i, 1080p

Preset display modes

S2421HN/S2421NX/S2721HN/S2721NX

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal/ Vertical)
VGA, 720 x 400	31.5	70.0	28.3	-/+
VGA, 640 x 480	31.5	60.0	25.2	-/-
VESA, 640 x 480	37.5	75.0	31.5	-/-
VESA, 800 x 600	37.9	60.0	40.0	+/+
VESA, 800 x 600	46.9	75.0	49.5	+/+
VESA, 1024 x 768	48.4	60.0	65.0	-/-
VESA, 1024 x 768	60.0	75.0	78.8	+/+
MAC, 1152 x 864	67.5	75.0	108.0	+/+
VESA, 1280 x 1024	64.0	60.0	108.0	+/+
VESA, 1280 x 1024	80.0	75.0	135.0	+/+
VESA, 1600 x 900	60.0	60.0	108.0	+/+
CVT, 1920 x 1080	67.5	60.0	148.5	+/+
CVT, 1920 x 1080	83.89	75.0	174.5	+/-

Electrical specifications

Model	S2421HN/S2421NX/S2721HN/S2721NX
Video input signals	• Digital video signal for each differential line Per differential line at 100 ohm impedance • HDMI signal input support
Input voltage/ frequency/ current	100-240 VAC / 50 or 60 Hz ± 3 Hz / 1.5 A (maximum)
Inrush current	120 V: 30 A (maximum) 240 V: 60 A (maximum)

Physical characteristics

Model	S2421HN/S2421NX	S2721HN/S2721NX
Connector type	• 2 x HDMI1.4 ports • 1 x Audio line-out port	
Signal cable type	1.8 m HDMI1.4 cable	
Dimensions (with stand)		
Height	412.8 mm (16.25 in.)	453.3 mm (17.85 in.)
Width	537.8 mm (21.17 in.)	609.9 mm (24.01 in.)
Depth	152.8 mm (6.02 in.)	186.8 mm (7.35 in.)
Dimensions (without stand)		
Height	322.6 mm (12.70 in.)	363.6 mm (14.32 in.)
Width	537.8 mm (21.17 in.)	609.9 mm (24.01 in.)
Depth	53.8 mm (2.12 in.)	54.0 mm (2.13 in.)
Stand dimensions		
Height	171.6 mm (6.76 in.)	176.0 mm (6.93 in.)
Width	249.0 mm (9.80 in.)	257.2 mm (10.13 in.)
Depth	152.8 mm (6.02 in.)	186.8 mm (7.35 in.)
Weight		
Weight with packaging	5.9 kg (13.00 lb.)	7.6 kg (16.76 lb.)
Weight with stand assembly and cables	4.1 kg (9.04 lb.)	5.2 kg (11.46 lb)
Weight without stand assembly (For wall mount or VESA mount considerations - no cables)	3.3 kg (7.28 lb.)	4.3 kg (9.48 lb.)
Weight of stand assembly	0.5 kg (1.19 lb.)	0.7 kg (1.54 lb.)

Environmental characteristics

Model	**S2421HN/S2421NX/S2721HN/S2721NX**
Compliant Standards	
• ENERGY STAR certified Monitor. • TCO Certified Display. • RoHS Compliant. • BFR/PVC Reduce monitor (excluding external cables). • Arsenic-Free glass and Mercury-Free for the panel only.	
Temperature	
Operating	0°C to 40°C (32°F to 104°F)
Non-operating	–20°C to 60°C (–4°F to 140°F)
Humidity	
Operating	10% to 80% (non-condensing)
Non-operating	5% to 90% (non-condensing)
Altitude	
Operating (maximum)	5,000 m (16,404 ft.)
Non-operating (maximum)	12,192 m (40,000 ft.)
Thermal dissipation	
S2421HN/S2421NX	71.65 BTU/hour (maximum) 54.59 BTU/hour (typical)
S2721HN/S2721NX	98.95 BTU/hour (maximum) 64.83 BTU/hour (typical)

Power management modes

If you have VESA's DPM-compliant video card or software installed in your PC, the monitor can automatically reduce its power consumption when not in use. This is referred to as standby 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.

S2421HN/S2421NX

VESA Modes	Horizontal Sync	Vertical Sync	Video	Power Indicator	Power Consumption
Normal operation	Active	Active	Active	White	21 W (maximum)** 16 W (typical)
Active-off mode	Inactive	Inactive	Off	White (Glowing)	Less than 0.3 W
Switch off	-	-	-	Off	Less than 0.3 W

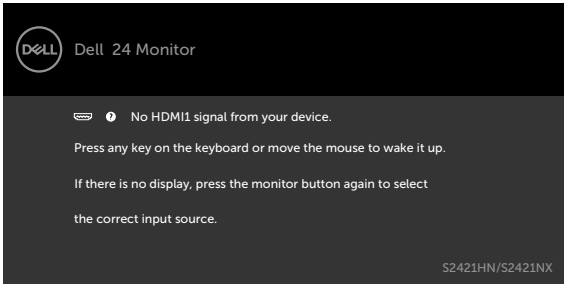
Power Consumption P_{on}	11.74 W
Total Energy Consumption (TEC)	37.3 kWh

S2721HN/S2721NX

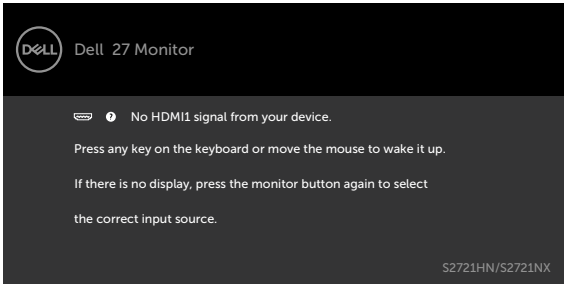
VESA Modes	Horizontal Sync	Vertical Sync	Video	Power Indicator	Power Consumption
Normal operation	Active	Active	Active	White	29 W (maximum)** 19 W (typical)
Active-off mode	Inactive	Inactive	Off	White (Glowing)	Less than 0.3 W
Switch off	-	-	-	Off	Less than 0.3 W

Power Consumption P_{on}	13.82 W
Total Energy Consumption (TEC)	43.68 kWh

The OSD operates only in the normal operation mode. If you press any button in the active-off mode, the following message is displayed:



or



*Zero power consumption in OFF mode can only be achieved by disconnecting the AC mains cable from the monitor.

**Maximum power consumption with maximum luminance.

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

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

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.

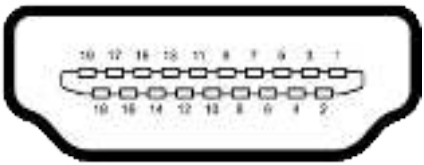
NOTE:

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.

Pin Assignments

HDMI port



Pin number	19-pin side of the connected signal cable
1	TMDS DATA 2+
2	TMDS DATA 2 SHIELD
3	TMDS DATA 2-
4	TMDS DATA 1+
5	TMDS DATA 1 SHIELD
6	TMDS DATA 1-
7	TMDS DATA 0+
8	TMDS DATA 0 SHIELD
9	TMDS DATA 0-
10	TMDS CLOCK+
11	TMDS CLOCK SHIELD
12	TMDS CLOCK-
13	CEC
14	Reserved (N.C. on device)
15	DDC CLOCK (SCL)
16	DDC DATA (SDA)
17	DDC/CEC Ground
18	+5 V POWER
19	HOT PLUG DETECT

Plug-and-play

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 computer can configure itself and optimize the monitor settings. Most monitor installations are automatic; you can select different settings if desired. For more information about changing the monitor settings, see Operating the monitor.

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 LCD Monitor Pixel Policy, see Dell support site at: https://www.dell.com/pixelguidelines.

Ergonomics

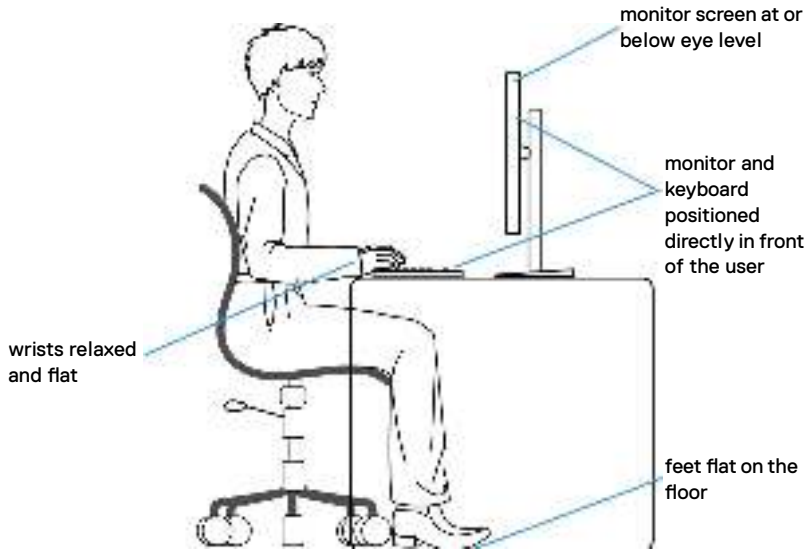
△ **CAUTION: Improper or prolonged usage of keyboard may result in injury.**

△ **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/shoulder pain from using the monitor for long periods of time, we suggest you to:
  1. Set the distance of the screen between 20 to 28 in. (50-70 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 feet 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.
- Make sure 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.

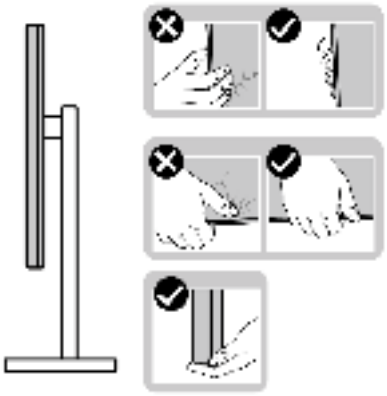
- Adjust the ambient lighting around you (such as overhead lights, desk lamps, and the curtains or blinds on nearby windows) to minimize reflections and glare on the monitor screen.
- Use a chair that provides good lower-back support.
- Keep your forearms horizontal with your wrists in a neutral, comfortable 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, make sure that the weight of your legs is on your feet and not on the front portion of your seat. Adjust your chair's 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 cables or power cords that may interfere with comfortable seating or present a potential trip hazard.



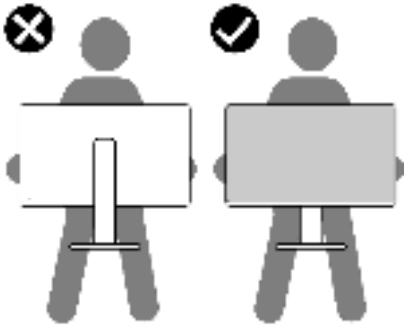
Handling and moving your display

To ensure the monitor is handled safely when lifting or moving it, follow the guidelines mentioned below:

- 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.

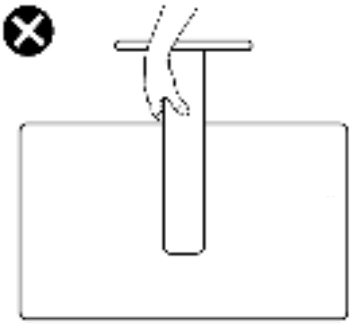


- When lifting or moving the monitor, ensure the screen is facing away from you and do not press on the display area to avoid any scratches or damage.



- 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. This may result in accidental damage to the monitor or cause personal injury.



Maintenance guidelines

Cleaning your monitor

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

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

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

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

Setting up the monitor

Connecting the stand

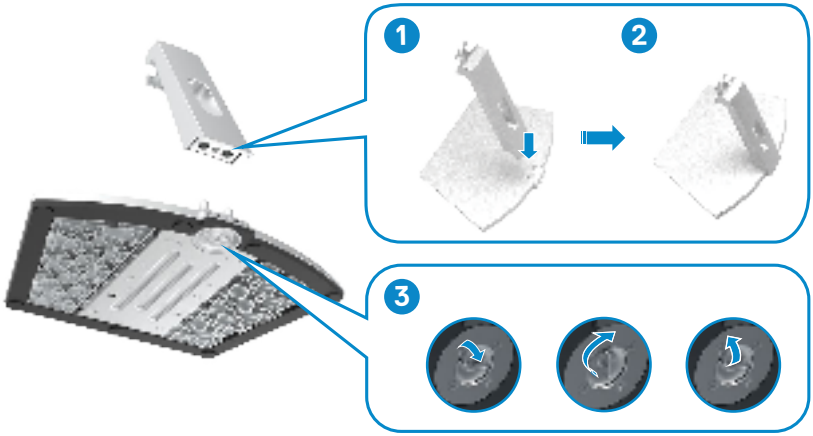
NOTE: The stand riser and stand base are detached when the monitor is shipped from the factory.

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

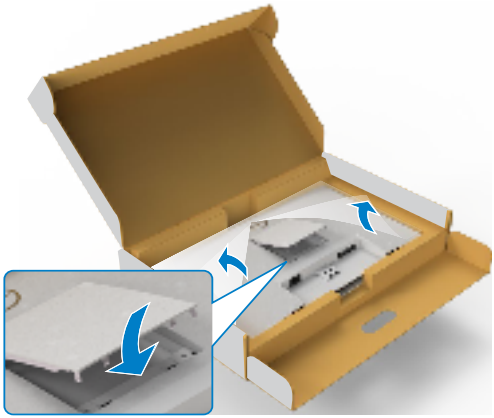
CAUTION: Place monitor of a flat, clean, and soft surface to avoid scratching the display panel.

To attach the monitor stand:

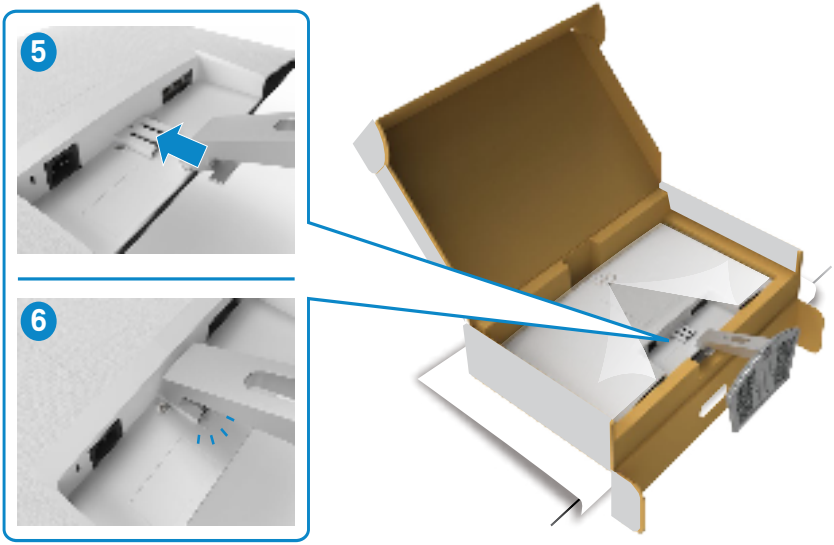
1. Align the tabs on the stand base with the slots on the stand riser.
2. Insert the stand riser on the stand base firmly.
3. Open the screw handle at the bottom of the stand base, and rotate it clockwise to tighten the screw firmly. Then close the screw handle.



4. Open the monitor protective cover and install the VESA screw cover.

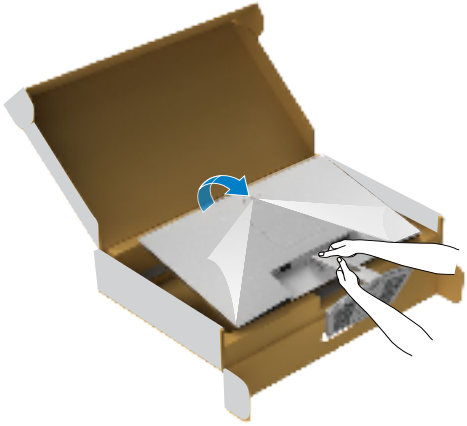


5. Align the tabs on the stand-riser bracket with the grooves at the back of the monitor.
6. Insert the stand-riser bracket into monitor groove until it snaps into place.

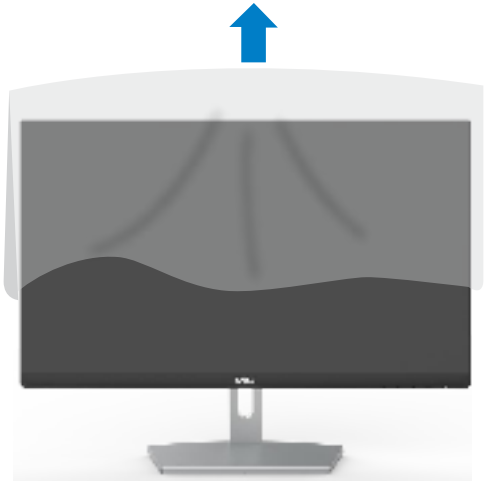


CAUTION: Hold the stand riser firmly when lifting the monitor to avoid any accidental damage.

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



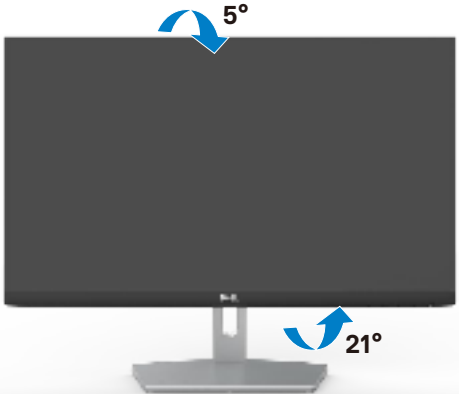
8. Lift the protective cover from the monitor.



Using the tilt

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

With the stand 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.

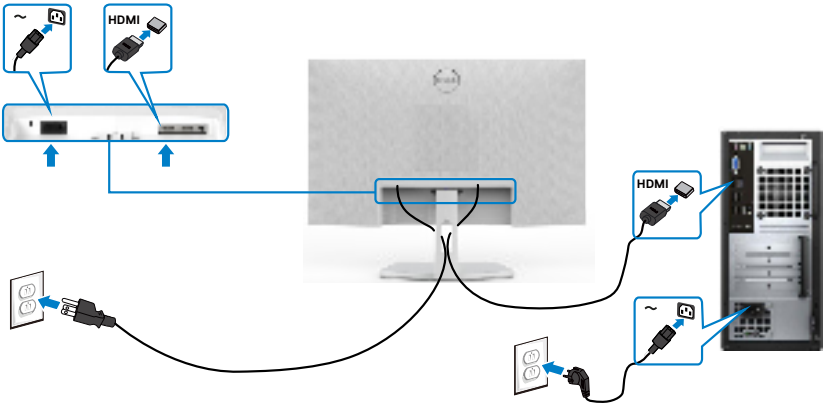
Connecting your monitor

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

To connect your monitor to the computer:

1. Turn off your computer.
2. Connect the HDMI cable from your monitor to the computer.
3. Turn on your monitor.
4. Select the correct input source from the OSD Menu on your monitor and then turn on your computer.

Connecting the HDMI cable



Organizing your cables

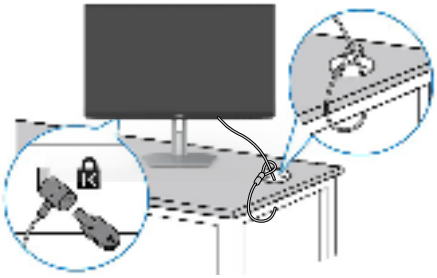
After connecting all necessary cables to your monitor and computer, (see Connecting your monitor for cable attachment) organize all cables as shown above.

Securing your monitor using Kensington lock (optional)

The security lock slot is located at the bottom of the monitor. (See Security lock slot)

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

Secure your monitor to a table using the Kensington security lock.



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

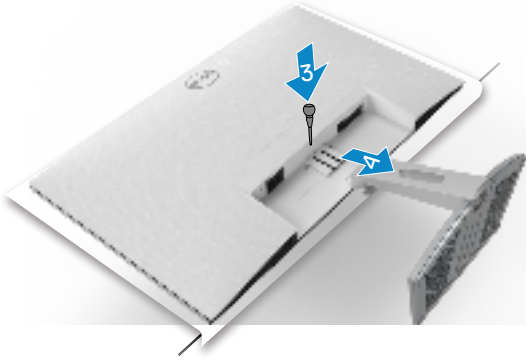
Removing the monitor stand

△ CAUTION: To prevent scratches on the LCD screen while removing the stand, make sure that the monitor is placed on a soft, clean surface.

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

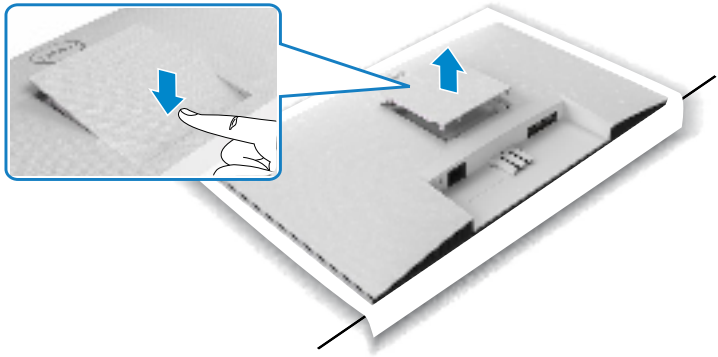
To remove the stand:

1. Place a flat cushion or a sitting mat near the edge of a table and place the monitor on it with the display facing down.
2. Press the stand down to access to the release latch.
3. Use a long screwdriver to press the release latch.
4. While pressing the release latch, slide out the stand assembly from the monitor.



To remove the VESA cover:

Press the dimple on the VESA cover to release it from the back of the display.



Wall mounting (Optional)

NOTE: Use M4 x 10 mm screws to secure the wall-mounting kit to the monitor.

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

1. Place a flat cushion or a sitting mat near the edge of a table and place the monitor on it with the display facing down.
2. Remove the stand.
3. Using a Phillips crosshead screwdriver, remove the four screws that secure the back panel.
4. Connect the mounting bracket from the wall mounting kit to the monitor.
5. Follow the instructions that shipped with the wall-mounting kit and mount the monitor on the wall.

NOTE: For use only with UL or CSA or GS-listed wall mount bracket with minimum weight/load bearing capacity of 13.2 kg (S2421HN/ S2421NX)/17.2 kg (S2721HN/S2721NX).

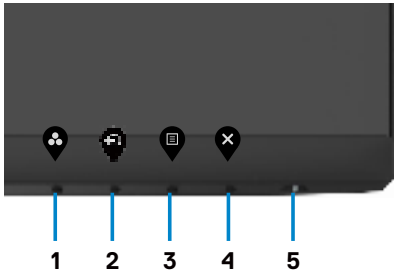
Operating the monitor

Power on the monitor

Press the button to turn on the monitor.

Using the front panel controls

Use the control buttons at the bottom edge of the monitor to adjust the specifications of the image being displayed. When using the control buttons, an On-Screen Display (OSD) menu appears on the screen with numeric values.



The following table describes the front panel buttons:

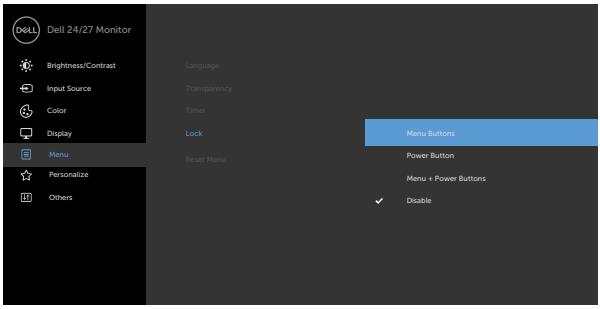
Front-Panel Button		Description
1	**Shortcut key: Preset Modes**	Use this button to choose from a list of preset color modes.
2	**Shortcut key: Input Source**	Use this button to choose from a list of input sources.
3	**Menu**	Use this menu button to launch the on-screen display (OSD) and select the OSD menu. See Accessing the menu system.
4	**Exit**	Use this button to go back to the main menu or exit the OSD main menu.
5	**Power(with power light indicator)**	Use the **Power** button to turn the monitor On and Off. The white LED indicates the monitor is On and fully functional. A breathing white LED indicates DPMS Standby Mode.

Using the OSD lock function

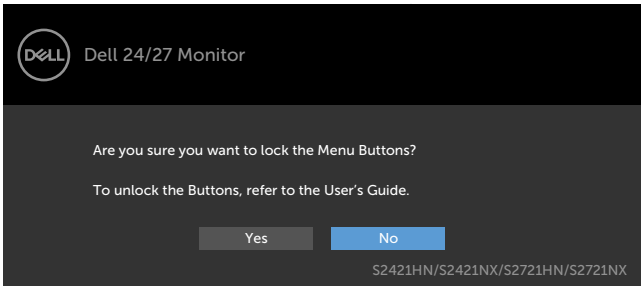
You can lock the front-panel control buttons to prevent access to the OSD menu and/or power button.

Use the Lock menu to lock the button(s).

1. Select one of the following options.

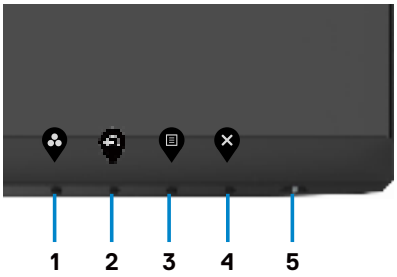


2. The following message appears.

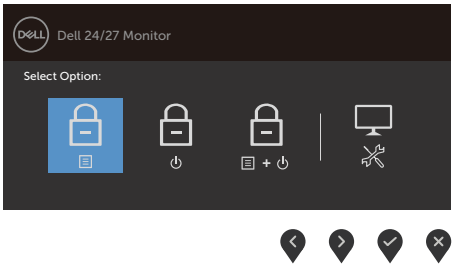


3. Select **Yes** to lock the buttons. Once locked, pressing any control button will display the lock icon

Use the front-panel control button to lock the button(s).



1. Press and hold **Button 4** for four seconds, a menu appears on the screen.

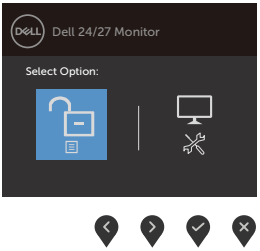


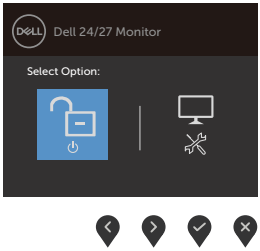
2. Select one of the following options:

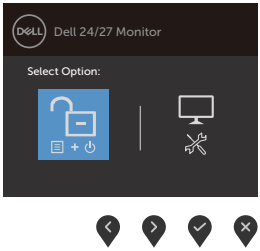
Options	Description
1 **Menu Button lock**	Select this option to lock OSD menu function.
2 **Power Button lock**	Use this option to lock power button. This will prevent the user to turn off the monitor using the power button.
3 **Menu and Power Button lock**	Use this option to lock OSD menu and power button to turn off the monitor.
4 **Built-in Diagnostics**	Use this option to run the built-in diagnostics, see Built-in Diagnostics.

To unlock the button(s).

Press and hold **Button 4** for foru seconds until a menu appears on the screen. The following table describes the options to unlock the front-panel control buttons.



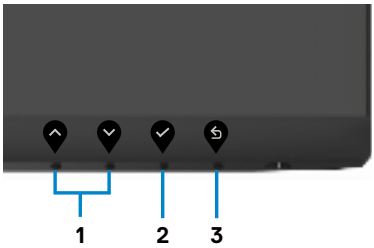




Options	Description
1 **Menu Button unlock**	Use this option to unlock OSD menu function.
2 **Power Button unlock**	Use this option to unlock power button to turn off the monitor.
3 **Menu and Power Button unlock**	Use this option to unlock OSD menu and power button to turn off the monitor.
4 **Built-in Diagnostics**	Use this option to run the built-in diagnostics, see Built-in Diagnostics.

Front-panel button

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



Front Panel Button	Description
1 **Up** **Down**	Use the **Up** (increase) and **Down** (decrease) buttons to adjust items in the OSD menu.
2 **OK**	Use the **OK** button to confirm your selection.

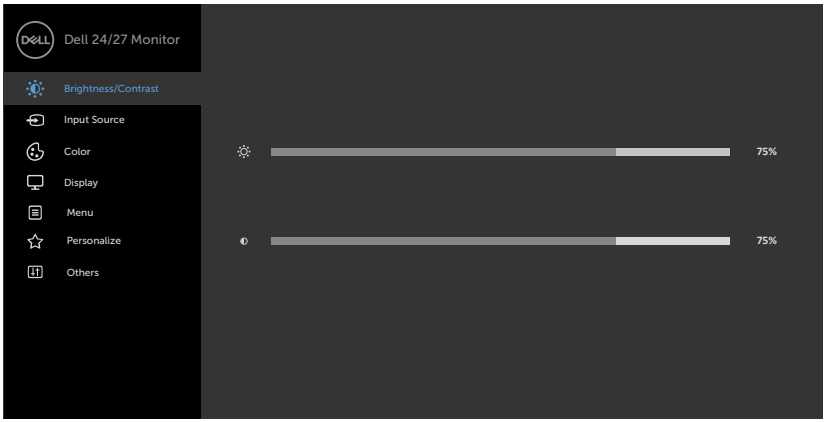
3	**Back**	Use the **Back** button to go back to the previous menu.

Using the On-Screen Display (OSD) menu

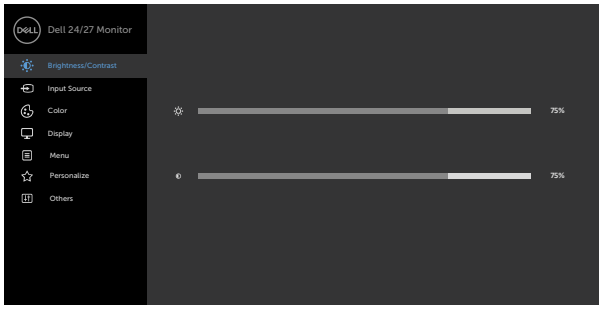
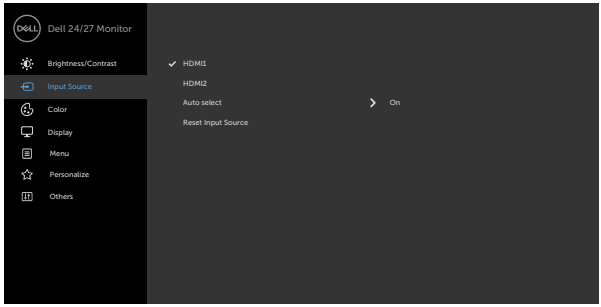
Accessing the menu system

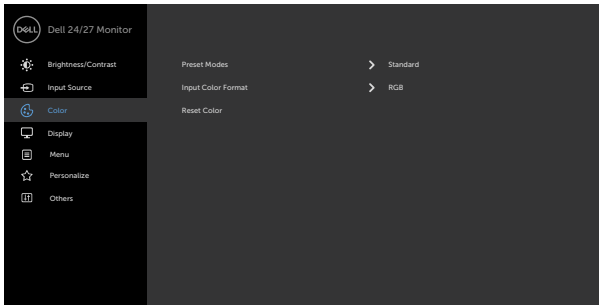
NOTE: The changes you make using the OSD menu are automatically saved when you move to another OSD menu, when you exit the OSD menu, or when the OSD menu to disappears automatically.

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

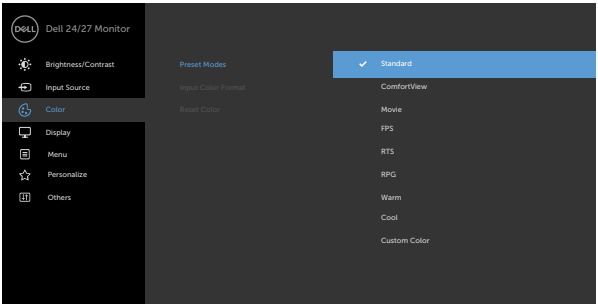


2. Press the and buttons to move between options. As you move from one icon to another, the option name is highlighted.
3. Press the or or button once to activate the highlighted option.
4. Press the and buttons to select the desired parameter.
5. Press to enter the slide bar and then use the or button, according to the indicators on the menu, to make your changes.
6. Select the to return to previous menu or to accept and return to previous menu.

Icon	Menu and Submenus	Description
	Brightness/ Contrast	Use this menu to activate **Brightness/Contrast** adjustment. 
	Brightness	**Brightness** adjusts the luminance of the backlight (minimum 0; maximum 100). Press the button to increase brightness. Press the button to decrease brightness.
	Contrast	Adjust the **Brightness** first, and then adjust **Contrast** only if further adjustment is necessary. Press the button to increase contrast and press the button to decrease contrast (between 0 and 100). Contrast adjusts the difference between darkness and lightness on the monitor.
	Input Source	Use the **Input Source** menu to select between different video inputs that are connected to your monitor. 

Icon	Menu and Submenus	Description
	HDMI 1	Select **HDMI1** input when you are using the HDMI1 connector. Use to select the HDMI input source.
	HDMI 2	Select **HDMI2** input when you are using the HDMI2 connector. Use to select the HDMI input source.
	Auto Select	Use to select **Auto Select,** the monitor scans for available input sources.
	Reset Input Source	Resets your monitor's **Input Source** settings to the factory defaults.
	Color	Use the **Color** menu to adjust the color setting mode. 

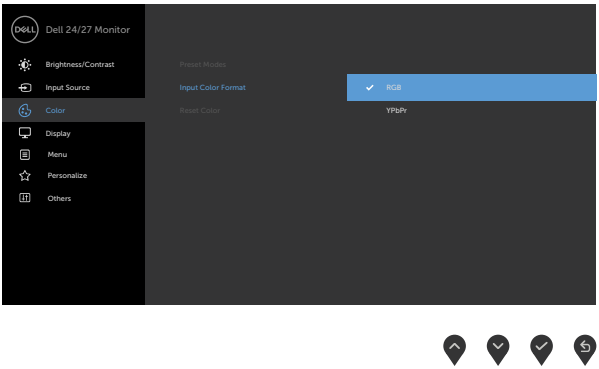
Icon	Menu and Submenus	Description
	Preset Modes	When you select **Preset Modes,** you can choose **Standard, ComfortView, Movie, FPS, RTS, RPG, Warm, Cool or Custom Color** from the list.

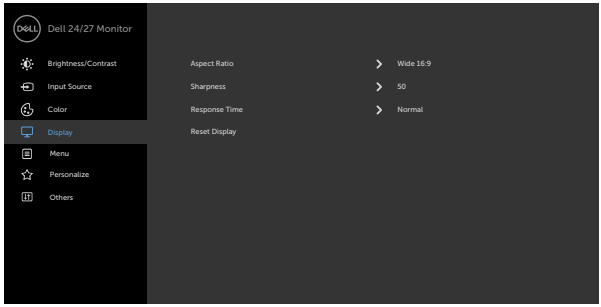


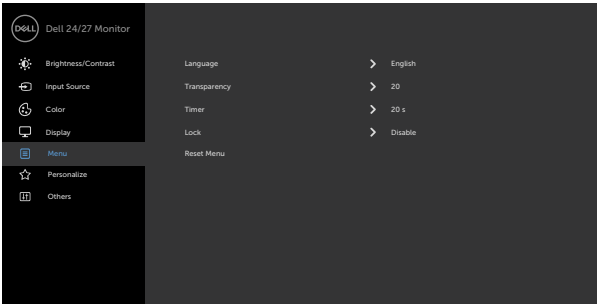
- **Standard:** Default color settings. This is the default preset mode.
- **ComfortView:** Decreases the level of blue light emitted from the screen to make viewing more comfortable for your eyes.

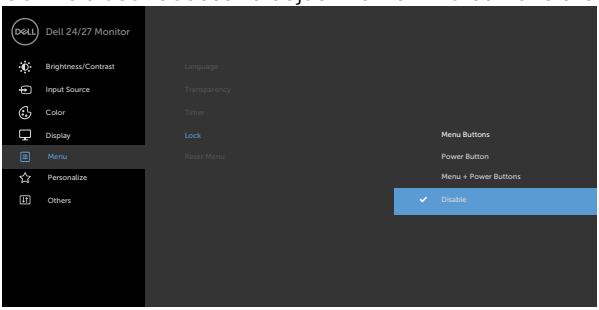
WARNING: The possible long-term effects of blue light emission from the monitor may cause personal injury such as digital eye strain, eye fatigue and damage to the eyes. Using monitor for extended periods of time may also cause pain in parts of body such as neck, arm, back and shoulder. For more information, see Ergonomics.

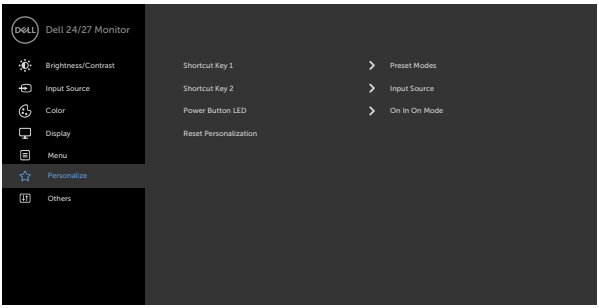
- **Movie:** Loads color settings ideal for movies.
- **FPS :** Loads color settings ideal for First-Person Shooter games.
- **RTS :** Loads color settings ideal for Real-Time Strategy games.
- **RPG :** Loads color settings ideal for Role-Playing games.

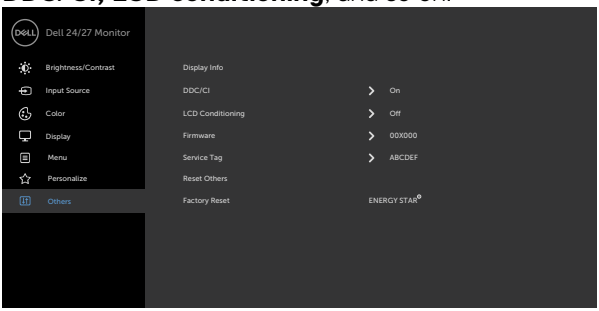
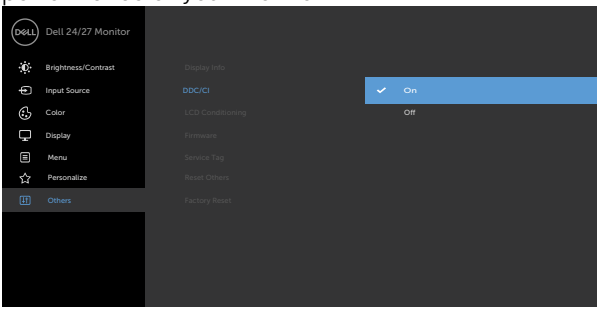
Icon	Menu and Submenus	Description
		• **Warm:** Increases the color temperature. The screen appears warmer with a red/yellow tint. • **Cool :** Decreases the color temperature. The screen appears cooler with blue tint. • **Custom Color:** Allows you to manually adjust the color settings. Press the and buttons to adjust the Red, Green, and Blue values and create your own preset color mode.
	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. 
	Hue	Use or to adjust the hue from 0 to 100. **NOTE:** Hue adjustment is available only for Movie and FPS, RTS, RPG mode.
	Saturation	Use or to adjust the saturation from 0 to 100. **NOTE:** Saturation adjustment is available only for Movie and FPS, RTS, RPG mode.
	Reset Color	Resets your monitor's color settings to the factory defaults.

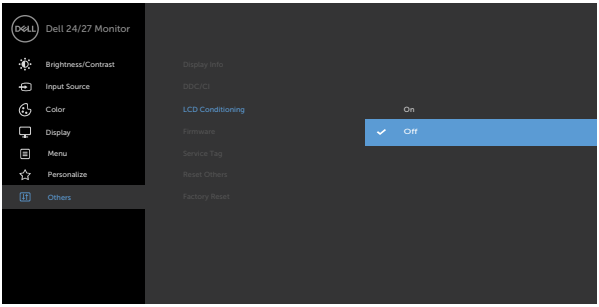
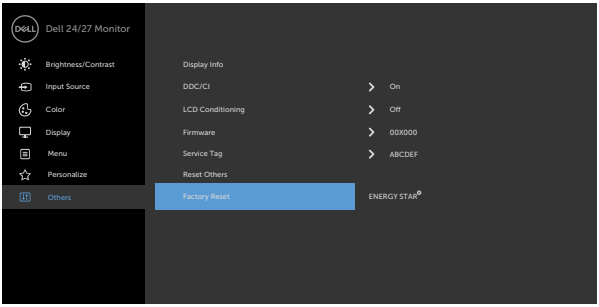
Icon	Menu and Submenus	Description
	Display	Use the **Display** menu to adjust image. 
	Aspect Ratio	Select the image ratio between **16:9 (wide), 4:3,** and **5:4.**
	Sharpness	Makes the image look sharper or softer. Use or to adjust the sharpness from '0' to '100'.
	Response Time	Allows you to set the **Response Time** to **Normal**, **Fast** or **Extreme**.
	Reset Display	Restores the display settings to factory defaults.

Icon	Menu and Submenus	Description
	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	Set the OSD display to one of eight languages. (English, Spanish, French, German, Brazilian Portuguese, Russian, Simplified Chinese, or Japanese).
	Transparency	Select this option to change the menu transparency by using and (min. 0 / max. 100).
	Timer	**OSD Hold Time:** Sets the length of time the OSD remains active after you press a button. Use the and buttons to adjust the slider in 1-second increments, from 5 to 60 seconds.

Icon	Menu and Submenus	Description
	Lock	Controls user access to adjustments. The buttons are locked.  • **Menu Buttons:** Through OSD to lock the Menu buttons. • **Power Button:** Through OSD to lock the Power button. • **Menu + Power Buttons:** Through OSD to lock the all of Menu and Power buttons. • **Disable:** Press and hold the button next to the power button for four seconds to unlock the buttons.
	Reset Menu	Restore the menu settings to factory defaults.

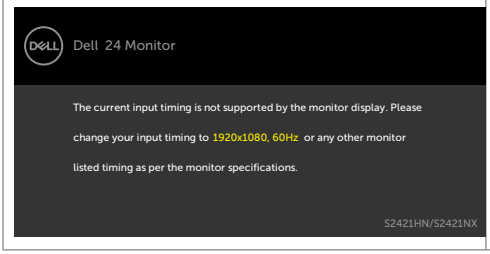
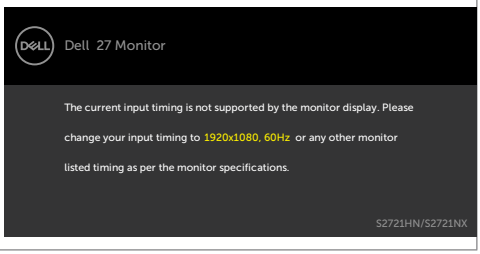
Icon	Menu and Submenus	Description
	Personalize	
	Shortcut key 1	Select from **Preset Modes, Brightness/Contrast, Input Source, Aspect Ratio** set as shortcut key 1.
	Shortcut key 2	Select from **Preset Modes, Brightness/Contrast, Input Source, Aspect Ratio** set as shortcut key 2.
	Power Button LED	Allows you to set the state of the power light to save energy.
	Reset Persona-lization	Restores shortcut keys to factory defaults.

Icon	Menu and Submenus	Description
	Others	Select this option to adjust the OSD settings such as the **DDC/CI, LCD conditioning**, and so on. 
	Display Info	Displays the monitor's current settings.
	DDC/CI	**DDC/CI** (Display Data Channel/Command Interface) allows you to adjust the monitor settings using software on your computer. Select **Off** to turn off this feature. Enable this feature for best user experience and optimum performance of your monitor. 

Icon	Menu and Submenus	Description
	LCD Conditioning	Helps reduce minor cases of image retention. Depending on the degree of image retention, the program may take some time to run. Select **On** to start the process. 
	Firmware	Displays the firmware version of your monitor.
	Service Tag	Displays the Service Tag. The Service Tag is a unique alphanumeric identifier that allows Dell to identify the product specifications and access warranty information. **NOTE:** The Service Tag is also printed on a label located at the back of the cover.
	Reset Others	Restores other settings, such as **DDC/CI**, to factory defaults.
	Factory Reset	Restores all preset values to the factory default settings. These are also the settings for ENERGY STAR® tests. 

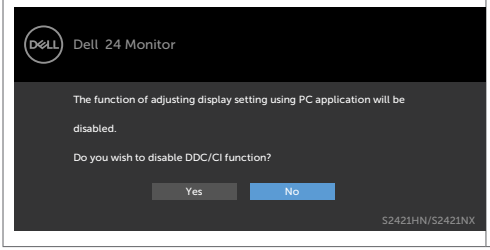
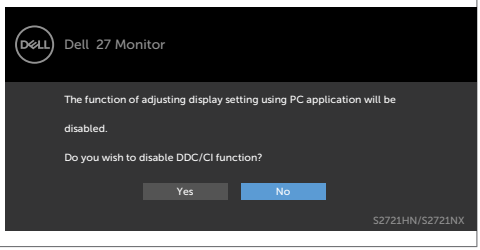
OSD warning messages

When the monitor does not support a particular resolution mode, you can see the following message:

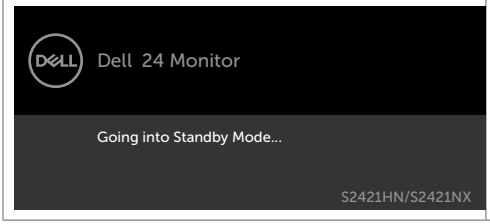
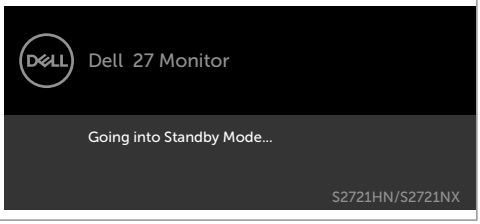
S2421HN/S2421NX	S2721HN/S2721NX
	

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

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

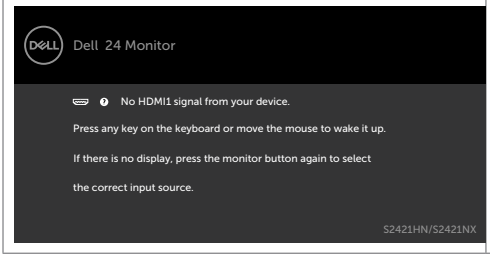
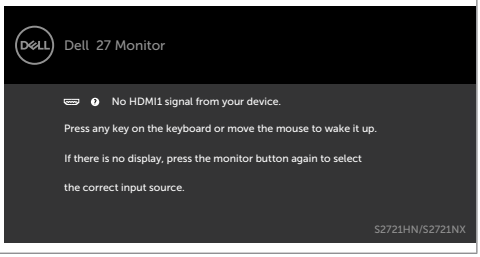
S2421HN/S2421NX	S2721HN/S2721NX
	

When the monitor enters the **Standby** mode, the following message will appears:

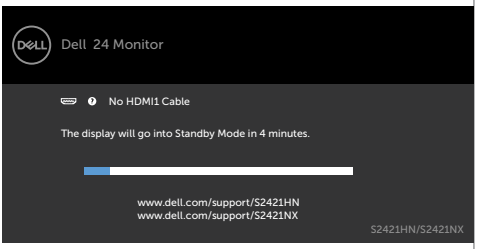
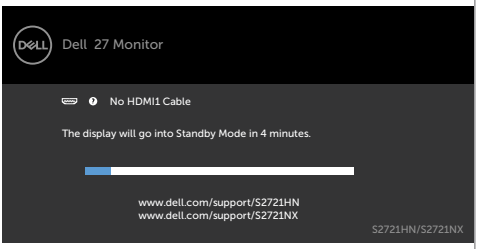
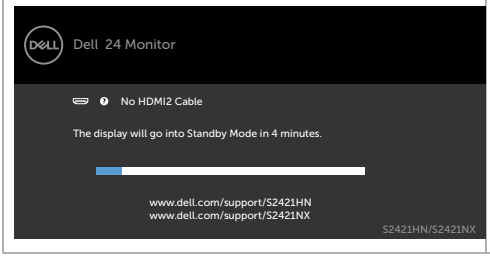
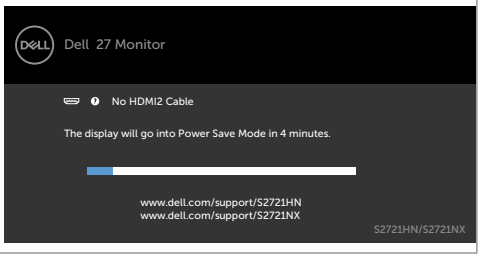
S2421HN/S2421NX	S2721HN/S2721NX
	

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

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

S2421HN/S2421NX	S2721HN/S2721NX
	

If either HDMI1, HDMI2 input is selected and the corresponding cable is not connected, a floating dialog box as shown below appears.

S2421HN/S2421NX	S2721HN/S2721NX
	
or	or
	

See Troubleshooting for more information.

Setting the maximum resolution

To set the maximum resolution for the monitor:

In Windows 7, Windows 8 or Windows 8.1:

1. For Windows 8 or Windows 8.1 only, select the Desktop tile to switch to classic desktop. For Windows Vista and Windows 7, skip this step.
2. Right-click on the desktop and click **Screen Resolution**.
3. Click the Dropdown list of the **Screen Resolution** and select **1920 x 1080**.
4. Click **OK**.

In Windows 10:

1. Right-click on the desktop and click **Display Settings**.
2. Click **Advanced display settings**.
3. Click the dropdown list of **Resolution** and select **1920 x 1080**.
4. Click **Apply**.

If you do not see **1920 x 1080** as an option, you may need to update your graphics driver. Depending on your computer, complete one of the following procedures:

If you have a Dell desktop or portable computer:

- Go to 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 your computer manufacturer's support website and download the latest graphic drivers.
- Go to your graphics card manufacturer's website and download the latest graphic drivers.

Troubleshooting

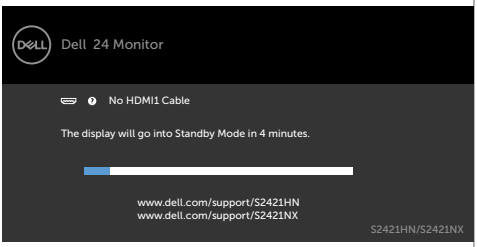
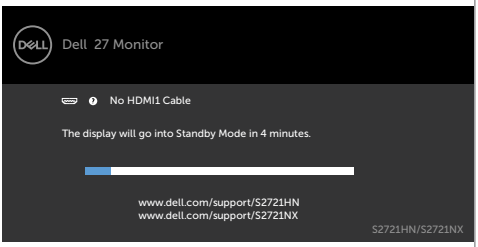
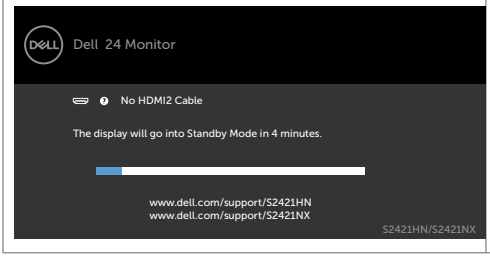
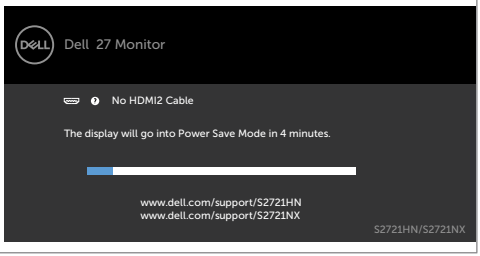
⚠ **WARNING: Before you begin any of the procedures in this section, follow the Safety instructions.**

Self-test

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

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

The floating dialog box should appear on-screen (against a black background), if the monitor cannot sense a video signal and is working correctly. While in self-test mode, the power LED remains white. Also, depending upon the selected input, one of the dialogs shown below will continuously scroll through the screen.

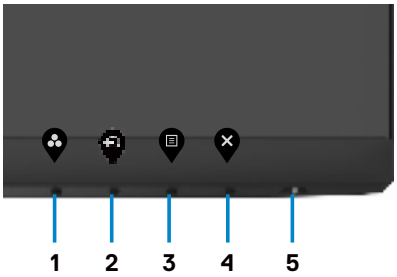
S2421HN/S2421NX	S2721HN/S2721NX
	
or	or
	

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

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

Built-in diagnostics

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



To run the built-in diagnostics:

1. Ensure that the screen is clean (no dust particles on the surface of the screen).
2. Press and hold **Button 4** for four seconds, a menu appears on the screen.
3. Select the built-in diagnostics option. A gray screen appears.
4. Carefully inspect the screen for abnormalities.
5. Press Button 1 on the front panel again. The color of the screen changes to red.
6. Inspect the display for any abnormalities.
7. Repeat steps 5 to 6 to inspect the display when it changes to green, blue, black, white, and text screens.

The test is complete when the text screen appears. To exit, press Button 1 again.

If you do not detect any screen abnormalities during the built-in diagnostic tool, the monitor is functioning properly. Check the video card and computer.

Common problems

The following table contains general information about common monitor problems you might encounter and the possible solutions:

Common symptoms	What you experience	Possible solutions
No Video/ Power LED off	No picture	· Ensure that the video cable connecting the monitor and the computer is properly connected and secure. · Verify that the power outlet is functioning properly using any other electrical equipment. · Ensure that the power button is depressed fully. · Ensure that the correct input source is selected in the Input Source menu.
No Video/ Power LED on	No picture or no brightness	· Increase brightness and contrast controls through 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 in the Input Source menu.
Missing Pixels	LCD screen has spots	· Cycle power on-off. · Pixel that is permanently off is a natural defect that can occur in LCD technology. · For more information on Dell Monitor Quality and Pixel Policy, see Dell Support site at: www.dell.com/support/monitors.
Stuck-on Pixels	LCD screen has bright spots	· Cycle power On-Off. · Pixel that is permanently off is a natural defect that can occur in LCD technology. · For more information on Dell Monitor Quality and PixelPolicy, see Dell Support site at: www.dell.com/support/monitors.
Brightness Problems	Picture too dim or too bright	· Reset the monitor to factory settings. · Adjust brightness and contrast controls through OSD.

Common symptoms	What you experience	Possible solutions
Safety Related Issues	Visible signs of smoke or sparks	· Do not perform any troubleshooting steps. · Contact Dell immediately.
Intermittent Problems	Monitor malfunctions on & off	· Ensure that the video cable connecting the monitor to the computer is connected properly and is secure. · Reset the monitor to factory settings. · Perform monitor self-test feature check to determine if the intermittent problem occurs in self-test mode.
Missing Color	Picture missing color	· Perform monitor self-test. · Ensure that the video cable connecting the monitor to the computer is connected properly and is secure. · Check for bent or broken pins in the video cable connector.
Wrong Color	Picture color not good	· Change the settings of the **Preset Modes** in the **Color** menu OSD depending on the application. · Adjust R/G/B value under **Custom Color** in **Color** menu OSD. · Change the **Input Color Format** to PC RGB or YPbPr in the **Color** menu OSD. · Run the built-in diagnostics.
Image retention from a static image left on the monitor for a long period of time	Faint shadow from the static image displayed appears on the screen	· Use the Power Management feature to turn off the monitor at all times when not in use (for more information, see Power management modes). · Alternatively, use a dynamically changing screensaver.

Product specific problems

Problem	What you experience	Possible solutions
Screen image is too small	Image is centered on screen, but does not fill entire viewing area	· Check the **Aspect Ratio** setting in the **Display** menu OSD. · Reset the monitor to factory settings.
Cannot adjust the monitor with the buttons on the front panel	OSD does not appear on the screen	· Turn off the monitor, unplug the monitor power cable, plug it back, and then turn on the monitor.
No Input Signal when user controls are pressed	No picture, the LED light is white	· Check the signal source. Ensure the computer is not in the power saving mode by moving the mouse or pressing any key on the keyboard. · Check whether the signal cable is plugged in properly. Connect the signal cable again, if necessary. · Reset the computer or video player.
The picture does not fill the entire screen	The picture cannot fill the height or width of the screen	· Due to different video formats (aspect ratio) of DVDs, the monitor may display in full screen. · Run the built-in diagnostics.

Appendix

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

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

Contacting Dell

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.

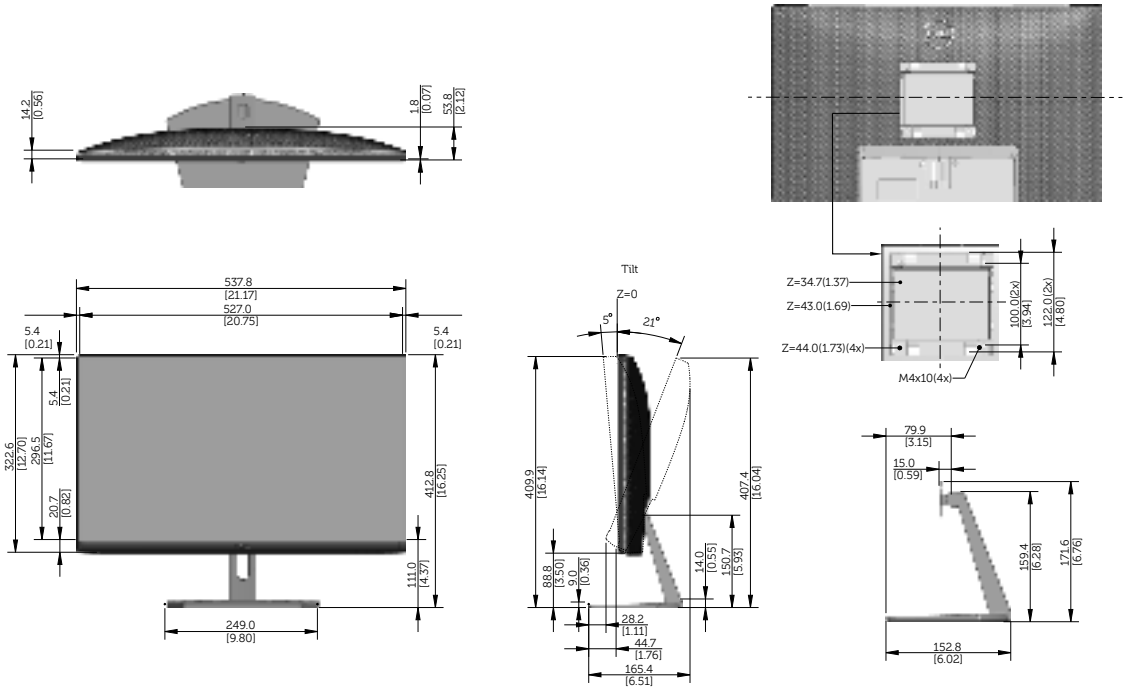
Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area.

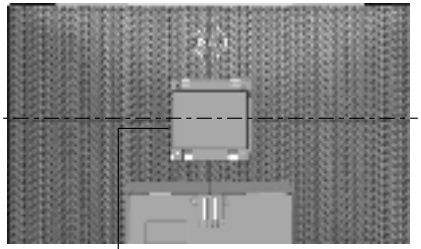
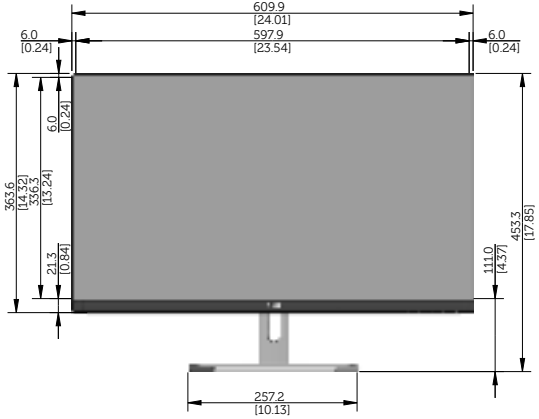
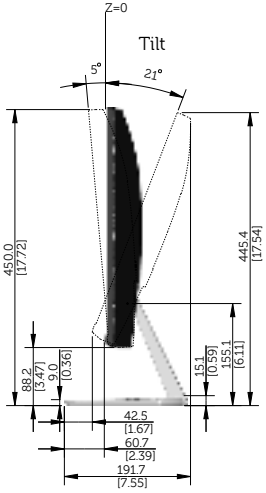
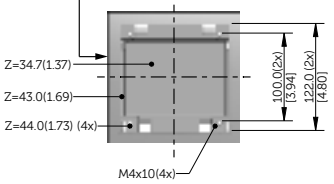
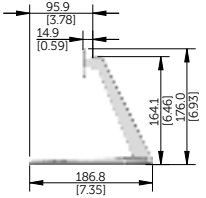
- Online technical assistance — www.dell.com/support/monitors
- Contacting Dell — www.dell.com/contactdell

Outline dimension

S2421H/HN/NX Outline Dimension

Unit : mm(inch)
Dimension : Nominal
Drawing : Not to scale



S2721H/HN/NX Outline Dimension

Unit : mm(inch)
Dimension : Norminal
Drawing : Not to scale