




# Dell D3218HN User's Guide

Regulatory model: D3218HN0



# 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

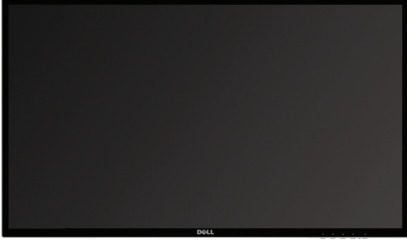




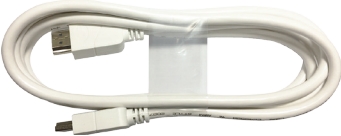

This monitor is manufactured and tested on a ground principle that a user's safety comes first. However, improper use or installation may result in danger to the user, damage to the monitor, or both. Use the following safety guidelines to protect your monitor from potential damage and ensure your personal safety.

-  **WARNING:** This monitor should be operated only with a correct power source as indicated at the label on the rear of the monitor. For more information on the power source you are using, contact your power service provider.
-  **WARNING:** You should only perform troubleshooting and repairs as authorized or directed by the Dell technical assistance team. Damage due to servicing that is not authorized by Dell is not covered by your warranty.
-  **WARNING:** To avoid electric shock, do not attempt to remove any cover or touch the inside of the monitor. Only a qualified service technician should open the monitor cover.
-  **WARNING:** Stop using the monitor if the cover is damaged. Have it checked by a service technician.
-  **WARNING:** Place the monitor on a flat, soft, and clean surface. If there is a liquid spill on the monitor, unplug the monitor from the power source and contact Dell for assistance.
-  **WARNING:** Before you clean your monitor, disconnect it from the electrical outlet. Clean your monitor with a soft cloth dampened with water or non-ammonia based cleaner.
-  **WARNING:** Keep the monitor away from magnetic objects, motors, TV sets, and electrical transformers.
-  **WARNING:** Do not place heavy objects on the cables.
-  **WARNING:** For monitors with reflective screens, position the monitor such that glares caused by other light sources are avoided.
-  **WARNING:** When you purchase a VESA wall mount, ensure it is UL-listed and that only a qualified service technician installs it.

# About your monitor

## Package contents

Your monitor ships with the components shown below. Make sure that you have received all the components and contact Dell if something is missing.

	Monitor
	Stand base
	Screws
	Power cable (varies by country)
	VGA cable (USA, India)
	HDMI cable (Asia) (Support up to 1080p @ 60Hz)
	<ul style="list-style-type: none"><li>• Drivers and documentation media</li><li>• Quick Setup Guide</li><li>• Safety and Regulatory Information</li></ul>

# Technical specifications

## Monitor specifications

<b>LCD Panel</b>	80.0 cm (31.5") TFT (with LED back light)
<b>Power Management</b>	VESA DPMS compatible Off Mode, < 0.4 W Power Saving Mode, < 0.4 W
<b>Displayable Resolution</b>	Full HD, 1920 x 1080 max. Vertical Frequency, 60Hz max.
<b>Pixel Dimension</b>	0.36375 x 0.36375 mm
<b>Color gamut</b>	84 % of NTSC (CIE1976)
<b>Color Depth</b>	16.7 Million
<b>Brightness</b>	300 cd/m <sup>2</sup> (typical)
<b>Contrast Ratio</b>	1200:1 (typical)
<b>Viewing Angle</b>	178° (Horizontal) typical 178° (Vertical) typical
<b>Response Time</b>	8 ms typical (white to black, black to white)
<b>Connectivity</b>	1 x VGA 1 x HDMI 1.4
<b>Active Display Area</b>	698.4 x 392.85mm
<b>Tilt</b>	-5°~10°(±2°)
<b>VESA mount support</b>	100 x 100mm
<b>Dimension (with stand)</b>	
<b>Height</b>	48.4 cm (18.94 inches)
<b>Width</b>	73.0 cm (28.73 inches)
<b>Depth</b>	21.0 cm (8.27 inches)
<b>Weight</b>	
<b>without packaging</b>	7.3 kg (16.09 lb)
<b>with packaging</b>	9.5 kg (20.94 lb)
<b>Temperature</b>	Operating: 0°C ~ + 40°C Storage: -20°C ~ + 60°C
<b>Compliance</b>	FCC, cTUVus, Energy Star, KC, E-Standby, VCCI, PSE
<b>Power</b>	Input Voltage AC100-240 V

- \* Optimize eye comfort with a flicker-free screen.
- \* 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.

**NOTE:** For information on the refresh rate (vertical frequency) of the graphics card, see the documentation that shipped with the graphics card.

## 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 power save mode\*. If the computer detects input from the keyboard, mouse, or other input devices, the monitor automatically resumes functioning. The following table shows the power consumption and signaling of this automatic power saving feature.

VESA Modes	Horizontal Sync	Vertical Sync	Video	Power Indicator	Power Consumption
Normal operation	Active	Active	Active	White	50 W (maximum)** 45 W (typical)
Active-off mode	Inactive	Inactive	Off	Orange	Less than 0.4 W
Switch off	-	-	-	Off	Less than 0.4 W

Energy Star	Power Consumption
P <sub>ON</sub>	22.4 W***
E <sub>TEC</sub>	70.0 kWh****

\*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.

\*\*\*Power consumption of on mode as defined in Energy Star 7.0 version.

\*\*\*\*Total energy consumption in kWh as defined in Energy Star 7.0 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.

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



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

# Supported resolutions and refresh rates

**⚠ WARNING:** Do not set the graphics card on your computer to exceed these maximum refresh rates. Doing so may result in permanent damage to your monitor.

VGA	720 x 400 @ 70Hz
VGA	640 x 480 @ 60Hz
VESA	640 x 480 @ 75Hz
VESA	800 x 600 @ 60Hz
VESA	800 x 600 @ 75Hz
VESA	1024 x 768 @ 60Hz
VESA	1024 x 768 @ 75Hz
VESA	1152 x 864 @ 75Hz
VESA	1280 x 1024 @ 60Hz
VESA	1280 x 1024 @ 75Hz
VESA	1600 x 900 @ 60Hz
VESA	1920 x 1080 @ 60Hz

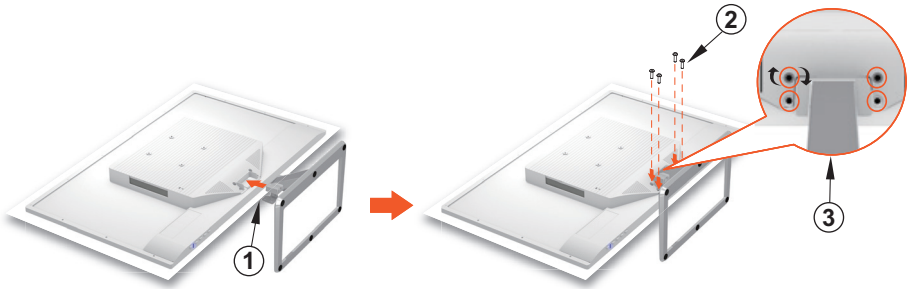
**\*The following resolutions are supported only with a HDMI source:**

480i @ 60Hz
480p @ 60Hz
576i @ 50Hz
576p @ 50Hz
720p @ 50Hz / 720p @ 60Hz
1080p @ 60Hz



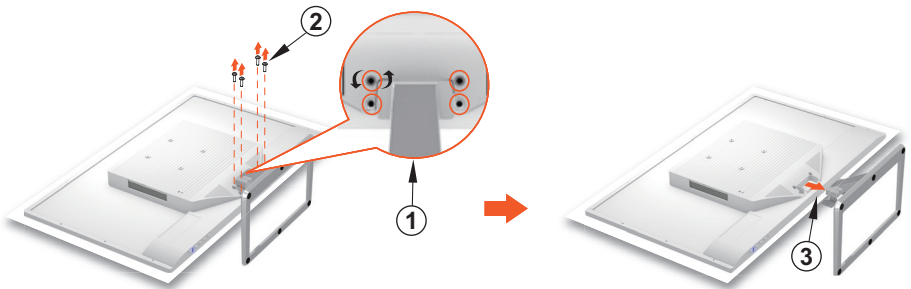
# Setting up the monitor

## Attaching the stand



1. Place the monitor face down on a flat and clean surface.
2. Align the screw holes on the monitor with the screw holes on the stand.
3. Replace the four screws that secure the monitor to the base. Tighten the screws firmly.

## Removing the stand



1. Place the monitor face down on a flat and clean surface.
2. Remove the four screws that secure the monitor to the stand.
3. Remove the stand.

# Connecting Your Monitor

## 1. Connect the video cable

Ensure both monitor and computer are turned off. Connect one end of the video cable (optional) to the computer, and then connect the other end to the respective port on the monitor.

## 2. Connect the power cord

Connect the power cord to a properly-grounded AC outlet, and then to the monitor.

## 3. Turn on the monitor

Press the power button to turn on the monitor.

## 4. Set the resolution and refresh rate in Microsoft Windows

### • Windows 7

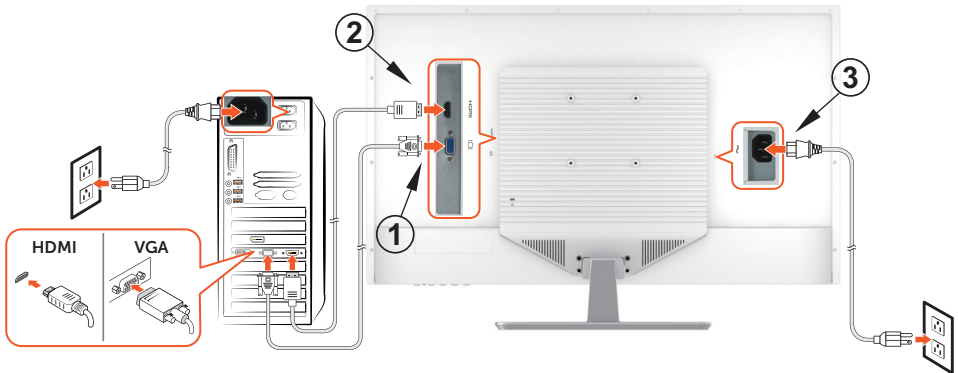
- i) Right-click on the desktop, and then click **Screen resolution > Resolution**.
- ii) Set the appropriate resolution.

### • Windows 8 or Windows 8.1

- i) Select the desktop tile to switch to classic desktop mode.
- ii) Right-click on the desktop, and then click **Screen resolution > Resolution**.
- iii) Set the appropriate resolution.

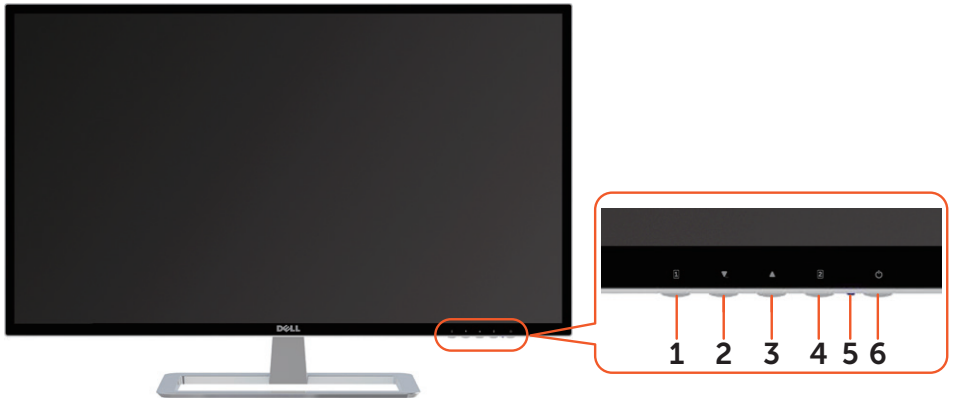
### • Windows 10

- i) Right-click on the desktop, and then click **Display settings > Advanced display settings > Resolution**.
- ii) Set the appropriate resolution.

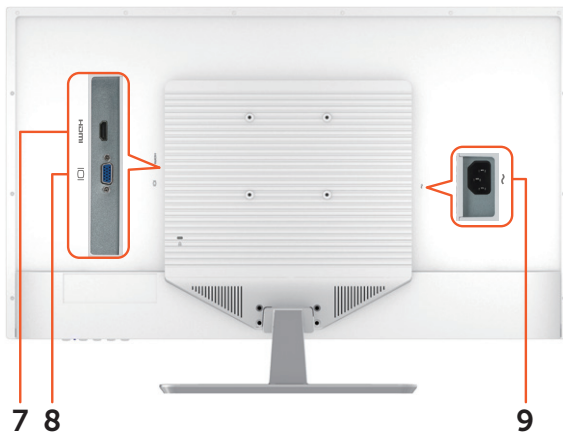


# Parts and controls

## Front view



## Back view



1		OSD Menu On/Off	6		Power ON/OFF
2		Scroll Down/ Decrease/ Contrast/Brightness menu	7		HDMI input (HDMI 19 pin)
3		Scroll Up/ Increase/ Color Vision Mode select	8		VGA input (D-Sub 15 pin)
4		Confirm Select/ Input Select	9		Power input
5		LED Indicator			

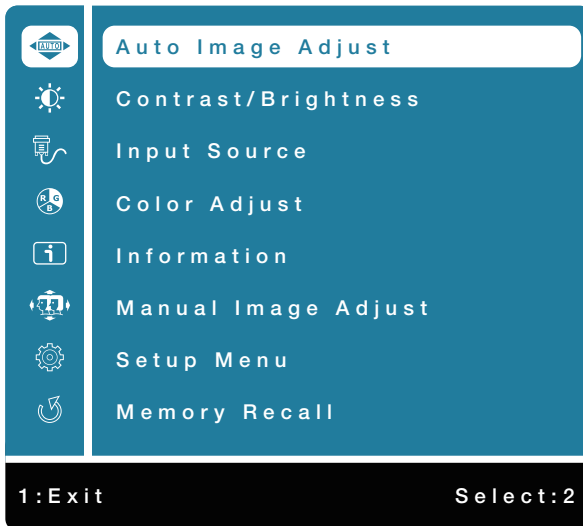
# Using On Screen Display (OSD) Functions


















Your monitor's settings are adjusted with the following buttons:





Button	Function
1	Display main menu
	Exit from main menu
2	Manual adjust mode select for VGA, HDMI mode
▲	Select the desired item when in OSD menu
	When not in OSD menu, directly enters Color Vision Mode
▼	Select the desired item when in OSD menu
	When not in OSD menu, directly enters Contrast/Brightness menu
▲+▼	Recall both Contrast and Brightness (when not in OSD menu)
1+▼	Power Lock, press 10 seconds to lock, repeat press 10 seconds to unlock(when not in OSD menu)
1+▲	OSD Lock, press 10 seconds to lock, repeat press 10 seconds to unlock(when not in OSD menu)






## The main menu

Use the monitor's menu to make adjustments:



Menu item	Description
	<b>Auto Image Adjust</b> Adjust the Horizontal Position, Vertical Position, Phase (Fine Tune) and Clock (H. Size) of the screen.  <b>NOTE:</b> Only available for VGA input.
	<b>Contrast/Brightness</b> Adjust the Contrast, Brightness, DCR and ECO of screen image. <ul style="list-style-type: none"> <li data-bbox="135 300 1039 339">• <b>Contrast</b> Adjust the foreground white level of screen image.</li> <li data-bbox="135 339 1039 379">• <b>Brightness</b> Adjust the luminance of the video.</li> <li data-bbox="135 379 1039 520">• <b>DCR</b> Detects the distribution of the visual signal input, and creates an optimized contrast.   <b>NOTE:</b> Brightness and ECO adjustment are disabled when DCR is active.</li> <li data-bbox="135 520 1039 655">• <b>ECO</b> Allows the user to change the energy-saving settings.   <b>NOTE:</b> Brightness and DCR adjustment are disabled when ECO is active.</li> </ul>
	<b>Input Source</b> Press Input Source to change the input signal to VGA or HDMI.
	<b>Color Adjust</b> Toggle between preset color settings such as Cool, Normal, Warm and User Color. <ul style="list-style-type: none"> <li data-bbox="135 802 1039 842">• <b>Cool</b> Adds blue to screen image for cooler white.</li> <li data-bbox="135 842 1039 914">• <b>Normal</b> Adds red to screen image for warmer white and richer red.</li> <li data-bbox="135 914 1039 954">• <b>Warm</b> Adds green to screen image for a darker color.</li> <li data-bbox="135 954 1039 1098">• <b>User Color</b> Manually adjust settings for Red (R), Green (G), Blue (B).            1. Press button  to select the desired color.            2. Press  or  button to adjust selected color.         </li> </ul>
	<b>Information</b> Displays information about the input signal coming from the graphics card in your computer.
	<b>Manual Image Adjust</b> Manually adjust H. / V. Position, Horizontal Size, Fine Tune, Sharpness, Aspect Ratio and Color Vision Mode. <ul style="list-style-type: none"> <li data-bbox="135 1244 1039 1469">• <b>H. / V. Position</b> Adjust the horizontal and vertical position of the video.               <ul style="list-style-type: none"> <li>• H. Position:  : move screen to the right,  : move screen to the left.</li> <li>• V. Position:  : move screen up,  : move screen down.</li> </ul>  <b>NOTE:</b> Only available for VGA input.             </li> </ul>

	<ul style="list-style-type: none"> <li>• <b>Horizontal Size</b></li> </ul>	<p>Adjust the width of the screen image.  ▲ : increase the width of screen image,  ▼ : decrease the width of screen image.   <b>NOTE:</b> Only available for VGA input.</p>
	<ul style="list-style-type: none"> <li>• <b>Fine Tune</b></li> </ul>	<p>Adjust the delay time of data and clock.  Press ▲ or ▼ to adjust to your preference.   <b>NOTE:</b> Only available for VGA input.</p>
	<ul style="list-style-type: none"> <li>• <b>Sharpness</b></li> </ul>	<p>Adjust the clarity of a non-Full HD resolution signal with ▲ or ▼ button.</p>
	<ul style="list-style-type: none"> <li>• <b>Aspect Ratio</b></li> </ul>	<p>Toggles the video mode between Full Screen or 4:3.</p>
	<ul style="list-style-type: none"> <li>• <b>Color Vision Mode</b></li> </ul>	<p>Provides an optimum display environment depending on the contents displayed. It contains 6 user-selectable presets.</p> <ul style="list-style-type: none"> <li>• <b>Standard:</b> For general Windows environment and the default setting.</li> <li>• <b>Game:</b> For optimal PC gaming.</li> <li>• <b>Cinema:</b> For optimal movie and video viewing.</li> <li>• <b>Scenery:</b> Optimized for displaying outdoor scenery images.</li> <li>• <b>Text:</b> Optimized for displaying text.</li> <li>• <b>ComfortView:</b> To decrease the blue light emitted from the display to reduce the risk of blue light exposure to your eyes.</li> </ul> <p><b>Notes on DELL low blue light model</b></p> <ul style="list-style-type: none"> <li>• Optimize eye comfort with a flicker-free screen</li> <li>• The possible long-term effects of blue light emission from the monitor may cause damage to the eyes, including eye fatigue, digital eye strain, and so on. ComfortView feature is designed to reduce the amount of blue light emitted from the monitor to optimize eye comfort.</li> </ul> <p> <b>WARNING:</b> 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.</p>

	<ul style="list-style-type: none"> <li>• <b>Color Vision Mode</b></li> </ul>	<p>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:</p> <ol style="list-style-type: none"> <li>1. Set the distance of the screen between 20 inches to 28 inches (50cm-70cm) from your eyes.</li> <li>2. Blink frequently to moisten your eyes or wet your eyes with water after prolonged usage of the monitor.</li> <li>3. Take regular and frequent breaks for 20 minutes every two hours.</li> <li>4. Look away from your monitor and gaze at a distant object at 20 feet away for at least 20 seconds during the breaks.</li> <li>5. Perform stretches to relieve tension in the neck, arm, back, and shoulders during the breaks.</li> </ol> <p> <b>NOTE:</b> Contrast/Brightness and Color Adjust adjustment are disabled when Color Vision Mode is active.</p>
	<ul style="list-style-type: none"> <li>• <b>Setup Menu</b></li> <li>• <b>Language Select</b></li> <li>• <b>OSD Position</b></li> <li>• <b>OSD Timeout</b></li> <li>• <b>OSD Background</b></li> </ul>	<p>Setup Language Select, OSD Position, OSD Timeout and OSD Background.</p> <p>Allow users to choose from available languages below: English, Français, Español, 日本語, 한국어, 简体中文, 繁體中文.</p> <p>Press ▲ or ▼ button to select between horizontal and vertical OSD position adjustment.</p> <ul style="list-style-type: none"> <li>• H. Position: To horizontally adjust the OSD position. ▲: move OSD to the right, ▼: move OSD to the left.</li> <li>• V. Position: To vertically adjust the OSD position. ▲: move OSD up, ▼: move OSD down.</li> </ul> <p>To automatically turn off On Screen Display (OSD) after a preset period of time.</p> <p>Allows the user to turn the OSD background On or Off.</p>
	<ul style="list-style-type: none"> <li>• <b>Memory Recall</b></li> </ul>	<p>To recall factory settings for Video controls. Press button  to select the Memory Recall menu option.</p>

# Maintenance guidelines

## Care

- Avoid exposing your monitor directly to sunlight or other heat source. Place your monitor away from the sun to reduce glare.
- Place your monitor in a well-ventilated area.
- Do not place any heavy objects on top of your monitor.
- Ensure your monitor is installed in a clean and moisture-free area.
- Keep your monitor away from magnets, motors, transformers, speakers, and TV sets.

## Troubleshooting

### No power

- Ensure that the power cable connecting the monitor and the wall outlet is properly connected and secure.
- Plug another electrical device into the power outlet to verify that the outlet is supplying proper voltage.
- Ensure that the video cable connecting the monitor and the computer is properly connected and secure.

### No video/power light turned on

- Make sure the video cable supplied with the monitor is tightly secured to the video output port on back of the computer. If not, tightly secure it.
- Adjust brightness.

### Wrong or abnormal colors



- If any colors (red, green, blue) are missing, check the video cable to make sure it is securely connected. Check for bent or broken pins in the video cable connector.
- Connect the monitor to another computer.



# Appendix

## Contacting Dell

To contact Dell for sales, technical support, or customer service issues, see [www.dell.com/contactdell](http://www.dell.com/contactdell).

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