# Alienware AW2518H Monitor User's Guide



### 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.
- MARNING: A WARNING indicates a potential for property damage, personal injury, or death.

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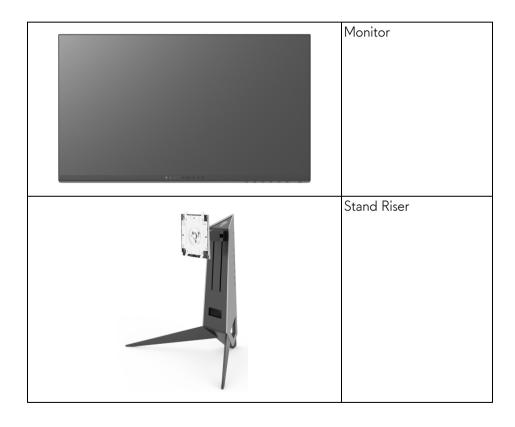
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### **About Your Monitor**

#### **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.



	Cable Cover
	Power Cable (Varies by Country)
	DP Cable
	USB 3.0 Upstream Cable (Enables the USB Ports on the Monitor)
According to the second of the	<ul> <li>Drivers and Documentation Media</li> <li>Quick Setup Guide</li> <li>Safety, Environmental, and Regulatory Information</li> </ul>

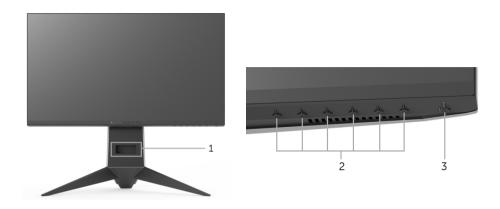
#### **Product Features**

The **Alienware AW2518H** flat panel display has an active matrix, Thin-Film Transistor (TFT), Liquid Crystal Display (LCD) and LED backlight. The monitor features include:

- 62.23 cm (24.5 inch) viewable area (measured diagonally).
   Resolution: Up to 1920 x 1080 through DisplayPort and HDMI, with full-screen support or lower resolutions.
- Nvidia G-Sync-enabled and 3D Vision Ready monitor, with a extremely high refresh rate of 240 Hz and a rapid response time of 1 ms.
- Color gamut of 72% NTSC.
- Tilt, swivel, pivot, and height adjustment capabilities.
- Removable stand and Video Electronics Standards Association (VESA™)
   100 mm mounting holes for flexible mounting solutions.
- Digital connectivity with DisplayPort and HDMI.
- Equipped with 1 USB upstream port and 4 USB downstream ports.
- Plug and play capability if supported by your system.
- On-Screen Display (OSD) adjustments for ease of set-up and screen optimization.
- The color modes also offers different game modes, including FPS (First-Person Shooter), RTS (Real-Time Strategy), RPG (Role-Playing Game), and 3 game modes to personalize your preference.
- Software and documentation media includes an Information File (INF), Image Color Matching File (ICM), and product documentation.
- Arsenic-Free glass and Mercury-Free for the panel only.
- 0.5 W standby power when in sleep mode.
- 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.

### **Identifying Parts and Controls**

#### Front View



Label	Description			
1	Cable-management slot (on the front side of the stand)			
2	2 Function buttons (For more information, see Operating the Monitor)			
3 Power On/Off button (with LED indicator)				

#### **Back View**

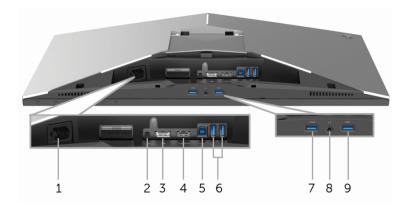




Back view with monitor stand

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 slots (on the left and right sides of the stand)	Use to organize cables by placing them through the slots.	

#### **Rear and Bottom View**



Rear and bottom view without monitor stand

Label	Description	Use	
1	Power cable connector	Connect the power cable (shipped with your monitor).	
2	Line-out port	Connect your speakers. <b>NOTE:</b> This port does not support headphones.	
3	DisplayPort	Connect your computer with DP cable (shipped with your monitor).	
4	HDMI port	Connect your computer with HDMI cable.	
5	USB upstream port Connect the USB cable (shipped with monitor) to this port and your computenable the USB ports on your monito		
<b>6,9</b> USB 3.0 port Connect yo		Connect your USB device.	
		<b>NOTE:</b> To use this port, you must connect the USB cable (shipped with your monitor) to the USB-upstream port on the monitor and to your computer.	
7	USB downstream port with Power Charging	Connect to charge your USB device.	
8	Headphone-out jack	Connect the headphones.	

### **Monitor Specifications**

#### **Flat Panel Specifications**

Model	AW2518H		
Screen type	Active matrix - TFT LCD		
Panel technology	TN		
Aspect Ratio	16:9		
Viewable image			
Diagonal	622.3 mm (24.5 inches)		
Horizontal, Active Area	543.74 mm (21.41 inches)		
Vertical, Active Area	302.62 mm (11.91 inches)		
Area	164545.63 mm² (255.05 inch²)		
Pixel pitch	0.2832 mm x 0.2802 mm		
Pixel per inch (PPI)	90		
Viewing angle	160° (vertical) typical		
	170° (horizontal) typical		
Luminance output	400 cd/m² (typical)		
Contrast ratio	1000 to 1 (typical)		
Faceplate coating	Anti-Glare with 3H hardness		
Backlight	LED edgelight system		
Response time	1 ms gray-to-gray		
Color depth	16.7 million colors		
Color gamut	72%* (CIE1931)		
Built-in devices	<ul> <li>USB 3.0 super-speed hub (with 1 x USB 3.0 upstream port)</li> <li>4 x USB 3.0 downstream ports (including 1 port which supports power-charging)</li> </ul>		

Connectivity	• 1 x DP 1.2	
	• 1 x HDMI 1.4	
	• 1 x USB 3.0 Upstream port (Rear)	
	• 2 x USB 3.0 Downstream port (Rear)	
	• 2 x USB 3.0 Downstream port (Bottom)	
	• 1 x Headphone-out jack (Bottom)	
	• 1 x Audio line-out jack (Rear)	
Height adjustable stand	0 to 130 mm	
Tilt	-5° to 25°	
Swivel	-20° to 20°	
Pivot	-90° to 90°	

<sup>\*</sup> Color gamut (typical) is based on CIE1976 (82%) and CIE1931 (72%) test standards.

#### **Resolution Specifications**

Model	AW2518H
Horizontal scan range	30 kHz to 160 kHz (automatic)
Vertical scan range	30 Hz to 240 Hz (automatic)
Maximum preset resolution	1920 x 1080 at 240 Hz

### Supported Video Modes

Model	AW2518H		
Video display capabilities (HDMI & DP playback)	480p, 576p, 720p, 1080p, FHD		

#### **Preset Display Modes**

#### **HDMI Display Modes**

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal/ Vertical)
IBM VGA, 640 x 480p	31.5	60	25.2	-/-
VESA, 720 x 480p	29.83	60	26.25	+/-
VESA, 720 x 576p	29.55	50	26	+/-
VESA, 800 x 600p	37.88	60	40	+/+
VESA, 1024 x 768p	48.36	60	65	-/-
HDTV, 1280 x 720p	37.5	50	74.25	+/+
HDTV, 1280 x 720p	45	60	74.25	+/+
HDTV, 1920 x 1080p	55.6	50	141.5	-/+
HDTV, 1920 x 1080p	67.5	60	148.5	+/+

#### **DP Display Modes**

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal/ Vertical)
VESA, 640 x 480	31.5	60	25.2	-/-
VESA, 800 x 600	37.88	60	40	+/+
VESA, 1024 x 768	48.36	60	65	-/-
HDTV, 1920 x 1080p	67.5	60	148.5	+/+
HDTV, 1920 x 1080p @ 100 Hz	113.187	100	235.500	+/-
HDTV, 1920 x 1080p @ 120 Hz	137.26	120	285.5	+/-
HDTV, 1920 x 1080p @ 144 Hz	166.59	144	346.5	+/-

HDTV, 1920 x 1080p @ 200 Hz	228	200	474.24	+/+
HDTV, 1920 x 1080p @ 240 Hz	278.4	240	556.8	+/+

NOTE: This monitor supports NVIDIA G-Sync and NVIDIA 3D Vision Ready. Please visit http://www.geforce.com to know whether your NVIDIA graphics card supports the G-SYNC feature.

#### **Electrical Specifications**

Model	AW2518H
Video input signals	<ul> <li>HDMI 1.4, 600 mV for each differential line, 100 ohm input impedance per differential pair</li> </ul>
	<ul> <li>DisplayPort 1.2, 600 mV for each differential line, 100 ohm input impedance per differential pair</li> </ul>
Synchronization input signals	Separate horizontal and vertical synchronization, polarity-free TTL level, SOG (Composite SYNC on green)
AC input voltage/frequency/current	100 VAC to 240 VAC / 50 Hz or 60 Hz <u>+</u> 3 Hz / 1.5 A (typical)
Inrush current	<ul> <li>120 V: 30 A (Max.) at 0 °C (cold start)</li> <li>220 V: 60 A (Max.) at 0 °C (cold start)</li> </ul>

#### **Physical Characteristics**

Model	AW2518H	
Signal cable type	• Digital: HDMI, 19 pins (cable not included)	
	Digital: DisplayPort, 20 pins	
	Universal Serial Bus: USB, 9 pins	
Dimensions (with stand)		
Height (extended)	523.3 mm (20.6 inches)	
Height (compressed)	418.4 mm (16.5 inches)	
Width	555.8 mm (21.88 inches)	

Depth	268.6 mm (10.57 inches)	
Dimensions (without stand)		
Height	327.9 mm (12.91 inches)	
Width	555.8 mm (21.88 inches)	
Depth	64.6 mm (2.54 inches)	
Stand dimensions		
Height (extended)	426.7 mm (16.8 inches)	
Height (compressed)	418.4 mm (16.5 inches)	
Width	465.7 mm (18.33 inches)	
Depth	268.6 mm (10.57 inches)	
Weight		
Weight with packaging	11.7 kg (25.79 lb)	
Weight with stand assembly and cables	7.14 kg (15.74 lb)	
Weight without stand assembly (For wall mount or VESA mount considerations - no cables)	3.5 kg (7.72 lb)	
Weight of stand assembly	3.28 kg (7.23 lb)	
Front frame gloss	Black Frame - 30 gloss unit (max.)	

#### **Environmental Characteristics**

Model	AW2518H
Compliant Standards	
Arsenic-Free glass and Mercu	ıry-Free for the panel only
Temperature	
Operating	0 °C to 40 °C (32 °F to 104 °F)
Non-operating	<ul> <li>Storage: -20 °C to 60 °C (-4 °F to 140 °F)</li> <li>Shipping: -20 °C to 60 °C (-4 °F to 140 °F)</li> <li>140 °F)</li> </ul>
Humidity	
Operating	10% to 80% (non-condensing)

Non-operating	<ul><li>Storage: 5% to 90% (non-condensing)</li><li>Shipping: 5% to 90% (non-condensing)</li></ul>
Altitude	
Operating	5,000 m (16,404 ft) (maximum)
Non-operating	12,192 m (40,000 ft) (maximum)
Thermal dissipation	<ul><li>249.1 BTU/hour (maximum)</li><li>88.7 BTU/hour (typical)</li></ul>

#### **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.

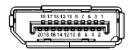
VESA Modes	Horizontal Sync	Vertical Sync	Video	Power Indicator	Power Consumption
Normal operation	Active	Active	Active		73 W (maximum)** 26 W (typical)
Active-off mode	Inactive	Inactive	Blanked	Amber (blinking)	Less than 0.5 W
Switch off	-	-	_	Off	Less than 0.3 W

<sup>\*</sup> Zero power consumption in OFF mode can only be achieved by disconnecting the main cable from the monitor.

<sup>\*\*</sup> Maximum power consumption with max luminance, and USB active.

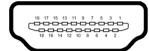
#### **Pin Assignments**

#### **DisplayPort Connector**



Pin Number	20-pin Side of the Connected Signal Cable
1	MLO(p)
2	GND
3	MLO(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

#### **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 that 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)

<sup>\*</sup> Up to 2 A on USB downstream port (port with ssen) lightning icon) with BC1.2-compliant 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**

- 1 upstream rear
- 2 downstream rear
- 2 downstream bottom
- Power Charging Port- the port with SS€0 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**

MARNING: 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.

To attach the monitor stand:

1. Place the monitor on a soft cloth or cushion.



2. Attach the stand riser till it snaps into place.



- 3. Route and connect the necessary cables to the monitor, as shown in the illustration.
  - a. Power cable
  - **b.** DP cable
  - c. HDMI cable (optional, cable not included)
  - **d.** USB upstream cable
  - e. USB downstream cables (optional, cable not included)



- NOTE: Route each cable neatly so that the cables will be organized after the cable cover is attached.
- MARNING: Do not plug-in or turn-on the power to the monitor until you are instructed to do so.
  - 4. Slide the cable cover till it snaps into place.

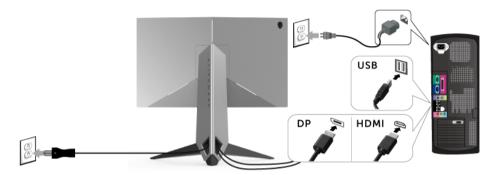


NOTE: Ensure that the cables may pass through the bottom of the cable cover.

#### Connecting the Computer

- MARNING: 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.
- NOTE: See also Attaching the Stand.

To connect your monitor to the computer:



- 1. Connect the other end of the connected DP or HDMI cable to your computer.
- **2.** Connect the upstream USB 3.0 port (cable supplied) to an appropriate USB 3.0 port on your computer. (See **Rear and Bottom View** for details.)
- **3.** Connect the USB 3.0 peripherals to the downstream USB 3.0 ports on the monitor.
- **4.** Plug the power cables for your computer and monitor into a nearby outlet.
- 5. Turn On the monitor and the computer.
  If your monitor displays an image, installation is complete. If it does not display an image, see Universal Serial Bus (USB) Specific Problems.
- NOTE: The graphics are used for the purpose of illustration only. Appearance of the computer may vary.

#### Removing the Monitor Stand

- NOTE: To prevent scratches on the LCD screen while removing the stand, ensure that the monitor is placed on a soft, clean surface.
- 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. Turn off the monitor.
- 2. Unplug the cables from the computer.
- 3. Place the monitor on a soft cloth or cushion.
- **4.** Gently slide off the cable cover from the monitor.



**5.** Unplug the cables from the monitor.



6. Press and hold the stand release button.



**7.** Lift the stand riser up and away from the monitor.



#### Wall Mounting (Optional)



(Screw dimension: M4 x 10 mm).

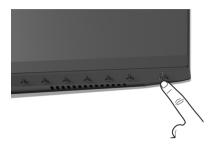
Refer to the instructions that come with the VESA-compatible wall mounting kit.

- 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 14 kg.

## Operating the Monitor

#### **Power On the Monitor**

Press the Power button to turn on the monitor.



#### **Using the Front-Panel Controls**

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



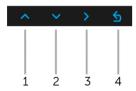
The following table describes the front-panel buttons:

Front-Panel Button		Description	
1	Shortcut key/ Preset Modes	Use this button to choose from a list of preset color modes.	
2	Shortcut key/ Game Enhance Mode	Use this button to launch the <b>Game Enhance Mode</b> menu.	
3	Shortcut key/ Dark Stabilizer	Use this button to launch the <b>Dark Stabilizer</b> menu.	

4	Shortcut key/ Brightness/ Contrast	Use this button to directly access the <b>Brightness/Contrast</b> menu.
5		Use the <b>MENU</b> button to launch the On-Screen Display (OSD). See <b>Accessing the Menu System</b> .
	Menu	
6	×	Use this button to exit the OSD main menu.
	Exit	

#### Front-Panel Button

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



Front-Panel Button		Description
1	<b>^</b> Up	Use the <b>Up</b> button to adjust (increase ranges) items in the OSD menu.
2	Down	Use the <b>Down</b> button to adjust (decrease ranges) items in the OSD menu.
3	> Select	Use the <b>Select</b> button to confirm your selection.
4	5 Back	Use the <b>Back</b> 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.

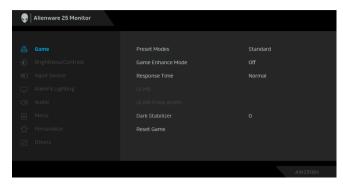




- 2. Press the and buttons to move between the setting options. As you move from one icon to another, the option name is highlighted. See the following table for a complete list of all the options available for the monitor.
- **3.** Press the button once to activate the highlighted option.
- **4.** Press the **and buttons** to select the desired parameter.
- **5.** Press to enter the submenu and then use the directional buttons, according to the indicators on the menu, to make your changes.
- **6.** Select the **5** button to return to the main menu.

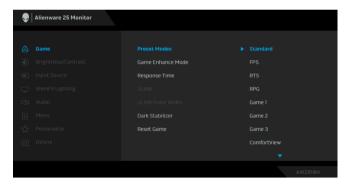
#### Menu and **Description** lcon Submenus Game Use this menu to personalize your visual gameplay experience.







Preset Modes Allows you to choose from a list of preset color modes.





- Standard: Loads the monitor's default color settings. This is the default preset mode.
- **FPS**: Loads color settings ideal for First-Person Shooter games.
- RTS: Loads color settings ideal for Real-Time Strategy
- **RPG**: Loads color settings ideal for Role-Playing games.
- Game 1/Game 2/Game 3: Allows you to customize the color settings for your gaming needs.

#### Preset Modes

**ComfortView:** Decreases the level of blue light emitted from the screen to make viewing more comfortable for your eyes.

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

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.
- 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.
- **Warm**: Increases the color temperature. The screen appears warmer with a red/yellow tint.
- Cool: Decreases the color temperature. The screen appears
  cooler with a blue tint.
- Custom Color: Allows you to manually adjust the color settings. Press the and buttons to adjust the three colors (R, G, B) values and create your own preset color mode.

## Mode

Game Enhance The feature offers three available functions to enhance your gameplay experience.





#### Off

Select to disable the functions under Game Enhance Mode.

#### Timer

Allows you to disable or enable the timer at the upper left corner of the display. The timer shows the time elapsed since the game starts. Select an option from the time-interval list to measure your target game rate.

#### · Frame Rate

Selecting **On** allows you to display the current frames per second when playing games. The higher the rate, the smoother the motion appears.

#### Display Alignment

Activate the function to help ensure the perfect alignment of the video contents from multiple displays.

Response Time Allows you to set the Response Time to Normal, Fast or Super Fast.

**NOTE:** The function is disabled when **ULMB** is set to **On**.

#### **ULMB**

**ULMB** (Ultra Low Motion Blur) helps have less of a motion blur effect while you are watching fast-moving images. When the graphics card supports G-SYNC, make sure that the Enable G-SYNC function is not selected in the NVIDIA Control Panel, **ULMB** will be automatically enabled.

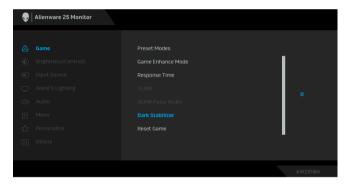
NOTE: This function is available when the refresh rate is 100 Hz, 120 Hz or 144 Hz.

**NOTE:** When ULMB is enabled, the message of ULMB Mode is displayed on the lower-left corner of the OSD. When G-**SYNC** is enabled in the NVIDIA Control Panel, the message of G-SYNC Mode is displayed instead. If your system doesn't support G-SYNC, then the message of Normal Mode is displayed.

#### **ULMB Pulse** Width

Allows you to adjust the panel's backlight a bit, so as to reduce motion blur. Use or to adjust the level from 10 to 100. Smaller values decrease motion blur and brightness.

Dark Stabilizer The feature improves the visibility in the dark gaming scenarios. The higher the value (between 0 to 3), the better visibility in dark area of the display image.



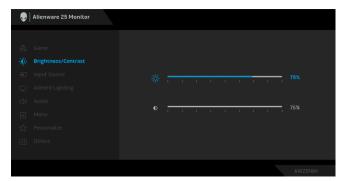


**Reset Game** Select this option to restore default game settings.



#### 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).

#### Contrast

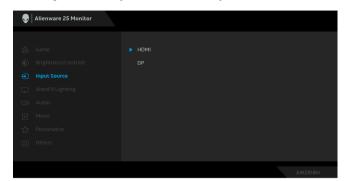
Adjust the **Brightness** first, and then adjust the **Contrast** only if further adjustment is necessary.

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.



HDMI

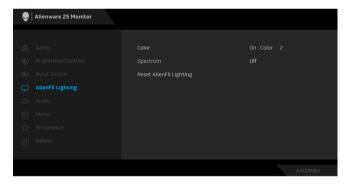
Select the **HDMI** input when you are using the HDMI connector.

DP

Select the **DP** input when you are using the DisplayPort (DP) connector.

AlienFX
Lighting

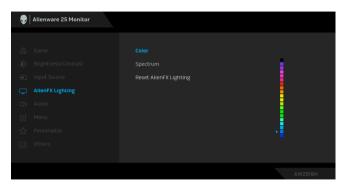
Use this menu to adjust the Alienware logo lighting and Triad lights on the back of the monitor.





### Color

To specify an LED lighting color, select **On** and press the button to highlight the **Color** option, then you can make a selection from the list of 20 available colors.





To turn off the LED lighting function, select Off.

#### Spectrum

When you select **On**, the LED lighting glows and changes colors in sequence of spectrum: red, orange, yellow, green, blue, indigo, and violet.

### Reset AlienFX Lighting

Select this option to restore default lighting settings.



#### Audio





### Volume

Allows you to set the volume level of headphone output.

Use ightharpoonup or ightharpoonup to adjust the volume level from 0 to 100.

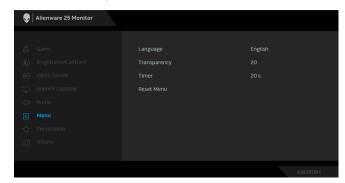
#### **Reset Audio**

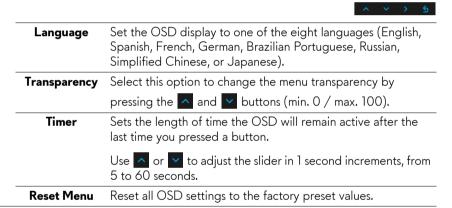
Select this option to restore default audio settings.



#### Menu

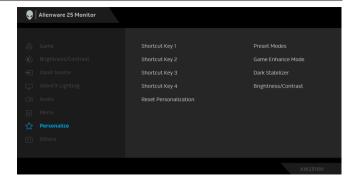
Select this option to adjust the settings of the OSD, such as, the languages of the OSD, the amount of time the menu remains on screen, and so on.







#### **Personalize**





Shortcut Key 1

Allows you to choose a feature from Preset Modes, Game
- Enhance Mode, Dark Stabilizer, Brightness/Contrast, Input

Shortcut Key 2 Source, or Volume and set it as a shortcut key.

**Shortcut Key 3** 

Shortcut Key 4

### Reset Personalization

Restores shortcut keys to factory defaults.



#### **Others**





Display Info

Displays the monitor's current settings.

Power Saving

The default setting is **On**, letting the monitor go to sleep as the system sleeps. Selecting **Off** may prevent the monitor from going into deep sleep and being unable to wake up.

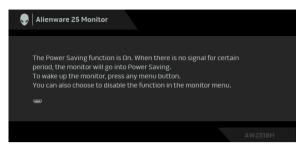
**NOTE:** Pressing any button (except the Power button) on the front panel of the monitor may also wake up the monitor after it goes into deep sleep.

**Factory Reset** 

Reset all settings to the factory preset values.

### **OSD Warning Message**

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



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 1920 x 1080.
- 4. Click OK.

In Windows® 10:

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

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

If you have a Dell desktop or portable computer:

 Go to 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**

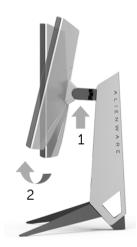


NOTE: The stand extends vertically up to 130 mm. The figure below illustrates how to extend the stand vertically.



# **Rotating the Monitor**

Before you rotate the monitor, your monitor should be fully vertically extended (Vertical Extension) and fully tilted up to avoid hitting the bottom edge of the monitor.



### Rotate clockwise



### Rotate counterclockwise



NOTE: To use the Display Rotation function (Landscape versus Portrait view) with your Dell computer, you require an updated graphics driver that is not included with this monitor. To download the graphics driver, go to www.dell.com/support and see the Download section for Video Drivers for latest driver updates.

NOTE: When in the Portrait View Mode, you may experience performance degradation in graphic-intensive applications (3D Gaming and etc.).

## Adjusting the Rotation Display Settings of Your System

After you have rotated your monitor, you need to complete the procedure below to adjust the Rotation Display Settings of your system.

NOTE: If you are using the monitor with a non-Dell computer, you need to go the graphics driver website or your computer manufacturer website for information on rotating the 'contents' on your display.

To adjust the Rotation Display Settings:

- 1. Right-click on the desktop and click **Properties**.
- 2. Select the Settings tab and click Advanced.
- **3.** If you have an ATI graphics card, select the **Rotation** tab and set the preferred rotation.
- **4.** If you have an nVidia graphics card, click the **nVidia** tab, in the left-hand column select **NVRotate**, and then select the preferred rotation.
- **5.** If you have an Intel<sup>®</sup> graphics card, select the **Intel** graphics tab, click **Graphic Properties**, select the **Rotation** tab, and then set the preferred rotation.
- NOTE: If you do not see the rotation option or it is not working correctly, go to www.dell.com/support and download the latest driver for your graphics card.

# **Troubleshooting**

MARNING: 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.
- NOTE: A 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 blinks amber.

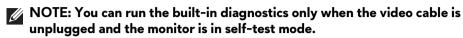


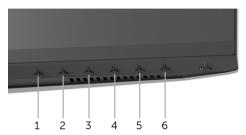
- NOTE: This box also appears during normal system operation, if the video cable becomes disconnected or damaged.
  - **4.** Turn Off your monitor and reconnect the video cable; then turn On both your computer and the monitor.

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

# **Built-in Diagnostics**

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





To run the built-in diagnostics:

- 1. Ensure that the screen is clean (no dust particles on the surface of the screen).
- **2.** 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 3** for 5 seconds. A gray screen appears.
- **4.** Carefully inspect the screen for abnormalities.
- **5.** Press **Button 3** 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, and white screens.

The test is complete when the white screen appears. To exit, press **Button 3** 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	<ul> <li>Ensure that the video cable connecting the monitor and the computer is properly connected and secure.</li> <li>Verify that the power outlet is functioning properly using any other electrical equipment.</li> <li>Ensure that the power button is depressed fully.</li> <li>Ensure that the correct input source is selected in the Input Source menu.</li> </ul>
No Video/ Power LED on	No picture or no brightness	<ul> <li>Increase brightness &amp; contrast controls via OSD.</li> <li>Perform monitor self-test feature check.</li> <li>Check for bent or broken pins in the video cable connector.</li> <li>Run the built-in diagnostics.</li> <li>Ensure that the correct input source is selected in the Input Source menu.</li> </ul>
Poor Focus	Picture is fuzzy, blurry, or ghosting	<ul> <li>Eliminate video extension cables.</li> <li>Reset the monitor to factory settings.</li> <li>Change the video resolution to the correct aspect ratio.</li> </ul>
Shaky/Jittery Video	Wavy picture or fine movement	<ul> <li>Reset the monitor to factory settings.</li> <li>Check environmental factors.</li> <li>Relocate the monitor and test in another room.</li> </ul>
Missing Pixels	LCD screen has spots	<ul> <li>Cycle power On-Off.</li> <li>Pixel that is permanently Off is a natural defect that can occur in LCD technology.</li> <li>For more information on Dell Monitor Quality and Pixel Policy, see Dell Support site at: http://www.dell.com/support/monitors.</li> </ul>
Stuck-on Pixels	LCD screen has bright spots	<ul> <li>Cycle power On-Off.</li> <li>Pixel that is permanently off is a natural defect that can occur in LCD technology.</li> <li>For more information on Dell Monitor Quality and Pixel Policy, see Dell Support site at: http://www.dell.com/support/monitors.</li> </ul>

Brightness Problems	Picture too dim or too bright	<ul><li>Reset the monitor to factory settings.</li><li>Adjust brightness &amp; contrast controls via OSD.</li></ul>
Geometric Distortion	Screen not centered correctly	Reset the monitor to factory settings.
Horizontal/ Vertical Lines	Screen has one or more lines	<ul> <li>Reset the monitor to factory settings.</li> <li>Perform monitor self-test feature check and determine if these lines are also in self-test mode.</li> <li>Check for bent or broken pins in the video cable connector.</li> <li>Run the built-in diagnostics.</li> </ul>
Synchronization Problems	Screen is scrambled or appears torn	<ul> <li>Reset the monitor to factory settings.</li> <li>Perform monitor self-test feature check to determine if the scrambled screen appears in self-test mode.</li> <li>Check for bent or broken pins in the video cable connector.</li> <li>Restart the computer in the safe mode.</li> </ul>
Safety Related Issues	Visible signs of smoke or sparks	<ul><li>Do not perform any troubleshooting steps.</li><li>Contact Dell immediately.</li></ul>
Intermittent Problems	Monitor malfunctions on & off	<ul> <li>Ensure that the video cable connecting the monitor to the computer is connected properly and is secure.</li> <li>Reset the monitor to factory settings.</li> <li>Perform monitor self-test feature check to determine if the intermittent problem occurs in self-test mode.</li> </ul>
Missing Color	Picture missing color	<ul> <li>Perform monitor self-test feature check.</li> <li>Ensure that the video cable connecting the monitor to the computer is connected properly and is secure.</li> <li>Check for bent or broken pins in the video cable connector.</li> </ul>

Wrong Color	Picture color not good	Change the settings of the <b>Preset Modes</b> in the <b>Game</b> menu OSD depending on the application. Adjust R/G/B value under <b>Custom Color</b> in <b>Game</b> menu OSD. Run the built-in diagnostics.
Image retention from a static image left on the monitor for a long period of time	from the static	Use the Power Management feature to turn off the monitor at all times when not in use (for more information, see <b>Power Management Modes</b> ). 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	Reset the monitor to factory settings.
Cannot adjust the monitor with the buttons on the front panel	OSD does not appear on the screen	<ul> <li>Turn Off the monitor, unplug the power cord, plug it back, and then turn On the monitor.</li> </ul>
No Input Signal when user controls are pressed	No picture, the LED light is blue	<ul> <li>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.</li> <li>Check whether the signal cable is plugged in properly. Re-plug the signal cable if necessary.</li> <li>Reset the computer or video player.</li> </ul>
The picture does not fill the entire screen		<ul> <li>Due to different video formats (aspect ratio) of DVDs, the monitor may display in full screen.</li> <li>Run the built-in diagnostics.</li> </ul>

# Universal Serial Bus (USB) Specific Problems

Specific Symptoms	What You Experience	Possible Solutions
USB interface is not working	USB peripherals are not working	<ul> <li>Check that your monitor is turned On.</li> <li>Reconnect the upstream cable to your computer.</li> <li>Reconnect the USB peripherals (downstream connector).</li> <li>Switch Off and then turn On the monitor again.</li> <li>Reboot the computer.</li> <li>Some USB devices like external portable HDD require higher electric current; connect the device directly to the computer system.</li> </ul>
High Speed USB 3.0 interface is slow	High Speed USB 3.0 peripherals working slowly or not working at all	<ul> <li>Check that your computer is USB 3.0-capable.</li> <li>Some computers have USB 3.0, USB 2.0, and USB 1.1 ports. Ensure that the correct USB port is used.</li> <li>Reconnect the upstream cable to your computer.</li> <li>Reconnect the USB peripherals (downstream connector).</li> <li>Reboot the computer.</li> </ul>
Wireless USB peripherals stop working when a USB 3.0 device is plugged in	Wireless USB peripherals responding slowly or only working as the distance between itself and its receiver decreases	<ul> <li>Increase the distance between the USB 3.0 peripherals and the wireless USB receiver.</li> <li>Position your wireless USB receiver as close as possible to the wireless USB peripherals.</li> <li>Use a USB-extender cable to position the wireless USB receiver as far away as possible from the USB 3.0 port.</li> </ul>

# **Appendix**

### WARNING: Safety Instructions

MARNING: Use of controls, adjustments, or procedures other than those specified in this documentation may result in exposure to shock, electrical hazards, and for 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