

ID2456

Display User Guide

IMPORTANT: Please read this User Guide to obtain important information on installing and using your product in a safe manner, as well as registering your product for future service. Warranty information contained in this User Guide will describe your limited coverage from ViewSonic® Corporation, which is also found on our web site at <http://www.viewsonic.com> in English, or in specific languages using the Regional selection box in the upper right corner of our website.

Model No. VS18859
P/N: ID2456

Thank you for choosing ViewSonic®

As a world-leading provider of visual solutions, ViewSonic® is dedicated to exceeding the world's expectations for technological evolution, innovation, and simplicity. At ViewSonic®, we believe that our products have the potential to make a positive impact in the world, and we are confident that the ViewSonic® product you have chosen will serve you well.

Once again, thank you for choosing ViewSonic®!

Safety Precautions

Please read the following **Safety Precautions** before you start using the device.

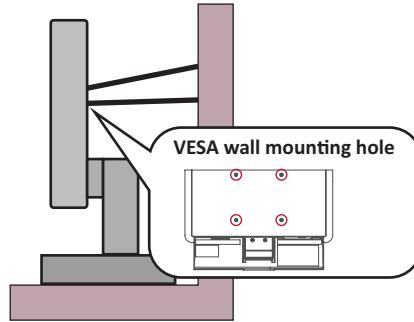
- Keep this user guide in a safe place for later reference.
- Read all warnings and follow all instructions.
- Sit at least 18" (45 cm) away from the device.
- Allow at least 4" (10 cm) clearance around the device to ensure proper ventilation.
- Place the device in a well-ventilated area. Do not place anything on the device that prevents heat dissipation.
- Do not use the device near water. To reduce the risk of fire or electric shock, do not expose the device to moisture.
- Avoid exposing the device to direct sunlight or other sources of sustained heat.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other devices (including amplifiers) that may increase the temperature of the device to dangerous levels.
- Use a soft, dry cloth to clean the external housing. For more information, refer to the "Maintenance" section of this manual.
- Avoid touching the screen, as oil may collect on the screen if you touch it.
- Do not touch the screen surface with sharp or hard objects, as it may cause damage to the screen.
- Do not place the device on cloth or other materials that may be placed between the product and supporting furniture.
- When moving the device, be careful not to drop or bump the device on anything.
- Do not place the device on an uneven or unstable surface. The device may fall over resulting in an injury or a malfunction.
- Do not place any heavy objects on the device or connection cables.
- Always use cabinets, stands, or installation methods recommended by the manufacturer of the device set.
- Always use furniture that can safely support the device.
- Always ensure the device is not overhanging the edge of the supporting furniture.
- Do not place the device on tall furniture, such as cupboards or bookcases, without anchoring both the furniture and the device to a suitable support.
- Always educate children about the dangers of climbing on furniture to reach the device or related equipment.

- Do not place the monitor where children are likely to be present.
- Do not place items that might tempt children to climb, such as toys and remote controls, on the top of the device or furniture on which the product is placed.
- If smoke, an abnormal noise, or a strange odor is present, immediately turn the device off and call your dealer or ViewSonic®. It is dangerous to continue using the device.
- Do not attempt to circumvent the safety provisions of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade and the third prong are provided for your safety. If the plug does not fit into your outlet, obtain an adapter and do not attempt to force the plug into the outlet.
- When connecting to a power outlet, Do not remove the grounding prong. Please ensure grounding prongs are never removed.
- Always route and manage cords and cables connected to your device so they cannot be tripped over, pulled, or grabbed.
- Protect the power cord from being treaded upon or pinched, particularly at the plug, and at the point where it emerges from the equipment. Ensure that the power outlet is located near the equipment so that it is easily accessible.
- Disconnect the power plug from the power outlet if the device is not being used for a long period of time.
- Please confirm the distribution system installed in the building. The system should provide a circuit breaker rated at 120/240V, 20A.
- Only use attachments/accessories, such as carts, stands, tripods, brackets or tables, specified by the manufacturer.
- When a cart is used, use with caution when moving the cart/equipment combination to avoid injury from tipping over.
- Refer all servicing to qualified service personnel. Service will be required when the unit has been damaged in any way, such as:
 - » if the power-supply cord or plug is damaged.
 - » if liquid is spilled onto or objects fall into the unit.
 - » if the unit is exposed to rain or moisture.
 - » if the unit does not operate normally or has been dropped.
- When using ear-/headphones, adjust the volume to appropriate levels, or hearing damage may result.



- Fastening the display to a wall or fixed object using cordage or other restraining devices can help support the weight of the display in order to prevent the display from falling over.

Hole pattern (W x H)	Interface Pad (W x H x D)	Pad Hole	Screw Specification & Quantity
100 x 100 mm	115 x 115 x 2.6 mm	Ø 5 mm	M4 x 10 mm 4 pieces



NOTE:

- Restraining device/cordage should be able to withstand 100N force.
- Make sure the cordage is straightened, and any slack is removed. The back of the device shall face the wall to ensure the device cannot tilt under external force.
- Make sure the display does not tilt under external force at any height and rotation angle of the device.
- If the existing display is going to be retained and relocated, the same considerations as above should be applied.
- **NOTE:** This product is not specifically designed for 24/7 usage in any environment.

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Introduction

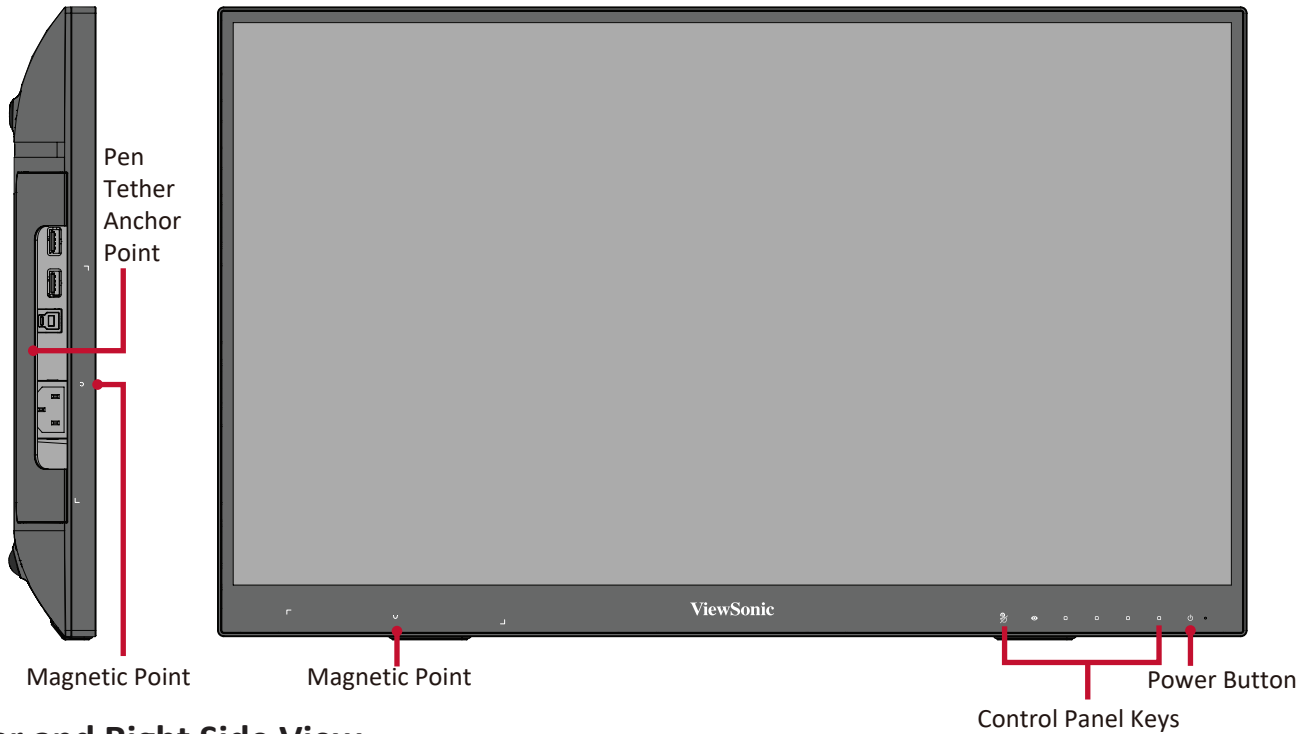
Package Contents

- Touch display
- Power cord
- USB Type C cable
- HDMI cable
- USB 3.0 upstream cable (Type B to Type A)
- Quick start guide
- MPP2.0 Active Pen
- Pen tether

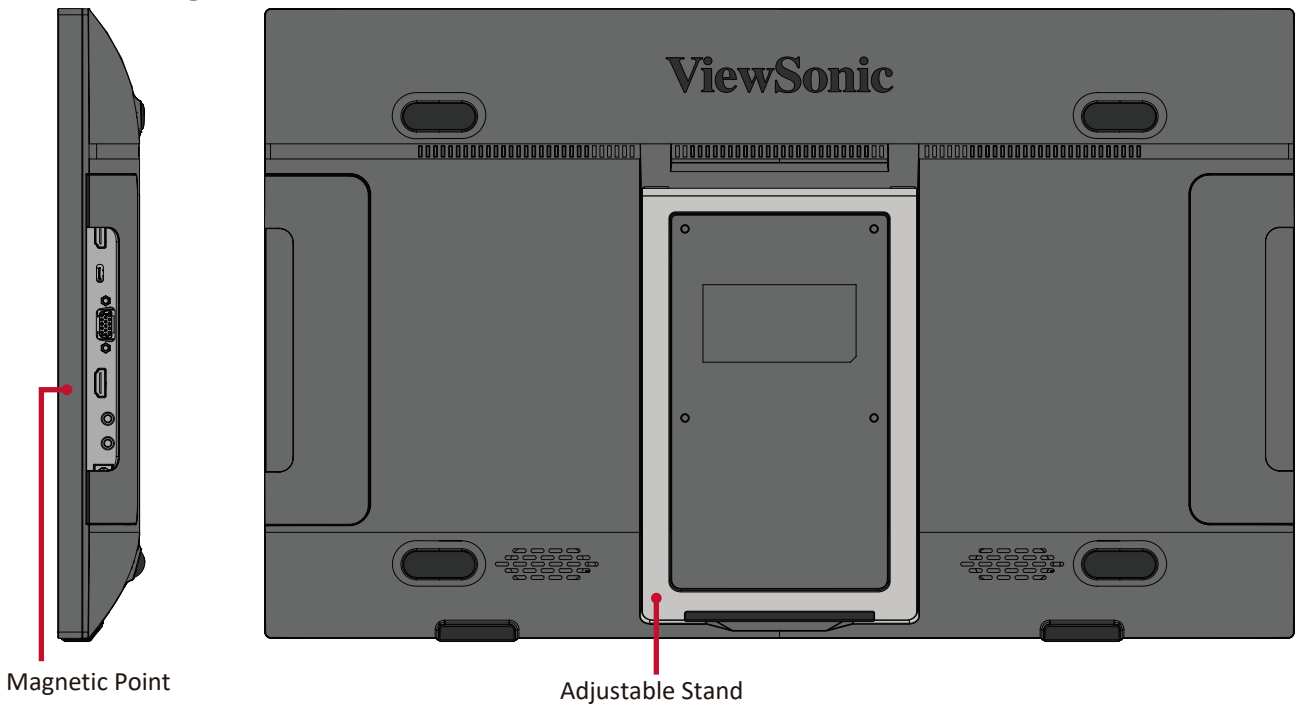
NOTE: The power cord and video cables included in your package may vary depending on your country. Please contact your local reseller for more information.

Product Overview

Front and Left Side View



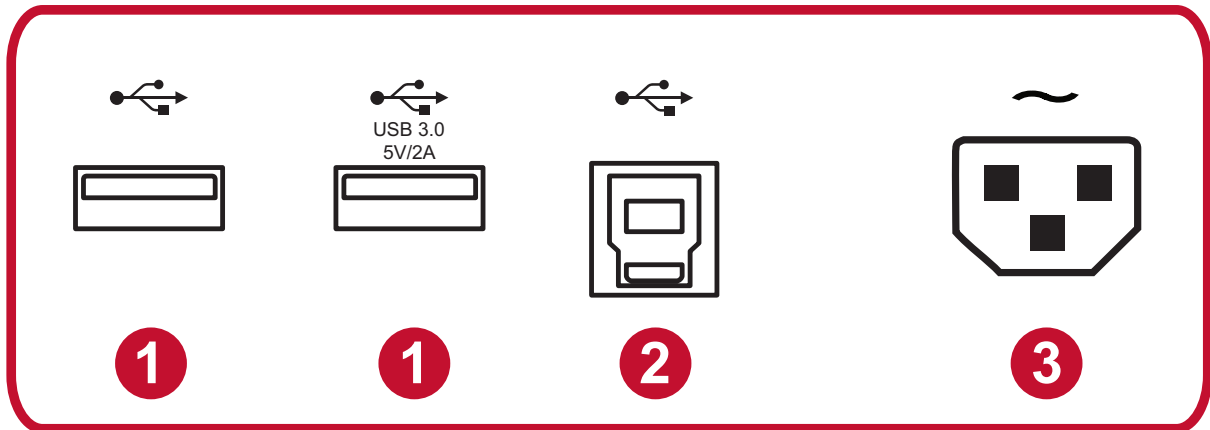
Rear and Right Side View



NOTE: For more information about the **Touch Disable/1(ViewMode)/2/3/4/5** key and its functions, refer to “Hot Keys” on page 25.

I/O Overview

Left Side

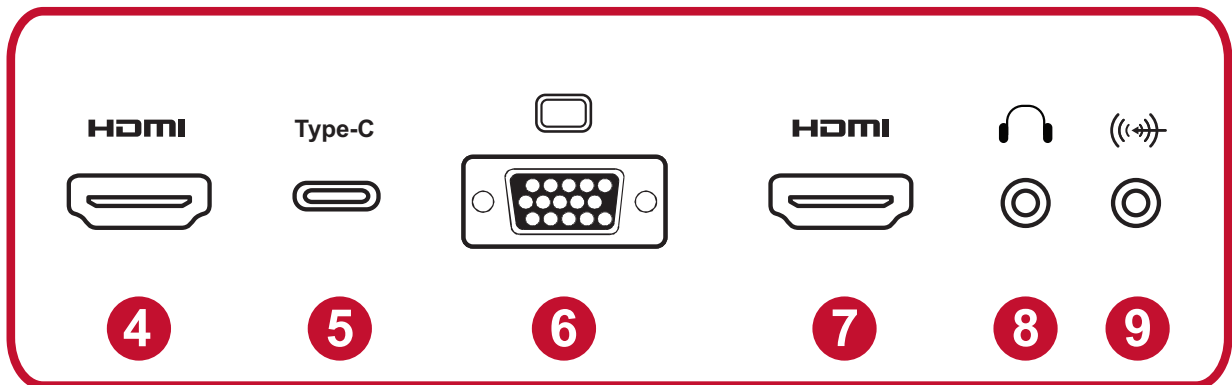


1. USB Downstream

2. USB Upstream

3. AC IN

Right Side



4. HDMI in

5. USB Type C

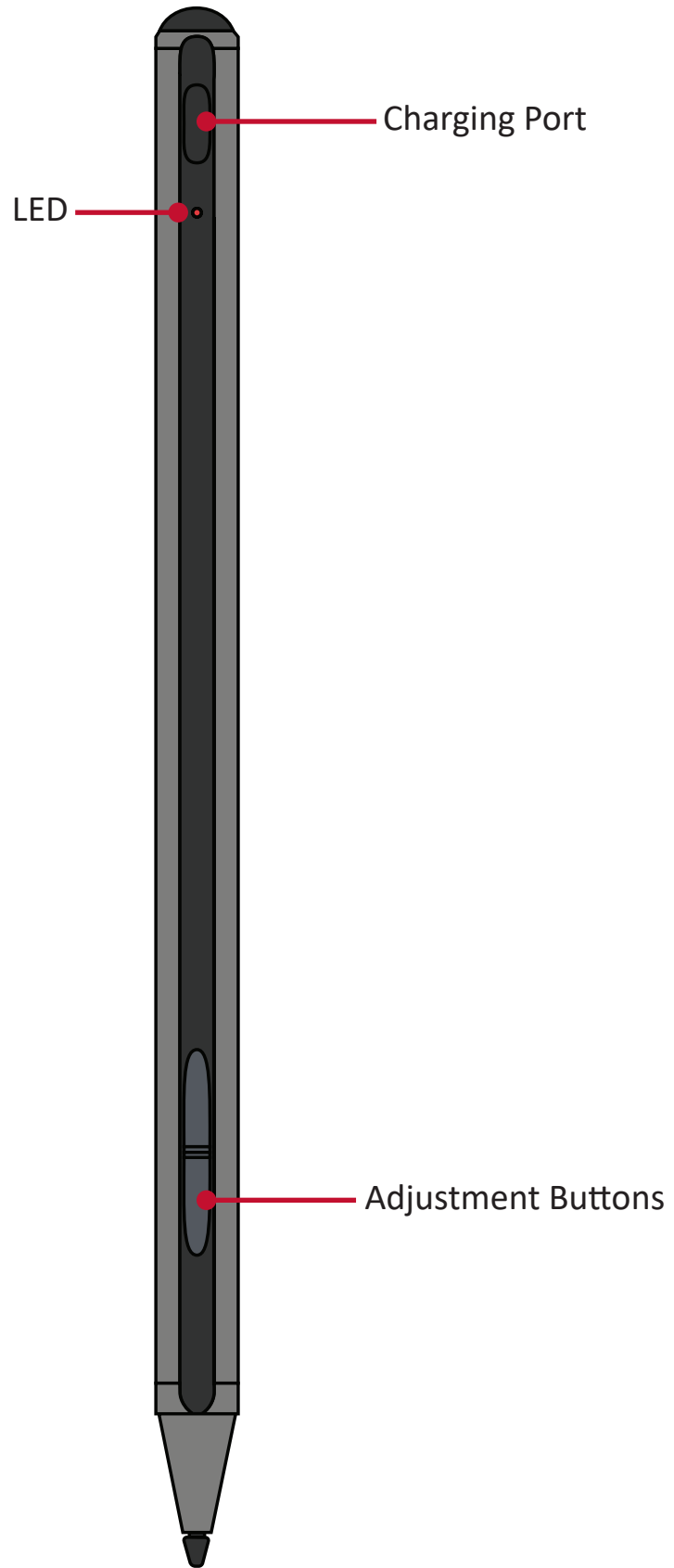
6. VGA

7. HDMI out

8. Audio Out

9. Audio In

Pen Overview



Pen Specifications and Recharge Note

Item	Specifications		
Recharging Requirement	Charging voltage: 5V±5% , 4.75~5.25V Charging current: 1A or less Charging cable: Type A to Type C cable Please do not charge for more than 4 hours to avoid battery damage		
Operating Hours	When the battery is fully charged, being used 2 hours a day, it can be used continuously for 50 days.		
Down Button	Eraser Button		
Upper Button	Primary Barrel Button		
Power Consumption	Standby	Hover	Working (Tip on)
	0.02mA	0.15mA	0.28mA
Pressure Levels	4096 levels		
Power Saving Mode	Yes, your pen will automatically enter power saving mode after three (3) minutes. To wake, simply start writing.		
Charging Port	USB Type C		
Magnetic Function	Yes; only magnetic adsorption, not attraction charging function.		
LED Flash Mode	Charging	Charging Complete	Low Battery
	LED On	LED Off	LED Flash

NOTE:

- For the first-time recharge of this Microsoft Pen Protocol (MPP) 2.0 pen, please use a 5V/1A recharge device with a USB Type A to Type C cable; do not charge for more than 4 hours to avoid battery damage.
- If a high power consumption charge device is used, it will cause battery damage.
- This Microsoft Pen Protocol (MPP) 2.0 pen does not support Power Delivery (PD) Protocol.
- It is recommended to use a USB Type A to Type C cable and connect to the USB Type A port of the ID2456 to charge the pen.
- The ID2456 display, with Microsoft Pen Protocol (MPP) 2.0, can detect when the pen tip is near the screen.

InkView will be able to detect when the pen is close to the screen and visually show a hovering cursor. If the pen tip is pressed, the pen signal transition state will be changed from a hovering cursor to ink mode.

- Please note when using a silicone pen tip cover it will affect the pen's signal transition state and always stay in ink mode. This may cause drawing or writing inaccuracies.

Initial Setup

This section provides detailed instructions for setting up your monitor.

Wall Mounting

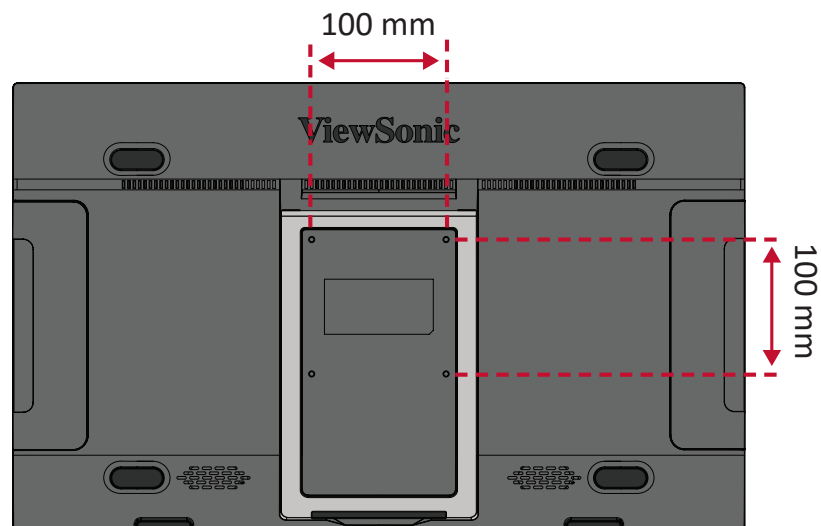
Refer to the table below for the standard dimensions for wall mount kits.

NOTE: For use only with a UL certified wall mount kit/bracket. To obtain a wall-mounting kit or height adjustment base, contact ViewSonic® or your local dealer.

Maximum Loading	Hole pattern (W x H)	Interface Pad (W x H x D)	Pad Hole	Screw Specification & Quantity
14 kg	100 x 100 mm	115 x 115 x 2.6 mm	∅ 5 mm	M4 x 10 mm 4 pieces

NOTE: Wall mount kits are sold separately.

1. Turn off the device and disconnect all cables.
2. Place the device on a flat, stable surface with the screen facing down.
3. Ensure the adjustable stand is fully retracted.
4. Attach the mounting bracket to the VESA mounting holes at the rear of the monitor. Then secure it with four (4) screws (M4 x 10 mm).



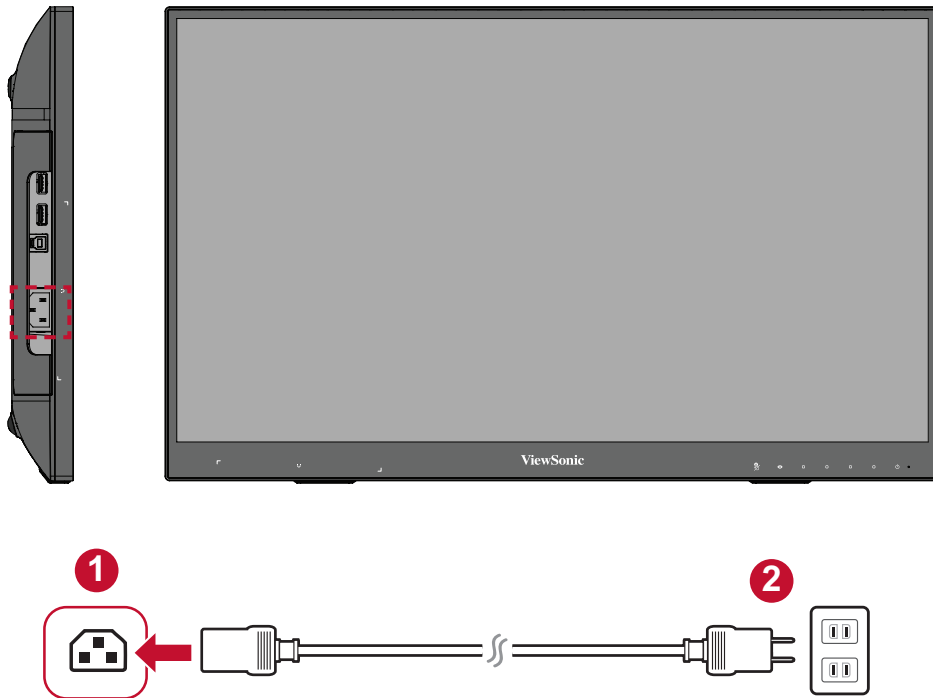
5. Follow the instructions that come with the wall mounting kit to mount the monitor onto the wall.

Making Connections

This section guides you on how to connect the monitor with other equipment.

Connecting to Power

1. Connect the power cord to the AC IN jack at the rear of the device.
2. Connect the power cord plug to a power outlet.



Connecting External Devices

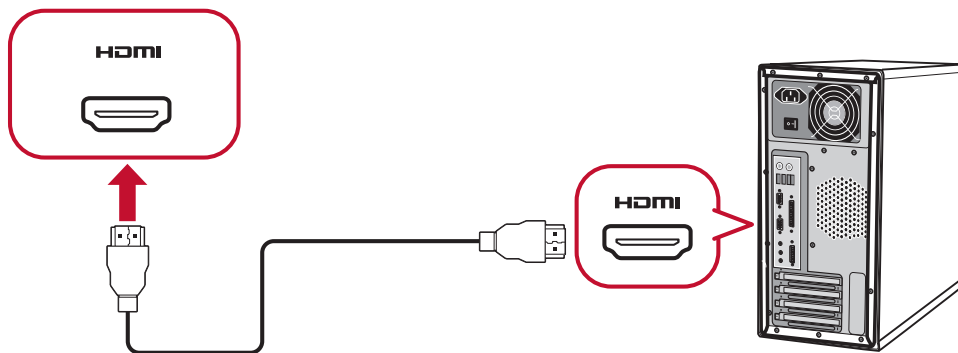
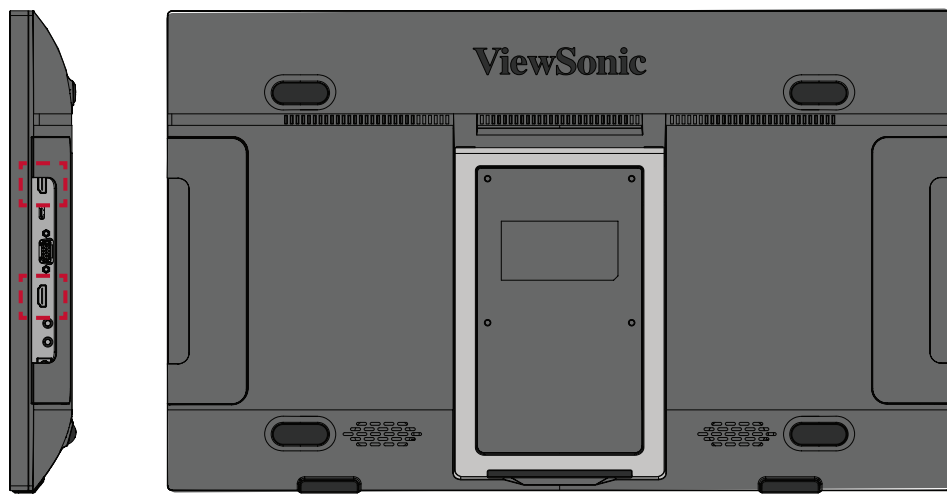
HDMI in Connection

Connect one end of an HDMI cable to the HDMI in port of your monitor. Then connect the other end of the cable to the HDMI out port of your computer.

HDMI out Connection

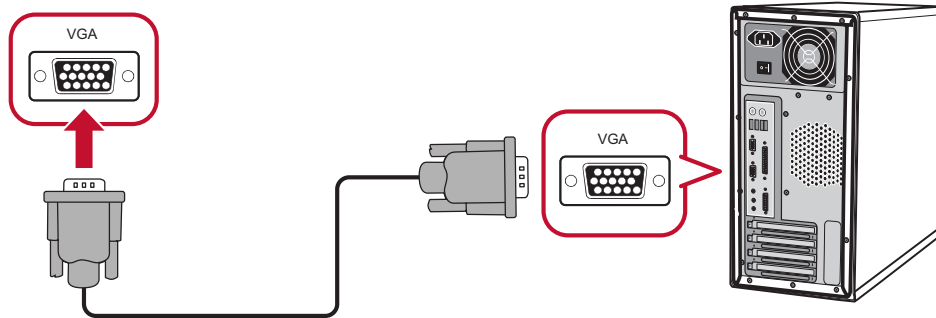
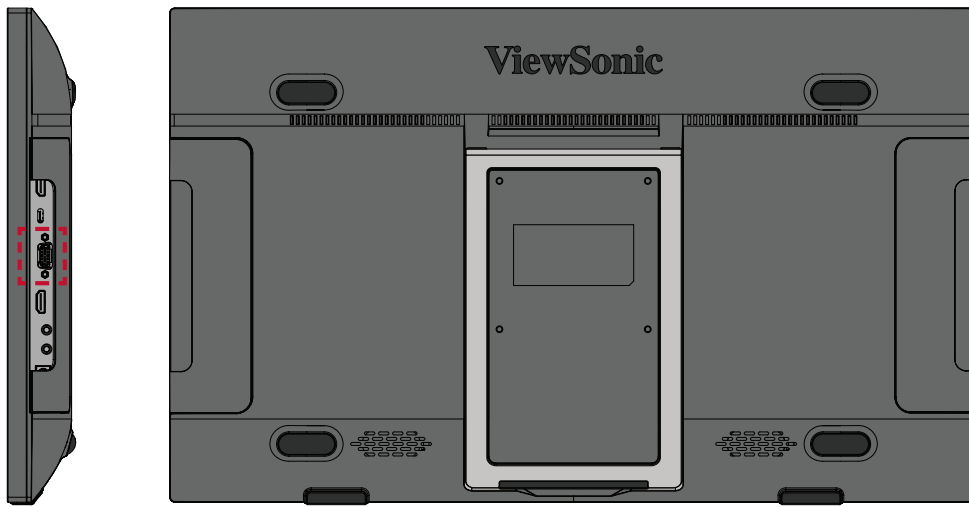
To output video via an external display device, connect one end of an HDMI cable to the HDMI out port of your monitor. Then connect the other end of the cable to the HDMI in port of your external display device.

NOTE: The monitor is equipped with one HDMI in port, and one HDMI out port.



VGA Connection

Connect one end of a VGA cable to the VGA port of your monitor. Then connect the other end of the cable to the VGA port of your computer.

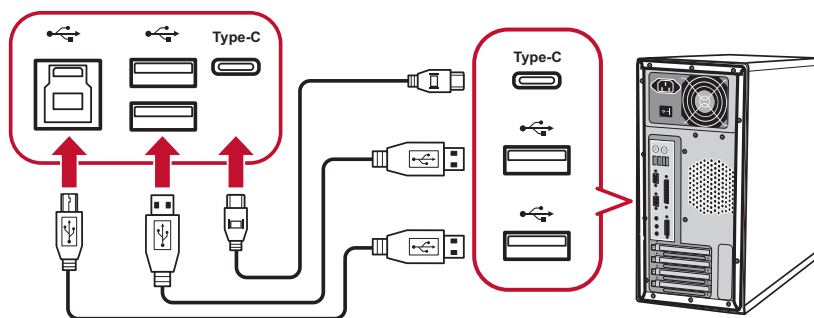
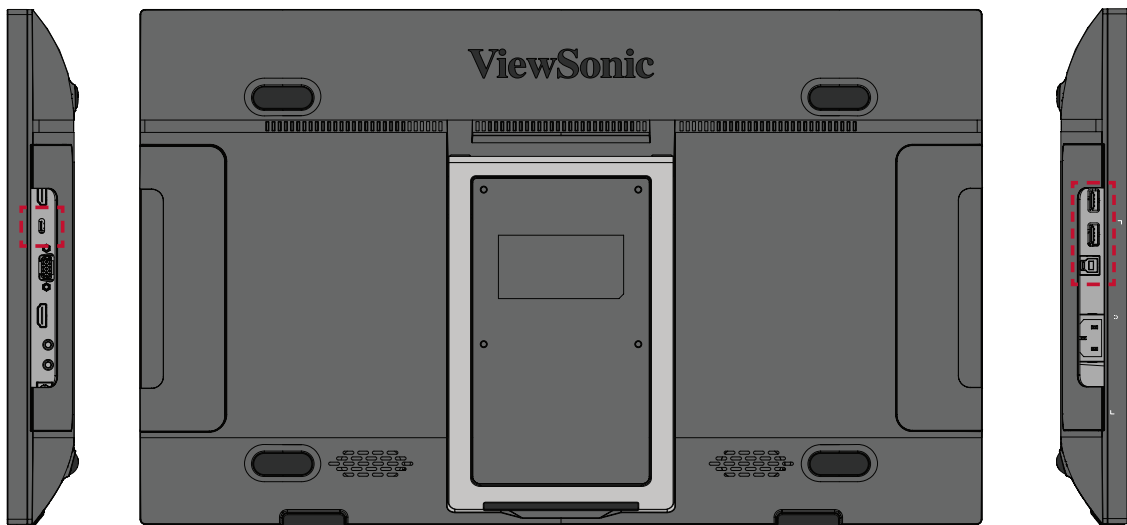


USB Connection

Connect one end of a USB cable to a USB port of the monitor. Then connect the other end of the cable to a USB port of your computer.

NOTE: The monitor supports three (3) types of USB ports. When making the connection(s), observe the following guidelines:

- Two (2) USB Type A ports: Connection for your Type A peripheral device(s). (e.g., storage device).
 - » **NOTE:** To activate the USB Type A port, ensure your computer is also connected to the monitor's USB Type B port.
- One (1) USB Type B port: Connect the USB Type B male cable (square with 2 cut corners) to this port, and then connect the other end of the cable to the USB down stream port of your computer.
- One (1) USB Type C ports: One (1) up stream. Make sure your Type C output device and cable support video signal transmission.
 - » **NOTE:** Power delivery capable, 5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/4.5A. Users can power their notebooks when connected.

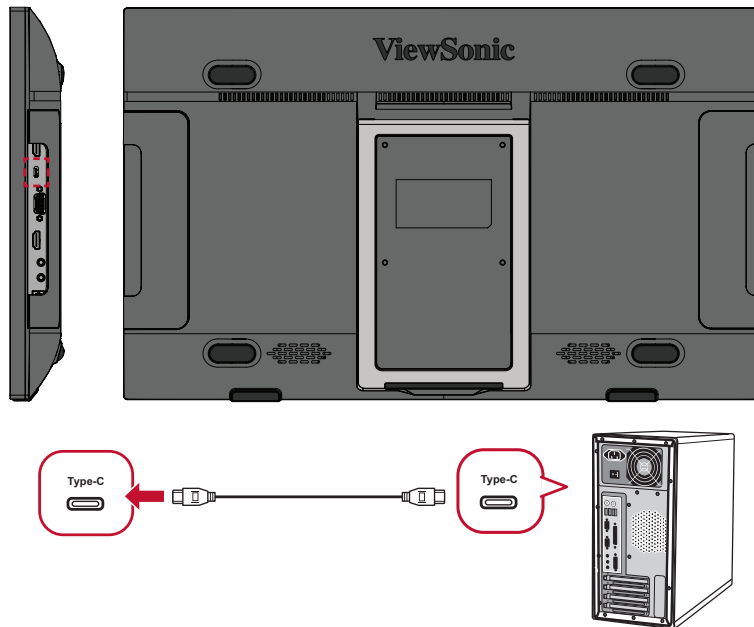


Touch Function Control

Your external device(s) can be connected in any of the following configurations:

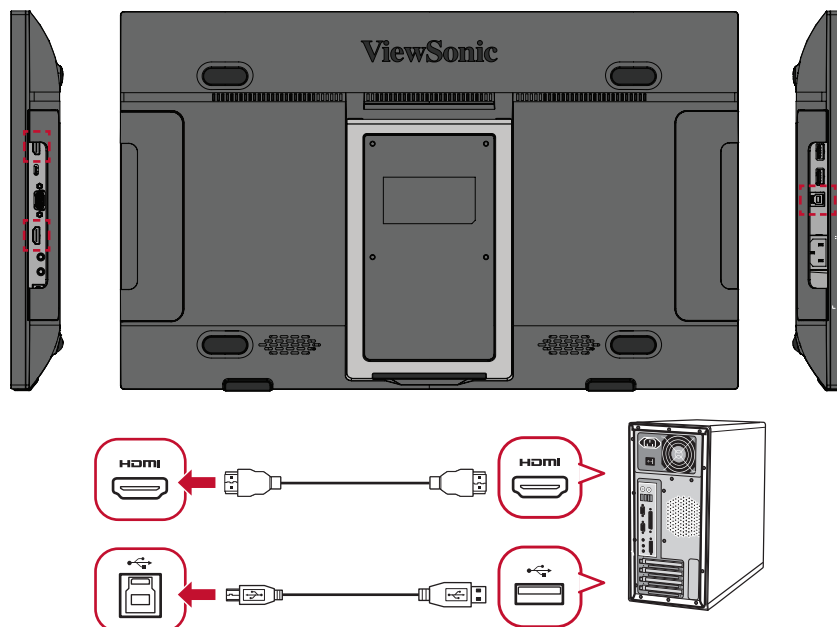
- **Type C Connection**

Connect a Type C cable from your computer to the **Type C** port on the monitor.



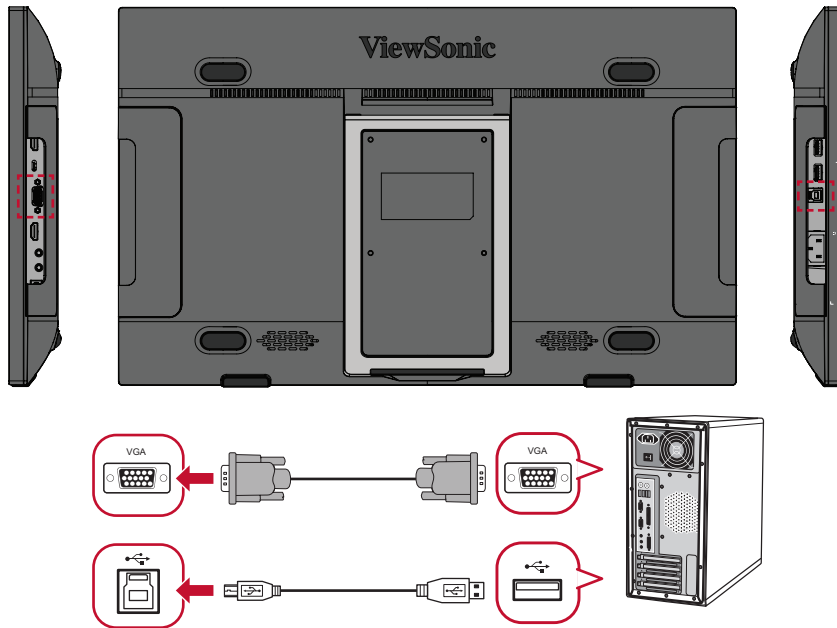
- **HDMI Connection**

1. Connect an HDMI cable from your computer to the **HDMI in** port on the monitor.
2. Connect the USB Type A to Type B cable from your computer to the monitor to enable touch controls.



- **VGA Connection**

1. Connect a VGA cable from your computer to the **VGA** port on the monitor.
2. Connect the USB Type A to Type B cable from your computer to the monitor to enable touch controls.



When using the touch function, please note:

- The touch function may need about five (5) seconds to resume if the USB cable is removed and plugged in again, or the computer resumes from *Sleep Mode*.
- The touchscreen can only detect up to ten (10) fingers simultaneously.
- If the Windows' cursor does not accurately follow your finger when you touch the screen, do the following:
 1. Open: **Control Panel > Hardware and Sound > Tablet PC Settings**
 2. Select **Calibration**.
 3. Follow the instructions to recalibrate your screen.

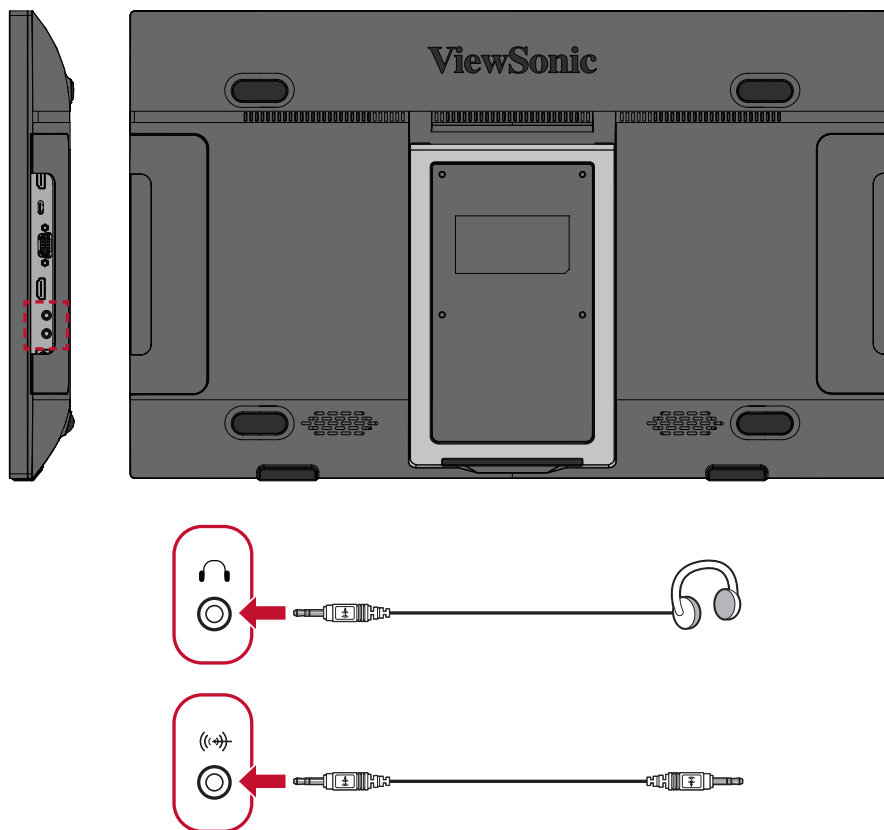
If Windows cannot identify the touch screen when you touch the screen, do the following:

1. Open: **Control Panel > Hardware and Sound > Tablet PC Settings**
2. Select **Setup**.
3. Select **Touch Input**.
4. Follow the instructions to identify the touch screen.

Audio Connection

Plug an audio cable into the Audio In/Audio Out port of the monitor. Plug the other end into your computer (Audio In) or ear-/headphones (Audio Out).

NOTE: The monitor is also equipped with dual speakers.

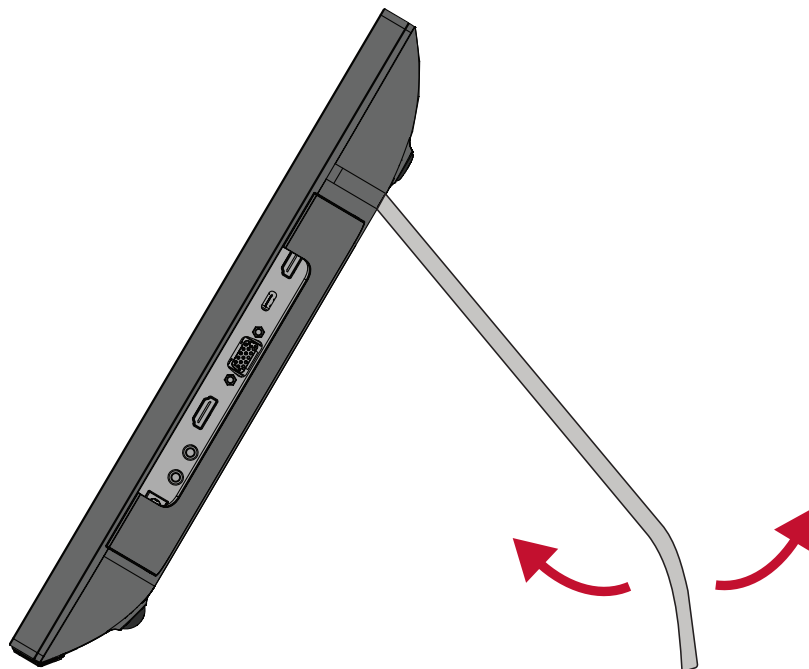


Using the Monitor

Adjusting the Viewing Angle

Tilt Angle Adjustment

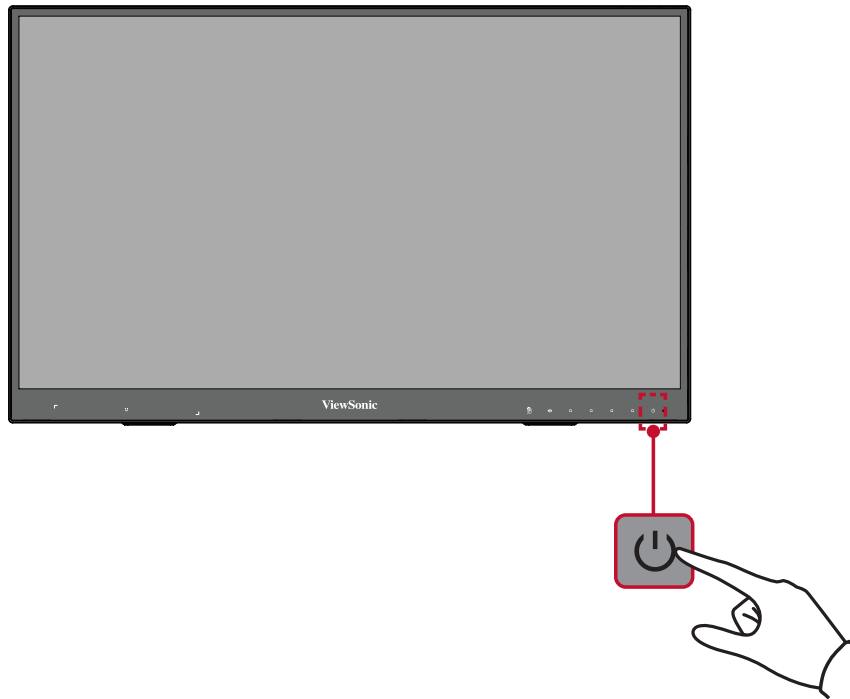
Tilt the monitor forwards or backwards to the desired viewing angle (15° to 70°).



NOTE: When adjusting, support the stand firmly with one hand while tilting the monitor forwards or backwards with the other hand.

Turning the Device On/Off

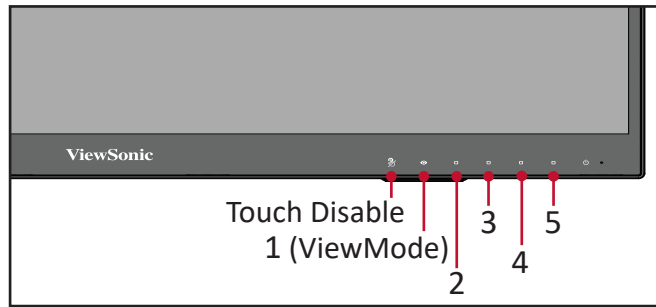
1. Plug the power cord into a power outlet.
2. Press the **Power** button to turn on the monitor.
3. To turn the monitor off, press the **Power** button again.



NOTE: The monitor will still consume some power as long as the power cord is connected to the power outlet. If the monitor is not being used for a long period of time, please disconnect the power plug from the power outlet.

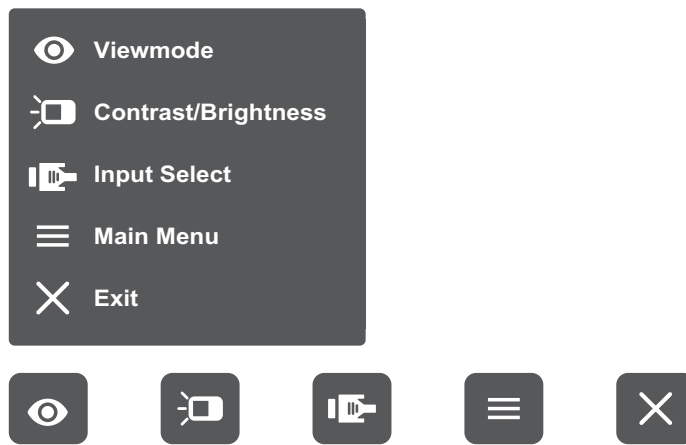
Using the Control Panel Keys

Use the control panel keys to access the Quick Menu, activate Hot Keys, navigate the On-Screen Display (OSD) Menu, and change the settings.



Quick Menu

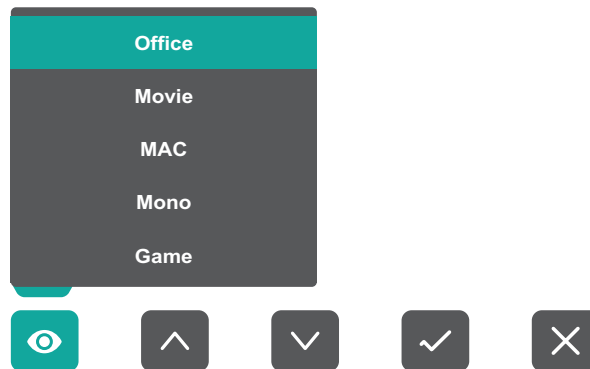
Touch the 2/3/4/5 key to activate the Quick menu.



NOTE: Follow the key guide that appears on the bottom of the screen to select the option or make adjustments.

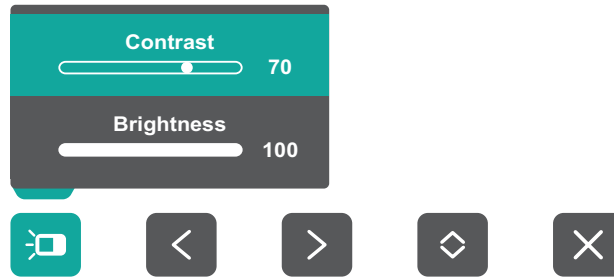
ViewMode

Select one of the preset standard color settings.



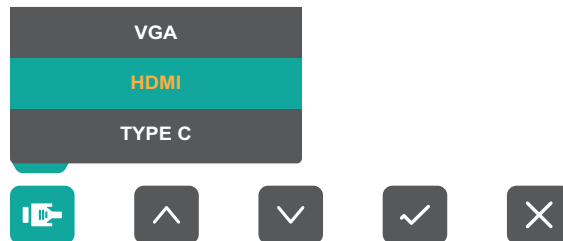
Contrast/Brightness

Adjust the contrast or brightness level.



Input Select

Select the input source.



Main Menu

Enter the On-Screen Display (OSD) Menu.

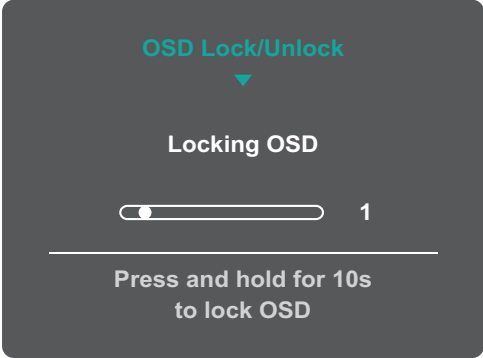




Exit

Exit the Quick Menu.

Hot Keys

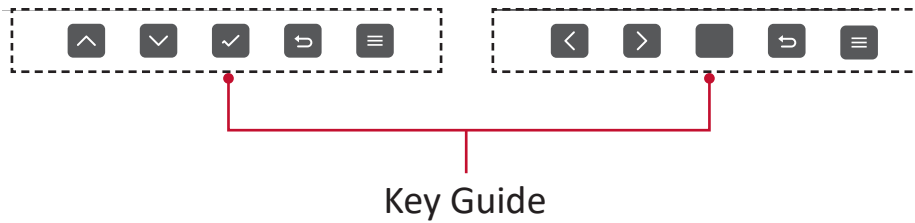
When the On-Screen Display (OSD) Menu is off, you can quickly access special functions by using the control panel keys.

Key	Description
2 + 3	<p>Press and hold the keys to lock/unlock the OSD Menu. When the menu appears on the screen, continue holding both keys for 10 seconds to lock/unlock the OSD Menu.</p>  <p>If the OSD Menu is locked, the below message will appear on the screen:</p> 
1 + 5	<p>Press the keys to toggle between DDC/CI or DDC/2B.</p> 

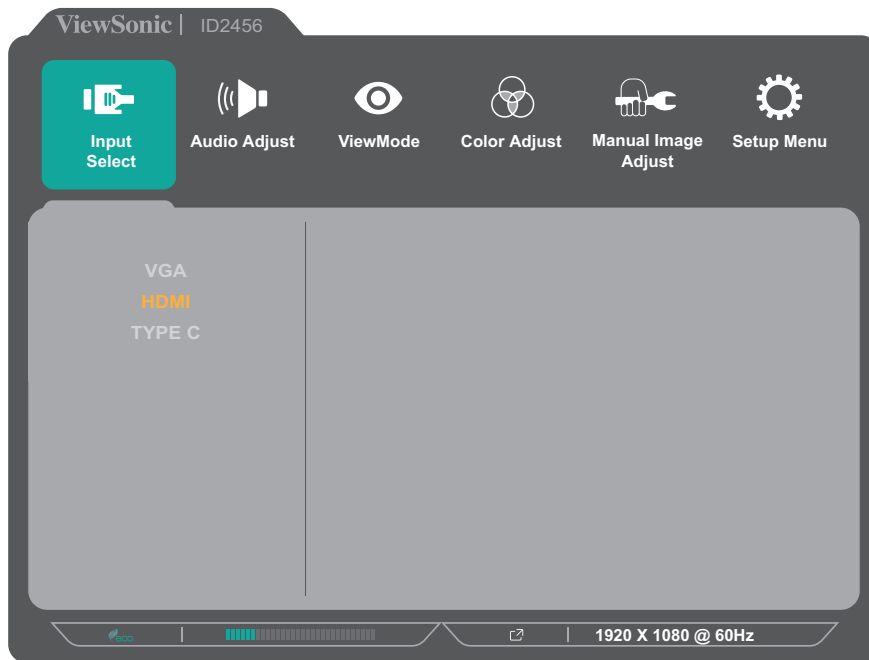
Key	Description
<p>2 + 4</p>	<p>Press and hold the keys to lock/unlock the Power button. When the menu appears on the screen, continue holding both keys for 10 seconds to lock/unlock the Power button.</p> <div data-bbox="655 338 1141 696" data-label="Image"> </div> <p>If the Power button is locked, the below message will appear on the screen:</p> <div data-bbox="655 819 1141 1178" data-label="Image"> </div>
<p>3 + 5</p>	<p>Press the keys to display/hide the boot up screen when the device is turned on.</p> <div data-bbox="665 1296 1133 1635" data-label="Image"> </div>

Configuring the Settings

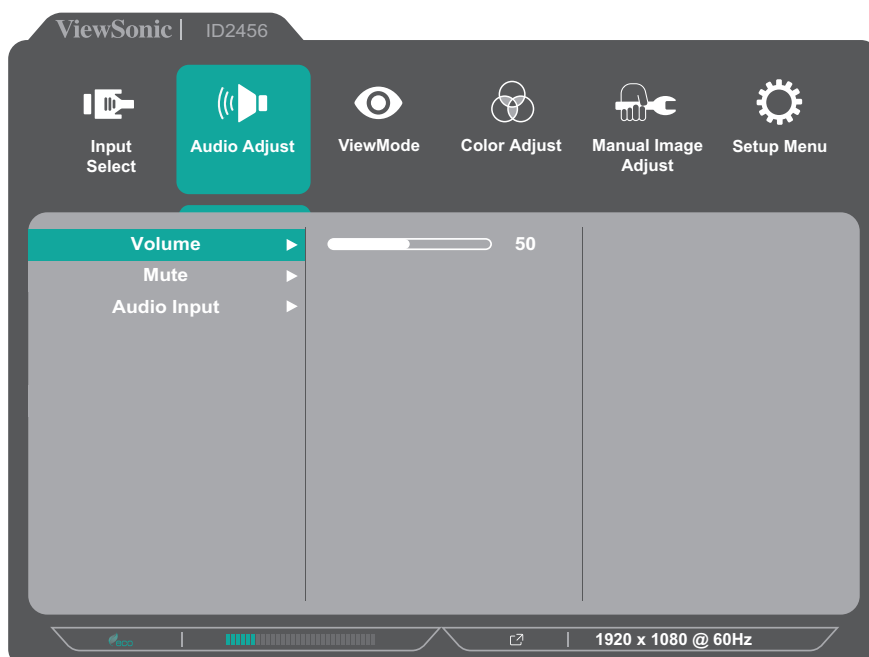
General Operations



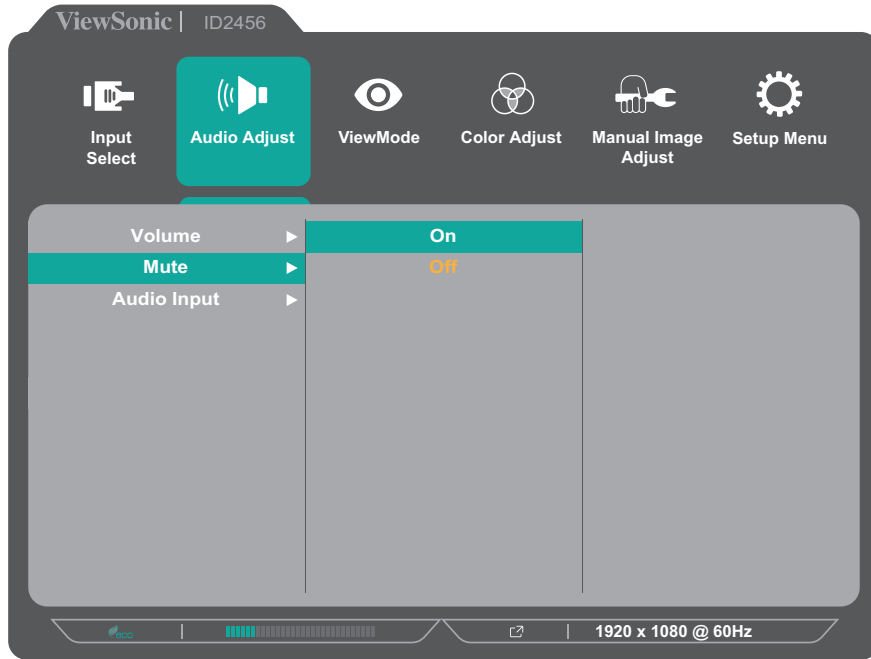
1. Press the **2/3/4/5** key to display the Quick Menu. Then press the **4** key to display the OSD Menu.



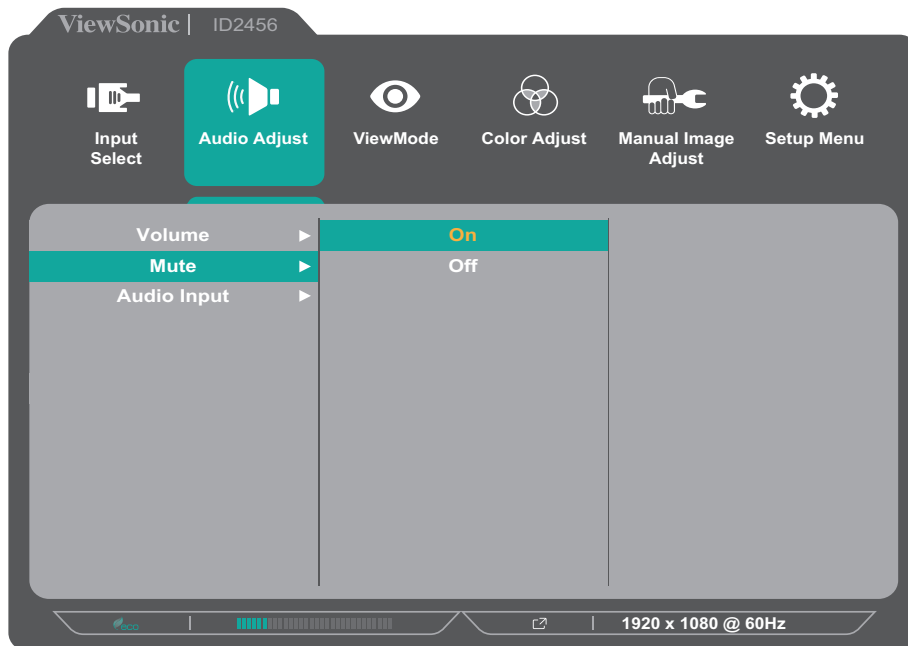
2. Press the **1(ViewMode)** or **2** key to select the main menu. Then press the **3** key to enter the selected menu.



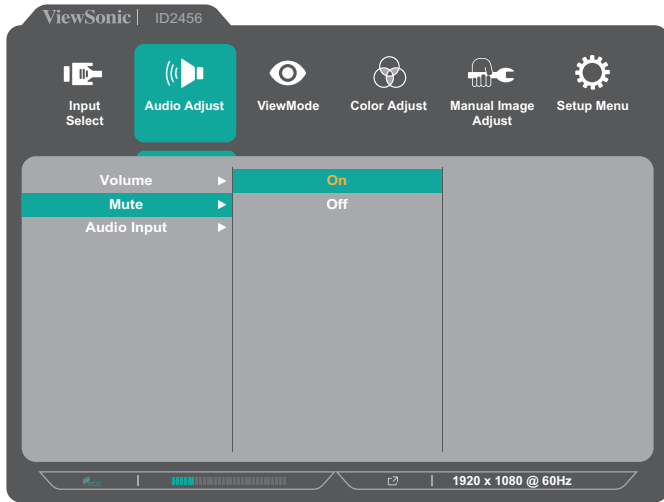
3. Press the **1(ViewMode)** or **2** key to select the desired menu option. Then press the **3** key to enter the sub-menu.



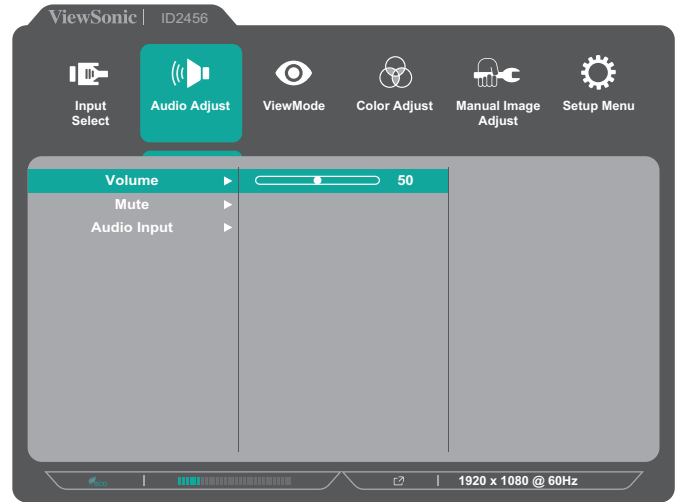
4. Press the **1(ViewMode)** or **2** key to adjust/select the setting. Then press the **3** key to confirm.



NOTE: Certain menu option adjustments do not require the user to press the **3** key to confirm the selection. Follow the key guide that appears on the bottom of the screen to select the option or make adjustments.



Key Guide



Key Guide

5. Press the 4 key to return to the previous menu.

NOTE: To exit the OSD Menu, press the 5 key.

On-Screen Display (OSD) Menu Tree

Main Menu	Sub-menu	Menu Option			
Input Select	VGA				
	HDMI				
	TYPE C				
Audio Adjust	Volume	(-/+, 0~100)			
	Mute	On			
		Off			
	Audio Input	Audio In			
		HDMI			
		Type C			
ViewMode	Off				
	Office	Web			
		Text			
	Movie				
	MAC				
	Mono				
	Game	FPS 1			
		FPS 2			
		RTS			
		MOBA			
Color Adjust	Contrast/Brightness	Contrast	(-/+, 0~100)		
		Brightness	(-/+, 0~100)		
	Color Temperature	sRGB			
		Bluish			
		Cool			
		Native			
		Warm			
		User Color	Red	(-/+, 0~100)	
			Green	(-/+, 0~100)	
	Blue		(-/+, 0~100)		
	Color Space	Auto			
		RGB			
		YUV			
	Color Range	Auto			
		Full Range			
		Limited Range			

Main Menu	Sub-menu	Menu Option		
Manual Image Adjust	Auto Image Adjust (for VGA only)			
	Horizontal Size (for VGA only)	(-/+, 0~100)		
	H./V. Position (for VGA only)	Horizontal Position	(-/+, 0~100)	
		Vertical Position	(-/+, 0~100)	
	Fine Tune (for VGA only)	(-/+, 0~100)		
	Sharpness	(-/+, 0~100)		
	Advanced DCR	(-/+, 0/25/50/75/100)		
	Response Time	Standard		
		Advanced		
		Ultra Fast		
	Aspect Ratio	4:3		
		Full Screen		
	Overscan	On		
		Off		
Low Input Lag	On			
	Off			
Blue Light Filter	(-/+, 0~100)			

Main Menu	Sub-menu	Menu Option
Setup Menu	Language Select	English
		Français
		Deutsch
		Español
		Italiano
		Suomi
		Русский
		Türkçe
		日本語
		한국어
		繁體中文
		简体中文
		Česká
	Svenska	
	Resolution Notice	On
		Off
	Information	
	OSD Timeout	(-/+ , 5/15/30/60)
	OSD Background	On
		Off
	OSD Pivot	0°
+90°		
-90°		

Main Menu	Sub-menu	Menu Option
Setup Menu	Power Indicator	On
		Off
	Boot Up Screen	On
		Off
	Auto Power Off	On
		Off
	Sleep	30 Minutes
		45 Minutes
		60 Minutes
		120 Minutes
		Off
	ECO Mode	Standard
		Optimize
		Conserve
	Touch Screen	On
		Off
	Auto Detect	On
Off		
Memory Recall		

Menu Options

Input Select

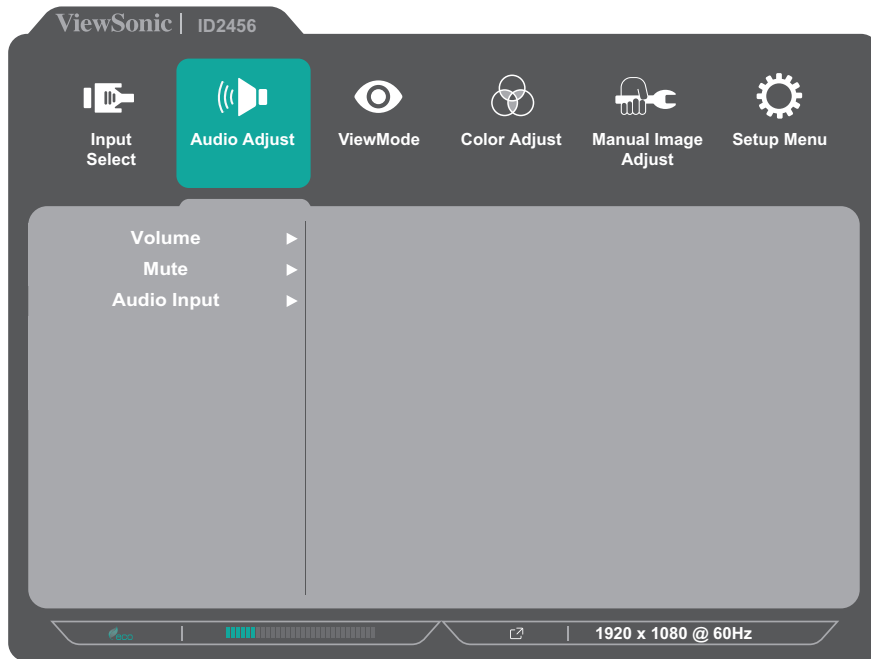
1. Press the **2/3/4/5** key to display the Quick Menu. Then press the **4** key to display the OSD Menu.
2. Press the **1(ViewMode)** or **2** key to select **Input Select**. Then press the **3** key to enter the **Input Select** menu.



3. Press the **1(ViewMode)** or **2** key to select the desired input source. Then press the **3** key to confirm the selection.

Audio Adjust

1. Press the **2/3/4/5** key to display the Quick Menu. Then press the **4** key to display the OSD Menu.
2. Press the **1(ViewMode)** or **2** key to select **Audio Adjust**. Then press the **3** key to enter the **Audio Adjust** menu.



3. Press the **1(ViewMode)** or **2** key to select the desired option. Then press the **3** key to enter its sub-menu.
4. Press the **1(ViewMode)** or **2** key to adjust/select the setting, and press the **3** key to confirm the selection (if applicable).

Menu Option	Description
Volume	Adjust the volume level.
Mute	Enable this option to temporarily turn off the sound.
Audio Input	Select the audio input source.

ViewMode Menu

NOTE: The **ViewMode** can also be adjusted with the **1(ViewMode)** key.

1. Press the **2/3/4/5** key to display the Quick Menu. Then press the **4** key to display the OSD Menu.
2. Press the **1(ViewMode)** or **2** key to select **ViewMode**. Then press the **3** key to enter the **ViewMode** menu.



3. Press the **1(ViewMode)** or **2** key to select the setting. Then press the **3** key to confirm the selection.

NOTE: Some sub-menu options may have another sub-menu. To enter the respective sub-menu, press the **3** key. Follow the key guide that appears on the bottom of the screen to select the option or make adjustments.

Menu Option	Description
Off	Disable the function.
Office	Select this option for office applications.
Movie	Select this option for watching movies.
MAC	Select this option when connecting to Mac computers.
Mono	Select this option for monochrome.
Game	Select this option for playing games.

Color Adjust Menu

NOTE: Some sub-menus may not be adjustable depending on the user’s custom settings.

1. Press the **2/3/4/5** key to display the Quick Menu. Then press the **4** key to display the OSD Menu.
2. Press the **1(ViewMode)** or **2** key to select **Color Adjust**. Then press the **3** key to enter the **Color Adjust** menu.



3. Press the **1(ViewMode)** or **2** key to select the menu option. Then press the **3** key to enter its sub-menu.
4. Press the **1(ViewMode)** or **2** key to select the setting. Then press the **3** key to confirm the selection.

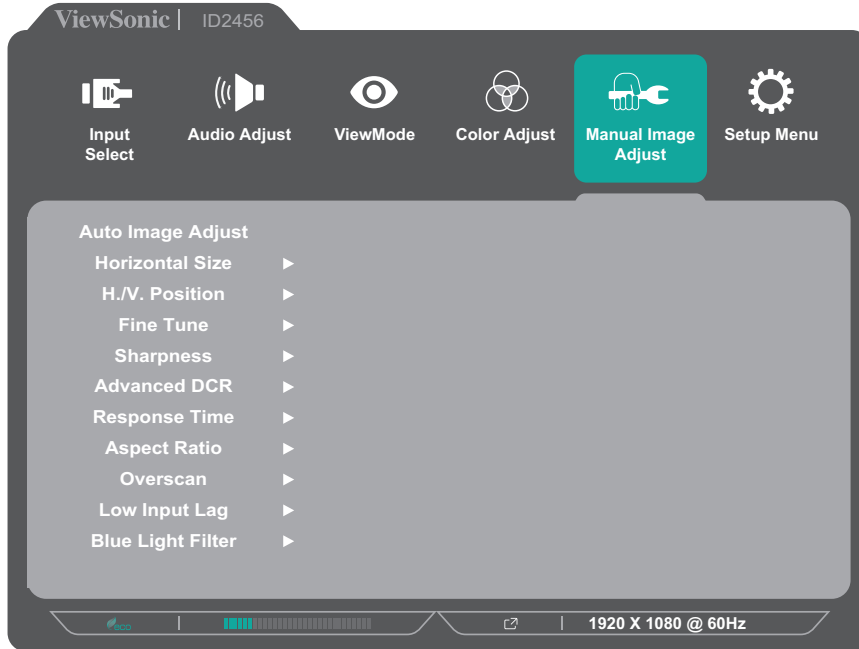
NOTE: Some sub-menu options may have another sub-menu. To enter the respective sub-menu, press the **3** key. Follow the key guide that appears on the bottom of the screen to select the option or make adjustments.

Menu Option	Description
Contrast/ Brightness	<p><u>Contrast</u> Adjust the degree of difference between the lightest and darkest parts of the picture and change the amount of black and white in the image.</p> <p><u>Brightness</u> Adjust the background black levels of the screen image.</p>

Menu Option	Description
Color Temperature	<p>Select the color temperature setting.</p> <ul style="list-style-type: none"> • sRGB: Lower brightness and more natural colors. • Bluish: Set the color temperature to 9300K. • Cool: Set the color temperature to 7500K. • Native: A default color temperature. Recommended for regular use. • Warm: Set the color temperature to 5000K. • User Color: Adjust red, green, and blue values as desired.
Color Space	<p>Allows users to choose which color space they would like to use for monitor color output.</p> <ul style="list-style-type: none"> • Auto: Automatically recognizes the color format and black and white levels. • RGB: The input signal color format is RGB. • YUV: The input signal color format is YUV.
Color Range	<p>The monitor can detect the input signal color range automatically. You can manually change the color range options to fit the correct color range if the colors are not displayed correctly.</p> <ul style="list-style-type: none"> • Auto: Automatically recognizes the color format and black and white levels. • Full Range: Black and white levels are full. • Limited Range: Black and white levels are limited.

Manual Image Adjust Menu

1. Press the **2/3/4/5** key to display the Quick Menu. Then press the **4** key to display the OSD Menu.
2. Press the **1(ViewMode)** or **2** key to select **Manual Image Adjust**. Then press the **3** key to enter the **Manual Image Adjust** menu.



3. Press the **1(ViewMode)** or **2** key to select the menu option. Then press the **3** key to enter its sub-menu.
4. Press the **1(ViewMode)** or **2** key to adjust/select the setting. Then press the **3** key to confirm (if applicable).

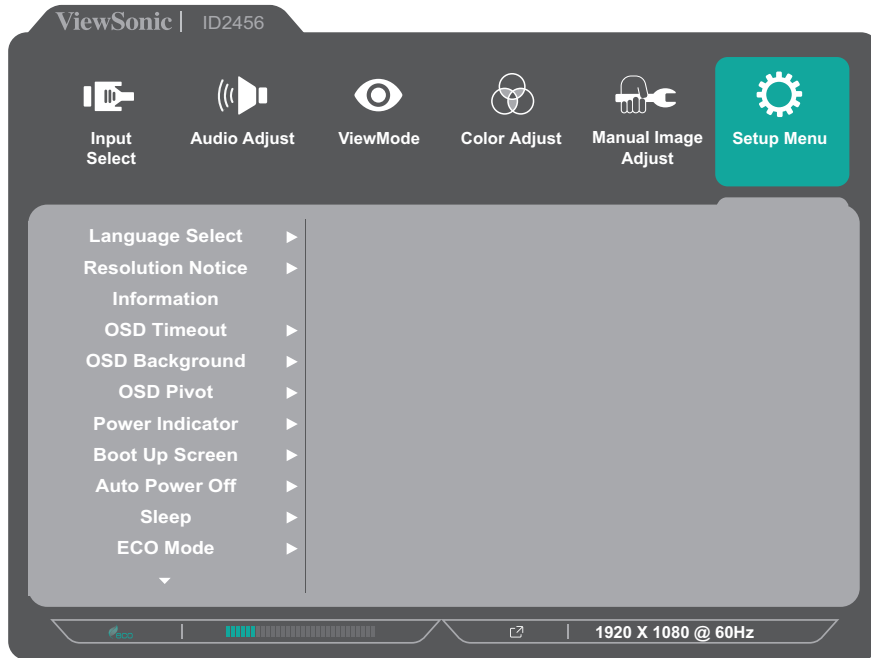
Menu Option	Description
Auto Image Adjust	Automatically adjust the screen image position.
Horizontal Size	Stretch or shorten the screen on its horizontal axis.
H./V. Position	Adjust the screen horizontally and/or vertically.
Fine Tune	Improve distorted image quality from an analog signal.
Sharpness	Adjust the picture quality.
Advanced DCR	Automatically detects the image signal and intelligently controls the backlight brightness and color to improve on the ability to make the black blacker in a dark scene, and make the white whiter in a bright environment.
Response Time	Adjusts the response time, creating smooth images without streaking, blurring, or ghosting.
Aspect Ratio	Select the aspect ratio of the monitor.
Overscan	Automatically enlarge the original picture horizontally and vertically to an equal aspect ratio that fills the screen.

Menu Option	Description
Low Input Lag	Select the appropriate speed to decrease input to output latency.
Blue Light Filter	Adjusts the filter that blocks high-energy blue light for a more comfortable viewing experience.

NOTE: Some options are only available for analog input signals.

Setup Menu

1. Press the **2/3/4/5** key to display the Quick Menu. Then press the **4** key to display the OSD Menu.
2. Press the **1(ViewMode)** or **2** key to select **Setup Menu**. Then press the **3** key to enter the **Setup Menu** menu.



3. Press the **1(ViewMode)** or **2** key to select the menu option. Then press the **3** key to enter its sub-menu.
4. Press the **1(ViewMode)** or **2** key to adjust/select the setting. Then press the **3** key to confirm (if applicable).

NOTE: Some sub-menu options may have another sub-menu. To enter the respective sub-menu, press the **3** key. Follow the key guide that appears on the bottom of the screen to select the option or make adjustments.

Menu Option	Description
Language Select	Select an available language for the OSD Menu.
Resolution Notice	Enable this option to allow the system to inform users that the current viewing resolution is not the correct native resolution.
Information	Display the monitor information.
OSD Timeout	Set the length of time the OSD Menu remains on screen.
OSD Background	Show/Hide the OSD background when the OSD Menu appears on the screen.
OSD Pivot	Set the OSD Menu orientation. <ul style="list-style-type: none"> • 0°: Sets the OSD Menu without pivot. • +90°: Sets the OSD Menu with a +90° pivot. • -90°: Sets the OSD Menu with a -90° pivot.
Power Indicator	Set the Power Indicator On or Off. If the setting is set to On, the power indicator lights blue when the device is turned on.
Boot Up Screen	Enable this option to allow the monitor to automatically show the boot up screen.
Auto Power Off	Enable this option to allow the monitor to automatically turn off after a certain amount of time.
Sleep	Set the amount of idle time before the monitor enters <i>Sleep mode</i> .
ECO Mode	Choose between various modes, based on power consumption.
Touch Screen	Enable/Disable touch support.
Auto Detect	Automatically detect the input signal.
Memory Recall	Resets all settings to their default values.

Appendix

Specifications

Item	Category	Specifications
LCD	Type	Reverse Type, a-si, Active Matrix 1920 x 1080 LCD, 0.2745 mm x 0.2745 mm pixel pitch
	Display Size	60.47 cm, 24" (23.8" viewable)
Touch	Type Supported	Capactive touch, 10 point
	Surface Treatment	Anti-Glare (Haze 10%), Hard-Coating (6H)
Compatibility	PC	up to 1920 x 1080
	Macintosh	up to 1920 x 1080
	Recommended	1920 x 1080 @ 60Hz
Resolution ¹	Supported	<ul style="list-style-type: none"> • 1920 x 1080 @ 50, 60Hz • 1680 x 1050 @ 60Hz • 1600 x 1200 @ 60Hz • 1600 x 900 @ 60Hz • 1440 x 900 @ 60, 75Hz • 1400 x 1050 @ 60, 75Hz • 1366 x 768 @ 60 Hz • 1360 x 768 @ 60Hz • 1280 x 1024 @ 60, 75Hz • 1280 x 960 @ 60, 75Hz • 1280 x 800 @ 60, 75Hz • 1280 x 768 @ 60, 75Hz • 1280 x 720 @ 50, 60Hz • 1152 x 900 @ 66Hz • 1152 x 870 @ 75Hz • 1024 x 768 @ 50, 60, 70, 72, 75Hz • 1024 x 600 @ 60Hz • 832 x 624 @ 75Hz • 848 x 480 @ 60Hz • 800 x 600 @ 56, 60, 72, 75Hz • 720 x 576 @ 50Hz • 720 x 480 @ 60Hz • 720 x 400 @ 70Hz • 640 x 480 @ 50, 60, 67, 72, 75Hz • 640 x 400 @ 60, 70Hz • 640 x 350 @ 70Hz
Power Adapter ²	Input Voltage	AC 100-240V, 50/60Hz (auto switch)

Item	Category	Specifications
Display Area	Full Scan (H x V)	527.04 x 296.46 mm (20.75" x 11.67")
Operating conditions	Temperature	0° C to 40° C (32° F to 104° F)
	Humidity	20% to 90% (non-condensing)
	Altitude	9,843 feet (3 km)
Storage conditions	Temperature	-20° C to 60° C (-4° F to 140° F)
	Humidity	5% to 90% (non-condensing)
	Altitude	39,370 feet (12 km)
Dimensions	Physical (W x H x D)	333.1 x 43.3 x 544.6 mm (13.1" x 1.7" x 21.4")
Wall Mount	Dimensions	100 x 100 mm
Weight	Physical	5 kg (11.02 lbs)
Power saving modes	On ³	33W (Typical) (Blue LED) 36W (Max ³) (Blue LED)
	Off	< 0.5W

¹ Do not set the graphics card in your computer to exceed these timing modes; doing so may result in permanent damage to the display.

² Please use the power adapter from ViewSonic® or an authorized source only.

³ The test condition follows EEI standards.

Glossary

This section describes the standard glossary of terms used in all LCD display models. All terms are listed in alphabetical order.

NOTE: Some terms may not be applicable to your monitor.

A **Advanced DCR**

Advanced DCR technology automatically detects the image signal and intelligently controls the backlight brightness and color to improve on the ability to make the black blacker in a dark scene, and make the white whiter in a bright environment.

All Recall

Returns the adjustments back to factory settings if the display is operating in a factory Preset Timing Mode listed in the Specifications of this manual.

NOTE: (Exception) This control does not affect changes made with the “Language Select” or “Power Lock setting”.

Audio Adjust

Adjusts the volume, mutes the sound, or toggles between inputs if you have more than one source.

Auto Detect

If the current input source has no signal, the monitor will automatically switch to the next input option. This function, on some models, is disabled by default.

B **Black Stabilization**

ViewSonic’s Black Stabilization provides heightened visibility and detail by brightening dark scenes.

Blue Light Filter

Adjusts the filter that blocks high-energy blue light for a more comfortable viewing experience.

Brightness

Adjusts background black levels of the screen image.

C Color Adjust

Provides several color adjustment modes to help adjust the color settings to fit the user's needs.

Color Format

The monitor can detect the input signal color range automatically. You can manually change the color range options to fit the correct color range if the colors are not displayed correctly.

Color Space

Allows users to choose which color space they would like to use for monitor color output (RGB, YUV).

Color Temperature

Allows users to select specific color temperature settings to further customize their viewing experience.

Panel Default	Panel Original Status
Panel Default	Panel's default mode.
Bluish	Set the color temperature to 9300K.
Cool	Set the color temperature to 7500K.
Native	Default color temperature. Recommended for general use.
Warm	Set the color temperature to 5000K.
User	Custom user settings.

Contrast

Adjusts the difference between the image background (black level) and the foreground (white level).

F FreeSync

FreeSync technology puts an end to choppy gameplay and broken frames with fluid, artifact-free performance at virtually any frame rate.

G Game Mode

Integrating a gaming-oriented OSD design including pre-calibrated FPS, RTS, and MOBA gaming settings. Each mode is functionally customized with in-game testing and adjustments made for the best blend of color and technology.

Gamma

Allows users to manually adjust the brightness level of the monitor's grayscale levels.

H HDR10 (High-Dynamic-Range)

Reduces the overall contrast of a given scene so that detail in the highlights and shadows can be seen.

NOTE: Only available on HDR10 video content.

Hue

Adjusts the tint of each color (red, green, blue, cyan, magenta, and yellow).

I Information

Displays the timing mode (video signal input) coming from the graphics card in the computer, the LCD model number, the serial number, and the ViewSonic® website URL. See your graphics cards's user guide for instructions on changing the resolution and refresh rate (vertical frequency).

NOTE: VESA 1024 x 768 @ 60Hz, for example, means that the resolution is 1024 x 768 and the refresh rate is 60Hz.

Input Select

Toggles between the various input options that are available for the monitor.

L Low Input Lag

ViewSonic® offers low input lag, utilizing a monitor process reducer, which decreases signal latency. Under the "Low Input Lag" sub-menu, you can select the appropriate speed for your desired use from the options.

M Manual Image Adjust

Displays the “Manual Image Adjust” menu. You can manually set a variety of image quality adjustments.

Memory Recall

Returns the adjustments back to factory settings if the display is operating in a factory preset timing mode listed in the “Specifications” of this manual.

NOTE:

- (Exception) This control does not affect changes made in the “Language Select” or “Power Lock” setting.
- Memory Recall is the default as-shipped display configuration and settings. Memory Recall is the setting in which the product qualifies for ENERGY STAR®. Any changes to default as-shipped display configuration and settings would change the energy consumption, and may increase energy consumption beyond the limits required for ENERGY STAR® qualification, as applicable. ENERGY STAR® is a set of power-saving guidelines issued by the U.S. Environmental Protection Agency (EPA). ENERGY STAR® is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy helping us all save money and protect the environment through energy efficient products and practices.



O Overscan

Refers to a cropped image on your monitor’s screen. A setting on your monitor zooms in on movie content, so that you cannot see the outermost edges of the film.

P PIP (Picture-in-Picture)

Split the screen into two parts, a main window and an inset window. The user can specify the input source for each screen.

PIP Swap

This exchanges the main-picture source with the sub-picture source.

R Recall
Resets the ViewMode monitor settings.

Resolution Notice

The notice tells users that the current viewing resolution is not the correct native resolution. This notice will appear in the display settings window when setting up the display resolution.

Response Time

Creates smooth images without streaking, blurring, or ghosting. A low response time is perfect for the most graphic-intense gaming, and provides amazing visual quality while watching sports or action movies.

S Saturation

Adjusts the color depth of each color (red, green, blue, cyan, magenta, and yellow).

Setup Menu

Adjusts On-Screen Display (OSD) Menu settings. Many of these settings can activate on-screen display notifications so users do not have to reopen the menu.

Sharpness

Adjusts the picture quality of the monitor.

V ViewMode

ViewSonic's unique ViewMode feature offers "Game", "Movie", "Web", "Text", "MAC", and "Mono" presets. These presets are specifically designed to deliver an optimized viewing experience for different screen applications.

Y YUV Color Space

YUV color space is used for color image and video processing; taking into account properties of the human eye that allow for reduced bandwidth of chroma components without perceptual distortion.

Troubleshooting

This section describes some common problems that you may experience when using the monitor.

Problem or Issue	Possible Solutions
No power	<ul style="list-style-type: none">• Make sure you have turned on the monitor by pressing the Power button.• Make sure the power cord is properly and securely connected to the monitor and power outlet.• Plug another electrical device into the power outlet to verify that the outlet is supplying power.
Power is On, but no image appears on screen	<ul style="list-style-type: none">• Make sure the video cable connecting the monitor to the computer is properly and securely connected.• Adjust the brightness and contrast settings.• Make sure the correct input source is selected.
Wrong or abnormal colors	<ul style="list-style-type: none">• If any colors (red, green, or blue) are missing, check the video cable to make sure it is properly and securely connected. Loose or broken pins in the cable connector could cause an improper connection.• Connect the monitor to another computer.• If you have an older graphics card, contact ViewSonic® for a non-DDC adapter.
Screen image is too light or dark	<ul style="list-style-type: none">• Adjust brightness and contrast settings via the OSD Menu.• Reset the monitor to factory settings.
Screen image cuts in and out	<ul style="list-style-type: none">• Make sure the correct input source is selected.• Check for bent or broken pins in the video cable connector.• Make sure the video cable connecting the monitor to the computer is properly and securely connected.
Screen image is blurred	<ul style="list-style-type: none">• Adjust the resolution to the correct Aspect Ratio.• Reset the monitor to factory settings.
The screen isn't centered correctly	<ul style="list-style-type: none">• Adjust the horizontal and vertical controls via the OSD Menu.• Check the Aspect Ratio.• Reset the monitor to factory settings.

Problem or Issue	Possible Solutions
The screen appears yellow	<ul style="list-style-type: none"> • Make sure the “Blue Light Filter” is Off.
The OSD Menu does not appear on the screen/the OSD controls are inaccessible	<ul style="list-style-type: none"> • Check whether the OSD Menu is locked. • Turn off the monitor, unplug the power cord, plug it back in, and then turn on the monitor. • Reset the monitor to factory settings.
Control panel keys do not work	<ul style="list-style-type: none"> • Press only one key at a time. • Restart the computer.
Some menus aren’t selectable in the OSD	<ul style="list-style-type: none"> • Adjust the ViewMode or the input source. • Reset the monitor to factory settings.
No audio output	<ul style="list-style-type: none"> • If using ear-/headphones, ensure the mini stereo jack is connected. • Make sure the volume is not muted, nor set to 0. • Check the Audio Input setting.
The monitor will not adjust	<ul style="list-style-type: none"> • Make sure there are no obstructions near or on the monitor, and that there is adequate spacing. • For more information, see “Adjusting the Viewing Angle”.
USB devices connected to the monitor do not work	<ul style="list-style-type: none"> • Make sure the USB cable is connected properly. • Try changing to another USB port (if applicable). • Some USB devices require a higher electric current; connect the device directly to the computer.
The external device is connected, but no image appears on the screen	<ul style="list-style-type: none"> • Make sure the Power is On • Adjust brightness and contrast via the OSD Menu. • Check the connecting cable and make sure it is properly and securely connected. Loose or broken pins in the cable connector could cause an improper connection.

Maintenance

General Precautions

- Make sure the monitor is turned off and the power cable is unplugged from the power outlet.
- Never spray or pour any liquid directly onto the screen or case.
- Handle the monitor with care, as a darker-colored monitor, if scuffed, may show marks more clearly than a lighter-colored monitor.

Cleaning the Screen

- Wipe the screen with a clean, soft, lint-free cloth. This removes dust and other particles.
- If the screen is still not clean, apply a small amount of non-ammonia, non-alcohol based glass cleaner onto a clean, soft, lint-free cloth; then wipe the screen.

Cleaning the Case

- Use a soft, dry cloth.
- If the case is still not clean, apply a small amount of non-ammonia, non-alcohol based, mild non-abrasive detergent onto a clean, soft, lint-free cloth, then wipe the surface.

Disclaimer

- ViewSonic® does not recommend the use of any ammonia or alcohol-based cleaners on the display screen or case. Some chemical cleaners have been reported to damage the screen and/or case of the monitor.
- ViewSonic® will not be liable for damage resulting from use of any ammonia or alcohol-based cleaners.

Regulatory and Service Information

Compliance Information

This section addresses all connected requirements and statements regarding regulations. Confirmed corresponding applications shall refer to nameplate labels and relevant markings on the unit.

FCC Compliance Statement

This device complies with part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning: You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

Industry Canada Statement

CAN ICES-003(B) / NMB-003(B)

CE Conformity for European Countries



The device complies with the EMC Directive 2014/30/EU and Low Voltage Directive 2014/35/EU.

The following information is only for EU-member states:

The mark shown to the right is in compliance with the Waste Electrical and Electronic Equipment Directive 2012/19/EU (WEEE). The mark indicates the requirement NOT to dispose of the equipment as unsorted municipal waste, but use the return and collection systems according to local law.



Declaration of RoHS2 Compliance

This product has been designed and manufactured in compliance with Directive 2011/65/EU of the European Parliament and the Council on restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS2 Directive) and is deemed to comply with the maximum concentration values issued by the European Technical Adaptation Committee (TAC) as shown below:

Substance	Proposed Maximum Concentration	Actual Concentration
Lead (Pb)	0.1%	< 0.1%
Mercury (Hg)	0.1%	< 0.1%
Cadmium (Cd)	0.01%	< 0.01%
Hexavalent Chromium (Cr6 ⁺)	0.1%	< 0.1%
Polybrominated biphenyls (PBB)	0.1%	< 0.1%
Polybrominated diphenyl ethers (PBDE)	0.1%	< 0.1%
Bis (2-ethylhexyl) phthalate (DEHP)	0.1%	< 0.1%
Butyl benzyl phthalate (BBP)	0.1%	< 0.1%
Dibutyl phthalate (DBP)	0.1%	< 0.1%
Diisobutyl phthalate (DIBP)	0.1%	< 0.1%

Certain components of products as stated above are exempted under the Annex III of the RoHS2 Directives as noted below. Examples of exempted components are:

- Lead as an alloying element in aluminum containing up to 0.4% lead by weight.
- Copper alloy containing up to 4% lead by weight.
- Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead).
- Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.

Indian Restriction of Hazardous Substances

Restriction on Hazardous Substances statement (India). This product complies with the “India E-waste Rule 2011” and prohibits use of lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers in concentrations exceeding 0.1 weight % and 0.01 weight % for cadmium, except for the exemptions set in Schedule 2 of the Rule.

Product Disposal at End of Product Life

ViewSonic® respects the environment and is committed to working and living green. Thank you for being part of Smarter, Greener Computing. Please visit the ViewSonic® website to learn more.

USA & Canada:

<https://www.viewsonic.com/us/company/green/go-green-with-viewsonic/#recycle-program>

Europe:

<http://www.viewsoniceurope.com/eu/support/call-desk/>

Taiwan:

<https://recycle.epa.gov.tw/>

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As an ENERGY STAR® partner, ViewSonic® Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

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Customer Service

For technical support or product service, see the table below or contact your reseller.

NOTE: You will need the product's serial number.

Country/ Region	Website	Country/ Region	Website
Asia Pacific & Africa			
Australia	www.viewsonic.com/au/	Bangladesh	www.viewsonic.com/bd/
中国 (China)	www.viewsonic.com.cn	香港 (繁體中文)	www.viewsonic.com/hk/
Hong Kong (English)	www.viewsonic.com/hk-en/	India	www.viewsonic.com/in/
Indonesia	www.viewsonic.com/id/	Israel	www.viewsonic.com/il/
日本 (Japan)	www.viewsonic.com/jp/	Korea	www.viewsonic.com/kr/
Malaysia	www.viewsonic.com/my/	Middle East	www.viewsonic.com/me/
Myanmar	www.viewsonic.com/mm/	Nepal	www.viewsonic.com/np/
New Zealand	www.viewsonic.com/nz/	Pakistan	www.viewsonic.com/pk/
Philippines	www.viewsonic.com/ph/	Singapore	www.viewsonic.com/sg/
臺灣 (Taiwan)	www.viewsonic.com/tw/	ประเทศไทย	www.viewsonic.com/th/
Việt Nam	www.viewsonic.com/vn/	South Africa & Mauritius	www.viewsonic.com/za/
Americas			
United States	www.viewsonic.com/us	Canada	www.viewsonic.com/us
Latin America	www.viewsonic.com/la		
Europe			
Europe	www.viewsonic.com/eu/	France	www.viewsonic.com/fr/
Deutschland	www.viewsonic.com/de/	Қазақстан	www.viewsonic.com/kz/
Россия	www.viewsonic.com/ru/	España	www.viewsonic.com/es/
Türkiye	www.viewsonic.com/tr/	Україна	www.viewsonic.com/ua/
United Kingdom	www.viewsonic.com/uk/		

Limited Warranty

ViewSonic® Display

What the warranty covers:

ViewSonic® warrants its products to be free from defects in material and workmanship during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, ViewSonic® will, at its sole option, and as your sole remedy, repair or replace the product with a similar product. Replacement Product or parts may include remanufactured or refurbished parts or components. The repair or replacement unit or parts or components will be covered by the balance of the time remaining on the customer's original limited warranty and the warranty period will not be extended. ViewSonic® provides no warranty for any third-party software whether included with the product or installed by the customer, installation of any unauthorized hardware parts or components (e.g. Projector Lamps). (Please refer to: "What the warranty excludes and does not cover" section).

How long the warranty is effective:

ViewSonic® displays are warranted for between 1 and 3 years, depending on your country of purchase, for all parts including the light source and for all labor from the date of the first consumer purchase.

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty excludes and does not cover:

- Any product on which the serial number has been defaced, modified, or removed.
- Damage, deterioration, or malfunction resulting from:
 - » Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
 - » Repair or attempted repair by anyone not authorized by ViewSonic®.
 - » Damage to or loss of any programs, data, or removable storage media.
 - » Normal wear and tear.
 - » Removal or installation of the product.
- Software or data loss occurring during repair or replacement.
- Any damage of the product due to shipment.

- Causes external to the product, such as electric power fluctuations or failure.
- Use of supplies or parts not meeting ViewSonic’s specifications.
- Failure of owner to perform periodic product maintenance as stated in the User Guide.
- Any other cause which does not relate to a product defect.
- Damage caused by static (non-moving) images displayed for lengthy periods of time (also referred to as image burn-in).
- Software - Any third-party software included with the product or installed by the customer.
- Hardware/Accessories/Parts/Components – Installation of any unauthorized hardware, accessories, consumable parts or components (e.g. Projector Lamps).
- Damage to, or abuse of, the coating on the surface of the display through inappropriate cleaning as described in the product User Guide.
- Removal, installation, and set-up service charges, including wall-mounting of the product.

How to get service:

- For information about receiving service under warranty, contact ViewSonic® Customer Support (Please refer to the “Customer Service” page). You will need to provide your product’s serial number.
- To obtain warranty service, you will be required to provide: (a) the original dated sales slip, (b) your name, (c) your address, (d) a description of the problem, and (e) the serial number of the product.
- Take or ship the product, freight prepaid, in the original container to an authorized ViewSonic® service center or ViewSonic®.
- For additional information or the name of the nearest ViewSonic® service center, contact ViewSonic®.

Limitation of implied warranties:

There are no warranties, express or implied, which extend beyond the description contained herein including the implied warranty of merchantability and fitness for a particular purpose.

Exclusion of damages:

ViewSonic's liability is limited to the cost of repair or replacement of the product. ViewSonic® shall not be liable for:

- Damage to other property caused by any defects in the product, damages based upon inconvenience, loss of use of the product, loss of time, loss of profits, loss of business opportunity, loss of goodwill, interference with business relationships, or other commercial loss, even if advised of the possibility of such damages.
- Any other damages, whether incidental, consequential or otherwise.
- Any claim against the customer by any other party.
- Repair or attempted repair by anyone not authorized by ViewSonic®.

Effect of state law:

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on implied warranties and/or do not allow the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

Sales outside the U.S.A. and Canada:

For warranty information and service on ViewSonic® products sold outside of the U.S.A. and Canada, contact ViewSonic® or your local ViewSonic® dealer.

The warranty period for this product in mainland China (Hong Kong, Macao, and Taiwan Excluded) is subject to the terms and conditions of the Maintenance Guarantee Card.

For users in Europe and Russia, full details of warranty provided can be found at: <http://www.viewsonic.com/eu/> under "Support/Warranty Information".



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