Technical specifications

Monitor specifications

LCD Panel	80.0 cm (31.5") TFT (with LED back light)
Power Management	VESA DPMS compatible Off Mode, < 0.4 W Power Saving Mode, < 0.4 W
Displayable Resolution	Full HD, 1920 x 1080 max. Vertical Frequency, 60Hz max.
Pixel Dimension	0.36375 x 0.36375 mm
Color gamut	84 % of NTSC (CIE1976)
Color Depth	16.7 Million
Brightness	300 cd/m^2 (typical)
Contrast Ratio	1200:1 (typical)
Viewing Angle	178° (Horizontal) typical 178° (Vertical) typical
Response Time	8 ms typical (white to black, black to white)
Connectivity	1 x VGA 1 x HDMI 1.4
Active Display Area	698.4 x 392.85mm
Tilt	-5°~10°($\pm$2°)
VESA mount support	100 x 100mm
Dimension (with stand)	
Height	48.4 cm (18.94 inches)
Width	73.0 cm (28.73 inches)
Depth	21.0 cm (8.27 inches)
Weight	
without packaging	7.3 kg (16.09 lb)
with packaging	9.5 kg (20.94 lb)
Temperature	Operating: 0°C ~ + 40°C Storage: -20°C ~ + 60°C
Compliance	FCC, cTUVus, Energy Star, KC, E-Standby, VCCI, PSE
Power	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_{ON}	22.4 W***
E_{TEC}	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
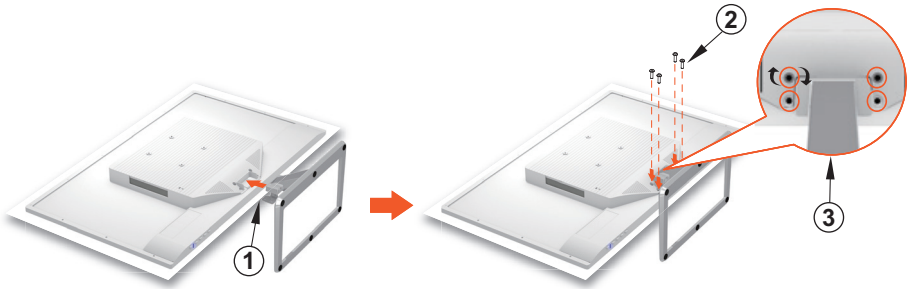
1. Place the monitor face down on a flat and clean surface.
2. Align the screw holes on the monitor with the screw holes on the stand.
3. Replace the four screws that secure the monitor to the base. Tighten the screws firmly.

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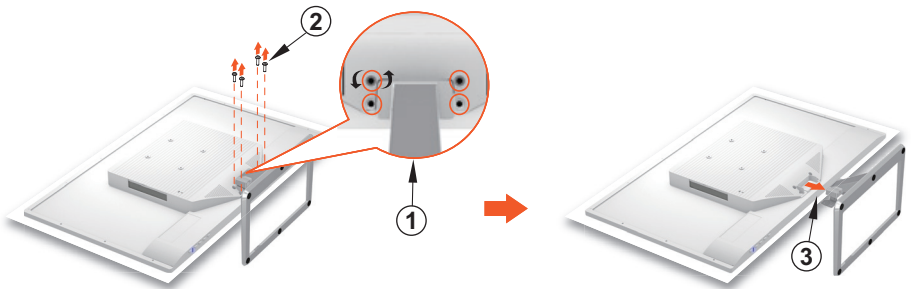
1. Place the monitor face down on a flat and clean surface.
2. Remove the four screws that secure the monitor to the stand.
3. Remove the stand.

Connecting Your Monitor

1. **Connect the video cable**

   Ensure both monitor and computer are turned off. Connect one end of the VGA or HDMI 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.
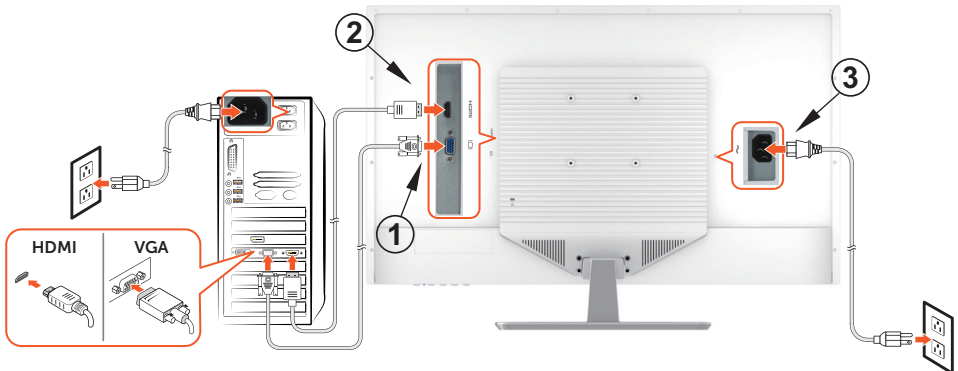
Parts and controls

Front view
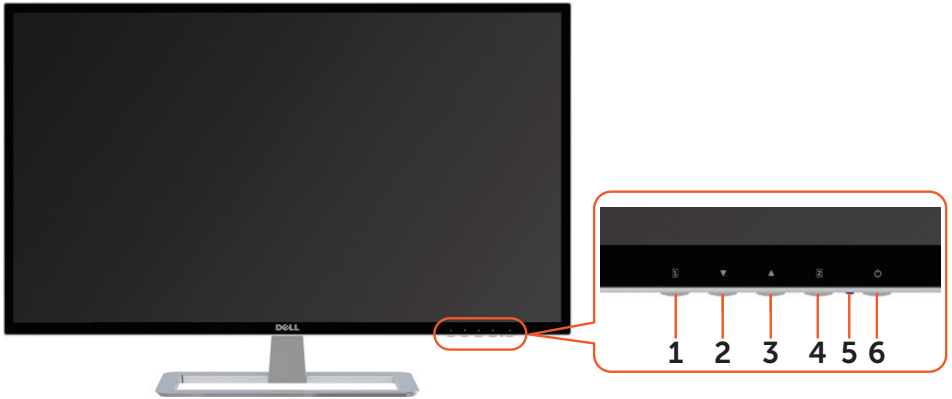
Back view

1	⬛1	OSD Menu On/Off	6	⏻	Power ON/OFF
2	▼	Scroll Down/ Decrease/ Contrast/Brightness menu	7	HDMI	HDMI input (HDMI 19 pin)
3	▲	Scroll Up/ Increase/ Color Vision Mode select	8	▯□▯	VGA input (D-Sub 15 pin)
4	2	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
1	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:

Auto Image Adjust

Contrast/Brightness

Input Source

Color Adjust

Information

Manual Image Adjust

Setup Menu

Memory Recall

1:Exit   Select:2

Menu item	Description
◆▤◆ Auto Image Adjust	Adjust the Horizontal Position, Vertical Position, Phase (Fine Tune) and Clock (H. Size) of the screen. ✍ NOTE: Only available for VGA input.
☀ Contrast/Brightness	Adjust the Contrast, Brightness, DCR and ECO of screen image.
• Contrast	Adjust the foreground white level of screen image.
• Brightness	Adjust the luminance of the video.
• DCR	Detects the distribution of the visual signal input, and creates an optimized contrast. ✍ NOTE: Brightness and ECO adjustment are disabled when DCR is active.
• ECO	Allows the user to change the energy-saving settings. ✍ NOTE: Brightness and DCR adjustment are disabled when ECO is active.
▤ Input Source	Press Input Source to change the input signal to VGA or HDMI.
ⓡⓖⓑ Color Adjust	Toggle between preset color settings such as Cool, Normal, Warm and User Color.
• Cool	Adds blue to screen image for cooler white.
• Normal	Adds red to screen image for warmer white and richer red.
• Warm	Adds green to screen image for a darker color.
• User Color	Manually adjust settings for Red (R), Green (G), Blue (B). 1. Press button ② to select the desired color. 2. Press ▼ or ▲ button to adjust selected color.
ⓘ Information	Displays information about the input signal coming from the graphics card in your computer.
⬗ Manual Image Adjust	Manually adjust H. / V. Position, Horizontal Size, Fine Tune, Sharpness, Aspect Ratio and Color Vision Mode.
• H. / V. Position	Adjust the horizontal and vertical position of the video. • H. Position: ▲: move screen to the right, ▼: move screen to the left. • V. Position: ▲: move screen up, ▼: move screen down. ✍ NOTE: Only available for VGA input.

⊹⊕⊹	• **Horizontal Size**	Adjust the width of the screen image. ▲: increase the width of screen image, ▼: decrease the width of screen image. ✍ **NOTE:** Only available for VGA input.
	• **Fine Tune**	Adjust the delay time of data and clock. Press ▲ or ▼ to adjust to your preference. ✍ **NOTE:** Only available for VGA input.
	• **Sharpness**	Adjust the clarity of a non-Full HD resolution signal with ▲ or ▼ button.
	• **Aspect Ratio**	Toggles the video mode between Full Screen or 4:3.
	• **Color Vision Mode**	Provides an optimum display environment depending on the contents displayed. It contains 6 user-selectable presets. • **Standard:** For general Windows environment and the default setting. • **Game:** For optimal PC gaming. • **Cinema:** For optimal movie and video viewing. • **Scenery:** Optimized for displaying outdoor scenery images. • **Text:** Optimized for displaying text. • **ComfortView:** To decrease the blue light emitted from the display to reduce the risk of blue light exposure to your eyes. **Notes on DELL low blue light model** • 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, 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. ⚠ **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.

⚙️	• **Color Vision Mode**	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 inches to 28 inches (50cm-70cm) 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. 📝 **NOTE:** Contrast/Brightness and Color Adjust adjustment are disabled when Color Vision Mode is active.
⚙️	**Setup Menu**	Setup Language Select, OSD Position, OSD Time-out and OSD Background.
	• **Language Select**	Allow users to choose from available languages below: English, Français, Español, 日本語, 한국어, 简体中文, 繁體中文.
	• **OSD Position**	Press ▲ or ▼ button to select between horizontal and vertical OSD position adjustment. • H. Position: To horizontally adjust the OSD position. ▲: move OSD to the right, ▼: move OSD to the left. • V. Position: To vertically adjust the OSD position. ▲: move OSD up, ▼: move OSD down.
	• **OSD Timeout**	To automatically turn off On Screen Display (OSD) after a preset period of time.
	• **OSD Background**	Allows the user to turn the OSD background On or Off.
↺	**Memory Recall**	To recall factory settings for Video controls. Press button 2 to select the Memory Recall menu option.