




Dell E2424HS

User's Guide

Monitor Model: E2424HS
Regulatory Model: E2424HSf



Notes, Cautions and Warnings

-  **NOTE:** A NOTE indicates important information that helps you make better use of your computer.
-  **CAUTION:** A CAUTION indicates potential damage to hardware or loss of data if instructions are not followed.
-  **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

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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 included in this document assumes that you have read the safety information that shipped with your monitor.

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


 **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.
- 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 of time.
- To avoid electric shock, do not attempt to remove any cover or touch the inside of the monitor.

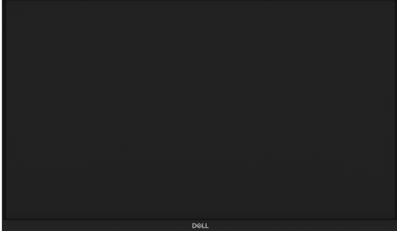





About your monitor



Package contents

Your monitor ships with the components indicated in the table. Ensure that you have received all the components and see [Contact Dell](#) if anything is missing.

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

 **NOTE: To set up Stand from any other source, refer to the documentation comes with the Stand for instruction.**

Component image	Component description
	Display
	Stand riser
	Stand base
	VESA™ Screw Cover
	Power cable (varies by country)
	VGA cable (Japan region)

	HDMI cable
	<ul style="list-style-type: none"> • Quick Start Guide • Safety, Environmental, and Regulatory Information

Product features

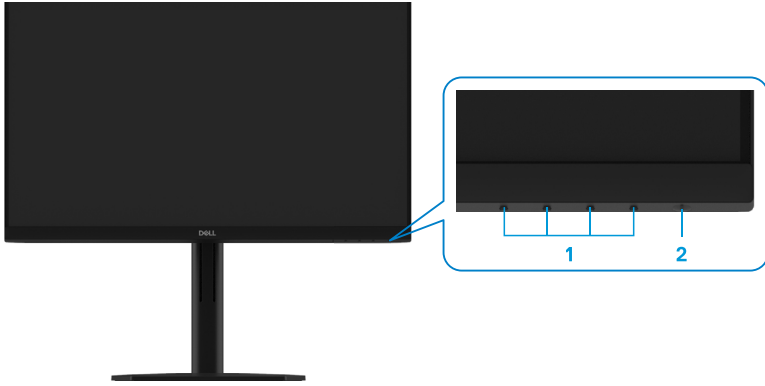
The Dell E2424HS flat panel monitor has an active matrix, Thin-Film Transistor (TFT), Liquid Crystal Display (LCD) Panel with LED backlight.

The monitor features include :

- 60.47 cm (23.8 in.) diagonal viewable area display (measured diagonally). 1920 x 1080 resolution, with full-screen support for lower resolutions.
- Wide viewing angles of 178 degrees in vertical and horizontal directions.
- Contrast ratio (3000:1).
- Digital connectivity with DisplayPort or HDMI.
- Support FHD@60Hz as per specified in HDMI 1.4
- Height adjustment capability.
- Dual built-in speakers.
- Plug and play capable if supported by your computer.
- On-Screen Display (OSD) adjustments for easy setup and screen optimization.
- ≤ 0.3 W in Standby Mode.
- Optimize eye comfort with a flicker-free screen.
- The monitor adopts flicker-free technology, which clears the eye visible flicker, brings comfort viewing experience and preventing users suffer from eye strain and fatigue.
- Possible long-term effects if blue light emission from the monitor may cause damage to the eyes, including eye fatigue or digital eye strain. ComfortView feature to reduce risk of eye strain from high blue light emission.
- Security-lock slot.
- Arsenic-free glass and Mercury-free for panel only.
- BFR/PVC-Reduced (Its circuit boards are made from BFR/PVC-free laminates).
- Meets NFPA 99 leakage current requirement.
- TCO Certified & TCO Certified Edge.
- EPEAT registered where applicable. EPEAT registration varies by country. See <https://www.epeat.net> for registration status by country.
- RoHS Compliant.
- Energy Star® Certified.

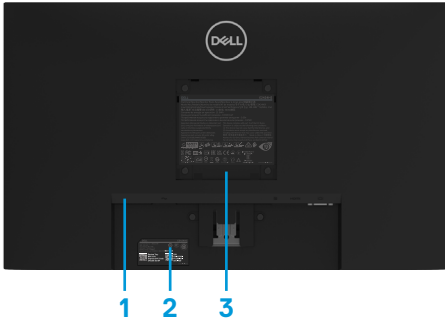
Identifying features and controls

Front view

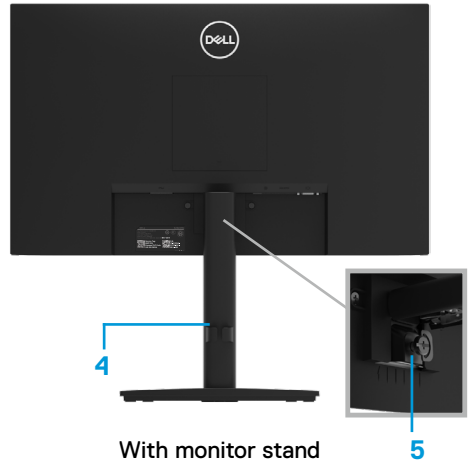


Label	Description	Use
1	Function buttons	To access the OSD menu and change the settings if required. For more information, see Using the front panel controls .
2	Power On/Off button (with LED indicator)	To turn the monitor On or Off. Solid white light indicates that the monitor is turned on and functioning normally. Blinking white light indicates that the monitor is in Standby Mode.

Back view



Without monitor stand



With monitor stand

Label	Description	Use
1	Security-lock slot (based on Kensington Security Slot™)	Secures monitor with security cable lock (sold separately)
2	Barcode, serial number, and service tag label	See this label if you need to contact Dell for technical support. The Service Tag is a enables Dell service technicians to identify the hardware components in your computer and access warranty information.
3	Regulatory information	List the regulatory approvals.
4	Cable-management clip	To organize the cables.
5	Stand thumbscrew	Release stand from monitor.

Side view



Bottom view, without monitor stand



Label	Description	Use
1	Power port	To connect the monitor power cable.
2	DP port	For connection to your computer using DP cable.
3	HDMI port	For connection to your computer using HDMI cable.
4	VGA port	For connection to your computer using VGA cable.
5	Speakers	To produce audio output.

Monitor specifications

Model	E2424HS
Screen type	Active matrix-TFT LCD
Panel type	Vertical Alignment(VA)
Viewable area	
Diagonal	604.70 mm (23.8 in.)
Active area Horizontal Vertical Area	527.04 mm (20.75 in.) 296.46 mm (11.67 in.) 1562.46 cm ² (242.18 in. ²)
Pixel pitch	0.2745 mm x 0.2745 mm
Pixel per inch (PPI)	93
Viewing angle Horizontal Vertical	178° (typical) 178° (typical)
Brightness	250 cd/m ² (typical)
Contrast ratio	3,000 to 1 (typical)
Faceplate coating	Anti-glare with 3H hardness
Backlight	LED edgelight system
Response time Normal mode Fast mode	< 8 ms < 5 ms
Color depth	16.7 million colors
Color gamut	72% NTSC (CIE1931) 83% NTSC (CIE1976)
Dell display manager compatibility	Yes
Connectivity	1 x DP 1.2, 1 x HDMI 1.4, 1 x VGA
Bezel width (edge of monitor to active area)	5.8 mm (Top) 5.8 mm (Left/Right) 21.95 mm (Bottom)
Security	Security-lock slot for cable lock (optional purchase)
Tilt angle	-5° to 21°
Swivel (Lazy Susan)	-173° to 173°
Height adjustable stand	130+/-5 mm
Built-in Speakers (2 x 1 W sound output)	Speaker 2x1W

Resolution specifications

Model	E2424HS
Horizontal scan range	30 kHz to 83 kHz (automatic)
Vertical scan range	50 Hz to 75 Hz (automatic)
Maximum preset resolution	1920 x 1080 @ 60 Hz

Preset display modes

Display mode	Horizontal frequency (kHz)	Vertical frequency (Hz)	Pixel clock (MHz)	Sync polarity (Horizontal/Vertical)
VESA, 720 x 400	31.5	70.1	28.3	-/+
VESA, 640 x 480	31.5	59.9	25.2	-/-
VESA, 640 x 480	37.5	75.0	31.5	-/-
VESA, 800 x 600	37.9	60.3	40.0	+/+
VESA, 800 x 600	46.9	75.0	49.5	+/+
VESA, 1024 x 768	48.4	60.0	65.0	-/-
VESA, 1024 x 768	60.0	75.0	78.8	+/+
VESA, 1152 x 864	67.5	75.0	108.0	+/+
VESA, 1280 x1024	64.0	60.0	108.0	+/+
VESA, 1280 x1024	80.0	75.0	135.0	+/+
VESA, 1600 x 900	60.0	60.0	108.0	+/+
VESA, 1920 x1080	67.5	60.0	148.5	+/+

Electrical specifications

Model	E2424HS
Video input signals	<ul style="list-style-type: none"> • Analog RGB: 0.7 V ± 5 %, 75 Ω input impedance • HDMI 1.4, 600 mV for each differential line, 100 Ω input impedance per differential pair • DP 1.2, 600 mV for each differential line, 100 Ω input impedance per differential pair
Synchronization input signals	Separate horizontal and vertical synchronizations, polarity-free TTL level, SOG (Composite SYNC on green)
AC input voltage/frequency/current	100 VAC to 240 VAC/50 Hz or 60 Hz ± 3 Hz/1.5 A
Inrush current	30 A (120 V AC Input) 60 A (240 V AC Input)
Power Consumption	0.1 W (Off Mode) ¹ 0.2 W (Standby Mode) ¹ 14 W (On Mode) ¹ 28 W (Max) ² 14.17 W (P _{on}) ³ 45.73 kWh (TEC) ³

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

² Max brightness and contrast setting.

³ 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.

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

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



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

Physical characteristics

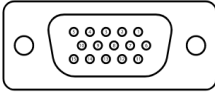
Model	E2424HS
Signal cable type: Analog Digital	D-Sub (VGA), 15 pins (cable is included for JPN region only) DP, 20 pins HDMI, 19 pins
NOTE: Dell monitors are designed to work optimally with the video cables that are shipped with your monitor. As Dell does not have control over the different cable suppliers in the market, the type of material, connector and process used to manufacture these cables, Dell does not guarantee video performance on cables that are not shipped with your Dell monitor.	
Dimensions (with stand):	
Height (Extended)	512.07 mm (20.16 in.)
Height (Compressed)	377.91 mm (14.88 in.)
Width	538.64 mm (21.21 in.)
Depth	209.46 mm (8.25 in.)
Dimensions (without stand):	
Height	324.21 mm (12.76 in.)
Width	538.64 mm (21.21 in.)
Depth	48.90 mm (1.93 in.)
Stand dimensions:	
Height (Extended)	274.12 mm (10.79 in.)
Height (Compressed)	144.12 mm (5.67 in.)
Width	257.11 mm (10.12 in.)
Depth	209.45 mm (8.25 in.)
Weight:	
Weight with packaging	5.96 kg (13.14 lb)
With stand assembly and cables	4.53 kg (10.00 lb)
Without stand assembly and cables	2.82 kg (6.22 lb)
Weight of stand assembly	1.24 kg (2.73 lb)

Environmental characteristics

Model	E2424HS
Temperature: Operating	0 °C to 40 °C (32 °F to 104 °F)
Non-operating: Storage/Shipping	-20 °C to 60 °C (-4 °F to 140 °F)
Humidity: Operating	10% to 80% (non-condensing)
Non-operating: Storage/Shipping	5% to 90% (non-condensing)
Altitude:	
Operating (maximum)	5,000 m (16,400 ft)
Non-operating (maximum)	12,192 m (40,000 ft)
Thermal dissipation	95.54 BTU/hour (maximum) 47.74 BTU/hour (on mode)

Pin assignments

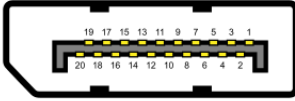
D-Sub 15-pin connector



Pin Number	Signal Assignment
1	Video-Red
2	Video-Green
3	Video-Blue
4	GND
5	Self-test
6	GND-R
7	GND-G
8	GND-B
9	DDC +5 V
10	GND-sync
11	GND
12	DDC data
13	H-sync
14	V-sync
15	DDC clock

Pin assignments

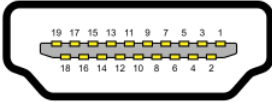
DP 20-pin connector



Pin Number	Signal Assignment
1	ML_LANE3_N
2	GND
3	ML_LANE3_P
4	ML_LANE2_N
5	GND
6	ML_LANE2_P
7	ML_LANE1_N
8	GND
9	ML_LANE1_P
10	ML_LANE0_N
11	GND
12	ML_LANE0_P
13	GND
14	GND
15	AUX_CH_P
16	GND
17	AUX_CH_N
18	HPD
19	RETURN
20	DP_PWR

Pin assignments

HDMI 19-pin connector



Pin Number	Signal Assignment
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 capability

You can install the monitor in any Plug and Play-compatible system. The monitor automatically provides the computer 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 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 normal 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

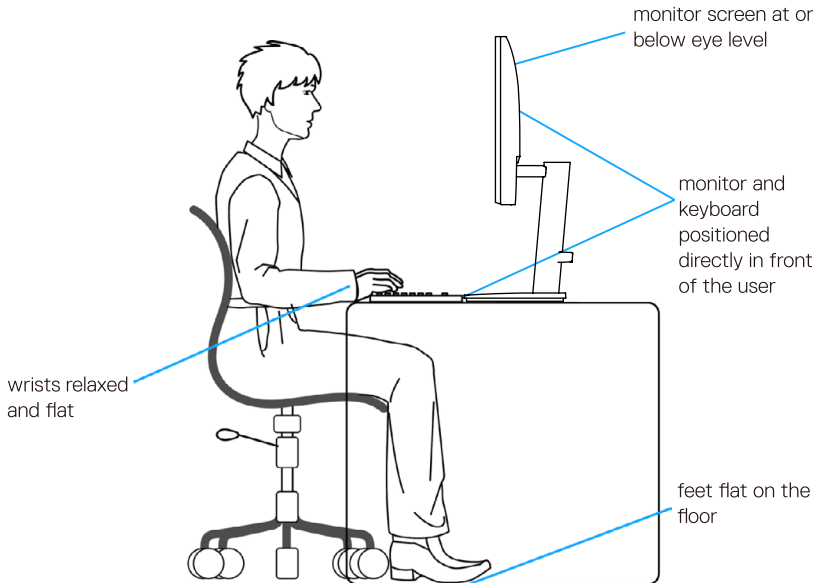
△ CAUTION: Improper or prolonged usage of keyboard may result in injury.

△ 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/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.

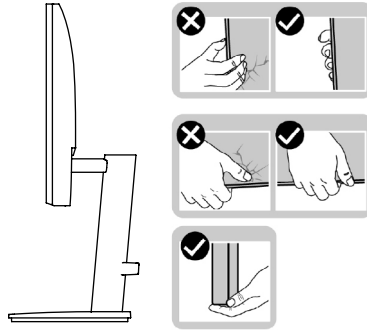
- When sitting, make sure that the weight of your legs is on your feet and not on the front portion of your seat. Adjust your chair's height or use a footrest if necessary to maintain a proper posture.
- Vary your work activities. Try to organize your work so that you do not have to sit and work for 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



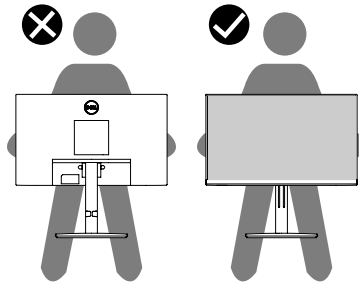
Handling and moving your display

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

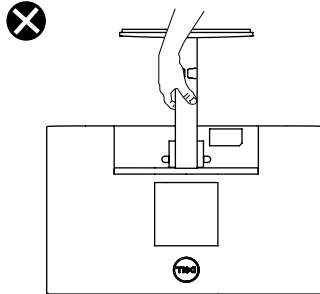
- Before moving or lifting the monitor, turn off your computer and the monitor.
- Disconnect all cables from the monitor.
- Place the monitor in the original box with the original packing materials.
- Hold the bottom edge and the side of the monitor firmly without applying excessive pressure when lifting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

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


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

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

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

Setting up the monitor

Connecting the stand

 **NOTE:** The stand is not attached when the monitor is shipped from the factory.

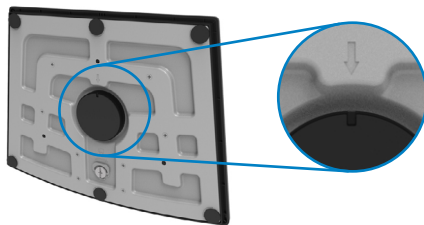
 **NOTE:** The following procedure is applicable for the stand that shipped with your monitor.

To attach the monitor stand:

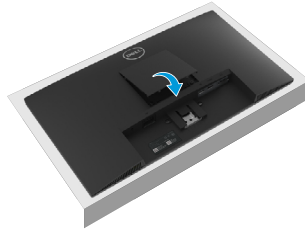
1. Assemble the stand riser to stand base.
 - a. Insert the stand base fully into the stand riser slot.
 - b. Lift the screw handle and turn the screw clockwise.
 - c. After fully tightening the screw, fold the screw handle flat within the recess.



2. When square indicator on Lazy Susan is aligned with the arrow, this indicates the Lazy Susan is at the initial zero position (0°).

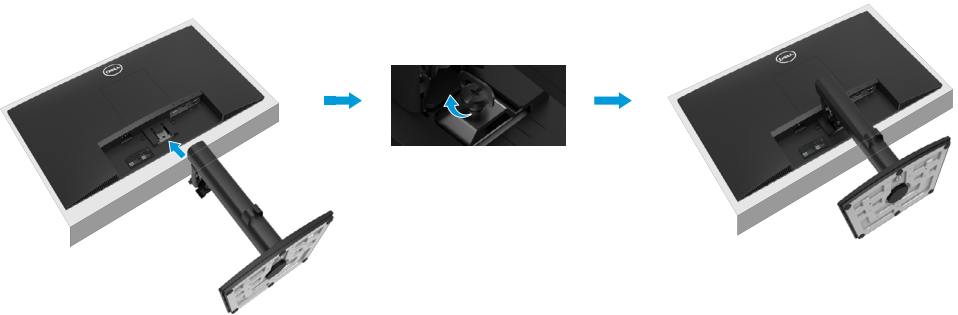


3. Attach the VESA cover.



4. Attach the stand assembly to the monitor.

- a. Place the monitor on a soft cloth or cushion near the edge of desk.
- b. Align the stand assembly bracket to the monitor groove.
- c. Insert the bracket fully towards monitor.
- d. Tighten thumbscrew clockwise till it's securely fastened.



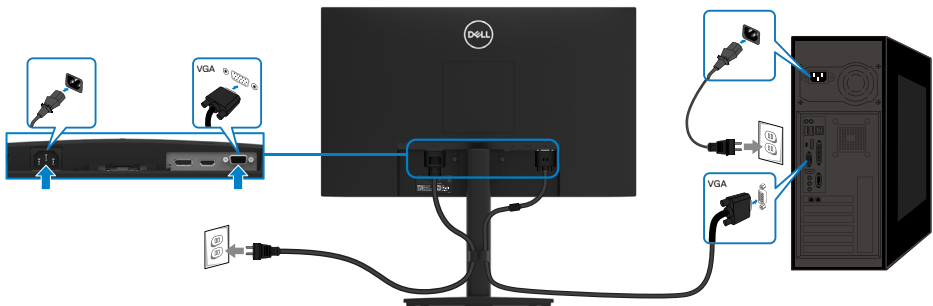
Connecting your monitor

- ⚠ WARNING:** Before you begin any of the procedures in this section, follow the [Safety instructions](#).
- ⚠ WARNING:** For your safety, be sure that the grounded power outlet you plug the power cord into is easily accessible to operator and located as close to the equipment as possible.
- To disconnect power from the equipment, unplug the power cord from the power outlet by grasping the plug firmly. Never pull on the cord.
- ⚠ WARNING:** A certified power supply cord has to be used with this equipment. The relevant national installation and/or equipment regulations shall be considered. A certified power supply cord not lighter than ordinary polyvinyl chloride flexible cord according to IEC 60227 (designation H05VV-F 3G 0.75mm² or H05VVH2-F2 3G 0.75mm²) shall be used. An alternative flexible cord is synthetic rubber.
- ✎ NOTE:** Do not connect all cables to the computer at the same time. It is recommended to route the cables through the cable-management slot before you connect them to the monitor.
- ✎ NOTE:** Dell monitors are designed to work optimally with Dell supplied inbox cables. Dell does not guarantee the video quality and performance when using non-Dell cables.

To connect your monitor to the computer:

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

Connecting VGA cable



Connecting DP cable

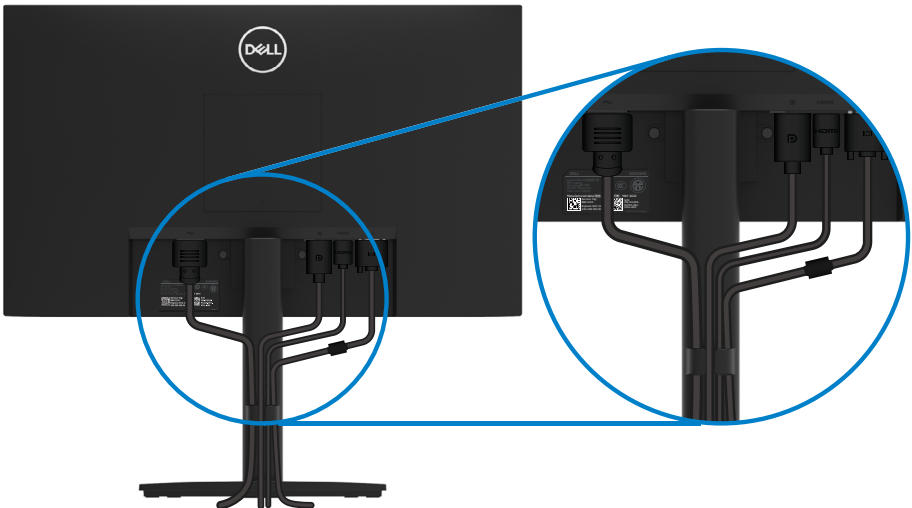


Connecting HDMI cable



Organizing cables

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

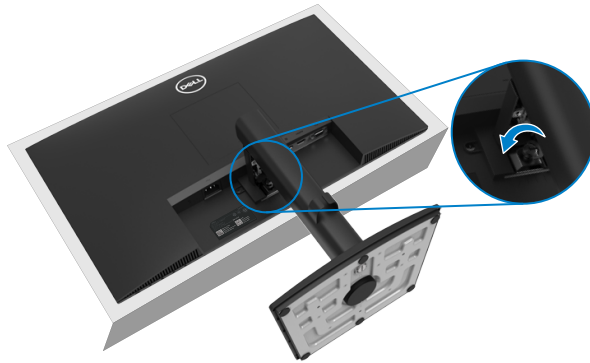


Removing the stand

- NOTE: To prevent scratches on the screen when removing the stand, ensure that the monitor is placed on a soft and clean surface.
- NOTE: The following procedure is applicable for the stand that shipped with your monitor.

To remove the stand:

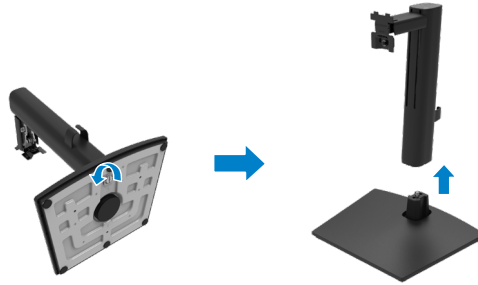
- a. Place the monitor on a soft cloth along the desk.
b. Unscrew thumbscrew at the tilt bracket fully.



- Slide the stand out of the monitor completely.

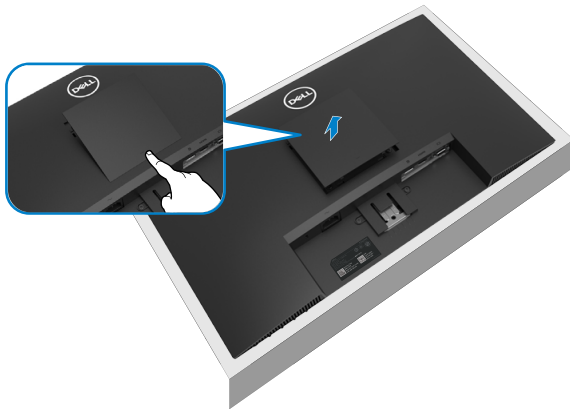


3. Unscrew the Thumbscrew anti-clockwise till it is loosened. The stand riser can now be removed from the stand base easily.

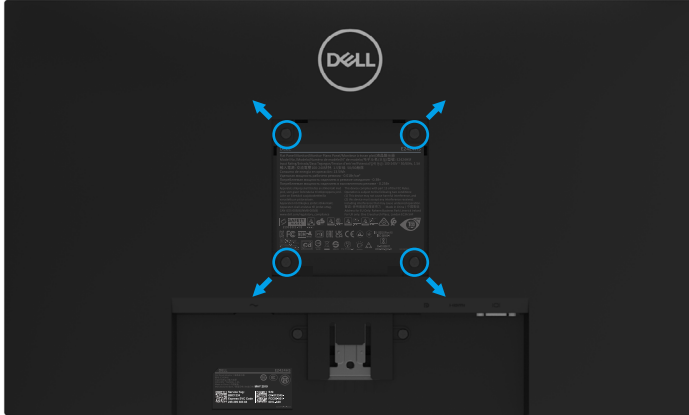


To remove the VESA cover:

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



Wall Mounting (Optional)



(Screw dimension: M4 x 10 mm).


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

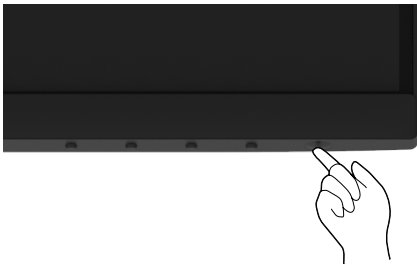
1. Place the monitor panel on a soft cloth or cushion on a stable flat table.
2. Remove the stand.
3. Use a screwdriver to remove the four screws securing the plastic cover.
4. Attach the mounting bracket from the wall mounting kit to the LCD.
5. Mount the LCD on the wall by following the instructions that came with the base mounting kit.

NOTE: For use only with UL or CSA or GS-listed wall-mount bracket with minimum weight/load bearing capacity of 11.28 kg (24.87 lb) for E2424HS.

Operating your monitor

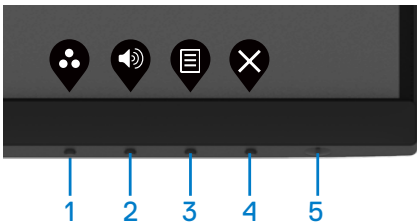
Turning on the monitor

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 image being displayed.



The following table describes the control buttons:

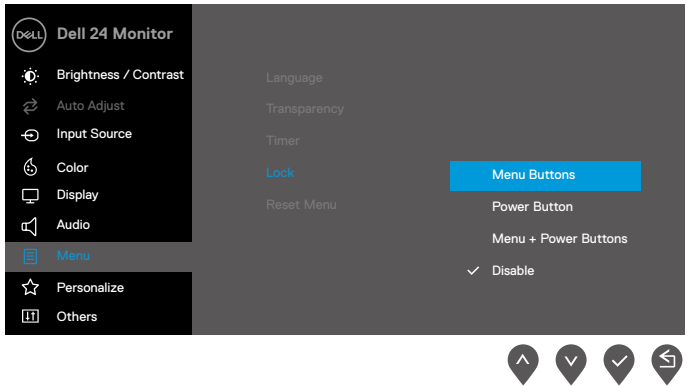
Control buttons	Description
1  Preset mode	Use this button to choose from a list of preset modes.
2  Volume	Use the Volume key to direct access to the "Volume" control menu.
3  Menu	To launch the On-Screen Display (OSD) menu, or to access the list of items/options of a menu item. For more information, see Accessing the OSD menu .
4  Exit	To exit or return to the OSD main menu.
5  Power 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.

Using the OSD lock function

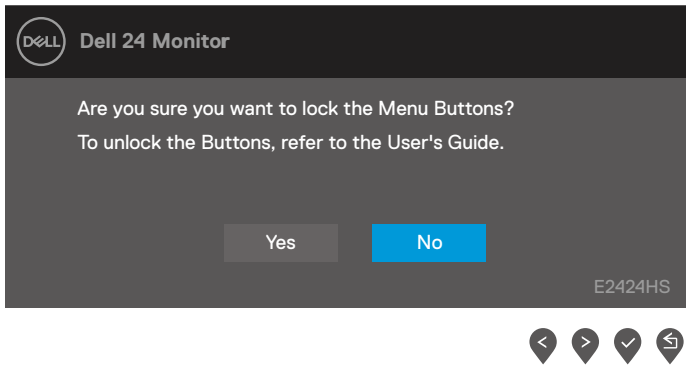
You can lock the front-panel control buttons to prevent access to the OSD menu and/or power button.


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

1. Select one of the following options.

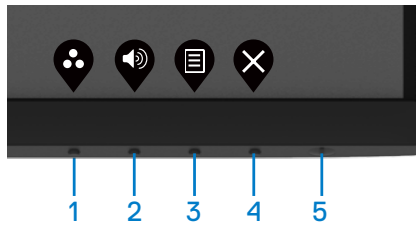


2. The following message appears.

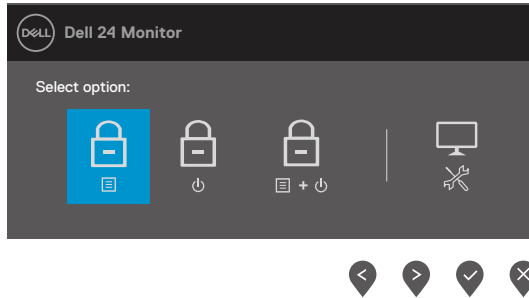


3. Select Yes to lock the buttons. Once locked, pressing any control button will display the lock icon .





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.

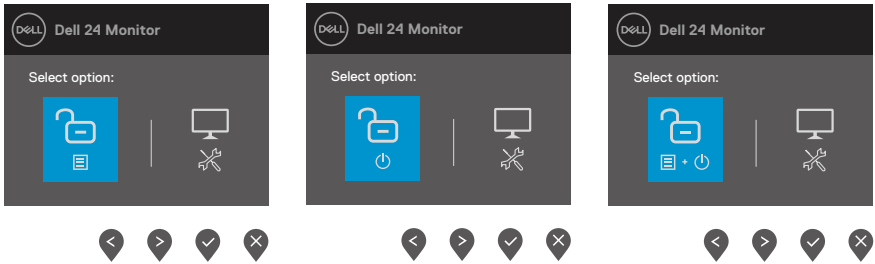






2. Select one of the following options:

	Options	Description
1	 Menu Buttons lock	Select this option to lock OSD menu function.
2	 Power Button lock	Use this option to lock power button.
3	 Menu and Power Buttons lock	Use this option to lock OSD menu and power button.
4	 Built-in Diagnostics	Use this option to run the built-in diagnostics, see Built-in diagnostics .

To unlock the button(s).

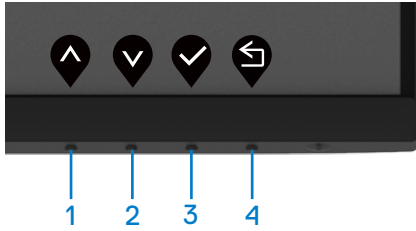
Press and hold **Button 4** for four seconds until a menu appears on the screen. The following table describes the options to unlock the front-panel control buttons.







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

OSD controls

Use the buttons on the bottom edge of the monitor to adjust the image settings.




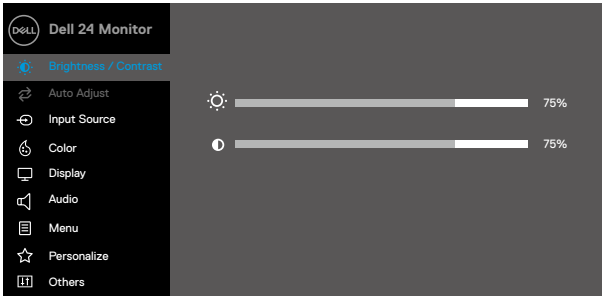
Control buttons	Description
1  Up	Use the Up button to increase values or move up in a menu.
2  Down	Use the Down button to decrease values or move down in a menu.
3  OK	Use the OK button to confirm your selection in a menu.
4  Back	Use the Back button to go back to the previous menu.










Using the On-Screen Display (OSD) menu


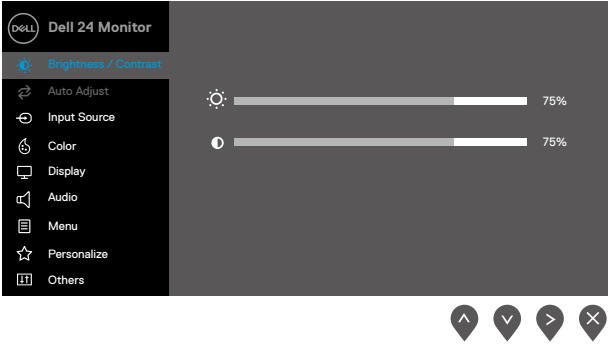




Accessing the OSD menu


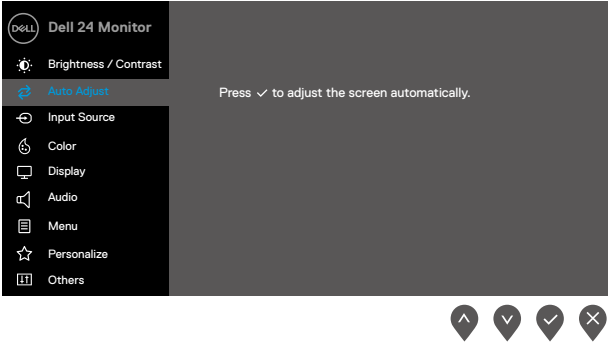

NOTE: Any changes you make are automatically saved when you move to another menu, exit the OSD menu, or wait for the OSD menu to close automatically.


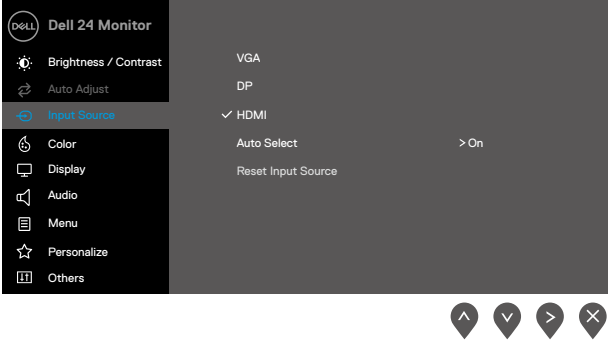



1. Press the  button to display the OSD main menu.


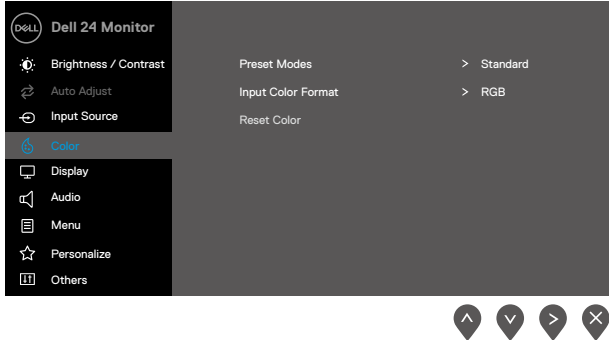




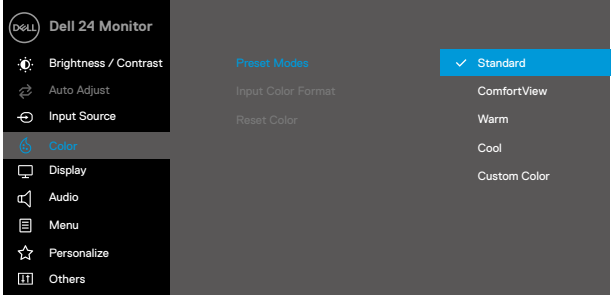
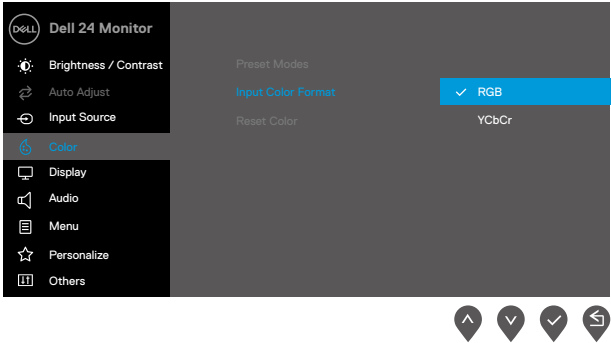
2. Press the  and  buttons to move between the setting options. As you move from one icon to another, the option name is highlighted.
3. Press the  button once to activate the highlighted option.
4. Press  and  button to select the desired parameter.
5. Press  and then use the  and  buttons, according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

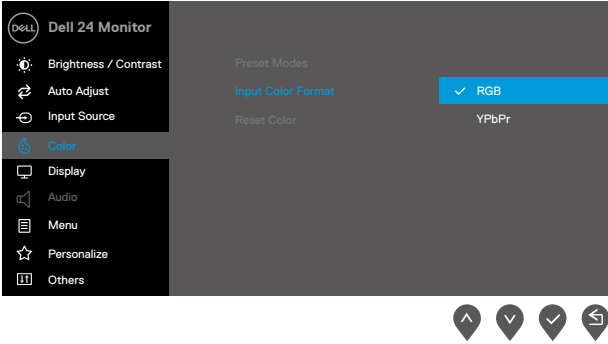

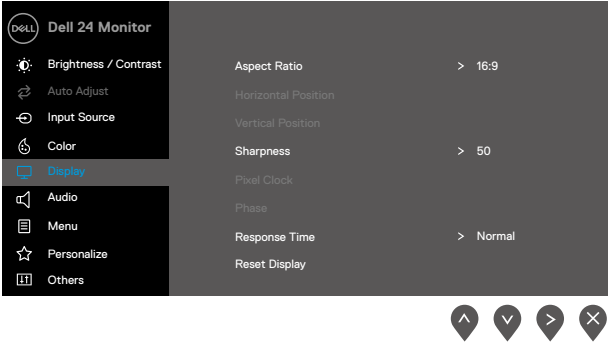






Icon	Menu and submenus	Description
	Brightness/Contrast	<p>Use this option to control the brightness or contrast settings.</p> 
	Brightness	<p>Brightness adjusts the luminance of the backlight.</p> <p>Press the  button to increase the brightness and press the  button to decrease the brightness (min. 0; max. 100).</p>
	Contrast	<p>Adjust the brightness first, and then adjust the contrast only if further adjustment is necessary.</p> <p>Press the  button to increase the contrast and press the  button to decrease the contrast (min. 0; max. 100).</p> <p>The contrast function adjusts the degree of difference between darkness and lightness on the screen.</p>




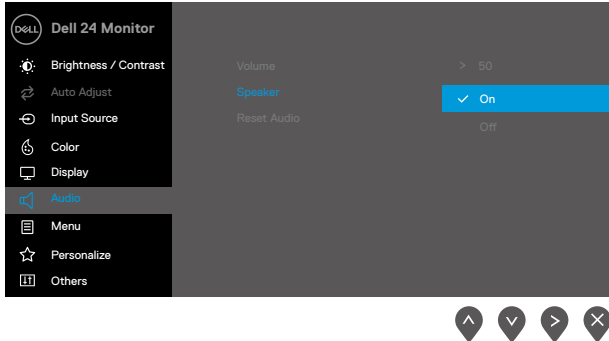
Icon	Menu and submenus	Description
	Auto Adjust	<p>Use this option to activate automatic setup and adjust menu.</p>  <p>The following dialog appears on a black screen as the monitor self-adjusts to the current input:</p>  <p>Auto Adjust allows the monitor to self-adjust to the incoming video signal. After using Auto Adjustment, you can further tune your monitor by using the Pixel Clock (Coarse) and Phase (Fine) controls under Display.</p> <p>NOTE: Auto Adjust does not occur if you press the button while there are no active video input signals or attached cables.</p> <p>This option is available only when you are using the analog (VGA) connector.</p>


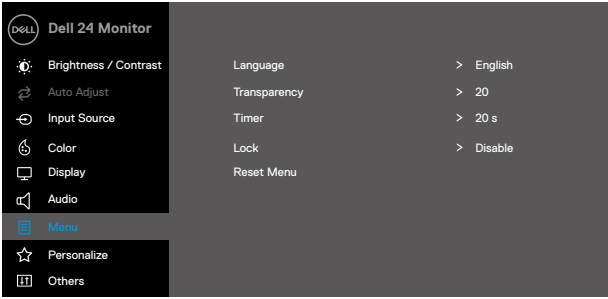








Icon	Menu and submenus	Description
	Input Source	<p>Use the Input Source menu to switch between the different video signals that may be connected to your monitor.</p> 
	VGA	Push  to select the VGA input source when using VGA connector.
	DP	Push  to select the DP input source when using DP connector.
	HDMI	Push  to select the HDMI input source when using HDMI connector.
	Auto Select	Select Auto Select to scan for available input signals.
	Reset Input Source	Select this option to restore default input source.

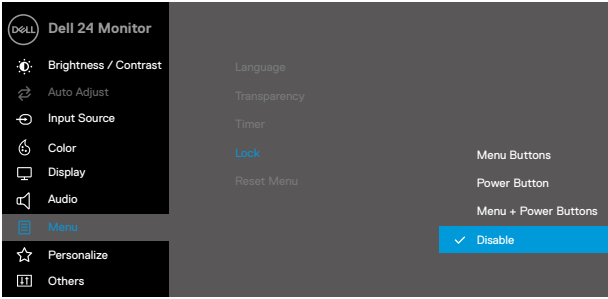


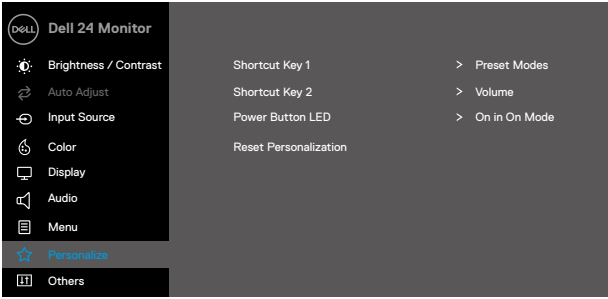
Icon	Menu and submenus	Description
	Color	<p>Use color to adjust the color setting mode.</p> 
	Preset Modes	<p>When you select Preset Modes, you can choose Standard, ComfortView, Warm, Cool, Custom Color from the list.</p> <ul style="list-style-type: none"> • Standard: Load the monitor's default color 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. <p>NOTE: To reduce the risk of eye strain and neck/arm/back/shoulders pain from using the monitor for long periods of time, we suggest that you:</p> <ul style="list-style-type: none"> - Set the screen about 20~28 in. (50~70 cm) from your eyes. - Blink frequently to moisten or lubricate your eyes. - Take regular 20-minute breaks every two hours. - Look away from your monitor and gaze at a distant object at 20 feet away for at least 20 seconds during the breaks. - Perform stretches to relieve tension in the neck/arm/back/shoulders during the breaks. <ul style="list-style-type: none"> • Warm: Increase the color temperature. The screen appears warmer with a red/yellow tint. • Cool: Decrease the color temperature. The screen appears cooler with a blue tint. • Custom Color: Allows you to manually adjust the color settings.


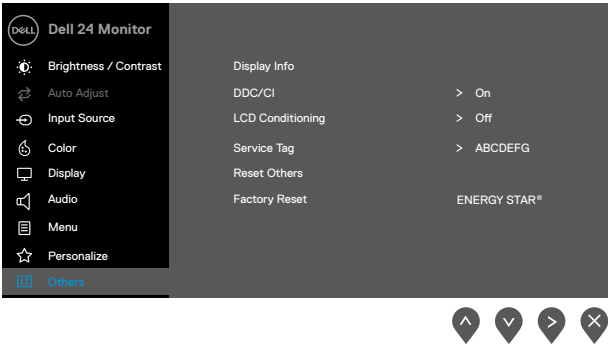
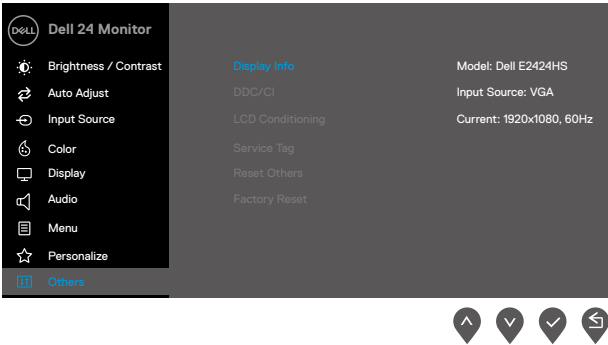
Icon	Menu and submenus	Description
		<p>Press the  and  buttons to adjust the three colors (R, G, B) values and create your own preset color mode.</p> 
	<p>Input Color Format</p>	<p>Allow you to set the video input mode to:</p> <ul style="list-style-type: none"> • RGB: Select this option if your monitor is connected to a computer or a media player that supports RGB output. • YCbCr/YPbPr*: Select this option if your media player supports only YCbCr/YPbPr output.  <p>*When DP or HDMI input is selected.</p>

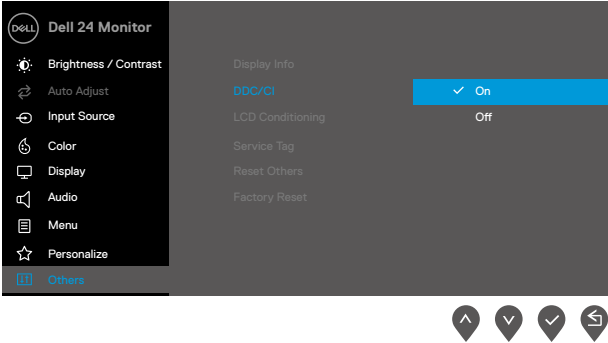
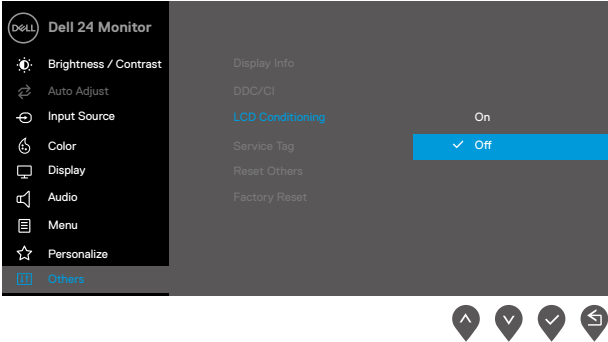
Icon	Menu and submenus	Description
		 <p>*When VGA input is selected.</p>
	Reset Color	Reset your monitor color settings to the factory settings.
	Display	<p>Use the display to adjust image.</p> 
	Aspect Ratio	Adjust the image ratio to 16:9, 4:3, or 5:4.
	Horizontal Position (VGA input only)	<p>Use  or  to move image left and right.</p> <p>Minimum is '0' (-). Maximum is '100' (+).</p>
	Vertical Position (VGA input only)	<p>Use the  or  to move image up and down.</p> <p>Minimum is '0' (-). Maximum is '100' (+).</p>
	Sharpness	<p>This feature can make the image look sharper or softer.</p> <p>Use  or  to adjust the sharpness from 0 to 100.</p>

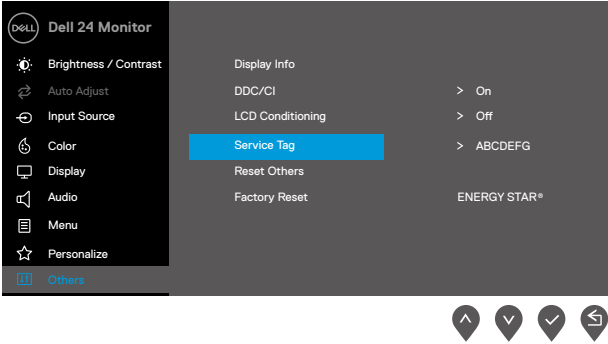
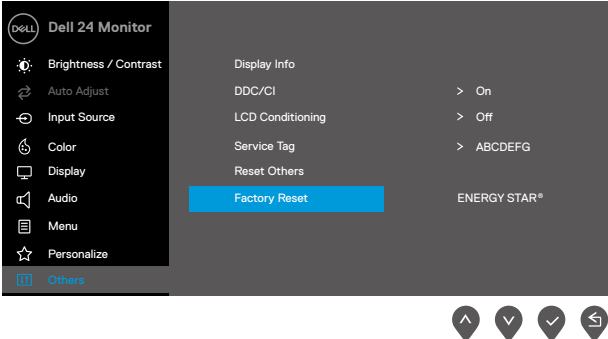
Icon	Menu and submenus	Description
	Pixel Clock (VGA input only)	The Pixel Clock feature enables you to adjust image quality on your monitor according to your preference. Use  or  buttons to adjust for best image quality.
	Phase (VGA input only)	If satisfactory results are not obtained using the Phase adjustment, use the Pixel Clock (coarse) adjustment and then use Phase (fine), again.
	Response Time	Allow you to select between Normal (8 ms), Fast (5 ms).
	Reset Display	Select this option to restore default display settings.
	Audio	
	Volume	Use the buttons to adjust the volume. Minimum is '0' (-). Maximum is '100' (+).
	Speaker	Allows you to enable or disable Speaker function.
	Reset Audio	Select this option to restore default audio settings.

Icon	Menu and submenus	Description
	Menu	<p>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.</p>  <p style="text-align: right;">     </p>
	Language	<p>Language options set the OSD display to one of the eight languages: English, Spanish, French, German, Brazilian Portuguese, Russian, Simplified Chinese, or Japanese.</p>
	Transparency	<p>Select this option to change the menu transparency by pressing the  or  buttons from 0 to 100.</p>
	Timer	<p>OSD hold time: sets the length of time , the OSD will remain active after the last time you pressed a button.</p> <p>Use  or  to adjust the slider in 1 second increments, from 5 to 60 seconds.</p>

Icon	Menu and submenus	Description
	Lock	<p>With the control buttons on the monitor locked, you can prevent people from accessing the controls. It also prevents accidental activation in multiple monitors side-by-side setup.</p>  <ul style="list-style-type: none"> • Menu Buttons: All Menu/function buttons (except the Power button) are locked and not accessible by the user. • Power Button: Only the Power button is locked and not accessible by the user. • Menu + Power Buttons: Both the Menu/function & Power buttons are locked and not accessible by the user. <p>The default setting is Disable.</p> <p>NOTE: To unlock the button(s), press and hold  key of the monitor for 4 seconds</p>
	Reset Menu	<p>Select this option to restore default menu settings.</p>
	Personalize	<p>Selecting this option allows you to set two shortcut keys and power LED indicator function.</p> 

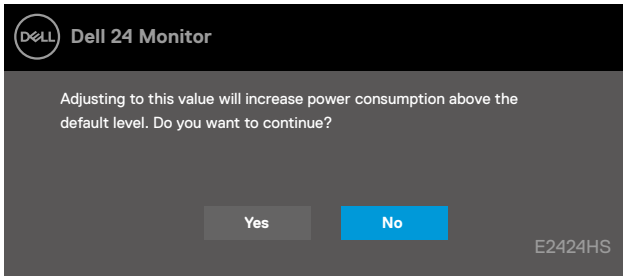
Icon	Menu and submenus	Description
	Shortcut Key 1	Allow you to select one of the following: Preset Modes, Brightness/ Contrast, Auto Adjust, Input Source, Aspect Ratio, Volume, to set the shortcut key 1.
	Shortcut Key 2	Allow you to select one of the following: Preset Modes, Brightness/ Contrast, Auto Adjust, Input Source, Aspect Ratio, Volume, to set the shortcut key 2.
	Power Button LED	Allow you to set the power LED indicator On in On Mode or Off in On Mode to save energy.
	Reset Personalization	Allow you to restore shortcut key to the default setting.
	Others	
	Display Info	<p>Press to display the information about the display.</p> 

Icon	Menu and submenus	Description
	DDC/CI	<p>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.</p>  <p>The screenshot shows the 'Dell 24 Monitor' OSD menu. The left sidebar lists options: Brightness / Contrast, Auto Adjust, Input Source, Color, Display, Audio, Menu, Personalize, and Others. The main menu items are: Display Info, DDC/CI (highlighted in blue with a checkmark and 'On' next to it), LCD Conditioning (with 'Off' next to it), Service Tag, Reset Others, and Factory Reset. Navigation arrows are visible at the bottom right.</p>
	LCD Conditioning	<p>Help reduce minor cases of image retention. Depending on the degree of image retention, the program may take some time to run. To start LCD Conditioning, select On.</p>  <p>The screenshot shows the 'Dell 24 Monitor' OSD menu. The left sidebar lists options: Brightness / Contrast, Auto Adjust, Input Source, Color, Display, Audio, Menu, Personalize, and Others. The main menu items are: Display Info, DDC/CI, LCD Conditioning (highlighted in blue with a checkmark and 'On' next to it), Service Tag (with 'Off' next to it), Reset Others, and Factory Reset. Navigation arrows are visible at the bottom right.</p>

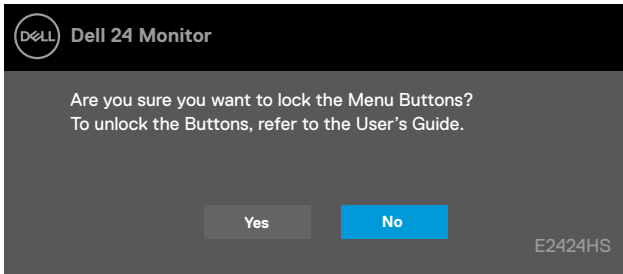
Icon	Menu and submenus	Description
	Service Tag	<p>Display the Service Tag number of the monitor.</p>  <p>The screenshot shows the 'Dell 24 Monitor' OSD menu. The left sidebar lists: Brightness / Contrast, Auto Adjust, Input Source, Color, Display, Audio, Menu, Personalize, and Others. The main menu items are: Display Info, DDC/CI (with a right arrow), LCD Conditioning (with a right arrow), Service Tag (highlighted in blue), Reset Others, and Factory Reset. The ENERGY STAR logo is visible at the bottom right. Four navigation icons (up, down, left, right) are at the bottom right of the screen.</p>
	Reset Others	<p>Reset all settings under the Others setting menu to the factory default.</p>
	Factory Reset	<p>Restore all preset values to the factory default setting. These are also the settings for ENERGY STAR® tests.</p>  <p>The screenshot shows the 'Dell 24 Monitor' OSD menu. The left sidebar lists: Brightness / Contrast, Auto Adjust, Input Source, Color, Display, Audio, Menu, Personalize, and Others. The main menu items are: Display Info, DDC/CI (with a right arrow), LCD Conditioning (with a right arrow), Service Tag (with a right arrow), Factory Reset (highlighted in blue), and Reset Others. The ENERGY STAR logo is visible at the bottom right. Four navigation icons (up, down, left, right) are at the bottom right of the screen.</p>

OSD warning messages

The following Power Warning Message box applies to Brightness functions for the first time when you adjust the Brightness level above the default level.

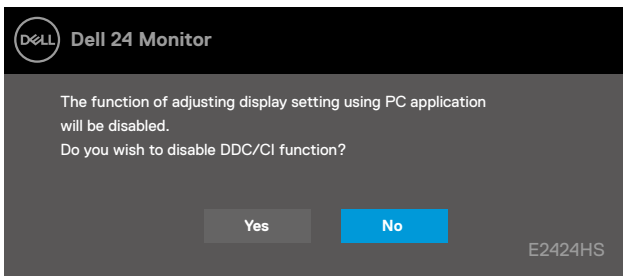


Before the Lock function is activated, the following message is displayed.

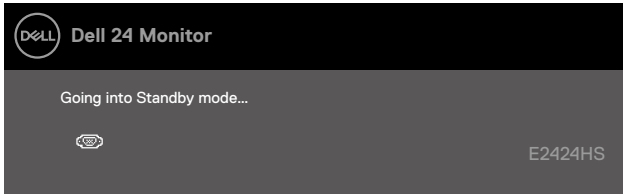


NOTE: The message may be slightly different according to the selected settings.

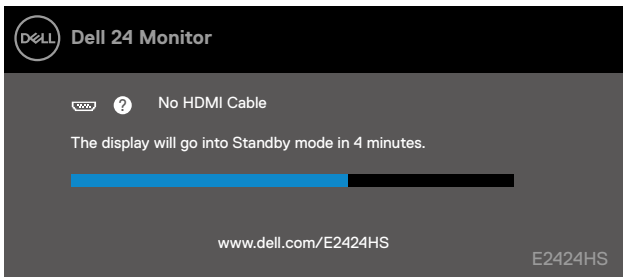
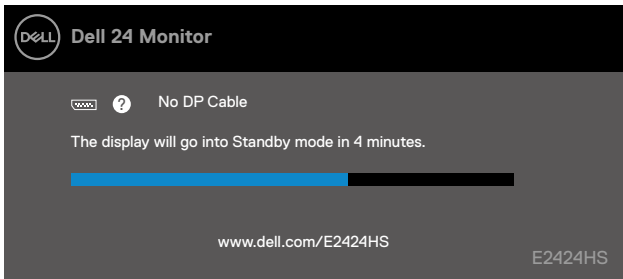
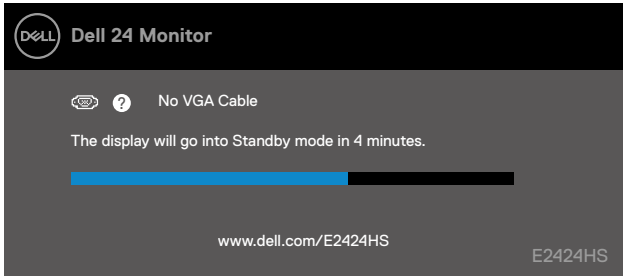
Before the DDC/CI function is disabled, the following message is displayed.



When the monitor enters Standby mode, the following message appears.



If VGA or DP or HDMI cable is not connected, a floating dialog box appears. The monitor will enter Standby mode after 4 minutes if left at this state.



See [Troubleshooting](#) for more information.

Setting up display resolution on your monitor

Setting display resolution to 1920 x 1080

For best performance, set the display resolution to 1920 x 1080 pixels by performing the following steps:

In Windows 7:

1. Right-click on the desktop and click **Screen Resolution**.
2. Click the drop-down menu of the **Screen Resolution** and select 1920 x 1080.
3. Click **OK**.

In Windows 8 or Windows 8.1:

1. Select the Desktop tile to switch to classic desktop.
2. Right-click on the desktop and click **Screen Resolution**.
3. Click the drop-down menu of the **Screen Resolution** and select 1920 x 1080.
4. Click **OK**.

In Windows 10 or Windows 11:

1. Right-click on the desktop and click **Display Settings**.
2. Click **Advanced Display Settings**.
3. Click the drop-down menu under **Resolution** and select 1920 x 1080.
4. Click **Apply**.

If you do not see the recommended resolution as an option, you may need to update your graphics driver. Use one of the following methods to update the graphics driver:

Dell computer

1. Go to <https://www.dell.com/support>, enter your service tag, and download the latest driver for your graphics card.
2. After installing the drivers for your graphics adapter, attempt to set the resolution to 1920 x 1080 again.

 **NOTE: If you are unable to set the resolution to 1920 x 1080, please contact Dell to enquire about a graphics adapter that supports these resolutions.**

Non-Dell computer

In Windows 7:


1. Right-click on the desktop and click **Personalization**.
2. Click **Change Display Settings**.
3. Click **Advanced Settings**.
4. Identify your graphics controller supplier from the description at the top of the window. For example, NVIDIA, AMD, Intel, and so on.
5. Refer to the graphic card provider website for updated driver. For example, <https://www.AMD.com> or <https://www.NVIDIA.com>.
6. After installing the drivers for your graphics adapter, attempt to set the resolution to 1920 x 1080 again.

In Windows 8 or Windows 8.1:

1. Select the Desktop tile to switch to classic desktop.
2. Right-click on the desktop and click **Personalization**.
3. Click **Change Display Settings**.
4. Click **Advanced Settings**.
5. Identify your graphics controller supplier from the description at the top of the window. For example, NVIDIA, AMD, Intel, and so on.
6. Refer to the graphic card provider website for updated driver. For example, <https://www.AMD.com> or <https://www.NVIDIA.com>.
7. After installing the drivers for your graphics adapter, attempt to set the resolution to 1920 x 1080 again.

In Windows 10 or Windows 11:

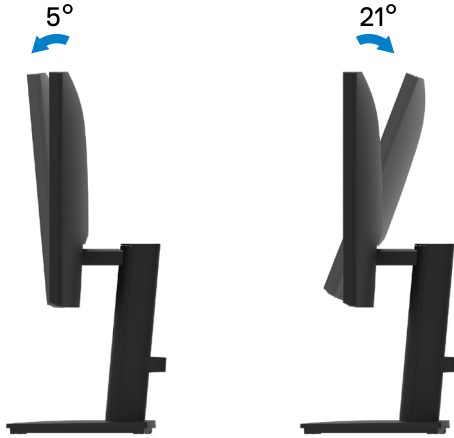
1. Right-click on the desktop and click **Display Settings**.
2. Click **Advanced display settings**.
3. Click **Display adapter properties**.
4. Identify your graphics controller supplier from the description at the top of the window. For example, NVIDIA, AMD, Intel, and so on.
5. Refer to the graphic card provider website for updated driver. For example, <https://www.AMD.com> or <https://www.NVIDIA.com>.
6. After installing the drivers for your graphics adapter, attempt to set the resolution to 1920 x 1080 again.

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

Using tilt

You can tilt the monitor for the most comfortable viewing angle.

 **NOTE:** The stand is not attached when the monitor is shipped from the factory.



Troubleshooting

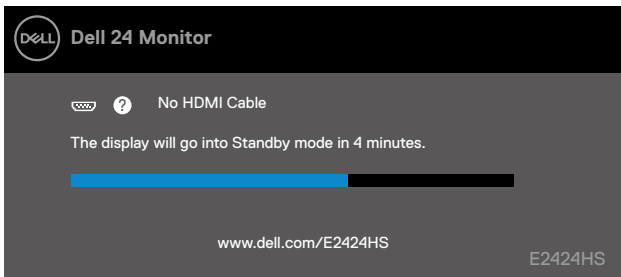
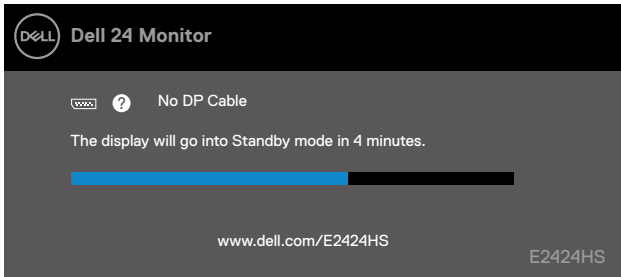
⚠ WARNING: Before you begin any of the procedures in this section, follow the [Safety instructions](#).

Self-test

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

1. Turn off both your computer and the monitor.
2. Disconnect 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 message appears. While in self-test mode, the power LED remains white.



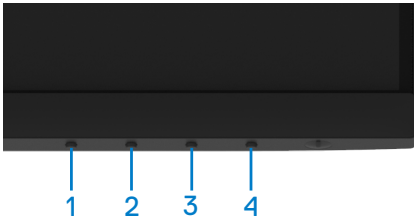
✍ NOTE: This message also appears during normal operation, when the video cable is disconnected or damaged.

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

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



Built-in diagnostics

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



Label	Description
1	Button 1
2	Button 2
3	Button 3
4	Button 4

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 about 4 seconds and wait for a pop up menu.
3. Use **Button 1** or **2** to select the  and press  to confirm.

A gray test pattern appears at the beginning of the diagnostic program.

4. Carefully inspect the screen for abnormalities.
5. Press **Button 1** to change the test patterns.
6. Repeat steps 4 and 5 to inspect the display in red, green, blue, black, white and text screens.
7. When in White color test screen, check for white color uniformity and if there white color appears greenish/reddish, etc.
8. Press **Button 1** to end the diagnostic program.

Common problems

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

Common symptoms	Possible solutions
No video/Power LED off	<ul style="list-style-type: none">• Ensure that the video cable connecting the monitor and the computer is properly connected and secure.• Verify that the power outlet is functioning properly using any other electrical equipment.• Ensure that the power button is pressed.• Ensure that the correct input source is selected via the Input Source menu.
No video/Power LED on	<ul style="list-style-type: none">• Increase brightness and contrast controls using the OSD.• Perform monitor self-test feature check.• Check for bent or broken pins in the video cable connector.• Run the built-in diagnostics.• Ensure that the correct input source is selected via the Input Source menu.
Poor focus	<ul style="list-style-type: none">• Eliminate video extension cables.• Reset the monitor to Factory Settings (Factory Reset).• Change the video resolution to the correct aspect ratio.
Shaky/Jittery video	<ul style="list-style-type: none">• Reset the monitor to Factory Settings (Factory Reset).• Check environmental factors.• Relocate the monitor and test in another room.
Missing pixels	<ul style="list-style-type: none">• Cycle power On-off.• Pixel that is permanently off is a natural defect that can occur in LCD technology.• For more information about Dell Monitor Quality and Pixel Policy, see Dell Support site at: www.dell.com/pixelguidelines.
Stuck-on pixels	<ul style="list-style-type: none">• Cycle power On-off.• Pixel that is permanently off is a natural defect that can occur in LCD technology.• For more information about Dell Monitor Quality and Pixel Policy, see Dell Support site at: www.dell.com/pixelguidelines.
Brightness problems	<ul style="list-style-type: none">• Reset the monitor to Factory Settings (Factory Reset).• Adjust brightness and contrast controls using OSD.
Geometric distortion	<ul style="list-style-type: none">• Reset the monitor to Factory Settings (Factory Reset).• Adjust horizontal and vertical using OSD.
Horizontal/Vertical lines	<ul style="list-style-type: none">• Reset the monitor to Factory Settings (Factory Reset).• Perform monitor self-test feature check and determine if these lines are also in self-test mode.• Check for bent or broken pins in the video cable connector.• Run the built-in diagnostics.

Common symptoms	Possible solutions
Synchronization problems	<ul style="list-style-type: none"> • Reset the monitor to Factory Settings (Factory Reset). • Perform monitor self-test feature check to determine if the scrambled screen appears in self-test mode. • Check for bent or broken pins in the video cable connector. • Restart the computer in safe mode.
Safety related issues	<ul style="list-style-type: none"> • Do not perform any troubleshooting step. • Contact Dell immediately.
Intermittent problems	<ul style="list-style-type: none"> • 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/YPbPr in the Color settings OSD. • Run the built-in diagnostics.
Missing color	<ul style="list-style-type: none"> • Perform monitor self-test feature check. • Ensure that the video cable connecting the monitor to the computer is connected properly and is secure. • Check for bent or broken pins in the video cable connector.
Wrong color	<ul style="list-style-type: none"> • 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/YPbPr in the Color settings OSD. • Run the built-in diagnostics.
Image retention from a static image left on the monitor for a long period of time	<ul style="list-style-type: none"> • Set the screen to turn off after a few minutes of screen idle time. These can be adjusted in Windows Power Options or Mac Energy Saver setting. • Alternatively, use a dynamically changing screensaver.
Video ghosting or overshooting	<ul style="list-style-type: none"> • Change the Response Time in the Display OSD to Fast or Normal depending on your application and usage.

Product-specific problems

Specific symptoms	Possible solutions
Screen image is too small	<ul style="list-style-type: none">• Check the Aspect Ratio setting in the Display settings OSD.• Reset the monitor to Factory Settings (Factory Reset).
Cannot adjust the monitor with the buttons on the bottom of the panel	<ul style="list-style-type: none">• Turn off the monitor, unplug the power cord, plug it back, and then turn on the monitor.• Check if the OSD menu is locked. If yes, press and hold the Exit button (button 4) for four seconds to unlock.
No input signal when user controls are pressed	<ul style="list-style-type: none">• Check the signal source. Ensure that the computer is not in standby or sleep mode by moving the mouse or pressing any key on the keyboard.• Check if the video cable is plugged in properly. Disconnect and reconnect the video cable if necessary.• Reset the computer or video player.
The picture does not fill the entire screen	<ul style="list-style-type: none">• Due to different video formats (aspect ratio) of DVDs, the monitor may display in full screen.• Run the built-in diagnostics.

Appendix

FCC Notices (U.S. Only) and Other Regulatory Information

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

Install your monitor near a power outlet that you can easily reach. Disconnect the monitor by grasping the plug firmly and pulling it from the outlet. Never disconnect the monitor by pulling the cord.

Contact Dell

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

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

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

To get online Monitor support content, visit <https://www.dell.com/support/monitors>. To contact Dell for sales, technical support, or customer service issues:

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

EU product database for energy label and product information sheet

E2424HS: <https://eprel.ec.europa.eu/qr/1294066>