

Alienware AW2518HF Monitor

User's Guide

Model: AW2518HF
Regulatory model: AW2518HFb

A L I E N W A R E 

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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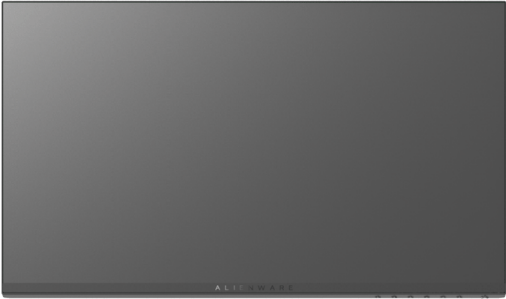

About Your Monitor






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

	Cable Cover
	Power Cable (Varies by Country)
	HDMI Cable
	USB 3.0 Upstream Cable (Enables the USB Ports on the Monitor)
	<ul style="list-style-type: none">▪ Drivers and Documentation Media▪ Quick Setup Guide▪ Safety, Environmental, and Regulatory Information

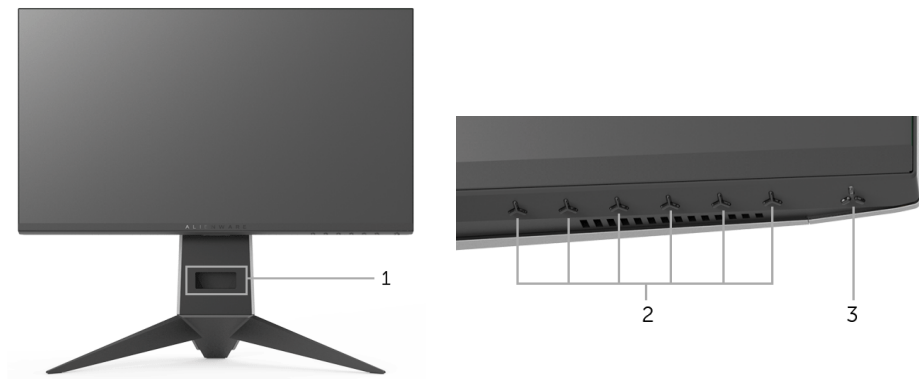
Product Features

The **Alienware AW2518HF** 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.
- AMD FreeSync 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.
- Dell Display Manager Software included (comes in the CD shipped with the monitor).
- 0.3 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	Function buttons (For more information, see Operating the Monitor)
3	Power On/Off button (with LED indicator)

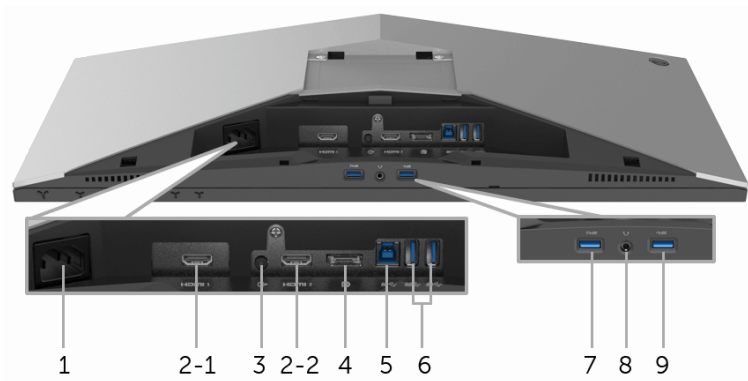
Back View



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 the 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 (1, 2)	HDMI port	Connect your computer with HDMI cable (shipped with your monitor).
3	Line-out port	Connect your speakers. NOTE: This port does not support headphones.
4	DisplayPort	Connect your computer with DP cable.
5	USB upstream port	Connect the USB cable (shipped with your monitor) to this port and your computer to enable the USB ports on your monitor.
6, 9	USB 3.0 port	Connect your USB device. NOTE: 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	AW2518HF
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 mm ² (255.05 inch ²)
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/m ² (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 style="list-style-type: none">▪ USB 3.0 super-speed hub (with 1 x USB 3.0 upstream port)▪ 4 x USB 3.0 downstream ports (including 1 port which supports power-charging)

Connectivity	<ul style="list-style-type: none">• 1 x DP 1.2• 2 x HDMI 2.0• 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°
Dell Display Manager (DDM) Compatibility	Yes

* Color gamut (typical) is based on CIE1976 (82%) and CIE1931 (72%) test standards.

Resolution Specifications

Model	AW2518HF
Horizontal scan range	249.1 kHz to 263 kHz (automatic)
Vertical scan range	30 Hz to 240 Hz (automatic)
Maximum preset resolution	1920 x 1080 at 240 Hz

Supported Video Modes

Model	AW2518HF
Video display capabilities (HDMI & DP playback)	480i, 480p, 576i, 576p, 720p, 1080i, 1080p, FHD

Preset Display Modes

HDMI Display Modes

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal/Vertical)
VESA, VGA, 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 @ 120 Hz	137.26	120	285.5	+/-
HDTV, 1920 x 1080p @ 144 Hz	166.59	144	346.5	+/-
HDTV, 1920 x 1080p @ 240 Hz	291.31	240	594.27	+/-

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 @ 120 Hz	137.26	120	285.5	+/-
HDTV, 1920 x 1080p @ 144 Hz	166.59	144	346.5	+/-
HDTV, 1920 x 1080p @ 240 Hz	291.31	240	594.27	+/-

 **NOTE: This monitor supports AMD FreeSync.**

Electrical Specifications

Model	AW2518HF
Video input signals	<ul style="list-style-type: none">• HDMI 2.0, 600 mV for each differential line, 100 ohm input impedance per differential pair• DisplayPort 1.2, 600 mV for each differential line, 100 ohm input impedance per differential pair
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 \pm 3 Hz / 1.5 A (typical)
Inrush current	<ul style="list-style-type: none">• 120 V: 30 A (Max.) at 0 °C (cold start)• 220 V: 60 A (Max.) at 0 °C (cold start)

Physical Characteristics

Model	AW2518HF
Signal cable type	<ul style="list-style-type: none">• Digital: HDMI, 19 pins• Digital: DisplayPort, 20 pins (cable not included)• 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	11.3 kg (24.91 lb)
Weight with stand assembly and cables	6.90 kg (15.21 lb)
Weight without stand assembly (For wall mount or VESA mount considerations - no cables)	3.38 kg (7.45 lb)
Weight of stand assembly	3.22 kg (7.09 lb)
Front frame gloss	Black Frame - 20 gloss unit (max.)

Environmental Characteristics

Model	AW2518HF
Compliant Standards	
<ul style="list-style-type: none"> ENERGY STAR certified Monitor EPEAT Silver registered in the U.S. EPEAT registration varies by country. See www.epeat.net for registration status by country Arsenic-Free glass and Mercury-Free for the panel only 	
Temperature	
Operating	0 °C to 40 °C (32 °F to 104 °F)
Non-operating	<ul style="list-style-type: none"> Storage: -20 °C to 60 °C (-4 °F to 140 °F) Shipping: -20 °C to 60 °C (-4 °F to 140 °F)
Humidity	
Operating	10% to 80% (non-condensing)
Non-operating	<ul style="list-style-type: none"> Storage: 5% to 90% (non-condensing) Shipping: 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	<ul style="list-style-type: none">• 221.8 BTU/hour (maximum)• 60.0 BTU/hour (typical)

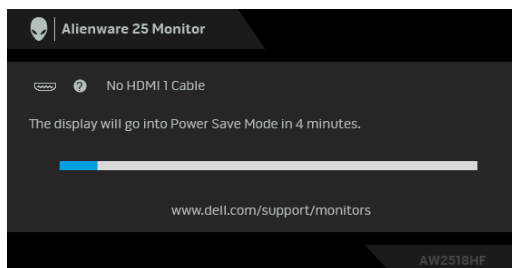
Power Management Modes

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	Blue	65 W (maximum)** 17.6 W (typical)
Active-off mode	Inactive	Inactive	Blanked	Amber (blinking)	Less than 0.3 W
Switch off	-	-	-	Off	Less than 0.3 W

Energy Star	Power Consumption
P _{on}	13.5 W
E _{TEC}	43.1 kWh

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



 **NOTE: The message may be slightly different according to the connected input signal.**

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



 **NOTE:**

P_{on}: Power consumption of on mode as defined in Energy Star 7.0 version.

E_{TEC}: Total energy consumption in kWh as defined in Energy Star 7.0 version.

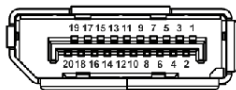
* Zero power consumption in OFF mode can only be achieved by disconnecting the main cable from the monitor.

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

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

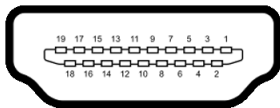
Pin Assignments

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

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

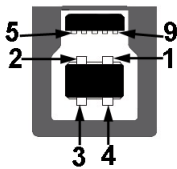
This section gives you information about the USB ports that are available on the monitor.

 **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)

* Up to 2 A on USB downstream port (port with  battery 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  battery 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.

To attach the monitor stand:

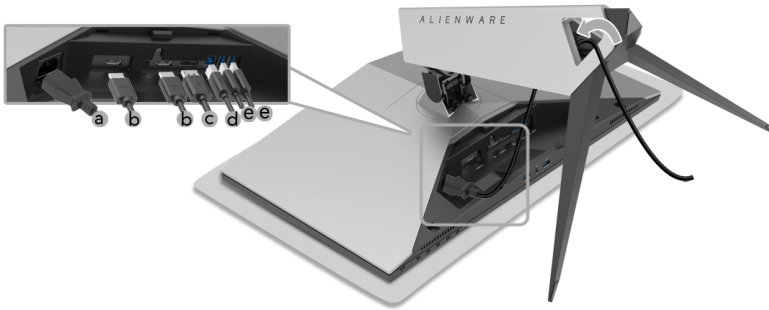
1. Place the monitor on a soft cloth or cushion.



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. HDMI cable
 - c. DP 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.

WARNING: 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.

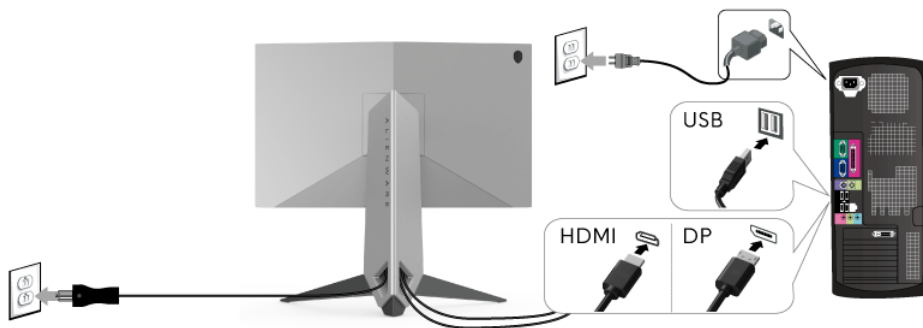
Connecting the Computer

⚠ 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.

✎ 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](#).

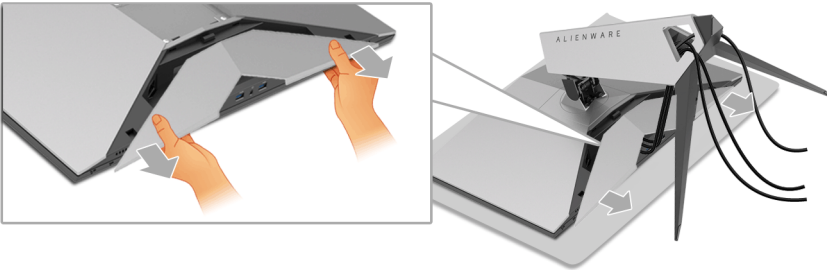
✎ NOTE: The graphics are used for the purpose of illustration only. Appearance of the computer may vary.

Removing the Monitor Stand

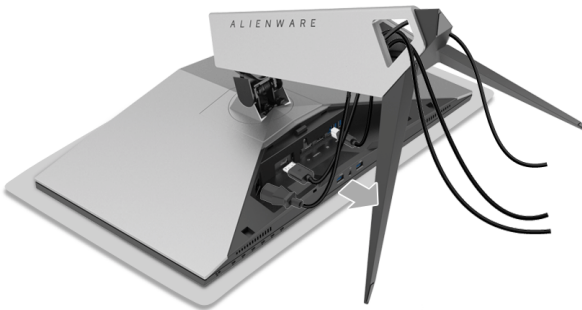
- 🔧 **NOTE:** To prevent scratches on the LCD screen while removing the stand, ensure that the monitor is placed on a soft, clean surface.
- 🔧 **NOTE:** This is applicable for a monitor with a stand. When any other stand is bought, please refer to the respective stand setup guide for the set-up instructions.

To remove the stand:

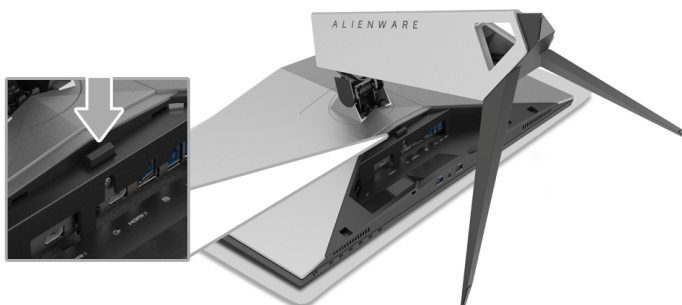
1. Turn off the monitor.
2. Unplug the cables from the computer.
3. Place the monitor on a soft cloth or cushion.
4. Using your thumbs, apply gentle pressure on the cable cover to horizontally slide it off from the monitor.



5. Unplug the cables from the monitor.



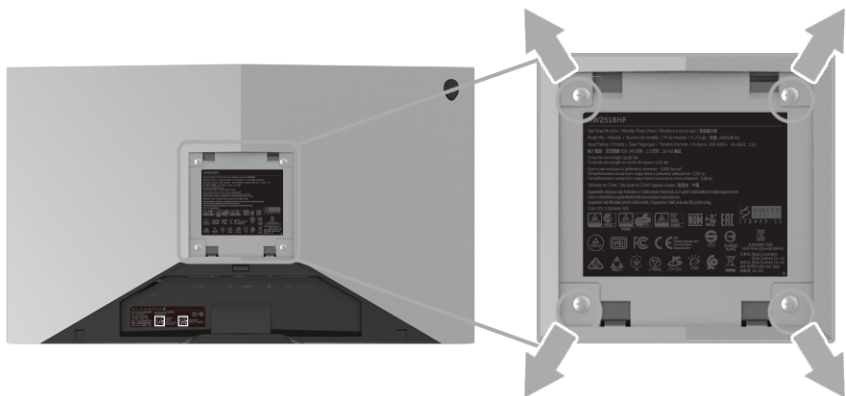
6. Press and hold the stand release button.



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.

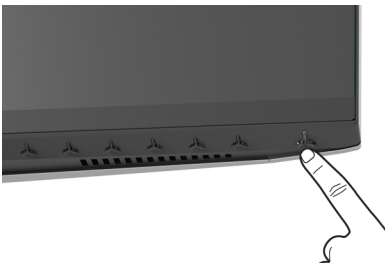
1. Place the monitor panel on a soft cloth or cushion on a stable, flat table.
2. Remove the stand.
3. Use a Phillips crosshead screwdriver to remove the four screws securing the plastic cover.
4. Attach the mounting bracket from the wall mounting kit to the monitor.
5. Mount the monitor on the wall 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 13.52 kg.

Operating the Monitor

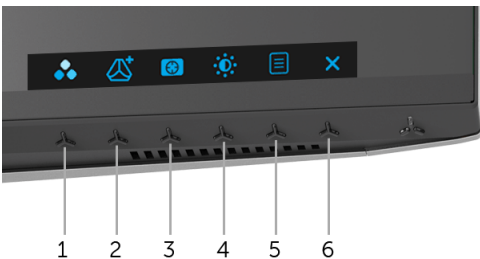
Power On the Monitor

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 Game Enhance Mode menu.
3	 Shortcut key/ Dark Stabilizer	Use this button to launch the Dark Stabilizer menu.

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

Front-Panel Button


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



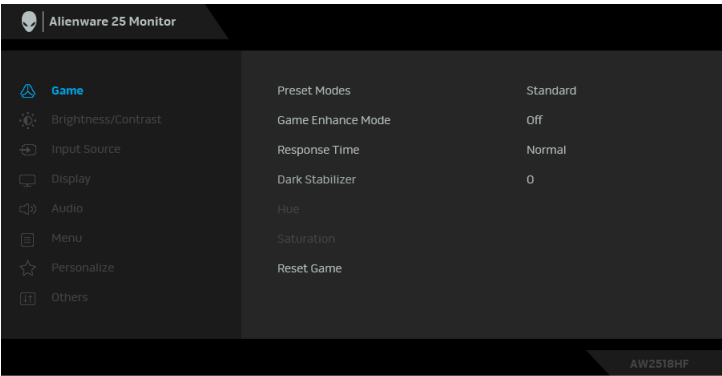
Front-Panel Button	Description
1  Up	Use the Up button to adjust (increase ranges) items in the OSD menu.
2  Down	Use the Down button to adjust (decrease ranges) items in the OSD menu.
3  Select	Use the Select button to confirm your selection.
4  Back	Use the Back button to go back to the previous menu.








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.



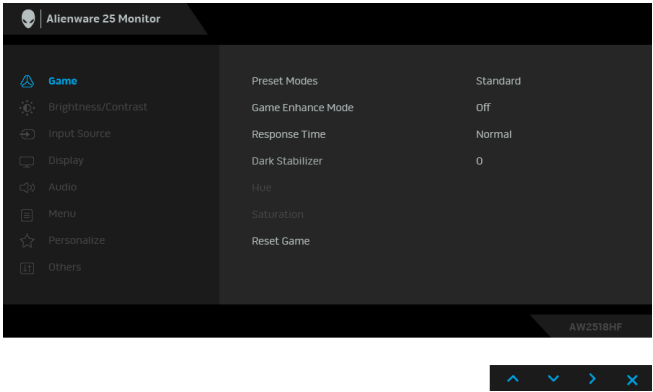
2. Press the  and  buttons to move between the setting options. As you move from one icon to another, the option name is highlighted. See the following table for a complete list of all the options available for the monitor.
3. Press the  button once to activate the highlighted option.
4. Press the  and  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  button to return to the main menu.

Icon	Menu and Submenus	Description
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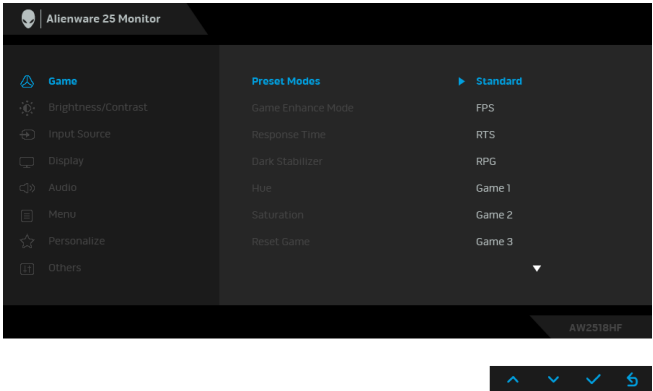


Game

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 games.
- **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.

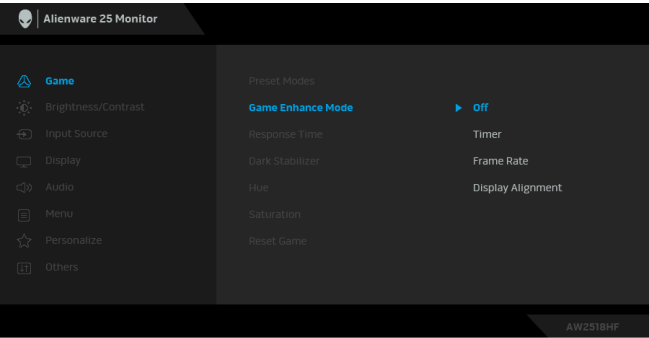
-
- Preset Modes** ▪ **ComfortView:** Decreases the level of blue light emitted from the screen to make viewing more comfortable for your eyes.

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.
 4. Look away from your monitor and gaze at a distant object at 20 feet away for at least 20 seconds during the breaks.
 5. Perform stretches to relieve tension in the neck, arm, back, and shoulders during the breaks.
- **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.
-

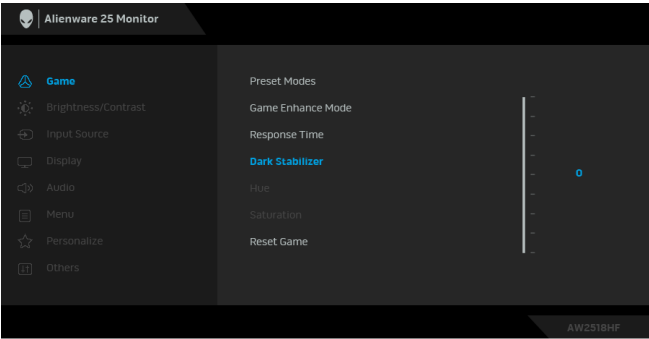
Game Enhance Mode The feature offers three available functions to enhance your gameplay experience.






- **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**.

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.






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  to adjust the hue level from 0 to 100.


Use  to increase the green shade of the video image.

Use  to increase the purple shade of the video image.

NOTE: Hue adjustment is available only when you select **FPS**, **RTS**, or **RPG** preset mode.

Saturation This feature can adjust the color saturation of the video image. Use  or  to adjust the saturation level from 0 to 100.

Use  to increase the colorful appearance of the video image.

Use  to increase the monochrome appearance of the video image.

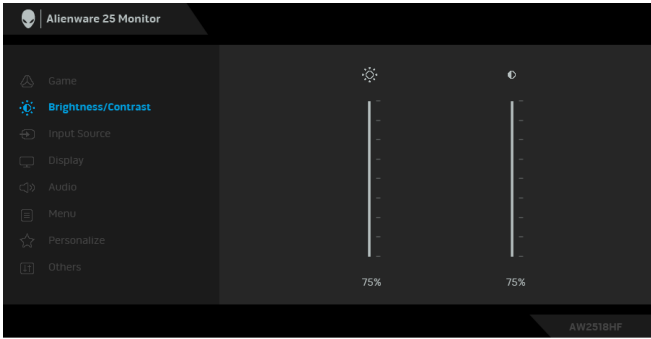
NOTE: Saturation adjustment is available only when you select **FPS**, **RTS**, or **RPG** preset mode.

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.

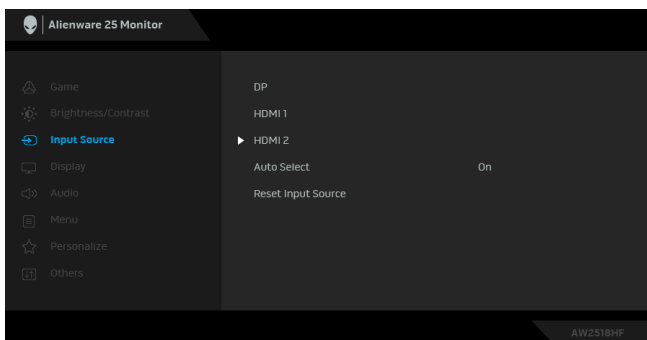
Press the  button to increase the contrast and press the  button to decrease the contrast (min. 0 / max. 100).

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.

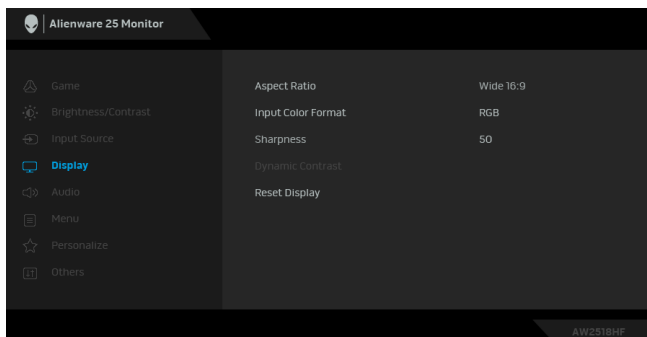


DP	Select the DP input when you are using the DP connector.
HDMI 1 HDMI 2	Select the HDMI 1 or HDMI 2 input when you are using the HDMI connectors.
Auto Select	Turning on the function allows you to scan for available input sources.
Reset Input Source	Reset your monitor input settings to the factory settings.





Display

Use **Display** to adjust images.




Aspect Ratio	Adjusts the image ratio to Wide 16:9 , Auto Resize , 4:3 , or 1:1 .
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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 DP or HDMI cable. YPbPr: Select this option if your DVD player supports only YPbPr output.
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Sharpness	This feature can make the image look sharper or softer. Use  or  to adjust the sharpness level from 0 to 100.
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Dynamic Contrast	Allows you to increase the level of contrast to provide sharper and more detailed image quality.
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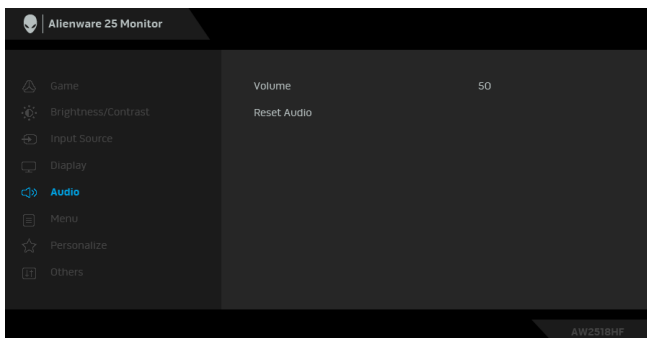
Press the  button to select the **Dynamic Contrast "On"** or **"Off"**.



NOTE: Dynamic Contrast provides higher contrast if you select these preset modes: **FPS**, **RTS**, **RPG**, **Game 1**, **Game 2**, and **Game 3**.

Reset Display	Select this option to restore default display settings.
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Audio



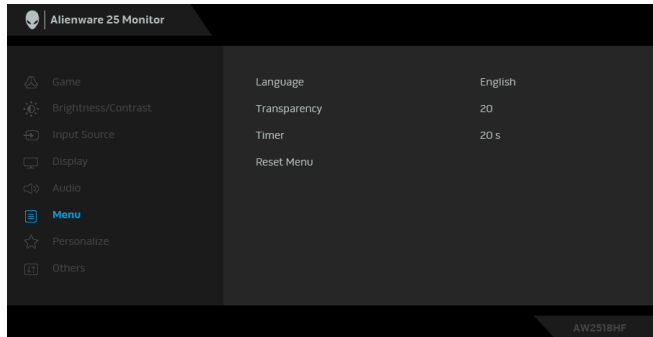
Volume	Allows you to set the volume level of headphone output. Use  or  to adjust the volume level from 0 to 100.
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Reset Audio	Select this option to restore default audio settings.
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Menu



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



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  buttons (min. 0 / max. 100).

Timer

Sets the length of time the OSD will remain active after the last time you pressed a button.

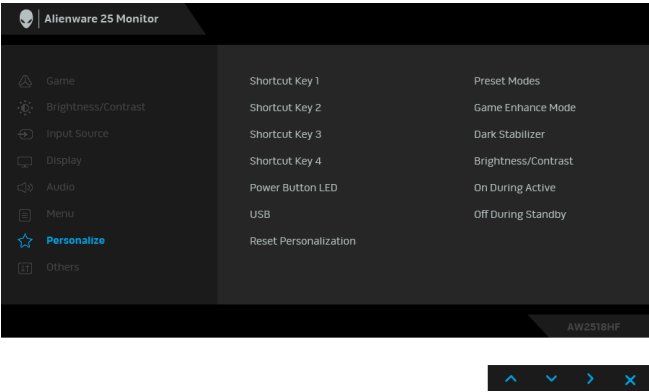
Use  or  to adjust the slider in 1 second increments, from 5 to 60 seconds.

Reset Menu

Reset all OSD settings to the factory preset values.



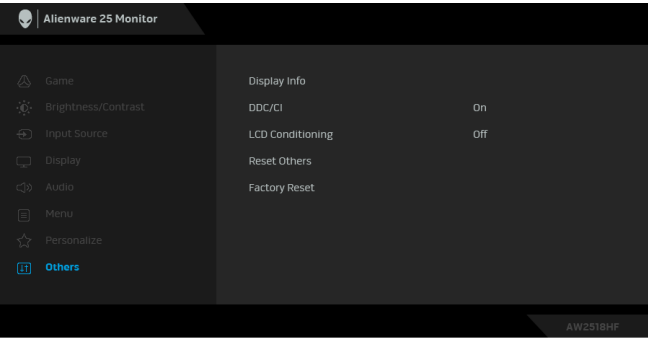
Personalize



Shortcut Key 1	Allows you to choose a feature from Preset Modes, Game Enhance Mode, Dark Stabilizer, Brightness/Contrast, Input Source, Aspect Ratio, or Volume and set it as a shortcut key.
Shortcut Key 2	
Shortcut Key 3	
Shortcut Key 4	
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 grayed out when the USB upstream cable plugs in.
Reset Personalization	Reset all settings under the Personalize menu to the factory preset values.



Others

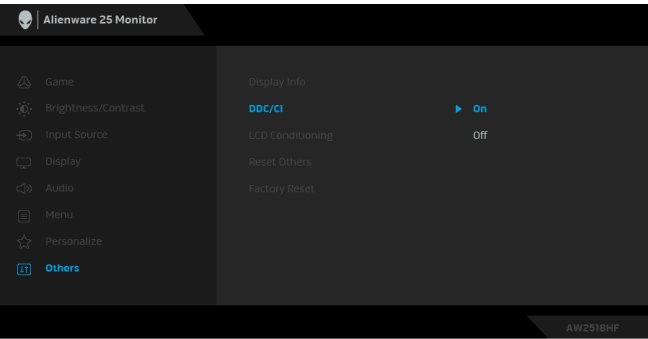


Display Info Displays the monitor's current settings.

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.

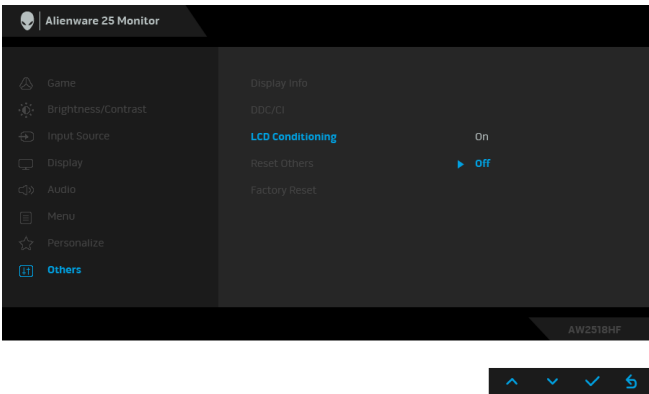
You can disable this feature by selecting **Off**.

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 **On**.

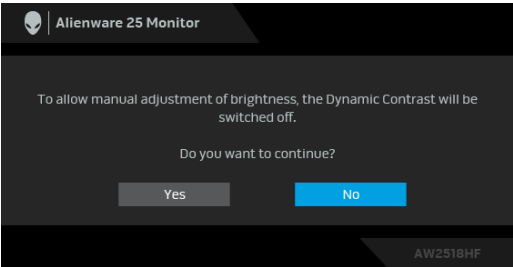


Reset Others Reset all settings under the **Others** menu to the factory preset values.

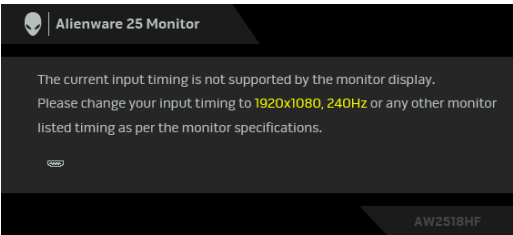
Factory Reset Reset all settings to the factory preset values.

OSD Warning Message

When the **Dynamic Contrast** feature is enabled (in these preset modes: **FPS**, **RTS**, **RPG**, **Game 1**, **Game 2**, or **Game 3**), the manual brightness adjustment is disabled.



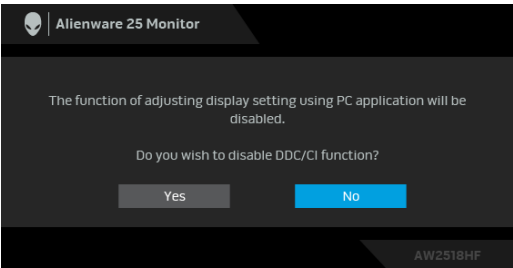
When the monitor does not support a particular resolution mode, you will see the following message:



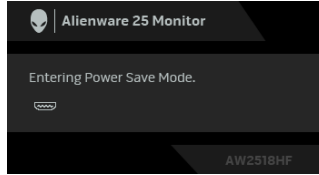
 **NOTE: The message may be slightly different according to the connected input signal.**

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 1920 x 1080.

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



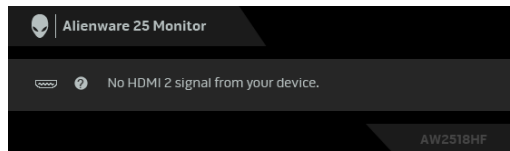
When the monitor enters the **Power Save** mode, the following message appears:



Activate the computer and wake up the monitor to gain access to the [OSD](#).

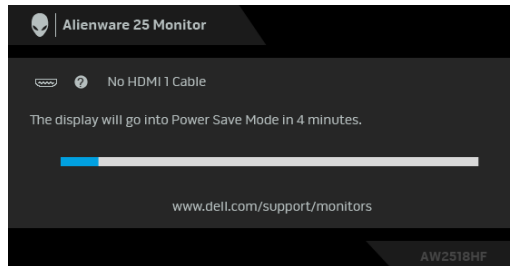
 **NOTE: The message may be slightly different according to the connected input signal.**

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



 **NOTE: The message may be slightly different according to the connected input signal.**

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



 **NOTE: The message may be slightly different according to the connected input signal.**

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 x 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):

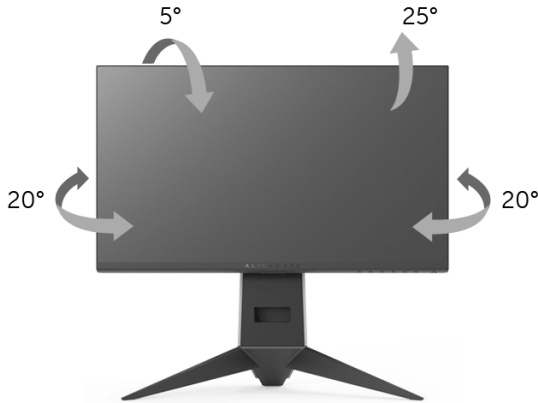
- Go to the support site for your computer and download the latest graphic drivers.
- Go to your graphics card website and download the latest graphic drivers.

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

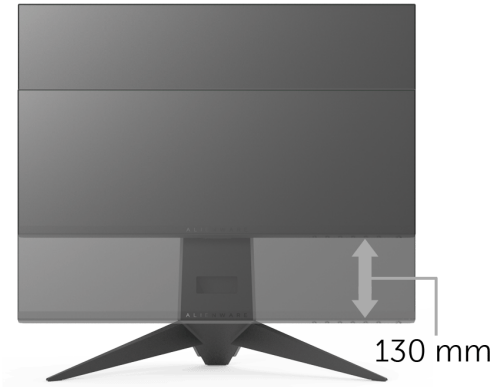
With the stand attached to the monitor, you can tilt and swivel the monitor for the most comfortable viewing angle.



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

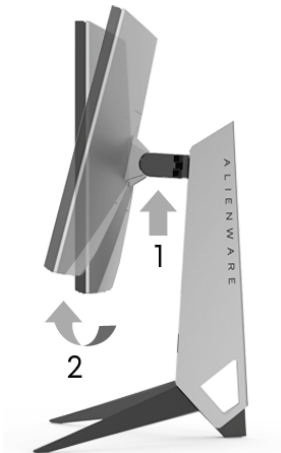
Vertical Extension

 **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[®] 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

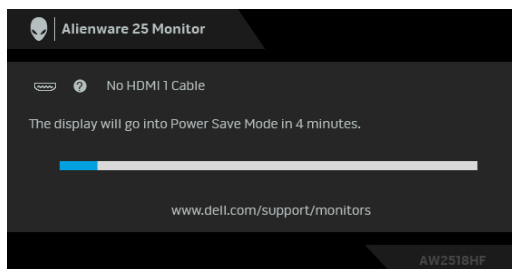
 **WARNING:** Before you begin any of the procedures in this section, follow the [Safety Instructions](#).

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.
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 blue. Also, depending upon the selected input, the dialog shown below will continuously scroll through the screen.



 **NOTE:** The message may be slightly different according to the connected input signal.

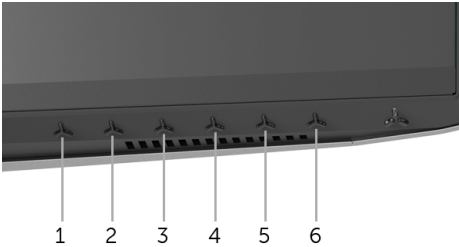
4. This box also appears during normal system operation, if the video cable becomes disconnected or damaged.
5. Turn Off your monitor and reconnect the video cable; then turn On both your computer and the monitor.

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 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 style="list-style-type: none">▪ Ensure that the video cable connecting the monitor and the computer is properly connected and secure.▪ Verify that the power outlet is functioning properly using any other electrical equipment.▪ Ensure that the power button is depressed fully.▪ Ensure that the correct input source is selected in the Input Source menu.
No Video/ Power LED on	No picture or no brightness	<ul style="list-style-type: none">▪ 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	<ul style="list-style-type: none">▪ 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	<ul style="list-style-type: none">▪ Reset the monitor to factory settings.▪ Check environmental factors.▪ Relocate the monitor and test in another room.
Missing Pixels	LCD screen has spots	<ul style="list-style-type: none">▪ Cycle power On-Off.▪ Pixel that is permanently Off is a natural defect that can occur in LCD technology.▪ For more information 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	<ul style="list-style-type: none">▪ Cycle power On-Off.▪ Pixel that is permanently off is a natural defect that can occur in LCD technology.▪ For more information 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	<ul style="list-style-type: none"> ▪ Reset the monitor to factory settings. ▪ Adjust brightness & contrast controls via OSD.
Geometric Distortion	Screen not centered correctly	<ul style="list-style-type: none"> ▪ Reset the monitor to factory settings.
Horizontal/Vertical Lines	Screen has one or more lines	<ul style="list-style-type: none"> ▪ 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	<ul style="list-style-type: none"> ▪ 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 <i>safe mode</i>.
Safety Related Issues	Visible signs of smoke or sparks	<ul style="list-style-type: none"> ▪ Do not perform any troubleshooting steps. ▪ Contact Dell immediately.
Intermittent Problems	Monitor malfunctions on & off	<ul style="list-style-type: none"> ▪ 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	<ul style="list-style-type: none"> ▪ Perform monitor self-test feature check. ▪ Ensure that the video cable connecting the monitor to the computer is connected properly and is secure. ▪ Check for bent or broken pins in the video cable connector.

Wrong Color	Picture color not good	<ul style="list-style-type: none"> Change the settings of the Preset Modes in the Game menu OSD depending on the application. Adjust R/G/B value under Custom Color in Game 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 style="list-style-type: none"> Turn Off the monitor, unplug the power cord, plug it back, and then turn On the monitor.
No Input Signal when user controls are pressed	No picture, the LED light is blue	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Due to different video formats (aspect ratio) of DVDs, the monitor may display in full screen. Run the built-in diagnostics.

Universal Serial Bus (USB) Specific Problems

Specific Symptoms	What You Experience	Possible Solutions
USB interface is not working	USB peripherals are not working	<ul style="list-style-type: none">▪ 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.
High Speed USB 3.0 interface is slow	High Speed USB 3.0 peripherals working slowly or not working at all	<ul style="list-style-type: none">▪ 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 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 style="list-style-type: none">▪ 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 USB peripherals.▪ Use a USB-extender cable to position the wireless USB receiver as far away as possible from the USB 3.0 port.

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