Dell UltraSharp U3417W Monitor User's Guide

Model: U3417W

Regulatory model: U3417Wb

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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About Your Monitor

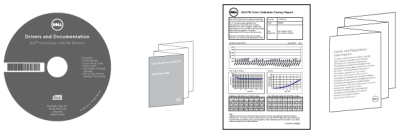
Package Contents

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

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

NOTE: To set up with any other stand, please refer to the respective stand setup guide for setup instructions.

	Monitor
	Stand Riser
	Stand Base

	Power Cable (Varies by Countries)
	HDMI Cable
	DP Cable (Mini-DP to DP)
	USB 3.0 Upstream Cable (Enables the USB Ports on the Monitor)
	• Drivers and Documentation Media • Quick Setup Guide • Factory Calibration Report • Safety, Environmental, and Regulatory Information

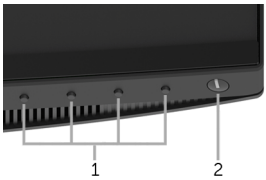
Product Features

The **Dell U3417W** flat panel display has an active matrix, Thin-Film Transistor (TFT), Liquid Crystal Display (LCD) and LED backlight. The monitor features include:

- 86.7 cm (34-inch) viewable area display (measured diagonally).
  3440 x 1440 resolution, plus full-screen support for lower resolutions.
- Wide viewing angle to allow viewing from a sitting or standing position.
- Tilt, swivel, and vertical extension adjustment capabilities.
- Ultra-thin bezel minimizes the bezel gap in multi-monitor usage, enabling easier set up with an elegant viewing experience.
- Removable stand and Video Electronics Standards Association (VESA™) 100 mm mounting holes for flexible mounting solutions.
- Plug and play capability if supported by your system.
- Color gamut of 99% sRGB with an average Delta E $\leq$ 3.
- On-Screen Display (OSD) adjustments for ease of set-up and screen optimization.
- Software and documentation media includes an Information File (INF), Image Color Matching File (ICM), and product documentation.
- Dell Display Manager Software included (comes in the CD shipped with the monitor).
- Security lock slot.
- Stand lock.
- Capability to switch from wide aspect to standard aspect ratio while maintaining the image quality.
- High Dynamic Contrast Ratio (5,000,000:1).
- 0.5 W standby power when in the sleep mode.
- Energy Gauge shows the energy level being consumed by the monitor in real time.
- Optimize eye comfort with a flicker-free screen and ComfortView feature which minimizes blue light emission.
- Supports Picture by Picture (PBP) and Picture in Picture (PIP) Select mode.

Identifying Parts and Controls

Front View



Front panel controls

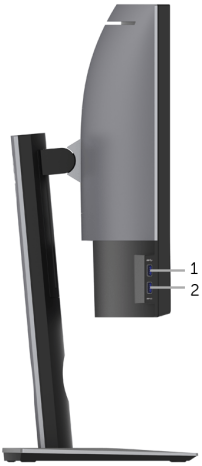
Label	Description
1	Function buttons (For more information, see Operating the Monitor)
2	Power On/Off button (with LED indicator)

Back View

Back view with monitor stand

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	Releases stand from monitor.
4	Barcode serial number label	Refer to this label if you need to contact Dell for technical support.
5	Cable management slot	Use to organize cables by placing them through the slot.

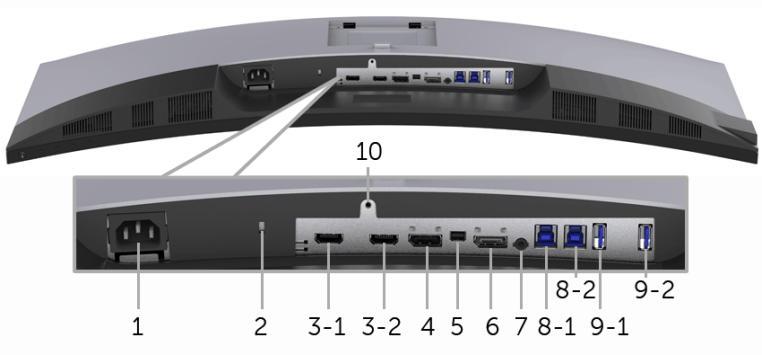
Side View



Label	Description	Use
1	USB downstream port	Connect your USB device. You can only use this connector after you have connected the USB cable to the computer and USB upstream connector on the monitor.*
2	USB downstream port with Power Charging	Connect to charge your device.

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

Bottom View



Bottom view without monitor stand

Label	Description	Use
1	AC power cord connector	Connect the power cable.
2	Security lock slot	Secures monitor with security lock (security lock not included).
3 (1, 2)	HDMI port connector	Connect your computer with HDMI cable.
4	DisplayPort in connector	Connect your computer with DP cable.
5	Mini DisplayPort in connector	Connect your computer with Mini-DP to DP cable.
6	DisplayPort out (MST) connector	DisplayPort output for MST (Multi-Stream Transport) capable monitor. DP 1.1 monitor can only be connected as the last monitor in the MST chain. To enable MST, refer to instruction on section "Connecting the monitor for DP Multi-Stream Transport (MST) function".
7	Audio-Line out	Connect your speakers.*
8 (1, 2)	USB upstream port	Connect the USB cable that came with your monitor to the computer. Once this cable is connected, you can use the USB connectors on the monitor.
9-1	USB downstream port	Connect your USB device. You can only use this connector after you have connected the USB cable to the computer and USB upstream connector on the monitor.**

9-2	USB downstream port with Power Charging	Connect to charge your device.
10	Stand lock feature	To lock the stand to the monitor using a M3 x 6 mm screw (screw not included).

* Headphone usage is not supported for the audio line out connector.

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

Monitor Specifications

Flat Panel Specifications

Model	**U3417W**
Screen type	Active matrix - TFT LCD
Panel technology	In-Plane Switching Type
Viewable image	
Diagonal Horizontal, Active Area Vertical, Active Area Area	867.2 mm (34.14 inches) 799.80 mm (31.49 inches) 334.80 mm (13.18 inches) 267773.04 mm^2 (415.01 $inch^2$)
Pixel pitch	0.233 mm x 0.233 mm
Pixel per inch	109
Viewing angle	178° (vertical) typical 178° (horizontal) typical
Luminance output	300 cd/m^2 (typical)
Contrast ratio	1000 to 1 (typical) 5M to 1 (typical Dynamic Contrast On)
Faceplate coating	Anti-Glare with 3H hardness
Backlight	LED edgelight system
Response time	8 ms (typical) for NORMAL mode 5 ms (typical) for FAST mode
Color depth	1.074 billion colors
Color gamut	sRGB 99%, CIE1976 (90%), and CIE 1931 (75%)

Built-in devices	• USB 3.0 super-speed hub (with 2 x USB 3.0 upstream port) • 4 x USB 3.0 downstream ports
Connectivity	• 2 x HDMI 2.0 • 1 x DP 1.2 • 1 x mDP • 1 x DP Output • 2 x USB 3.0 port - Upstream • 2 x USB 3.0 port - Side • 2 x USB 3.0 port - Bottom
Border width (edge of monitor to active area)	10.55 mm (Top) 10.05 mm (Left/Right)
Adjustability	
Height adjustable stand Tilt Swivel Pivot	0 to 115 mm -5° to 21° -30° to 30° N/A
Dell Display Manager Compatibility	Yes
Security	• Security lock slot (cable lock sold separately) • Anti-theft stand lock slot (to panel)

Resolution Specifications

Model	**U3417W**
Horizontal scan range	30 kHz to 134 kHz (automatic)
Vertical scan range	48 Hz to 76 Hz (automatic)
Maximum preset resolution	3440 x 1440 at 60 Hz

Supported Video Modes

Model	**U3417W**
Video display capabilities (HDMI & DP playback)	480p, 480i, 576p, 720p, 1080p, 576i, 1080i

Preset Display Modes

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal/ Vertical)
VESA, 640 x 400	31.47	70.09	25.18	-/+
VESA, 640 x 480	31.47	59.94	25.17	-/-
VESA, 640 x 480	37.50	75.00	31.5	-/-
VESA, 720 x 400	31.47	70.08	28.32	-/+
VESA, 800 x 600	37.88	60.32	40	+/+
VESA, 800 x 600	46.88	75.00	49.5	+/+
VESA, 1024 x 768	48.36	60.00	65	-/-
VESA, 1024 x 768	60.02	75.03	78.75	+/+
VESA, 1152 x 864	67.50	75.00	108	+/+
VESA, 1280 x 800 - R	49.31	59.91	71	+/-
VESA, 1280 x 1024	63.98	60.02	108	+/+
VESA, 1280 x 1024	79.98	75.03	135	+/+
VESA, 1600 x 1200	75.00	60.00	162	+/+
VESA, 1920 x 1080	67.50	60.00	148.5	+/+
VESA, 2560 x 1440	88.79	59.95	241.5	+/-
VESA, 3440 x 1440*	88.82	60.00	319.75	+/-

* Requires a graphics card that supports HDMI 2.0.

Multi-Stream Transport (MST) Modes

MST Source Monitor	Maximum number of external monitor can be supported	
	3440 x 1440 at 60Hz	1920 x 1080 at 60Hz
3440 x 1440 at 60Hz	1	2

NOTE: The default for Multi-Stream Transport mode is DP1.2. See Connecting the monitor for DP Multi-Stream Transport (MST) function for details.

Electrical Specifications

Model	U3417W
Video input signals	HDMI 2.0*/DP 1.2**, 600 mV for each differential line, 100 ohm input impedance per differential pair.
AC input voltage/frequency/ current	100 VAC to 240 VAC / 50 Hz or 60 Hz ± 3 Hz / 1.5 A (typical)
Inrush current	• 120 V: 40 A (Max.) at 0 °C (cold start) • 220 V: 80 A (Max.) at 0 °C (cold start)

* Not Support HDMI 2.0 optional specification, include HDMI Ethernet Channel (HEC), Audio Return Channel (ARC), standard for 3D format and resolutions, and standard for 4K digital cinema resolution.

** Support DP1.2 specification, include HBR2, MST and DP audio.

Speaker Specifications

Model	U3417W
Speaker	2 x 9.0 W
Frequency Response	100 Hz - 20 kHz
Impedance	8 ohm

Physical Characteristics

Model	U3417W
Signal cable type	• Digital: detachable, HDMI, 19 pins • Digital: detachable, Mini-DP to DP, 20 pins • Universal Serial Bus: detachable, USB, 9 pins
Dimensions (with stand)	
Height (extended)	532.0 mm (20.94 inches)
Height (compressed)	417.0 mm (16.42 inches)
Width	813.6 mm (32.03 inches)
Depth	226.4 mm (8.91 inches)
Dimensions (without stand)	
Height	363.7 mm (14.32 inches)

Width	813.6 mm (32.03 inches)
Depth	58.4 mm (2.30 inches)
Stand dimensions	
Height (extended)	419.1 mm (16.50 inches)
Height (compressed)	382.6 mm (15.06 inches)
Width	342.2 mm (13.47 inches)
Depth	226.4 mm (8.91 inches)
Weight	
Weight with packaging	15.4 kg (33.94 lb)
Weight with stand assembly and cables	10.4 kg (22.92 lb)
Weight without stand assembly (For wall mount or VESA mount considerations - no cables)	7.7 kg (16.97 lb)
Weight of stand assembly	2.3 kg (5.07 lb)
Front frame gloss	37%-57% gloss unit

Environmental Characteristics

Model	**U3417W**
Compliant Standards	
• BFR/PVC-free (Halogen-free) excluding external cables. • Meets NFPA 99 leakage current requirements. • 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	5,000 m (16,404 ft) (maximum)
Non-operating	12,192 m (40,000 ft) (maximum)
Thermal dissipation	• 443.58 BTU/hour (maximum) • 170.61 BTU/hour (typical)

Power Management Modes

If you have VESA's DPM™ compliance display 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.

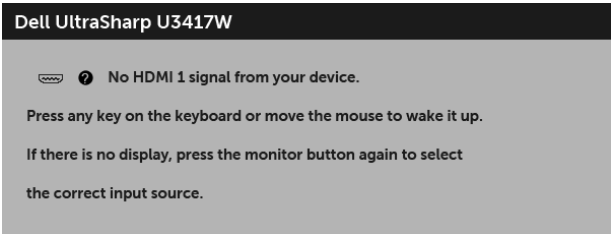
VESA Modes	Horizontal Sync	Vertical Sync	Video	Power Indicator	Power Consumption
Normal operation	Active	Active	Active	White	130 W (maximum)** 50 W (typical)
Active-off mode	Inactive	Inactive	Blanked	White (glowing)	Less than 0.5 W
Switch off	-	-	-	Off	Less than 0.5 W

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

** Maximum power consumption with max luminance, and USB active.

The OSD functions only in the normal operation mode. When any button is pressed in the Active-off mode, one of the following messages will be displayed:

HDMI 1/HDMI 2/Mini DisplayPort/DP input



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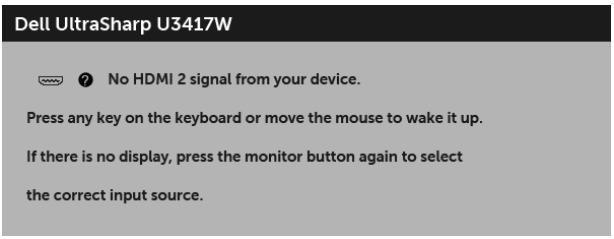

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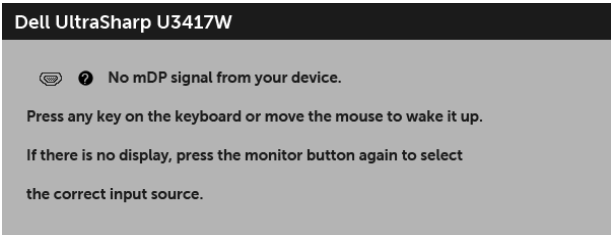

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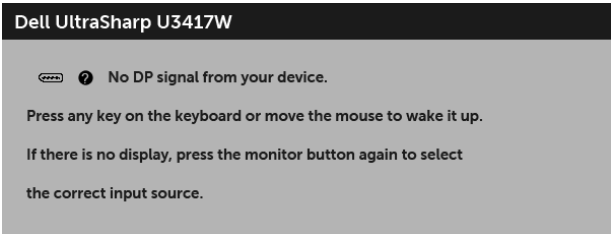
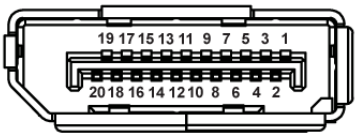


Activate the computer and the monitor to gain access to the OSD.

Pin Assignments

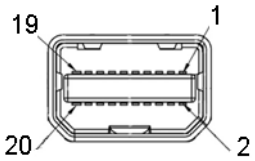
DisplayPort Connector



Pin Number	20-pin Side of the Connected Signal Cable
1	ML0(p)
2	GND
3	ML0(n)
4	ML1(p)
5	GND
6	ML1(n)
7	ML2(p)
8	GND
9	ML2(n)

10	ML3(p)
11	GND
12	ML3(n)
13	GND
14	GND
15	AUX(p)
16	GND
17	AUX(n)
18	GND
19	Re-PWR
20	+3.3 V DP_PWR

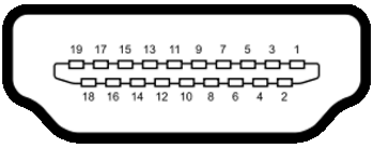
Mini DisplayPort Connector



Pin Number	20-pin Side of the Connected Signal Cable
1	GND
2	Hot Plug Detect
3	ML3(n)
4	GND
5	ML3(n)
6	GND
7	GND
8	GND
9	ML2(n)
10	ML0(p)
11	ML2(p)
12	ML0(p)
13	GND
14	GND
15	ML1(n)

16	AUX(p)
17	ML1(p)
18	AUX(n)
19	GND
20	+3.3 V DP_PWR

HDMI Connector



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	+5V 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 system with its Extended Display Identification Data (EDID) using Display Data Channel (DDC) protocols so the system 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.

Universal Serial Bus (USB) Interface

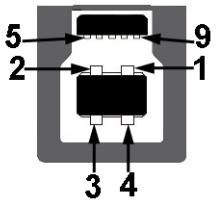
This section gives you information about the USB ports that are available on the monitor.

NOTE: This monitor is Super-Speed USB 3.0 compatible.

Transfer Speed	Data Rate	Power Consumption*
Super-speed	5 Gbps	4.5 W (Max, each port)
High speed	480 Mbps	4.5 W (Max, each port)
Full speed	12 Mbps	4.5 W (Max, each port)

* Up to 2A on USB downstream port (port with lightning icon) with BC1.2 compliance devices or normal USB devices.

USB Upstream Connector



Pin Number	9-pin Side of the Connector
1	VCC
2	D-
3	D+
4	GND
5	SSTX-
6	SSTX+

7	GND
8	SSRX-
9	SSRX+

USB Downstream Connector

Pin Number	9-pin Side of the Connector
1	VCC
2	D-
3	D+
4	GND
5	SSRX-
6	SSRX+
7	GND
8	SSTX-
9	SSTX+

USB Ports

- 2 x USB 3.0 upstream - bottom
- 2 x USB 3.0 downstream - bottom
- 2 x USB 3.0 downstream - side
- Power Charging Port- the port with lightning icon; supports fast current charging capability if the device is BC1.2 compatible.

NOTE: USB 3.0 functionality requires a USB 3.0-capable computer.

NOTE: The monitor's USB interface works only when the monitor is On or in the power save mode. If you turn Off the monitor and then turn it On, the attached peripherals may take a few seconds to resume normal functionality.

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 Dell Monitor Quality and Pixel

Policy, see Dell Support site at: **http://www.dell.com/support/monitors**.

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 while 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

Attaching the Stand

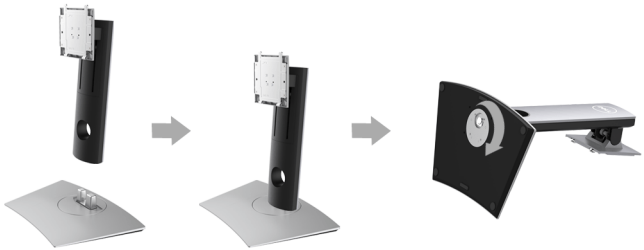
NOTE: The stand is detached when the monitor is shipped from the factory.

NOTE: This is applicable for a monitor with a stand. When any other stand is bought, please refer to the respective stand setup guide for the set up instructions.

CAUTION: Do not remove the monitor from the packaging box before attaching the stand.

To attach the monitor stand:

1. Follow the instructions on the flaps of carton to remove the stand from the top cushion that secures it.
2. Insert the stand base blocks fully into the stand slot.
3. Lift the screw handle and turn the screw clockwise.
4. After fully tightening the screw, fold the screw handle flat within the recess.

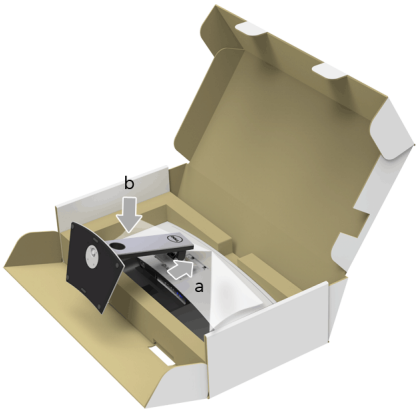


5 Lift the cover, as shown, to expose the VESA area for stand assembly.

6 Attach the stand assembly to the monitor.

a Fit the two tabs on the upper part of the stand to the groove on the back of the monitor.

b Press the stand down till it snaps into place.

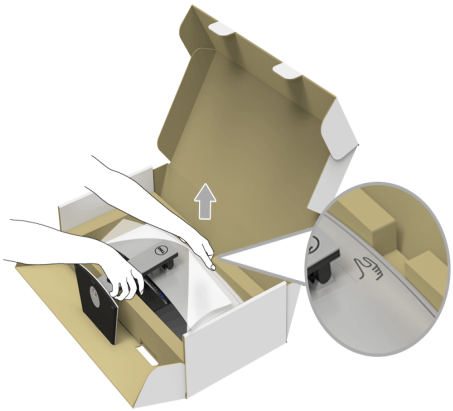


7 Place the monitor upright.

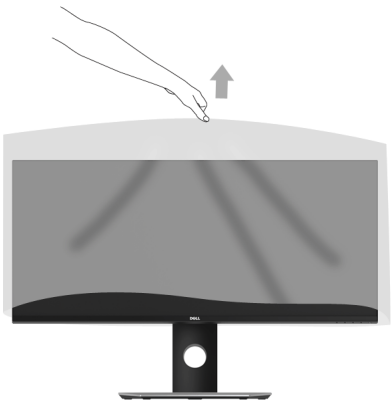
a Slide one hand in the cutout area on the bottom cushion and use the other hand to hold the stand.

b Lift the monitor carefully to prevent it from slipping or falling.

CAUTION: Do not press on the panel screen when lifting the monitor.



8 Remove the cover from the monitor.



Connecting Your Monitor

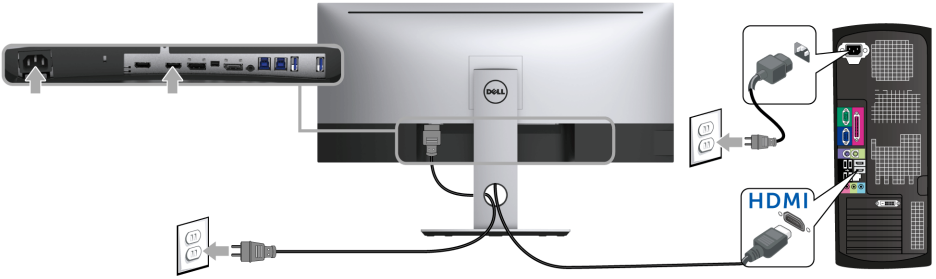
WARNING: Before you begin any of the procedures in this section, follow the Safety Instructions.

NOTE: Do not connect all cables to the computer at the same time.

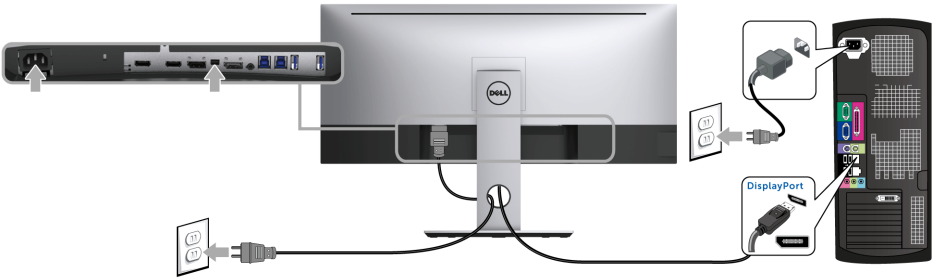
To connect your monitor to the computer:

1 Turn Off your computer and disconnect the power cable.
Connect the DP/Mini-DP to DP/HDMI cable from your monitor to the computer.

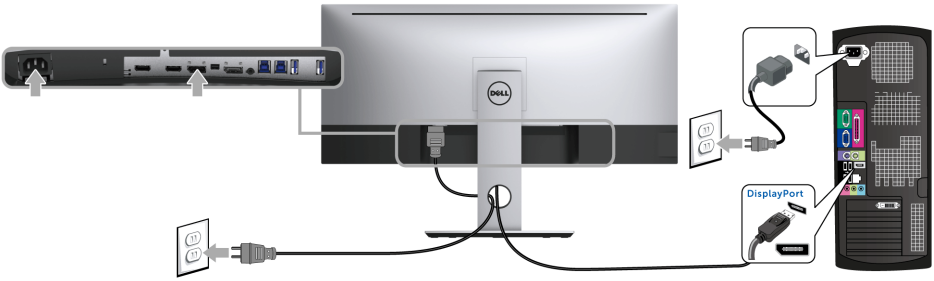
Connecting the HDMI cable



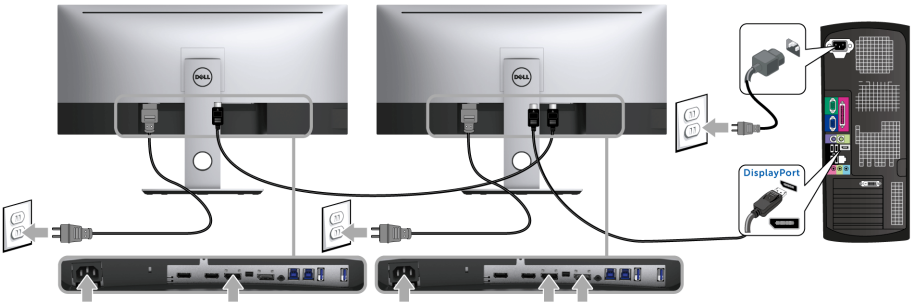
Connecting the black DisplayPort (Mini-DP to DP) cable



Connecting the black DisplayPort (DP to DP) cable



Connecting the monitor for DP Multi-Stream Transport (MST) function



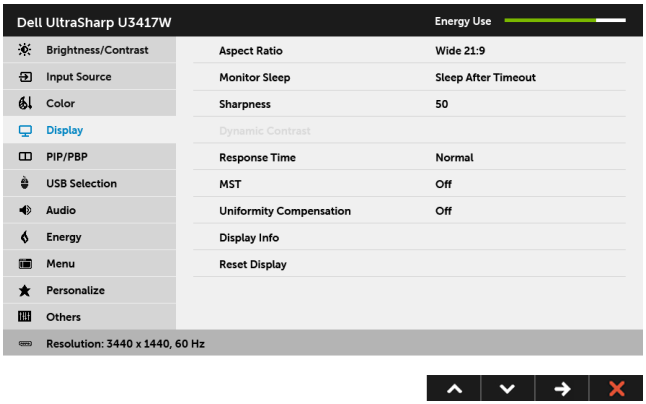
NOTE: U3417W supports the DP MST feature. To make use of this feature, your PC Graphics Card must be certified to DP1.2 with MST option.

The default out of factory setting in the U3417W is DP1.2.

To enable MST connection, please use only DP cable as provided in box (or other DP1.2 certified cable) and perform the below steps:

A) Monitor is able to show content

1 Use OSD button to navigate to **Display**.

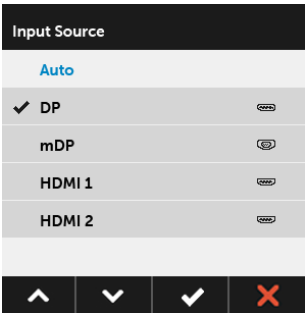


2 Go to **MST** selection.

3 Select **On** or **Off** accordingly.

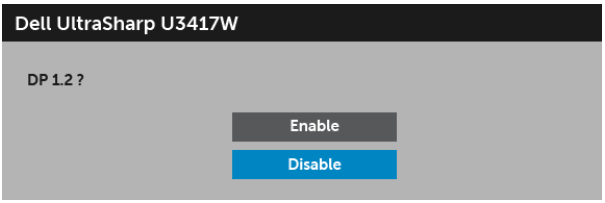
B) Monitor fails to show any content (blank screen)

1 Press any button other than the power button to activate the **Input Source** menu. Use the ^ and v buttons to highlight **DP** or **mDP**.



2 Press and hold the ✓ button for approximately 8 seconds.

3 The DisplayPort configuration message will appear.



4 Use the ⌃ and ⌄ buttons to highlight **Enable** or **Disable** and press the ✓ button to confirm selection.

Repeat the above steps to change the DP format setting if necessary.

CAUTION: The graphics are used for the purpose of illustration only. Appearance of the computer may vary.

Connecting the USB 3.0 cable

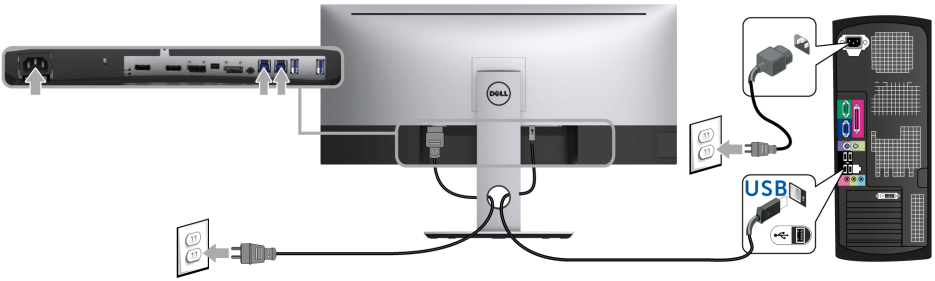
NOTE: To prevent data damage or loss, before changing USB upstream ports, make sure that NO USB storage devices are in use by the computer connected to the monitor's USB upstream port.

After you have completed connecting the Mini-DP to DP/DP/HDMI cable, follow the procedures below to connect the USB 3.0 cable to the computer and complete your monitor setup:

1 **a. Connect one computer:** connect the upstream USB 3.0 port (cable supplied) to an appropriate USB 3.0 port on your computer.
b. Connect two computers*: connect the upstream USB 3.0 ports to appropriate USB 3.0 ports on the two computers. Then use the OSD menu to select between the two USB upstream sources and input sources. See USB Select Switch.

2 Connect the USB 3.0 peripherals to the downstream USB 3.0 ports on the monitor.

3 Plug the power cables for your computer(s) and monitor into a nearby outlet.



a. Connect one computer

b. Connect two computers

* When connecting two computers to the monitor, the monitor's USB downstream ports for the keyboard and mouse can be assigned to different input signals from the two computers by changing the **USB Selection** settings from the OSD menu. (See USB Selection for details).

4 Turn On the monitor and the computer(s).
If your monitor displays an image, installation is complete. If it does not display an image, see Universal Serial Bus (USB) Specific Problems.

5 Use the cable slot on the monitor stand to organize the cables.

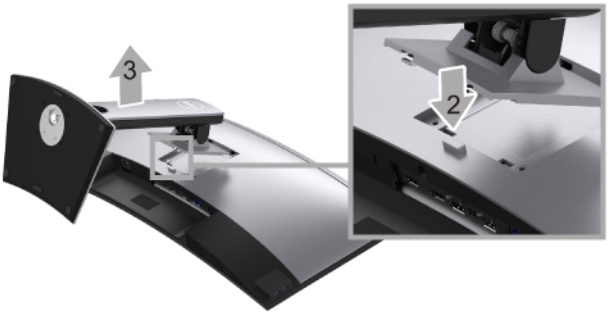
Organizing Your Cables

After attaching all necessary cables to your monitor and computer, (See Connecting Your Monitor for cable attachment,) organize all cables as shown above.

Removing the Monitor Stand

NOTE: To prevent the curved LCD screen from being scratched and damaged while removing the stand, ensure that the monitor is placed on a soft, clean foam. Direct contact with hard objects might cause damage to the curved monitor.

NOTE: This is applicable for a monitor with a stand. When any other stand is bought, please refer to the respective stand setup guide for the set-up instructions



To remove the stand:

1 Place the monitor on a soft cloth or cushion.
2 Press and hold the stand release button.
3 Lift the stand up and away from the monitor.

Wall Mounting (Optional)

(Screw dimension: M4 x 10 mm).

Refer to the instructions that come with the VESA-compatible wall 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 Phillips crosshead screwdriver to remove the four screws securing the plastic cover.

4 Attach the mounting bracket from the wall mounting kit to the monitor.

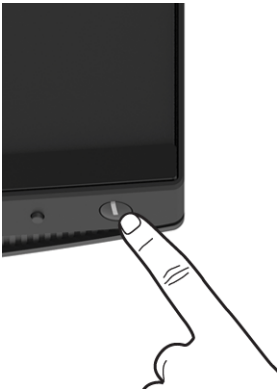
5 Mount the monitor on the wall by following the instructions that comes with the wall mounting kit.

NOTE: For use only with UL-listed wall mount bracket with minimum weight/load bearing capacity of 30.6 kg.

Operating the Monitor

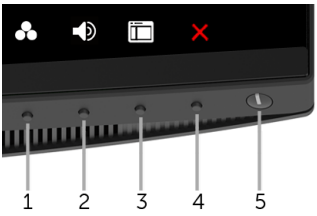
Power On the Monitor

Press the button to turn On the monitor.



Using the Front Panel Controls

Use the control buttons on the front of the monitor to adjust the characteristics of the image being displayed. As you use these buttons to adjust the controls, an OSD shows the numeric values of the characteristics as they change.

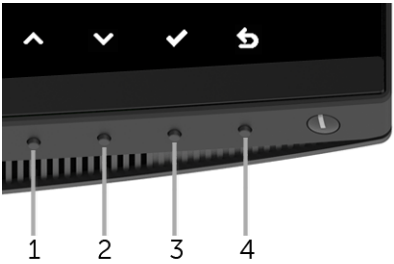


The following table describes the front panel buttons:

Front Panel Button		Description
1	**Shortcut key/ Preset Modes**	Use this button to choose from a list of preset color modes.
2	**Shortcut key/ Volume**	Use this button to adjust the volume. Minimum is '0' (-). Maximum is '100' (+).
3	**Menu**	Use the **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 light indicates the monitor is **On** and fully functional. A glowing white light indicates the power save mode.

Front Panel Button

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



Front Panel Button		Description
1	**Up**	Use the **Up** button to adjust (increase ranges) items in the OSD menu.

2	Down	Use the **Down** button to adjust (decrease ranges) items in the OSD menu.
3	OK	Use the **OK** button to confirm your selection.
4	Back	Use the **Back** button to go back to the previous menu.

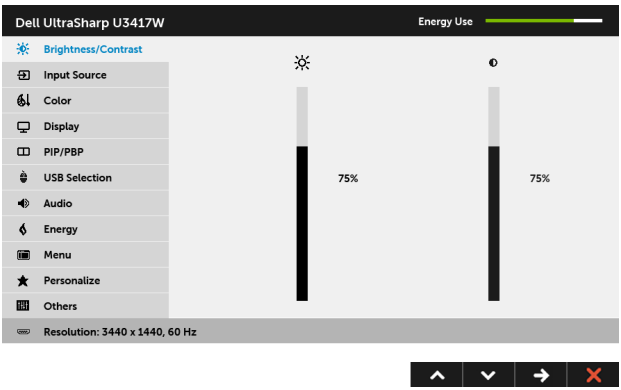
Using the On-Screen Display (OSD) Menu

Accessing the Menu System

NOTE: If you change the settings and then either proceed to another menu or exit the OSD menu, the monitor automatically saves those changes. The changes are also saved if you change the settings and then wait for the OSD menu to disappear.

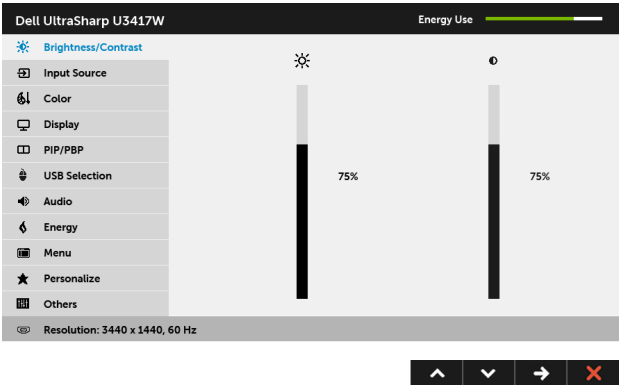
1 Press the button to launch the OSD menu and display the main menu.

Main Menu for digital (HDMI) input



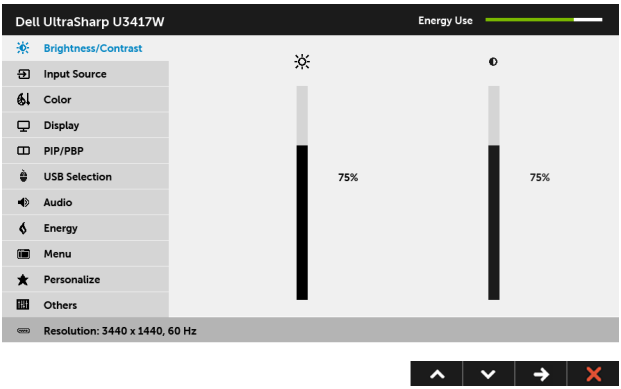
or

Main Menu for digital (mDP) input



or

Main Menu for digital (DP) input



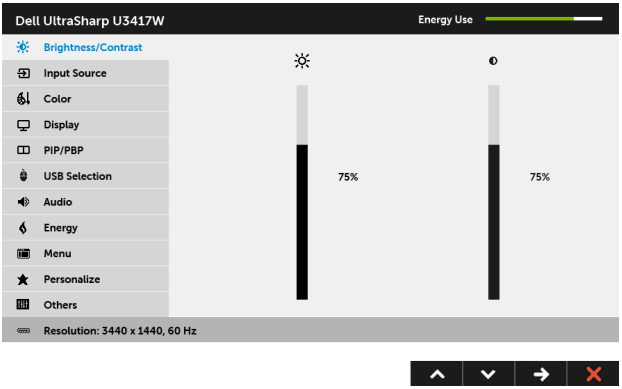
2 Press the ^ and v buttons to move between the setting options. As you move from one icon to another, the option name is highlighted. See the following table for a complete list of all the options available for the monitor.

3 Press the → button once to activate the highlighted option.

4 Press ^ and v button to select the desired parameter.

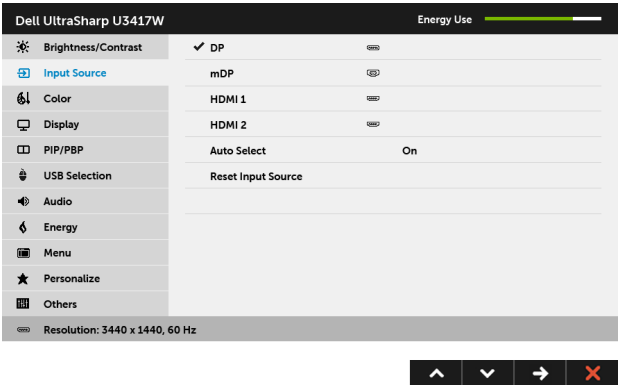
5 Press → to enter the slide bar and then use the ^ and v buttons, according to the indicators on the menu, to make your changes.

6 Select the ↩ button to return to the main menu.

Icon	Menu and Submenus	Description
	Brightness/ Contrast	Use this menu to activate **Brightness/Contrast** adjustment. 
	Brightness	**Brightness** adjusts the luminance of the backlight. Press the button to increase the brightness and press the button to decrease the brightness (min. 0 / max. 100). **NOTE:** Manual adjustment of **Brightness** is disabled when **Dynamic Contrast** is switched On.
	Contrast	Adjust the **Brightness** first, and then adjust the **Contrast** only if further adjustment is necessary. Press the button to increase the contrast and press the button to decrease the contrast (min. 0 / max. 100). The **Contrast** function adjusts the degree of difference between darkness and lightness on the monitor screen.

Input Source

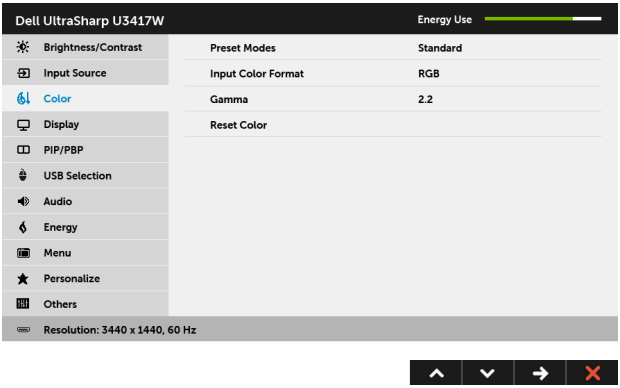
Use the **Input Source** menu to select between the different video signals that may be connected to your monitor.



DP	Select the **DP** input when you are using the DisplayPort (DP) connector. Press → to select the DisplayPort input source.
mDP	Select the **mDP** input when you are using the Mini DisplayPort (mDP) connector. Press → to select the Mini DisplayPort input source.
HDMI 1	Select the **HDMI 1** input when you are using the HDMI 1 connector. Press → to select the HDMI 1 input source.
HDMI 2	Select the **HDMI 2** input when you are using the HDMI 2 connector. Press → to select the HDMI 2 input source.
Auto Select	Turning on the function allows you to scan for available input sources.
Reset Input Source	Reset your monitor input settings to the factory settings.

Color

Use **Color** to adjust the color setting mode.

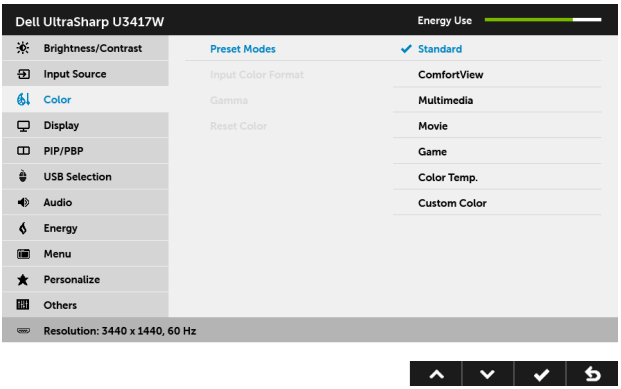


Preset Modes

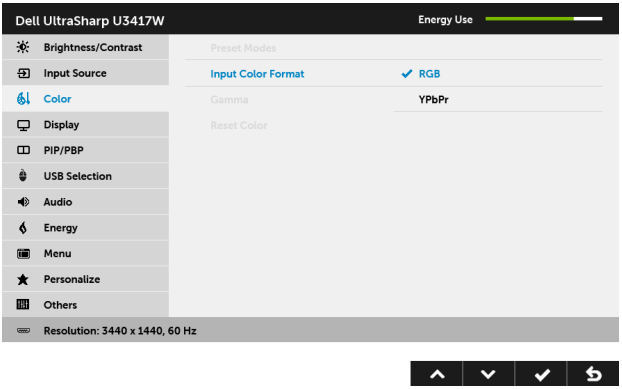
When you select **Preset Modes**, you can choose **Standard**, **ComfortView**, **Multimedia**, **Movie, Game**, **Color Temp.**,or **Custom Color** from the list.

- **Standard**: Loads the monitor's default color settings. This is the default preset mode.
- **ComfortView**: Decreases the level of the blue light emitted from the screen to make viewing more comfortable for your eyes.
- **Multimedia**: Loads color settings ideal for multimedia applications.
- **Movie**: Loads color settings ideal for movies.
- **Game**: Loads color settings ideal for most gaming applications.
- **Color Temp.**: Allows users to select the color temperature: 5000K, 5700K, 6500K, 7500K, 9300K, and 10000K.
- **Custom Color**: Allows you to manually adjust the 6-axis color settings.

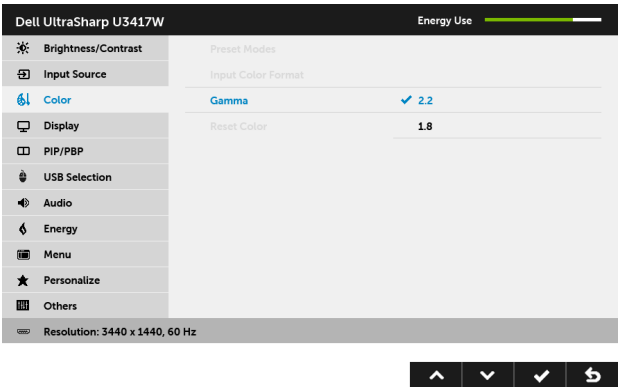
  Press the ^ and v buttons to adjust the 6-axis colors values and create your own preset color mode.



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 (or DisplayPort cable). **YPbPr**: Select this option if your monitor is connected to a DVD player by YPbPr using HDMI cable (or DisplayPort cable). Or if the DVD color output setting is not RGB.

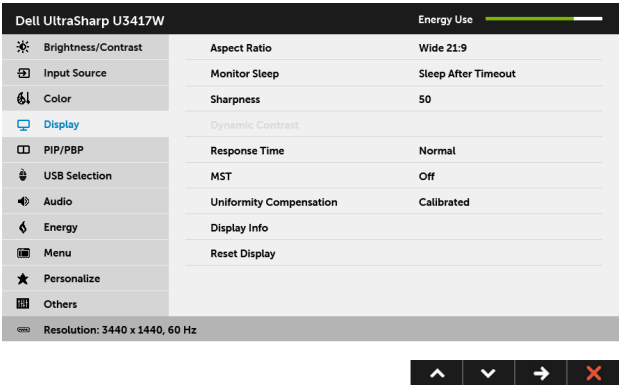


Gamma	Allows you to set the **Gamma** to **2.2** or **1.8**.



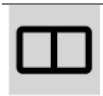
Hue	This feature can shift the color of the video image to green or purple. This is used to adjust the desired flesh tone color. Use ^ or v to adjust the hue from '0' to '100'. Use ^ to increase the green shade of the video image. Use v to increase the purple shade of the video image. **NOTE: Hue** adjustment is available only when you select **Movie** or **Game** preset mode.
Saturation	This feature can adjust the color saturation of the video image. Use ^ or v to adjust the saturation from '0' to '100'. Use ^ to increase the colorful appearance of the video image. Use v to increase the monochrome appearance of the video image. **NOTE: Saturation** adjustment is available only when you select **Movie** or **Game** preset mode.
Reset Color	Reset your monitor color settings to the factory settings.

	Display	Use **Display** to adjust image.



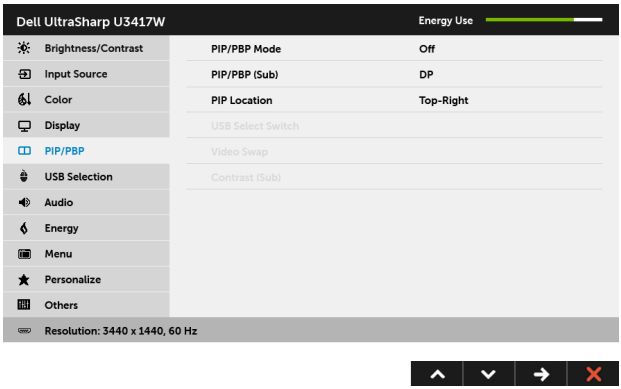
Aspect Ratio	Adjusts the image ratio to **Wide 21:9**, **Auto Resize**, **4:3**, or **1:1**.
Monitor Sleep	Allows you to let the monitor turn off automatically or stay on when your computer goes into sleep mode. When **Sleep After Timeout** is selected, the monitor goes to sleep as the system sleeps; when **Never** is selected, you may prevent the screen from going off as the system sleeps for speedy display recovery from PC wake up.
Sharpness	This feature can make the image look sharper or softer. Use ^ or v to adjust the sharpness from '0' to '100'.

	Dynamic Contrast	Allows you to increase the level of contrast to provide sharper and more detailed image quality. Press the → button to select the **Dynamic Contrast** "**On**" or "**Off**". **NOTE: Dynamic Contrast** provides higher contrast if you select **Game** or **Movie** preset mode.
	Response Time	Allows you to set the **Response Time** to **Normal** or **Fast**.
	MST	Press → to select the **MST** "**On**" or "**Off**". To use the DP MST (Daisy Chain) feature, turn on **MST**.
	Uniformity Compensation	Select screen uniformity compensation settings. **Calibrated** is factory calibrated setting by default. **Uniformity Compensation** adjusts different areas of the screen with respect to the center to achieve uniform brightness and color over the entire screen. For optimal screen performance, **Brightness** and **Contrast** for some preset modes (**Standard**, **Color Temp.**) will be disabled when **Uniformity Compensation** is turned **On**. **NOTE:** User is advised to use factory default brightness setting when **Uniformity Compensation** is turned on. For other brightness level setting, the uniformity performance may deviate from the data shown on the Factory Calibration Report.
	Display Info	Displays the monitor's current settings.
	Reset Display	Select this option to restore default display settings.



PIP/PBP

This function brings up a window displaying image from another input source.

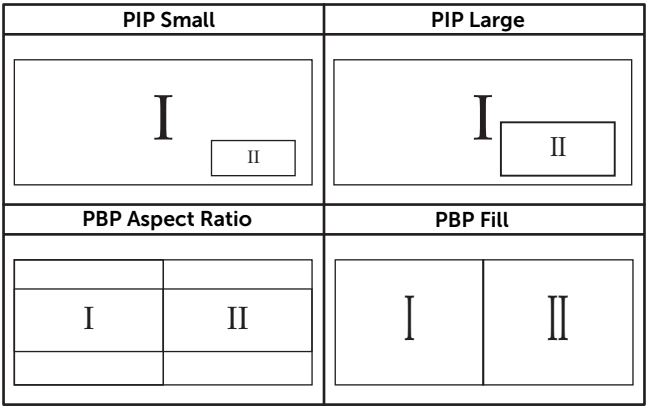


Main Window	Sub-Window			
	DP	mDP	HDMI 1	HDMI 2
DP	X	✓	✓	✓
mDP	✓	X	✓	✓
HDMI 1	✓	✓	X	✓
HDMI 2	✓	✓	✓	X

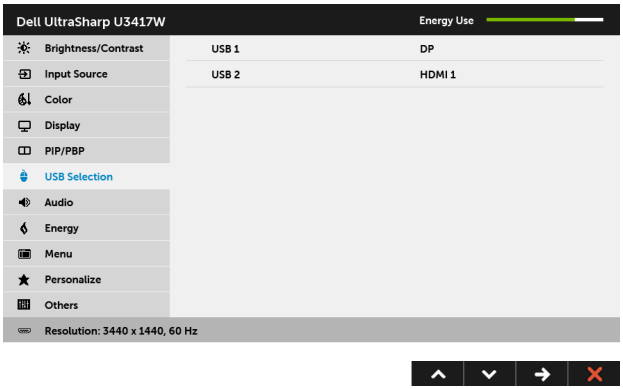
NOTE: The images under PBP will be displayed at the center of the screen, not full screen.

NOTE: When you use the PIP/PBP feature, the DP MST (Daisy Chain) function is disabled.

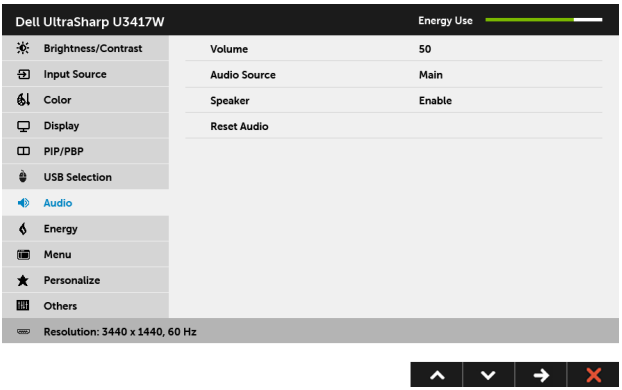
PIP/PBP Mode	Adjusts the **PIP/PBP** (Picture in Picture/Picture by Picture) mode to **PIP Small**, **PIP Large**, **PBP Aspect Ratio**, or **PBP Fill**. You can disable this feature by selecting **Off**.



PIP/PBP (Sub)	Select between the different video signals that may be connected to your monitor for the PIP/PBP sub-window.
PIP Location	Select PIP sub-window position. Use ^ or v to browse and ✔ to select **Top-Left**, **Top-Right**, **Bottom-Right**, or **Bottom-Left**.
USB Select Switch	Select to switch between the USB upstream sources in PIP/PBP mode.
Video Swap	Select to swap videos between main window and sub-window in PIP/PBP mode.
Contrast (Sub)	Adjust the contrast level of the picture in PIP/PBP Mode. Press the ^ button to increase the contrast and press the v button to decrease the contrast.

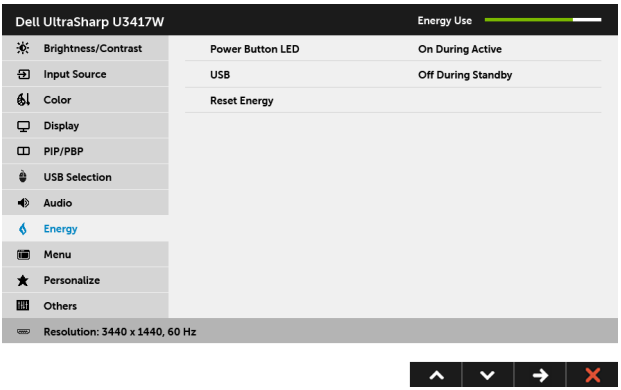
	USB Selection	Select the USB upstream signals from the list: DP, mDP, HDMI 1, and HDMI 2, thus the monitor's USB downstream port (eg. keyboard and mouse) can be used by the current input signals when connecting a computer to either one of the upstream ports. The display and USB upstream ports connection can be changed by selecting the input source function. When you use only one upstream port, the connected upstream port is active.  **NOTE:** To prevent data damage or loss, before changing USB upstream ports, make sure that NO USB storage devices are in use by the computer connected to the monitor's USB upstream port.
	USB 1	Press → to Indicate the input signal for **USB 1**.
	USB 2	Press → to Indicate the input signal for **USB 2**.

Audio



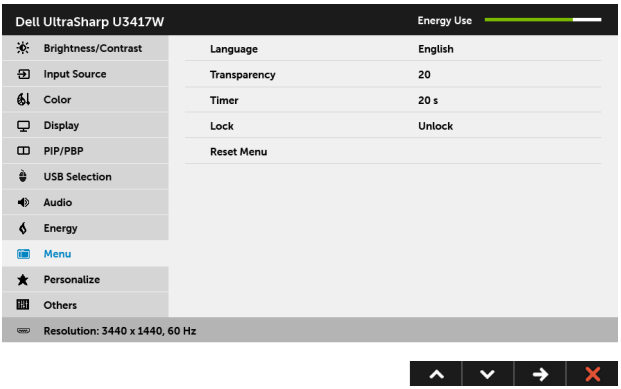
Volume	Allows you to set the volume level of speakers. Use ^ or v to adjust the volume level from '0' to '100'.
Audio Source	Allows you to set the audio source from the main window or the sub-window.
Speaker	Allows you to enable or disable the speaker function.
Reset Audio	Select this option to restore default audio settings.

Energy



Power Button LED	Allows you to set the power LED indicator On or Off to save energy.
USB	Allows you to enable or disable USB function during monitor standby mode. **NOTE:** USB ON/OFF under standby mode is only available when the USB upstream cable is unplugged. This option will be greyed out when the USB upstream cable plugs in.
Reset Energy	Select this option to restore default **Energy** settings.

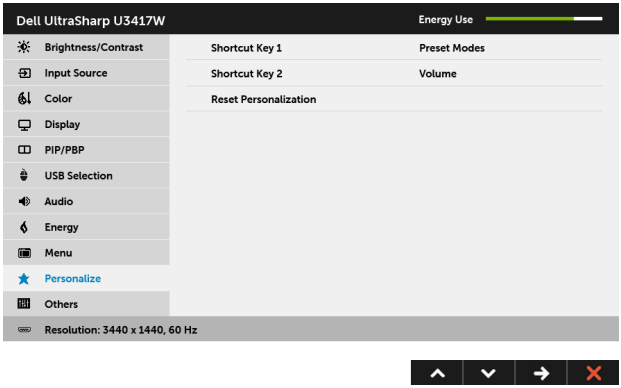
	Menu	Select this option to adjust the settings of the OSD, such as, the languages of the OSD, the amount of time the menu remains on screen, and so on.



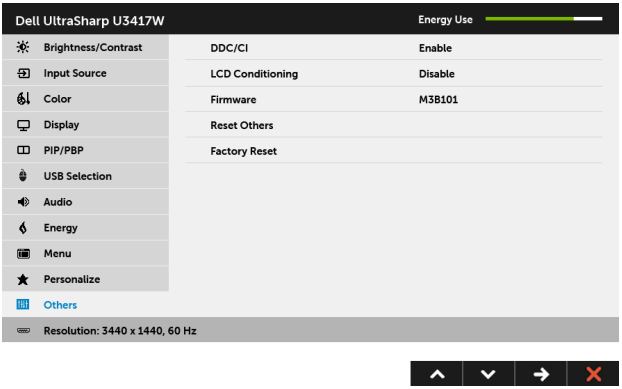
Language	**Language** options set the OSD display to one of the eight languages (English, Spanish, French, German, Brazilian Portuguese, Russian, Simplified Chinese or Japanese).
Transparency	Select this option to change the menu transparency by pressing the ^ and v buttons (Minimum: 0 ~ Maximum: 100).
Timer	**OSD Hold Time**: sets the length of time the OSD will remain active after the last time you pressed a button. Use ^ or v to adjust the slider in 1 second increments, from 5 to 60 seconds.
Lock	Controls user access to adjustments. When **Lock** is selected, no user adjustments are allowed. All buttons are locked. **NOTE:** **Unlock** function– Only hard unlock (press and hold the button beside the power button for 6 seconds). **Lock** function – Either soft lock (through the OSD menu) or hard lock (press and hold the button beside the power button for 6 seconds).
Reset Menu	Reset all OSD settings to the factory preset values.

Personalize

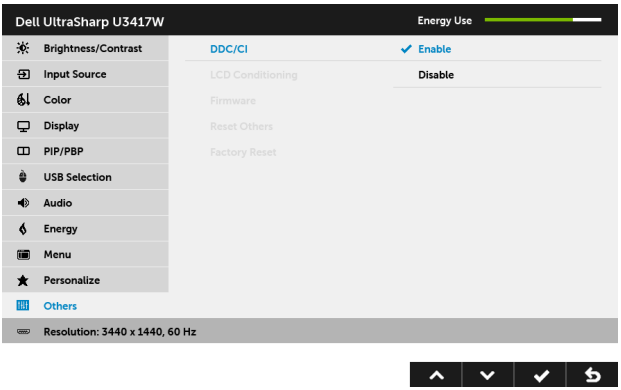
Users can choose a feature from **Preset Modes**, **Brightness/Contrast**, **Input Source**, **Aspect Ratio**, **Volume**, **PIP/PBP Mode**, **USB Select Switch**, or **Video Swap** and set it as a shortcut key.



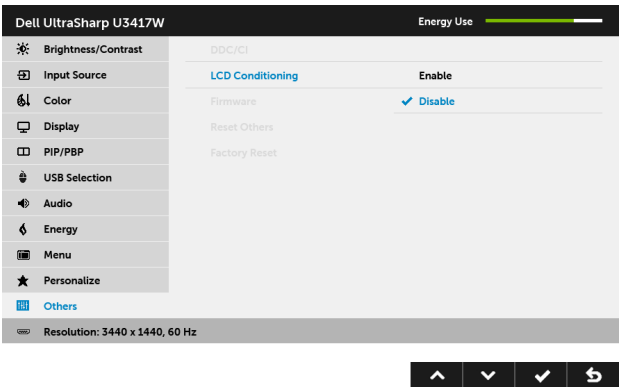
Others



DDC/CI	**DDC/CI** (Display Data Channel/Command Interface) allows your monitor parameters (brightness, color balance, and etc.) to be adjustable via the software on your computer. You can disable this feature by selecting **Disable**. Enable this feature for best user experience and optimum performance of your monitor.



LCD Conditioning	Helps reduce minor cases of image retention. Depending on the degree of image retention, the program may take some time to run. You can enable this feature by selecting **Enable**.

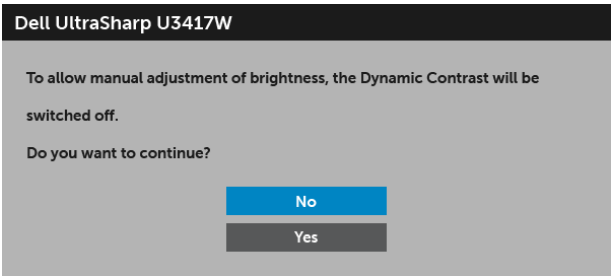


Firmware	Displays the current firmware version.
Reset Others	Reset all settings under the **Others** menu to the factory preset values.
Factory Reset	Reset all settings to the factory preset values.

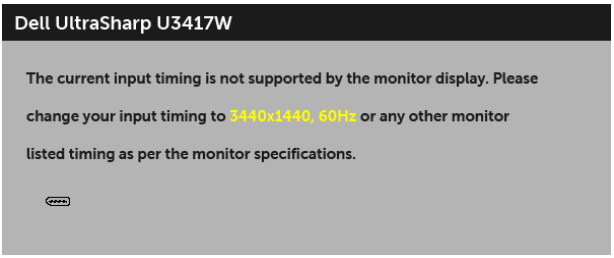
NOTE: This monitor has a built-in feature to automatically calibrate the brightness to compensate for LED aging.

OSD Warning Messages

When the **Dynamic Contrast** feature is enabled (in these preset modes: **Game** or **Movie**), the manual brightness adjustment is disabled.

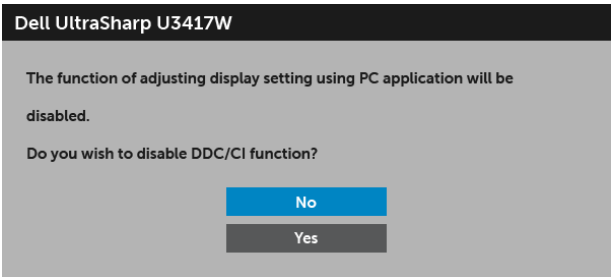


When the monitor does not support a particular resolution mode, you will see the following message:



This means that the monitor cannot synchronize with the signal that it is receiving from the computer. See Monitor Specifications for the Horizontal and Vertical frequency ranges addressable by this monitor. Recommended mode is 3440 x 1440.

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



When the monitor enters the **Power Save** mode, the following message appears:

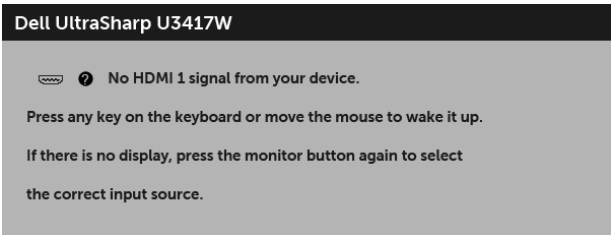
or

or

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

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

HDMI/Mini DisplayPort/DP input



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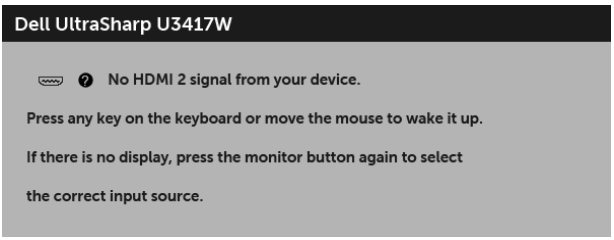

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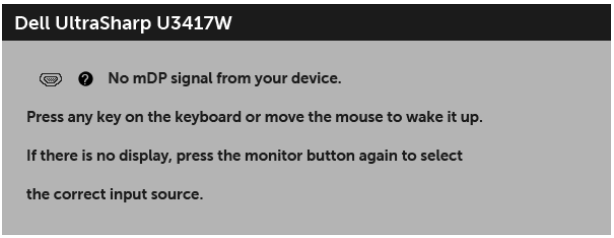
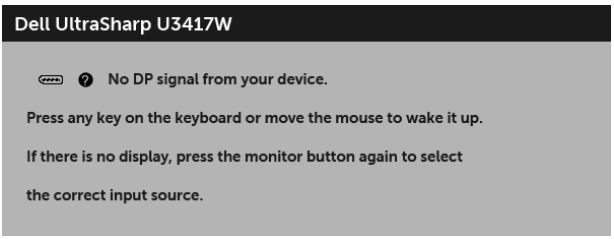
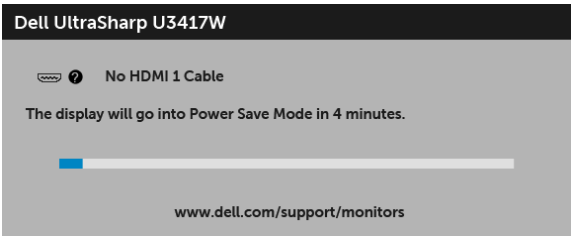


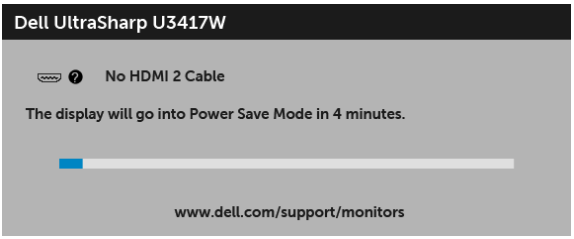
or



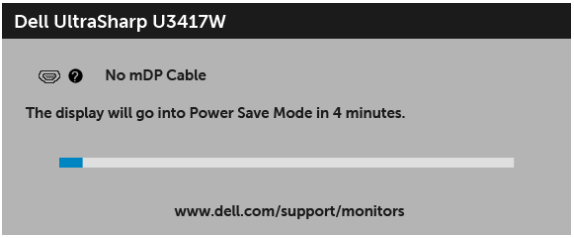
If either HDMI, Mini DisplayPort, or DP input is selected and the corresponding cable is not connected, a floating dialog box as shown below appears.



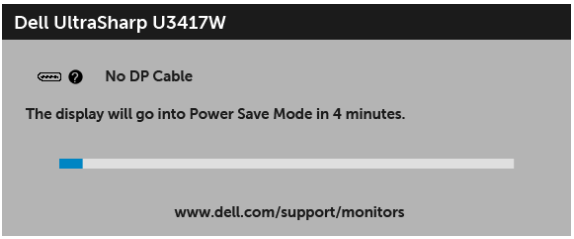
or



or



or



See Troubleshooting for more information.

Setting the Maximum Resolution

To set the maximum resolution for the monitor:

In Windows® 7, Windows® 8, and Windows® 8.1:

1. For Windows® 8 and Windows® 8.1 only, select the Desktop tile to switch to classic desktop.
2. Right-click on the desktop and click **Screen Resolution**.
3. Click the Dropdown list of the Screen Resolution and select **3440 x 1440**.
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 **3440 x 1440**.
4. Click **Apply**.

If you do not see 3440 x 1440 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 **http://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 (portable or desktop):

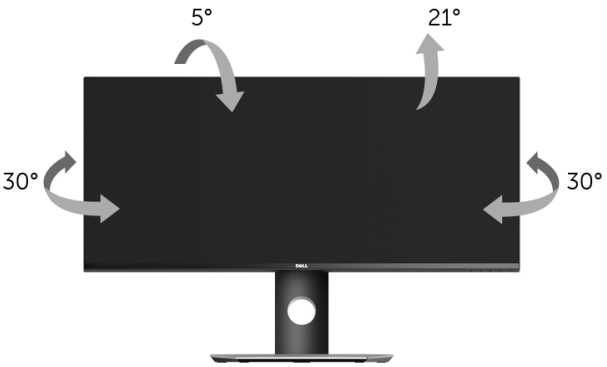
- Go to the support site for your computer and download the latest graphic drivers.
- Go to your graphics card website and download the latest graphic drivers.

Using the Tilt, Swivel, and Vertical Extension

NOTE: This is applicable for a monitor with a stand. When any other stand is bought, please refer to the respective stand setup guide for set up instructions.

Tilt, Swivel

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



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

Vertical Extension

NOTE: The stand extends vertically up to 115 mm. The figure below illustrates how to extend the stand vertically.

Dual-Monitor Setup

The recommended dual-monitor setup:

Landscape (side by side)

Troubleshooting

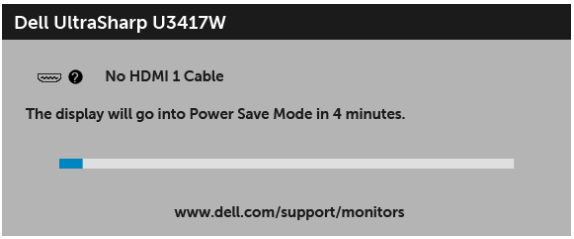
WARNING: Before you begin any of the procedures in this section, follow the Safety Instructions.

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 digital 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.



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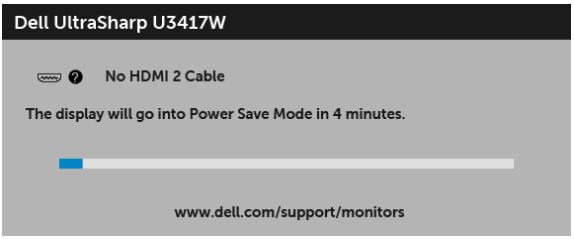

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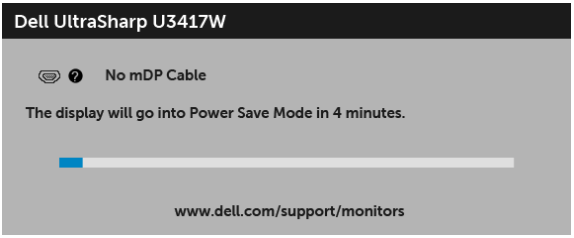

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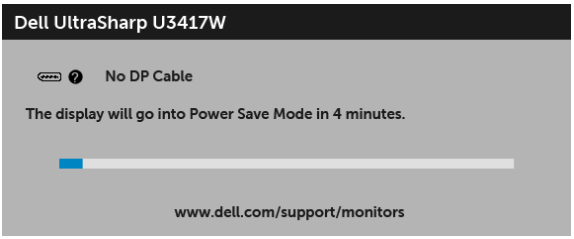


4 This box also appears during normal system operation, if the video cable becomes disconnected or damaged.

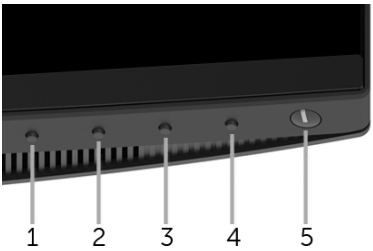
5 Turn Off your monitor and reconnect the video cable; then turn On both your computer and the monitor.

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.

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



To run the built-in diagnostics:

1. Ensure that the screen is clean (no dust particles on the surface of the screen).
2. Unplug the video cable(s) from the back of the computer or monitor. The monitor then goes into the self-test mode.
3. Press and hold **Button 1** on the front panel for 5 seconds. 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 and 6 to inspect the display in 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 upon using 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 pressed 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 & contrast controls via 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.
Poor Focus	Picture is fuzzy, blurry, or ghosting	• Eliminate video extension cables. • Reset the monitor to factory settings. • Change the video resolution to the correct aspect ratio.
Shaky/Jittery Video	Wavy picture or fine movement	• Reset the monitor to factory settings. • Check environmental factors. • Relocate the monitor and test in another room.

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: **http://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 Pixel Policy, see Dell Support site at: **http://www.dell.com/support/monitors**.
Brightness Problems	Picture too dim or too bright	• Reset the monitor to factory settings. • Adjust brightness & contrast controls via OSD.
Geometric Distortion	Screen not centered correctly	• Reset the monitor to factory settings. • Adjust horizontal & vertical controls via OSD.
Horizontal/ Vertical Lines	Screen has one or more lines	• Reset the monitor to factory settings. • Perform monitor self-test feature check and determine if these lines are also in self-test mode. • Check for bent or broken pins in the video cable connector. • Run the built-in diagnostics.
Synchronization Problems	Screen is scrambled or appears torn	• Reset the monitor to factory settings. • Perform monitor self-test feature check to determine if the scrambled screen appears in self-test mode. • Check for bent or broken pins in the video cable connector. • Restart the computer in the *safe mode*.
Safety Related Issues	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 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	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

Specific Symptoms	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 power cord, plug it back, and then turn On the monitor. • Check whether the OSD menu is locked. If yes, press and hold the button beside the Power button for 6 seconds to unlock (for more information, see Lock).
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. Re-plug the signal cable 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.

Universal Serial Bus (USB) Specific Problems

Specific Symptoms	What You Experience	Possible Solutions
USB interface is not working	USB peripherals are not working	• Check that your monitor is turned On. • Reconnect the upstream cable to your computer. • Reconnect the USB peripherals (downstream connector). • Switch Off and then turn On the monitor again. • Reboot the computer. • Some USB devices like external portable HDD require higher electric current; connect the device directly to the computer system. • Disconnect one upstream USB cable when using two upstream connections.
High Speed USB 3.0 interface is slow	High Speed USB 3.0 peripherals working slowly or not working at all	• Check that your computer is USB 3.0-capable. • Some computers have USB 3.0, USB 2.0, and USB 1.1 ports. Ensure that the correct USB port is used. • Reconnect the upstream cable to your computer. • Reconnect the USB peripherals (downstream connector). • Reboot the computer.
Wireless mouse is not working or lagging	Do not respond or responds slowly	• Increase the distance between the USB 3.0 peripherals and the wireless USB receiver. • Position your wireless USB receiver as close as possible to the wireless mouse. • Use a USB-extender cable to position the wireless USB receiver as far away as possible from the USB 3.0 port.

Speakers Specific Problems

Specific Symptoms	What You Experience	Possible Solutions
No sound coming from the speakers	Cannot hear any sound	• Turn Off the monitor, unplug the monitor power cord, replug it, and then turn On the monitor. • Check the audio cable connection is connected correctly to the computer Audio Line Out port. • Unplug the audio cable from the Audio Line Out port. • Reset the monitor to factory settings.

Appendix

WARNING: Safety Instructions

WARNING: Use of controls, adjustments, or procedures other than those specified in this documentation may result in exposure to shock, electrical hazards, and/or mechanical hazards.

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

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.

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.

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