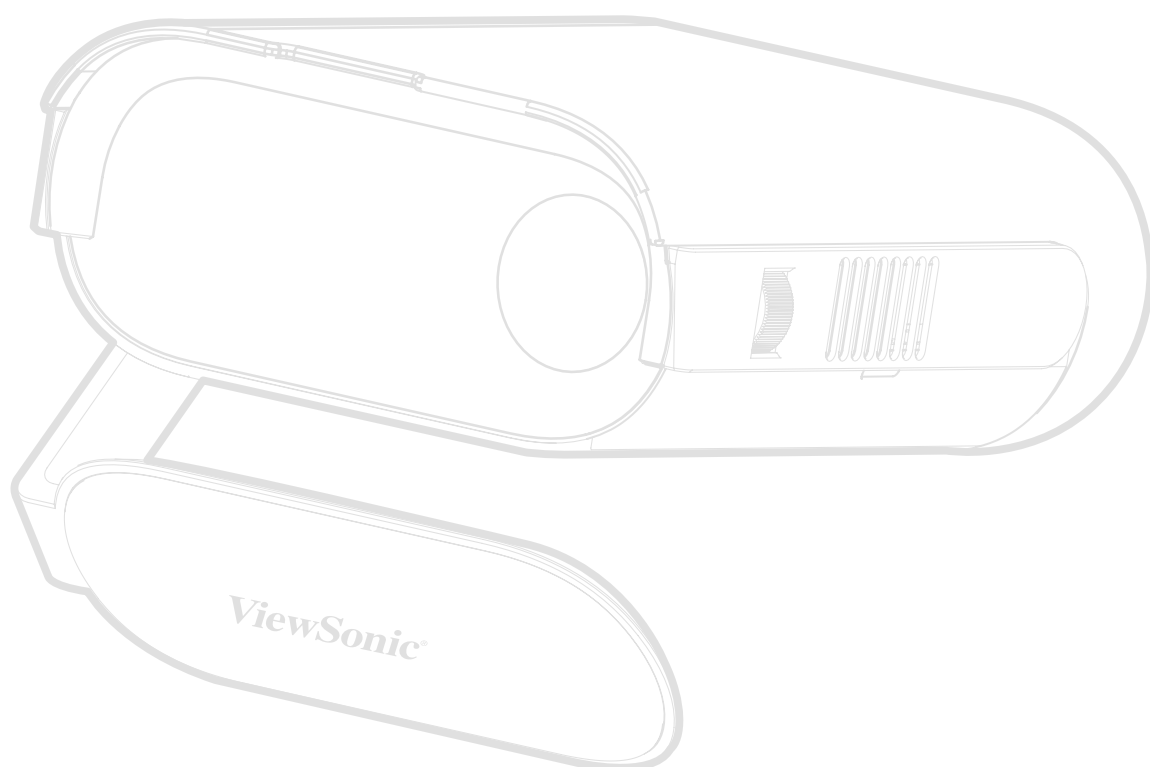


# M1X

## Portable LED Projector 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 of our website.

Model No. VS19530  
P/N: M1X

## **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 projector.

- Keep this user guide in a safe place for later reference.
- Read all warnings and follow all instructions.
- Allow at least 20" (50 cm) clearance around the projector to ensure proper ventilation.
- Place the projector in a well-ventilated area. Do not place anything on the projector that prevents heat dissipation.
- Do not place the projector on an uneven or unstable surface. The projector may fall over, causing personal injury or projector malfunction.
- Do not look straight at the projector lens during operation. The intense light beam may damage your eyes.
- Always open the lens shutter or remove the lens cap when the projector lamp is on.
- Do not block the projection lens with any objects when the projector is under operation as this could cause objects to become heated and deformed or even cause a fire.
- The lamp becomes extremely hot during operation. Allow the projector to cool for approximately 45 minutes prior to removing the lamp assembly for replacement.
- Do not use lamps beyond the rated lamp life. Excessive use of lamps beyond the rated life could cause them to break on rare occasions.
- Never replace the lamp assembly or any electronic component unless the projector is unplugged.
- Do not attempt to disassemble the projector. There are dangerous high voltages inside which may cause death if you should come into contact with live parts.
- When moving the projector, be careful not to drop or bump the projector on anything.
- Do not place any heavy objects on the projector or connection cables.
- Do not stand the projector on end vertically. Doing so may cause the projector to fall over, causing personal injury or projector malfunction.
- Avoid exposing the projector 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 projector to dangerous levels.

- Do not place liquids near or on the projector. Liquids spilled into the projector may cause it to fail. If the projector does become wet, disconnect it from the power supply and call your local service center to have the projector serviced.
- When the projector is under operation, you may sense some heated air and odor from its ventilation grill. It is a normal operation and not a defect.
- 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 and third blade 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.
- Protect the power cord from being treaded upon or pinched, particularly at the plug, and at the point where it emerges from the projector.
- In some countries, the voltage is NOT stable. This projector is designed to operate safely within a voltage between 100 to 240 volts AC, but could fail if power cuts or surges of  $\pm 10$  volts occur. In areas where voltage may fluctuate or cut out, it is recommended that you connect your projector through a power stabilizer, surge protector, or uninterruptable power supply (UPS).
- If smoke, an abnormal noise, or a strange odor is present, immediately switch the projector off and call your dealer or ViewSonic®. It is dangerous to continue using the projector.
- Use only attachments/accessories specified by the manufacturer.
- Disconnect the power cord from the AC outlet if the projector is not being used for a long period of time.
- Refer all servicing to qualified service personnel.

# Contents

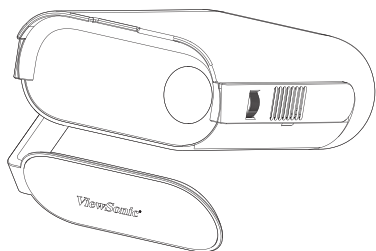
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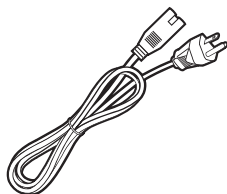
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# Introduction

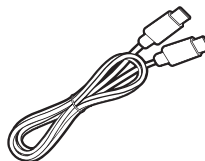
## Package Contents



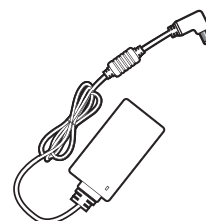
1



2



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4



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6



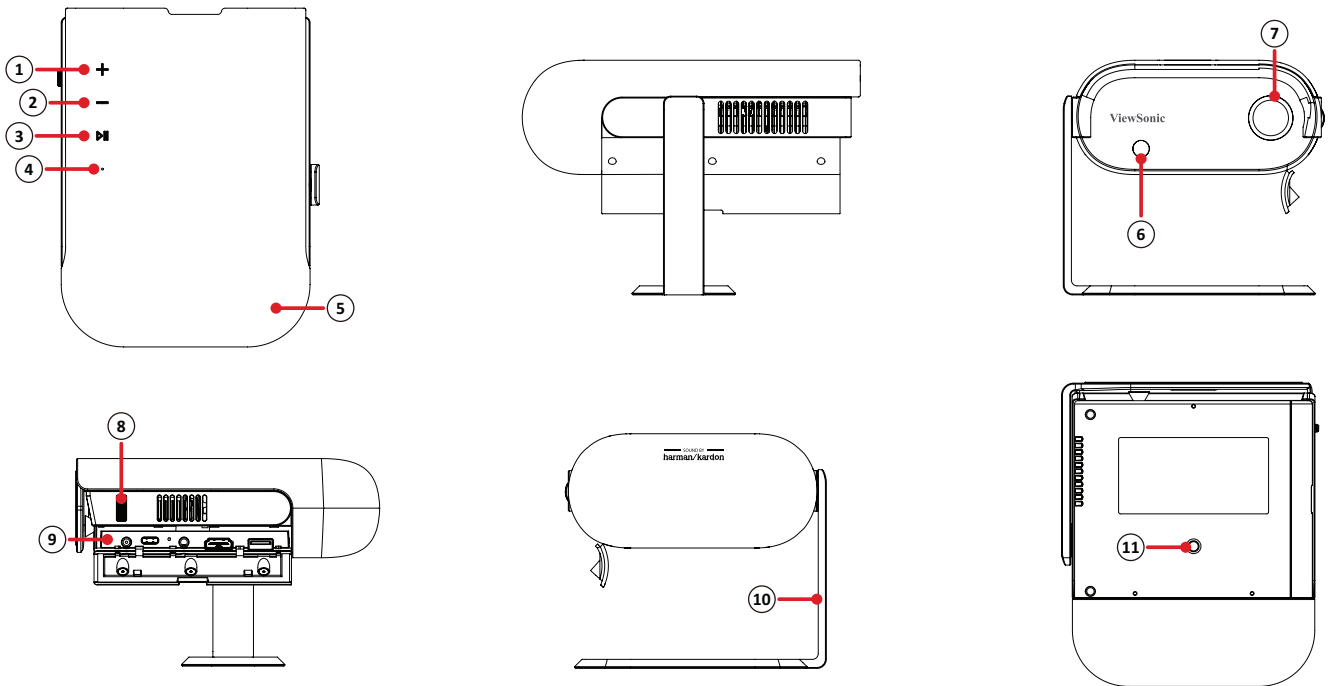
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Number	Description
1	Projector
2	Power Cord
3	USB Type C Cable
4	Power Adapter
5	Remote Control with Batteries
6	Carrying Bag
7	Quick Start Guide



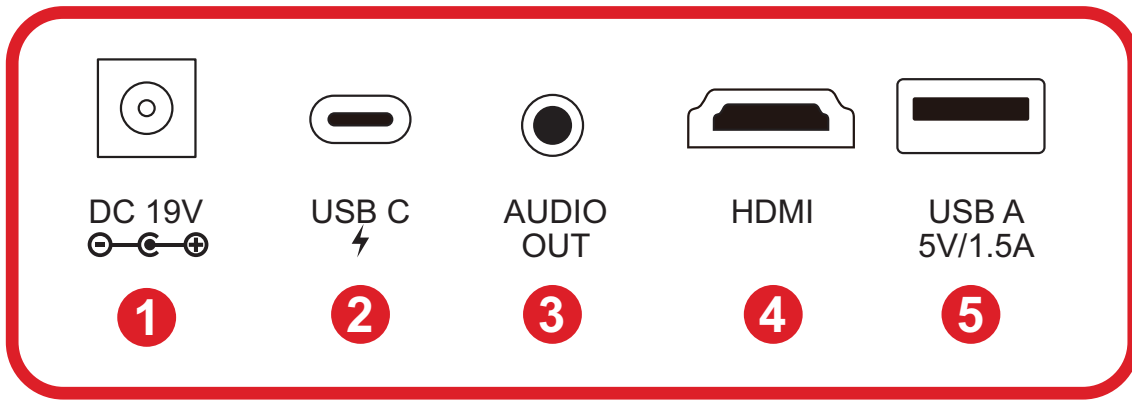
# Product Overview

## Projector



Number	Description
1	Volume Up
2	Volume Down
3	Play / Pause
4	LED Indicator (Power and Battery LED)
5	Speaker
6	IR Receiver
7	Lens
8	Focus Ring
9	I/O Ports
10	Smart Stand
11	Tripod Mount

## I/O Ports



1. DC IN

4. HDMI<sup>2 3</sup>

2. USB Type C<sup>1</sup>

5. USB Type A

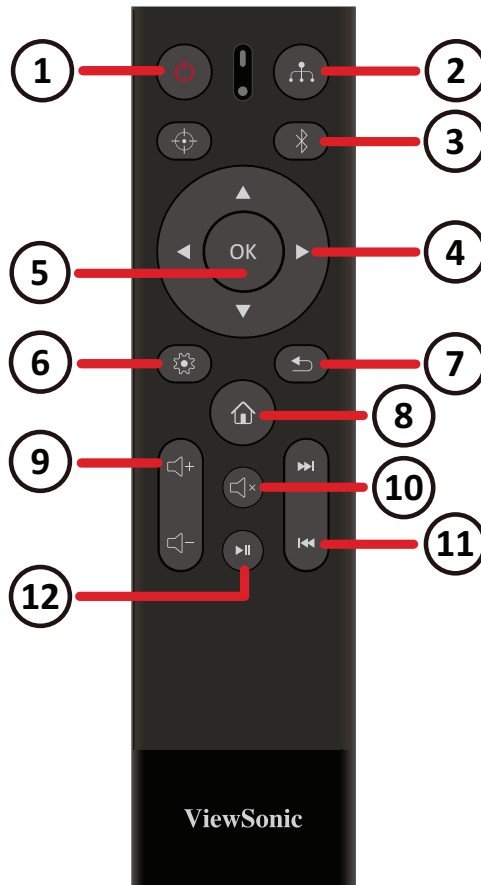
3. Audio Out

1- Please use the supplied USB Type C cable, and ensure your USB Type C device can support video transmission.

2- Supports HDCP 1.4/HDMI 1.4.

3- iPhone/iPad users will need to buy an additional adapter. To avoid compatibility issues, please use Apple authorized accessories.

## Remote Control



Button		Description
1	<b>Power</b>	Turns the projector on or off.
2	<b>Source</b>	Displays the input source selection menu.
3	<b>Bluetooth Mode</b>	Enable Bluetooth.
4	<b>Up/Down/Left/Right</b>	Navigate and select menu items.
5	<b>OK</b>	Confirms the selection.
6	<b>Setting</b>	Displays the Settings menu.
7	<b>Return</b>	Returns to the previous screen.
8	<b>Home</b>	Access the Home screen.
9	<b>Volume Control</b>	Increase or decrease the volume level.
10	<b>Mute</b>	Turn off the monitor's volume.
11	<b>Next/Previous</b>	Move to the next or previous media.
12	<b>Play/Pause</b>	Play or pause media.

**NOTE:** This model does not support the **Focus** button.

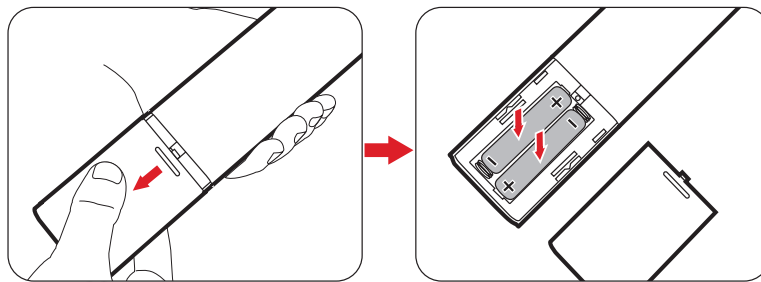
## Remote Control - Effective Range

To ensure proper function of the remote control follow the steps below:

1. The remote control must be held at an angle within 30° perpendicular to the projector's IR remote control sensor(s).
2. The distance between the remote control and the sensor(s) should not exceed 7 m (22 ft.)

## Remote Control - Replacing the Batteries

1. To open the battery cover, turn the remote control over to view its back, open the cover in the direction of the arrow.
2. Remove any existing batteries (if necessary) and install two (2) AAA batteries observing the battery polarities as indicated in the base of the battery compartment. Positive (+) goes to positive and negative (-) goes to negative.
3. Replace the battery tray by aligning it with the base and pushing it back into position.



### NOTE:

- Avoid leaving the remote control and batteries in excessive heat or a humid environment.
- Replace only with the same or equivalent type recommended by the battery manufacturer.
- If the battery is drained or if you will not be using the remote control for an extended period of time, remove the battery to avoid damage to the remote control.
- Dispose of used batteries according to the manufacturer's instructions and local environment regulations for your region.

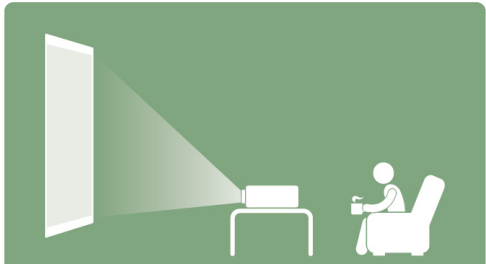
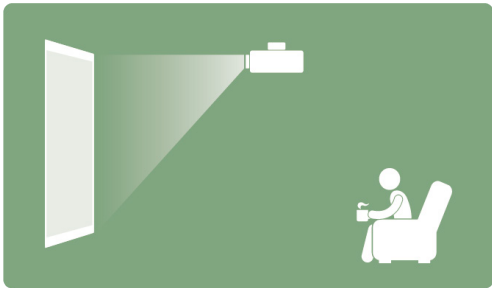
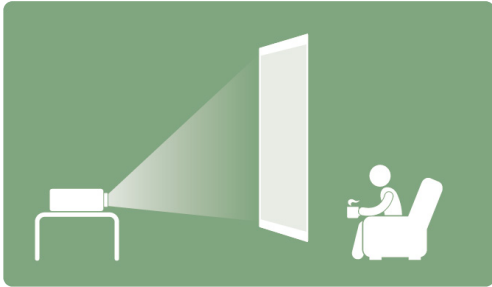
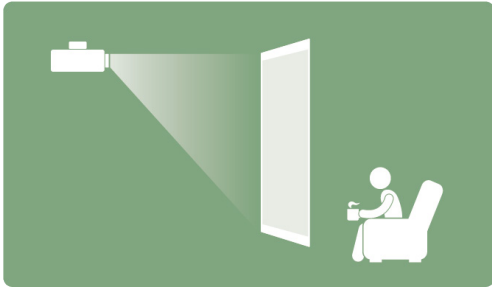
# Initial Setup

## Choosing a Location - Projection Orientation

Personal preference and room layout will decide the installation location. Consider the following:

- Size and position of your screen.
- Location of a suitable power outlet.
- Location and distance between the projector and other equipment.

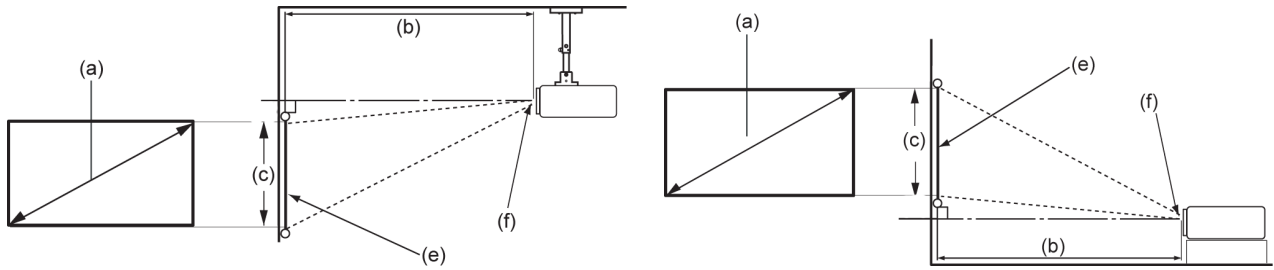
The projector is designed to be installed in one of the following locations:

Location	
<p><b>Front Table</b></p> <p>The projector is placed near the floor in front of the screen.</p>	 A diagram showing a projector on a small table in front of a screen. A beam of light projects from the projector onto the screen. A person is sitting in a chair to the right, looking at the screen.
<p><b>Front Ceiling</b></p> <p>The projector is suspended upside-down from the ceiling in front of the screen.</p>	 A diagram showing a projector suspended from the ceiling in front of a screen. A beam of light projects from the projector onto the screen. A person is sitting in a chair to the right, looking at the screen.
<p><b>Rear Table<sup>1</sup></b></p> <p>The projector is placed near the floor behind the screen.</p>	 A diagram showing a projector on a small table behind a screen. A beam of light projects from the projector through the screen. A person is sitting in a chair to the right, looking at the screen.
<p><b>Rear Ceiling<sup>1</sup></b></p> <p>The projector is suspended upside-down from the ceiling behind the screen.</p>	 A diagram showing a projector suspended from the ceiling behind a screen. A beam of light projects from the projector through the screen. A person is sitting in a chair to the right, looking at the screen.

<sup>1</sup> - A rear projection screen is required.

# Projection Dimensions

## 16:9 Image on a 16:9 Screen



**NOTE:** (e) = Screen / (f) = Center of Lens

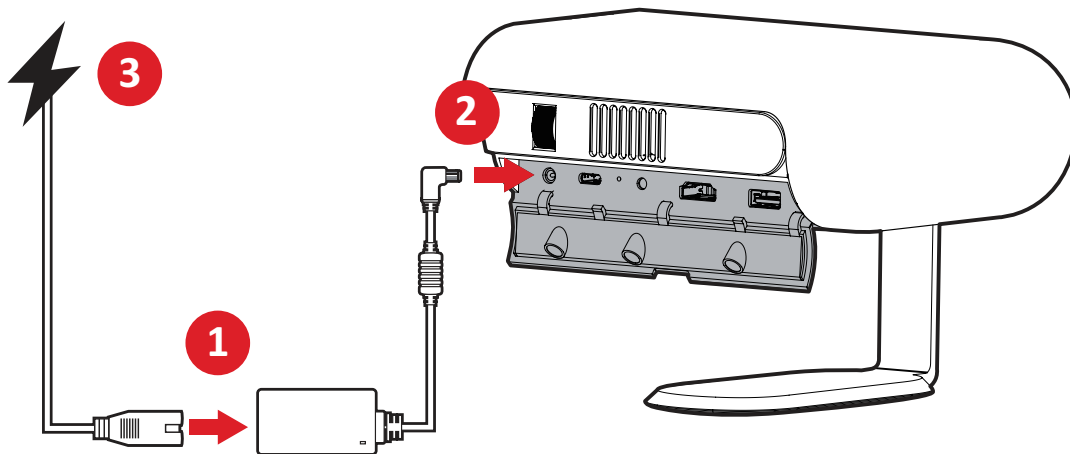
(a) Screen Size		(b) Projection Distance		(c) Image Height		Image Width	
in.	cm	in.	m	in.	cm	in.	mm
30	76.2	32.16	0.82	14.7	37.36	26.15	664
40	101.6	42.88	1.09	19.6	49.81	34.86	886
50	127	53.6	1.36	24.5	62.26	43.58	1107
60	152.4	64.32	1.63	29.4	74.72	52.29	1328
70	177.8	75.04	1.91	34.3	87.17	61.01	1550
80	203.2	85.76	2.18	39.2	99.62	69.73	1771
90	228.6	96.48	2.45	44.1	112.07	78.44	1992
100	254	107.2	2.72	49	124.53	87.16	2214

**NOTE:** It is recommended that if you intend to permanently install the projector, please physically test the projection size and distance using the actual projector before you permanently install it.

# Making Connections

## Connecting to Power

### DC Power (Power Outlet)



1. Connect the power cord to the power adapter.
2. Connect the power adapter to the DC IN jack at the side of the projector.
3. Plug the power cord plug into a power outlet. When connected, the charging status LED will turn white.

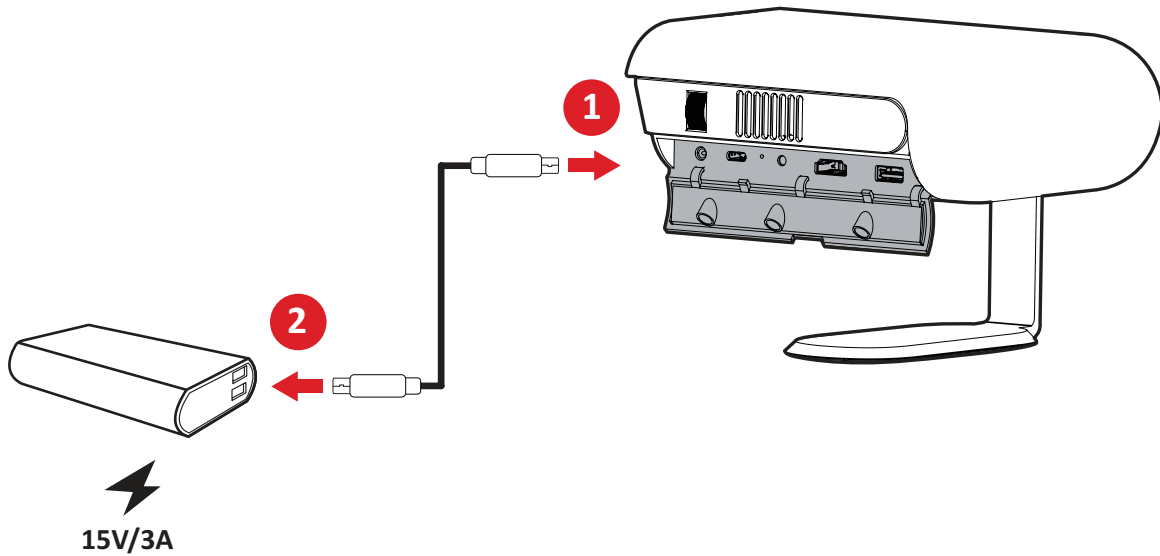
**NOTE:** Charge the projector for 4.5 hours via the power adapter before using it in battery mode for the first time.

### **!** IMPORTANT

- » Use only the bundled power adapter to charge the battery pack and supply power to your LED projector.
- » Make sure your LED projector is connected to the power adapter before turning it on for the first time. We strongly recommend that you use a grounded wall socket while using your LED projector in power adapter mode.
- » The socket outlet must be easily accessible and near your LED projector.
- » To disconnect your LED projector from its main power supply, unplug your LED projector from the power socket.

## Power by Power Bank

The projector can also be powered by a power bank.



1. Connect one end of the USB Type C cable to the **USB C** port of the projector.
2. Connect the other end of the USB Type C cable to the power bank.

### NOTE:

- The power bank should be 45W (15V/3A) at least, and support Power Delivery (PD) protocol output. Additionally, at 15V/3A the projector can be powered on and charge simultaneously.
- Due to the IC protection mechanism, the USB-C charging function may stop briefly then continue later on.

## Using the Battery

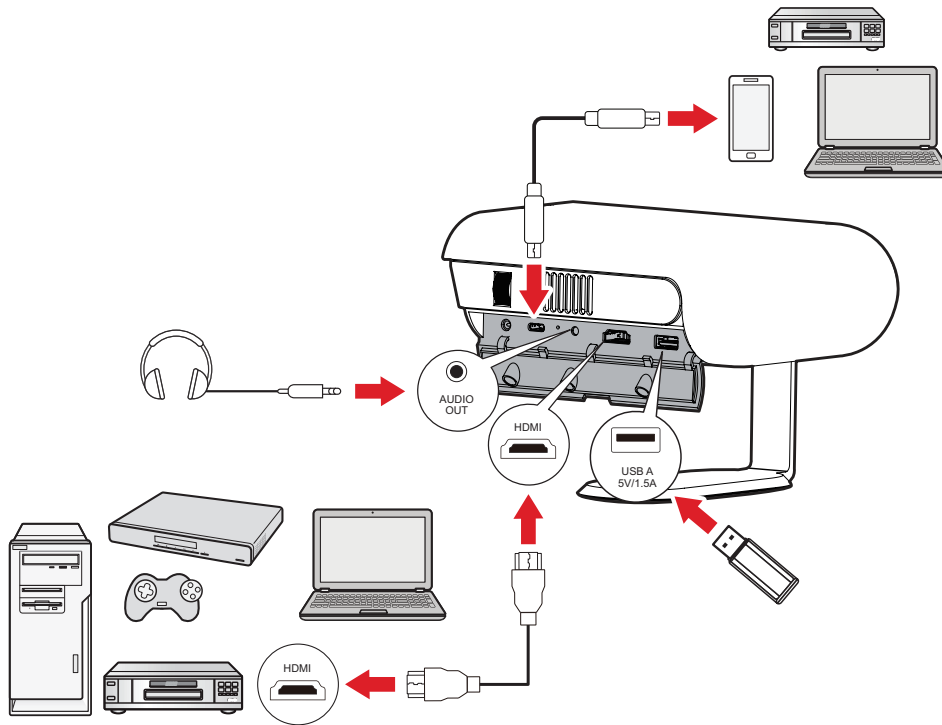
The battery level icon will show at the top right of the **Home Screen**. As the battery's power level runs low, the screen will show a "low battery message".

### Battery Usage Time Information

<b>Charging</b>	About 4.5 hours (Power Off)
<b>Usage Hours</b>	up to 4 hours (Battery Saving) up to 2.5 hours (Eco) up to 2 hours (Full)
<b>Battery Level Indicator (Charging)</b>	<u>During Charging</u> : Flashing White LED light <u>Full Charge</u> : Solid White LED light



# Connecting to External Devices



## HDMI Connection

Connect one end of an HDMI cable to the HDMI port of your video device. Then connect the other end of the cable to the **HDMI** port (supports HDCP 1.4/HDMI 1.4) of your projector.

## USB Connection

### USB Type A Connection

To enjoy photos, music, and movies, simply plug in a USB flash drive to the **USB A** port. For supported file formats, see page 49.

### USB Type C Connection

Connect one end of a USB Type C cable to the USB-C port of your device. Then connect the other end of the cable to the **USB C** port of your projector.

#### **NOTE:**

- Ensure your USB Type C device can support video transmission.
- The connected device can also be charged (5V/1.5A).

## Audio Connection

You can connect to various external sound delivery devices via the **Audio Out** port.

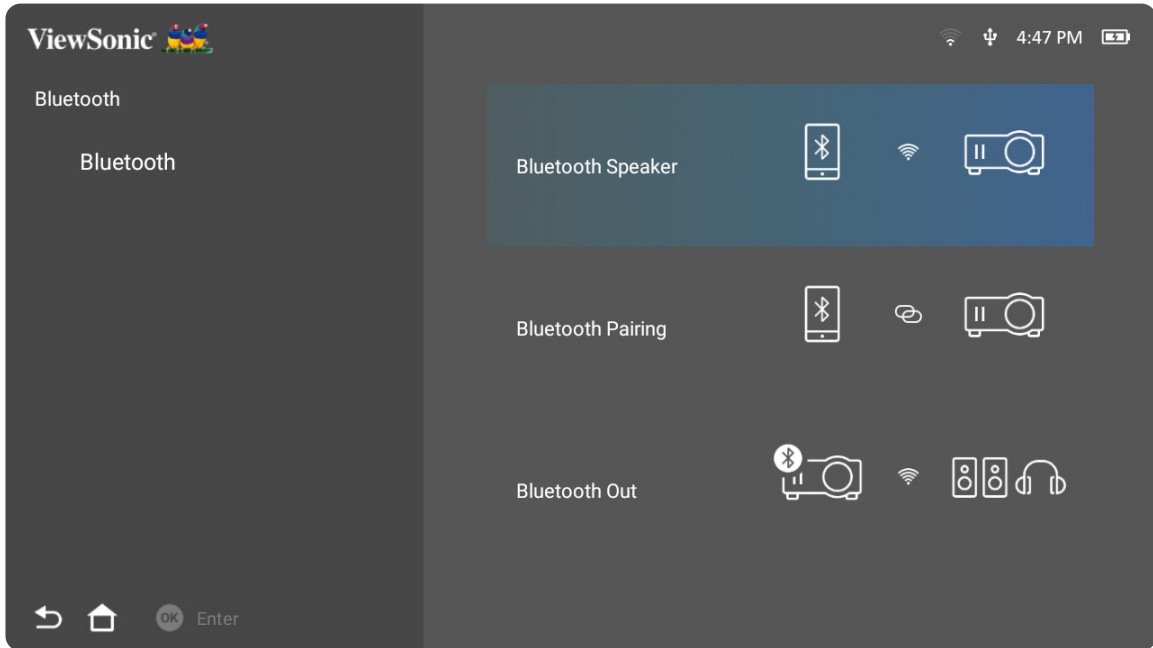
# Bluetooth Connection

## Bluetooth Speaker

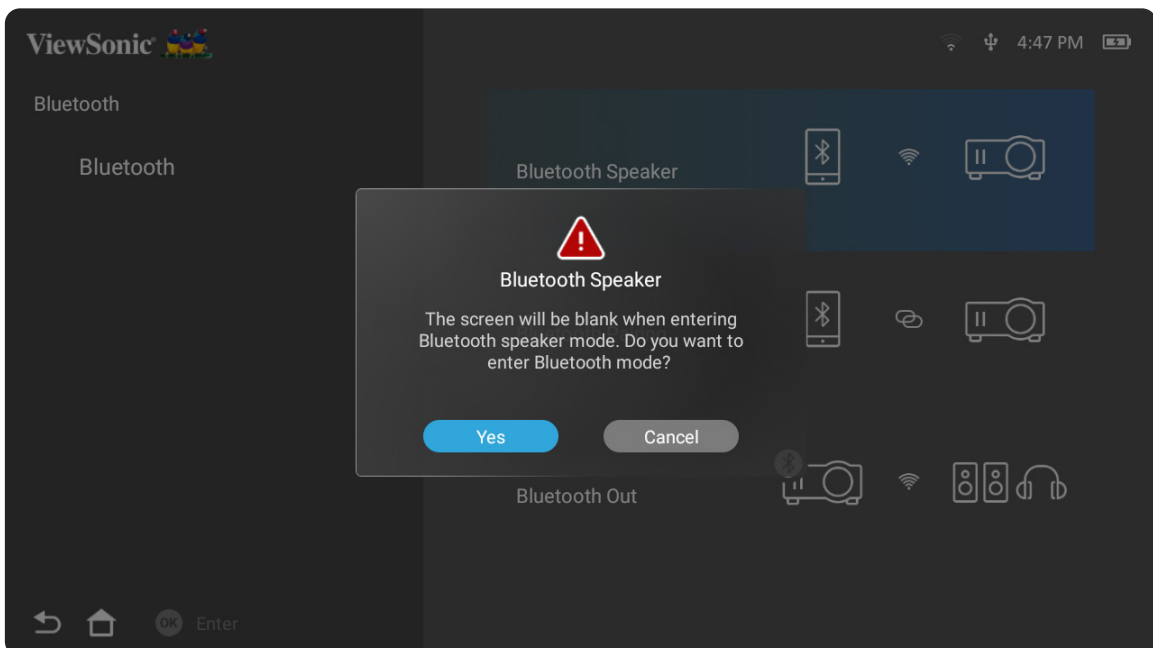
The projector is equipped with Bluetooth that allows the user to connect their device wirelessly for audio playback.

To connect and pair your device:

1. Go to: **Home > Bluetooth.**
2. Use the **Up** or **Down** directional buttons on the remote control to select **Bluetooth Speaker** or **Bluetooth Pairing**. Then press **OK** on the remote control.



3. When the below dialogue box appears, select **Yes** and press **OK** on the remote control to enter Bluetooth mode.



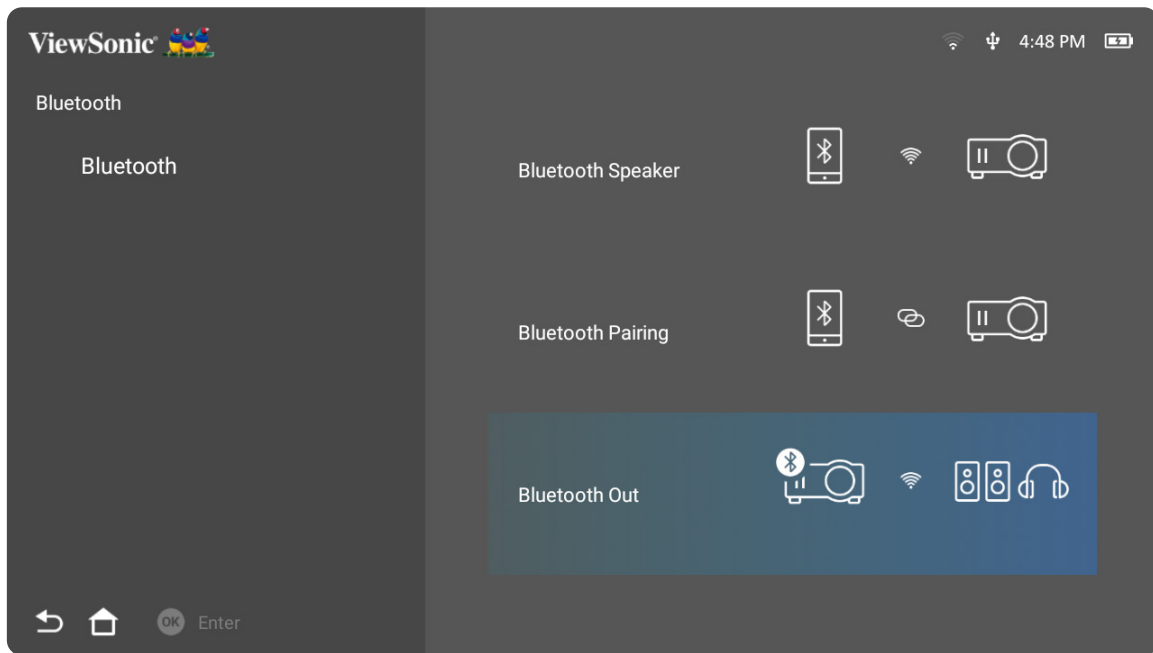
4. A sound effect will be audible upon entering pairing mode.
5. Upon successful connection, another sound effect will be audible.

**NOTE:**

- The projector's name will be labeled as "M1X".
- Only the **Power** and **Return** buttons can exit Bluetooth mode.

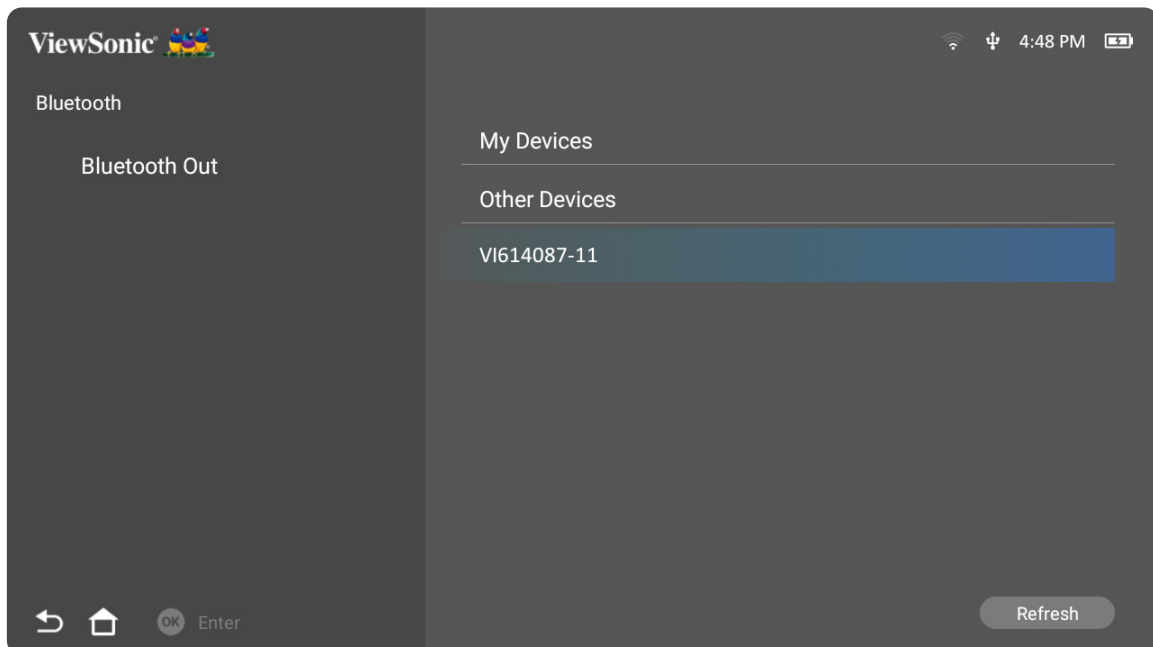
## Bluetooth Out

Connect the projector to external headphones or speakers that support Bluetooth.



To connect and pair your device:

1. Go to: **Home > Bluetooth.**
2. Use the **Up** or **Down** directional buttons on the remote control to select the **Bluetooth Out** option.



3. The projector will search for nearby Bluetooth devices. Select your device from the list and press **OK** on the remote control.

**NOTE:** Once paired, if both the projector and your device are powered on they will automatically connect via Bluetooth.

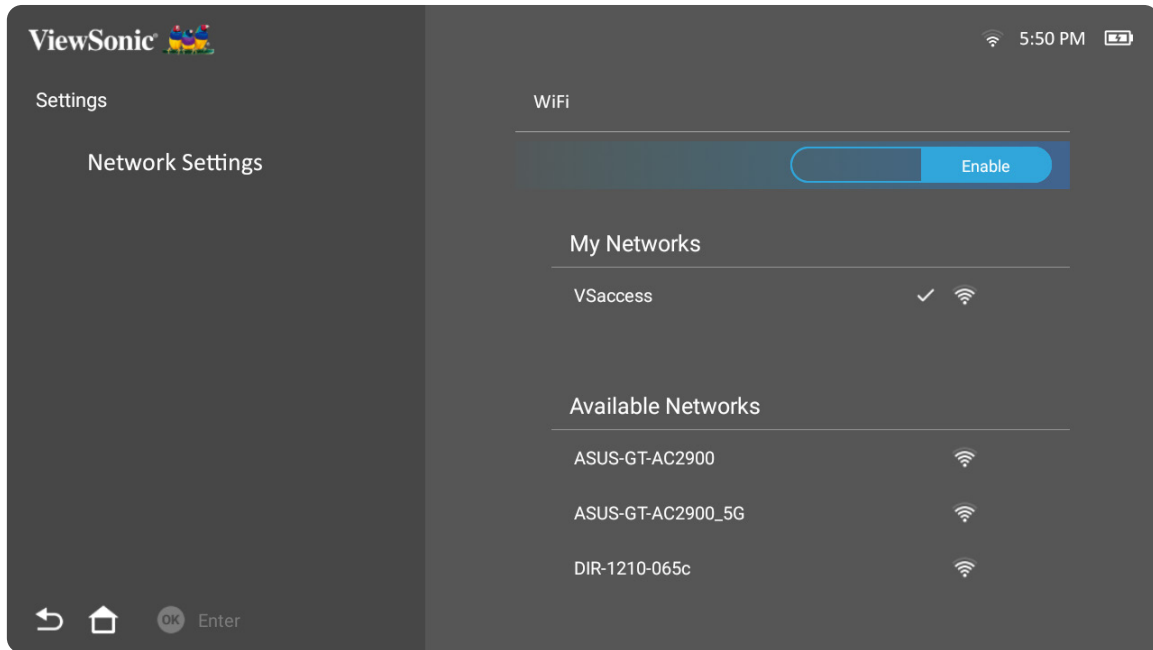
# Connecting to Networks

## Wi-Fi Connection

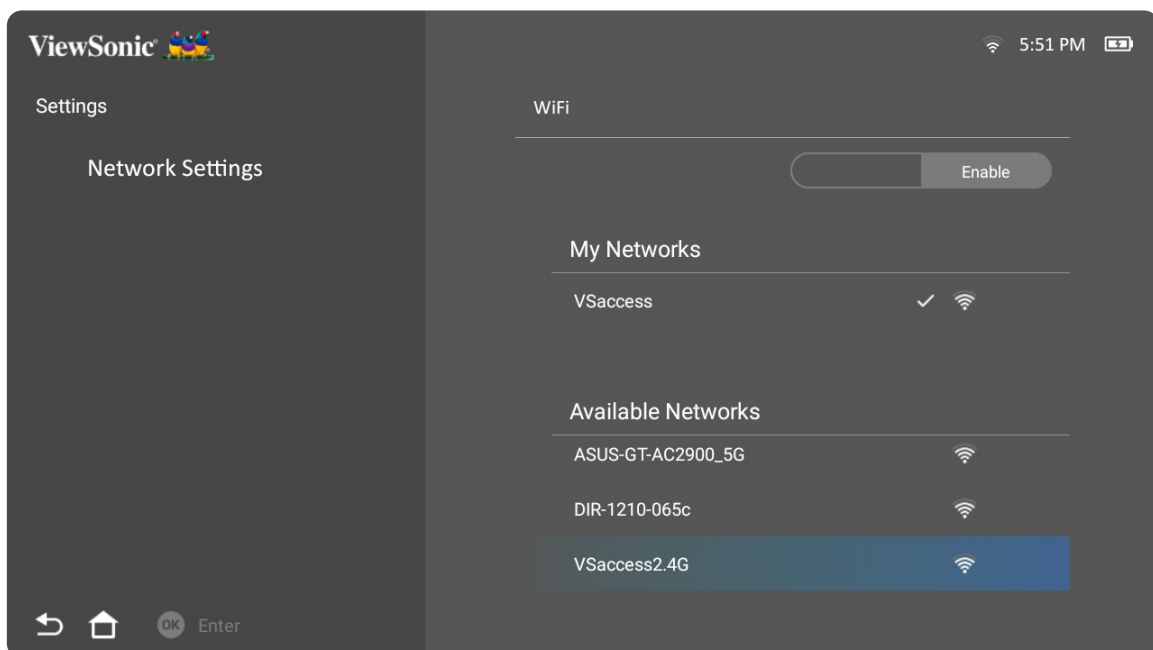
With built-in Wi-Fi, you can easily connect to wireless internet networks.

To connect to a Wi-Fi network:

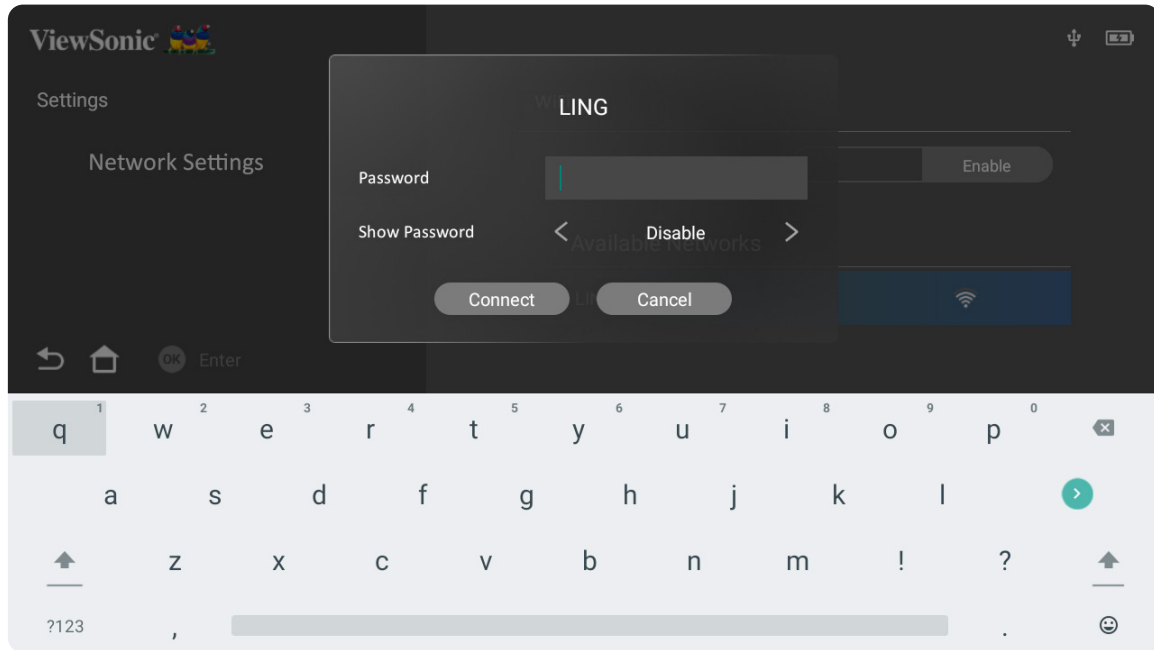
1. Go to: **Home > Settings > Network Settings > Wi-Fi**
2. Use the **Left** or **Right** directional buttons on the remote control to select **Enable**.



3. Available Wi-Fi networks will then be displayed. Select one of the available Wi-Fi networks.

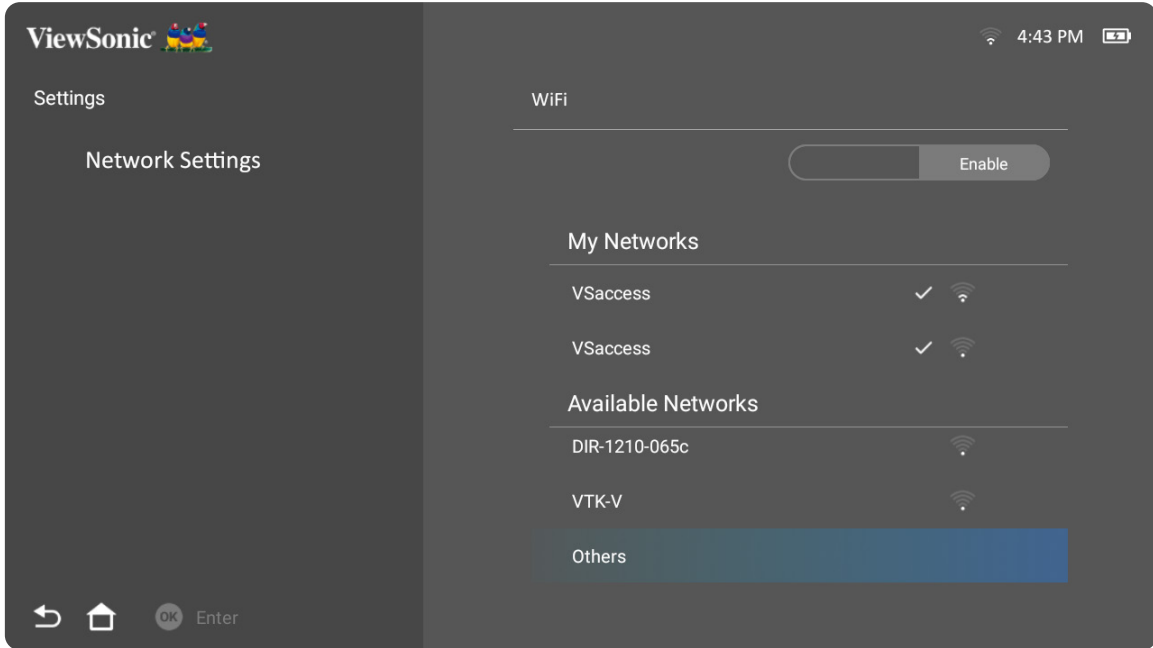


4. If you connect to a secure Wi-Fi network, you must enter the password when prompted.

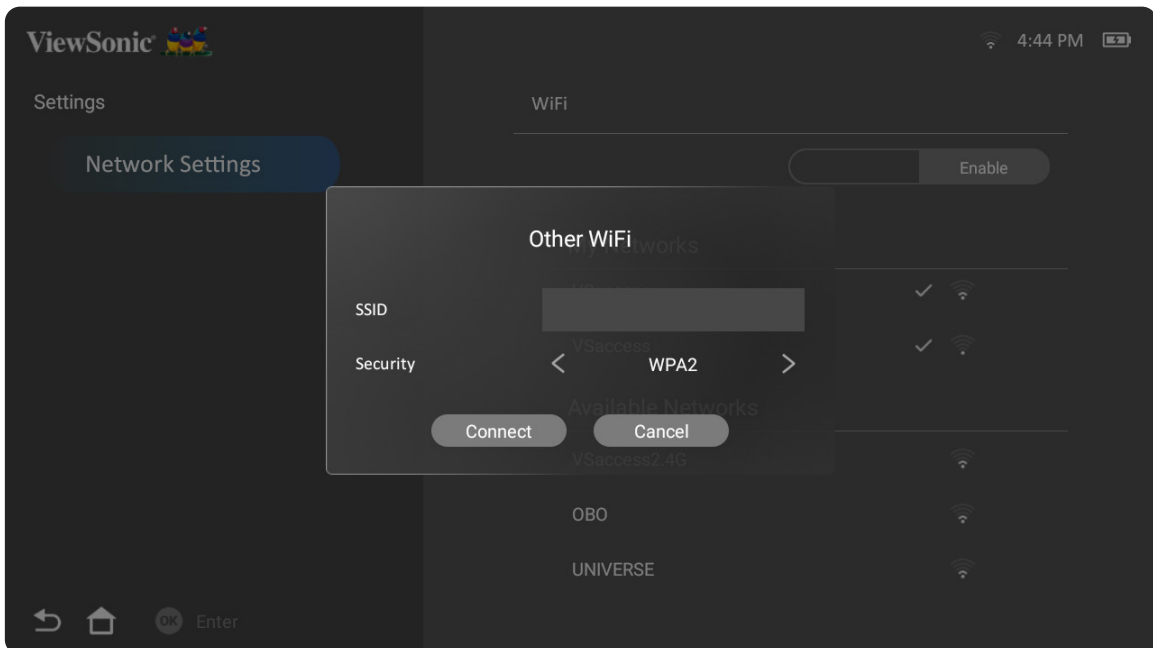


## Custom SSID

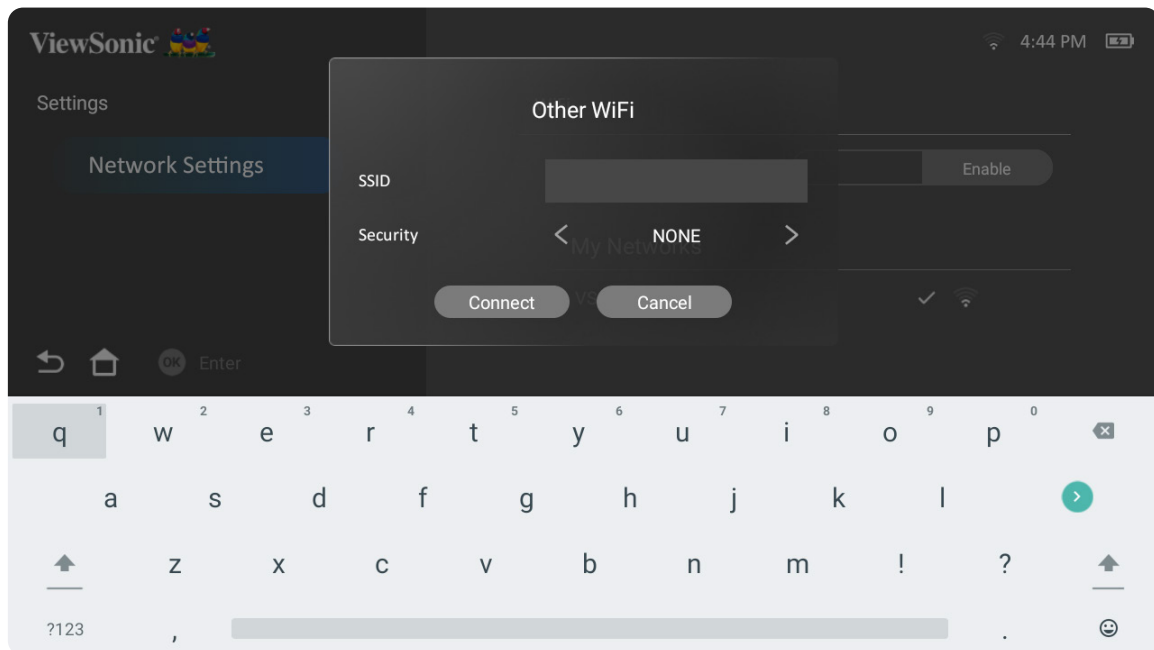
1. Go to: **Home > Settings > Network Settings > Wi-Fi**
2. Use the **Up** or **Down** directional buttons on the remote control to select **Enable**.
3. From the available Wi-Fi networks list select **Others** and press **OK** on the remote control.



4. Enter the SSID and select the security level.



5. Enter the password when prompted.

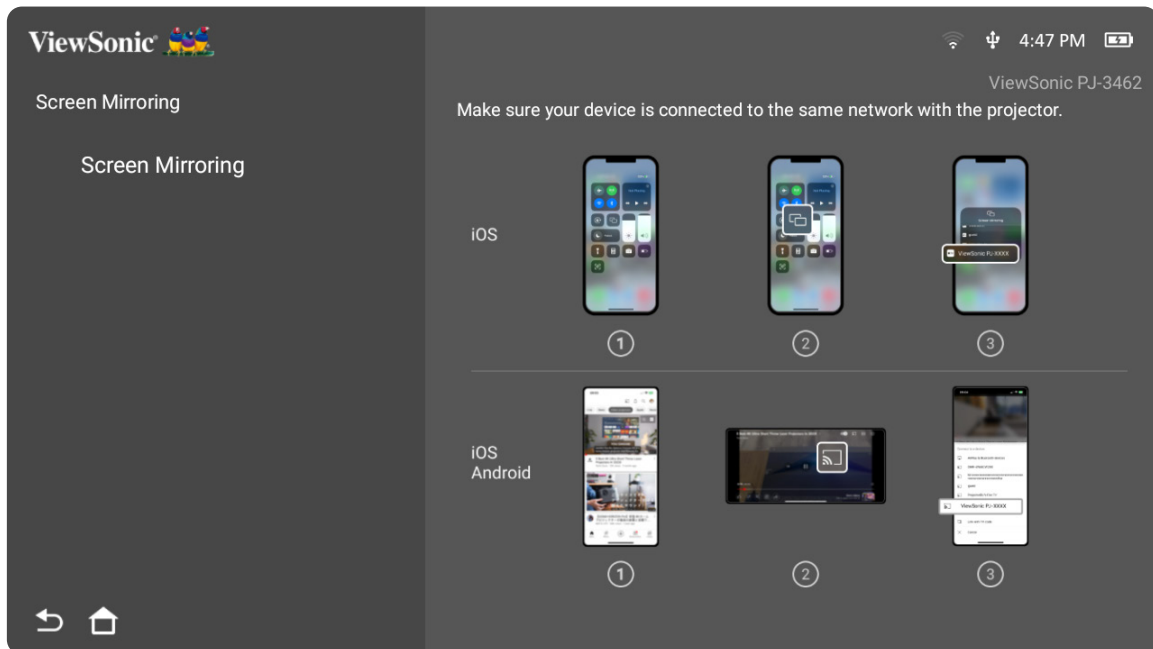




# Wireless Screen Mirroring

Screen Mirroring provides a 5 GHz Wi-Fi connection for users to mirror the screen on their personal device.

**NOTE:** Ensure your device is connected to the same network as the projector.



## For iOS:

1. Access the drop-down control menu.
2. Select the “Screen Mirroring” icon.
3. Choose “ViewSonic PJ-XXXX”.

## For Android:

1. Download and install the “Google Home” application and open it.
2. Pull-to-refresh the app and wait for 30 seconds.
3. “ViewSonic PJ-XXXX” will now be visible, select it.

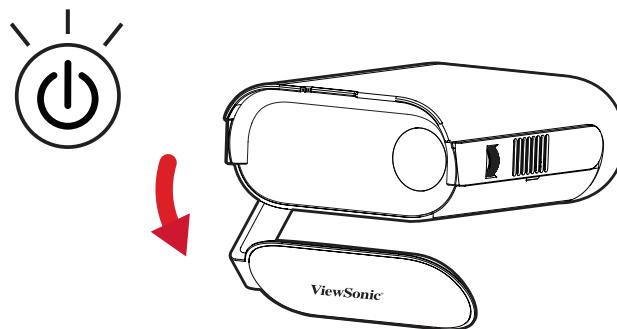
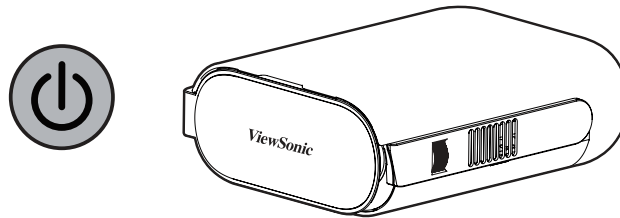
## How to Directly Cast (YouTube example)

1. Connect the projector and a mobile phone to the same Wi-Fi network.
2. Open the YouTube application on the connected mobile phone and tap the “CAST” icon at top right of the screen.
3. Select the projector’s name “ViewSonic PJ-XXXX” to start casting content from the mobile phone through the projector.
4. To stop casting, select the disconnect option on the phone’s screen.

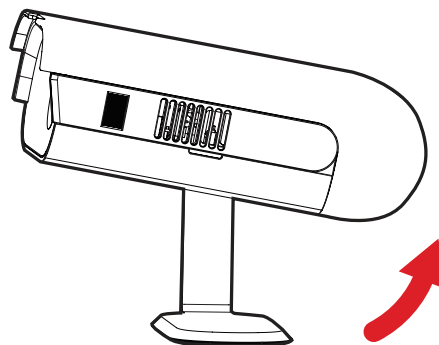
# Using the Projector

## Starting Up the Projector

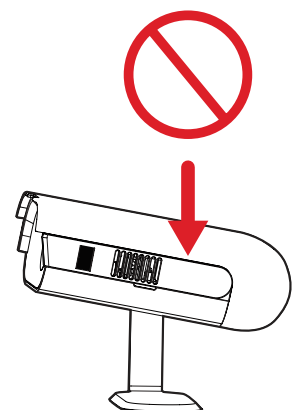
1. Ensure the projector is connected to a power source or that the battery has sufficient charge.
2. Open the Smart Stand by moving the lens cover down.



3. Move the Smart Stand to your desired viewing angle.



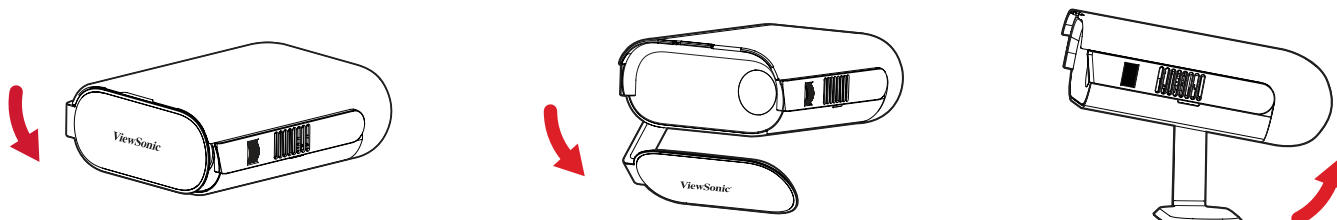
**NOTE:** Do not place any heavy objects or press down forcefully on the projector's I/O side when opening the Smart Stand as it may cause damage to the projector.



## Adjusting the Projected Image

### Adjusting the Projector's Height and Projection Angle

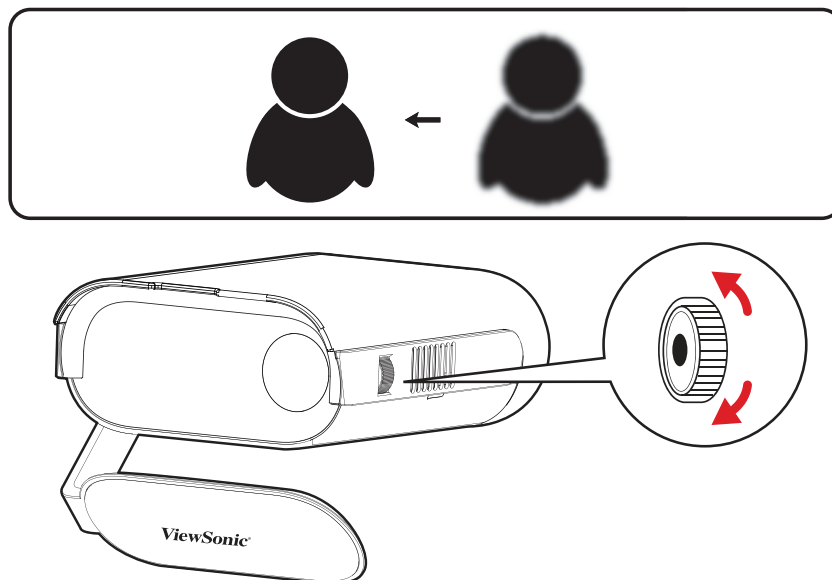
The projector is equipped with one Smart Stand. Adjusting the stand will change the projector's height and the vertical projection angle. Carefully adjust the stand to fine tune the projected image's position.



**NOTE:** If the projector is not placed on a flat surface or the screen and the projector are not perpendicular to each other, the projected image can become trapezoidal. However, the “Auto Vertical Keystone” function will correct the issue automatically.

### Adjusting the Focus

To adjust the focus of the on-screen image, slowly move the focus ring upwards or downwards.

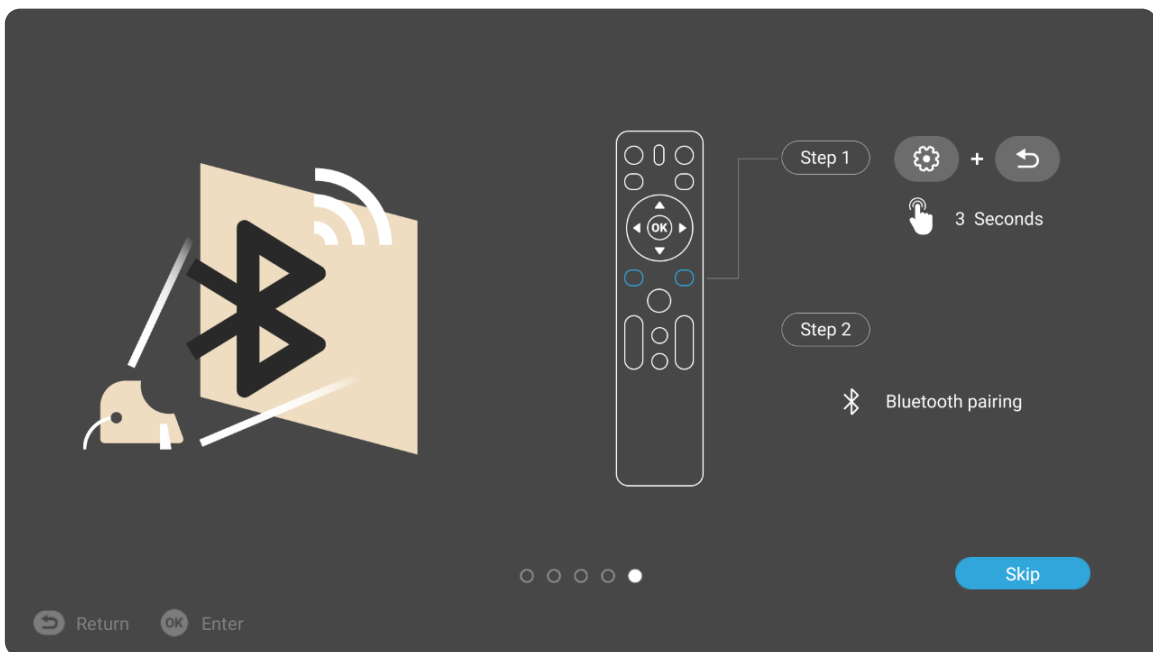


## First Time Activation

If the projector is activated for the first time, you will need to select your Preferred Language, Projection Orientation, and Network Settings. Follow the on-screen instructions using the **OK** and **Up/Down/Left/Right** buttons on the remote control. When the “Finish Screen” appears, this indicates the projector is ready to use.

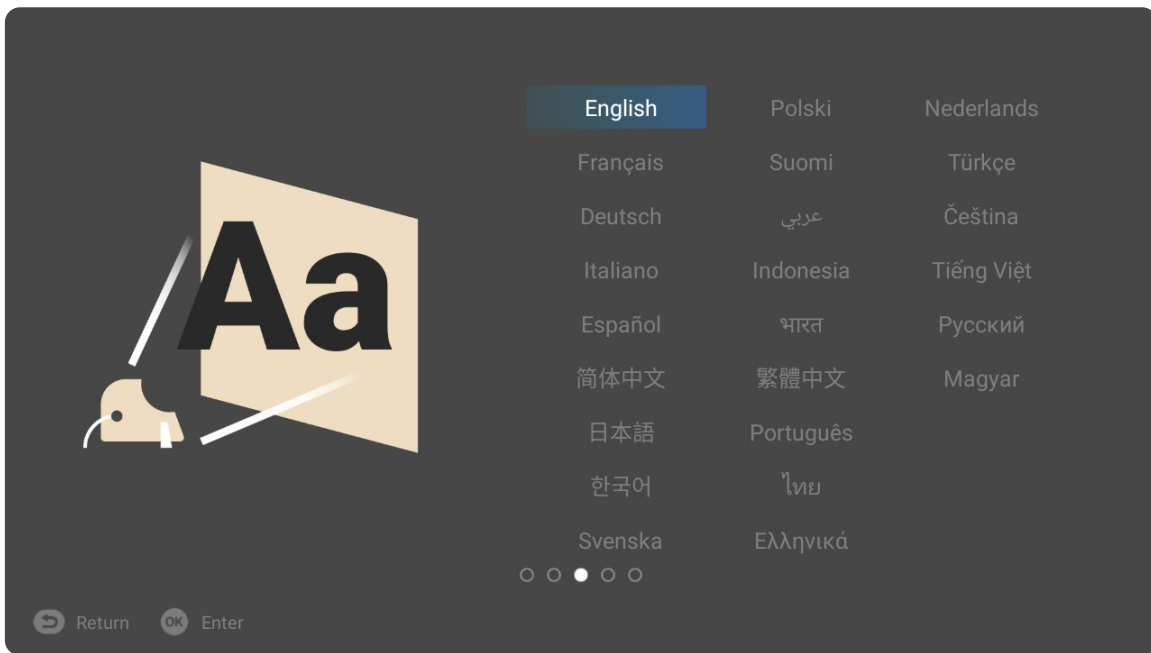
## Bluetooth Remote Pairing

1. Press and hold the **Settings** and **Return** button for three seconds to enter pairing mode.
2. The LED on the remote control will flash blue.
3. A “Successfully Paired” message will show. If not, please try again or select **Next** and go to: **Apps Center > RC BT Pairing**.



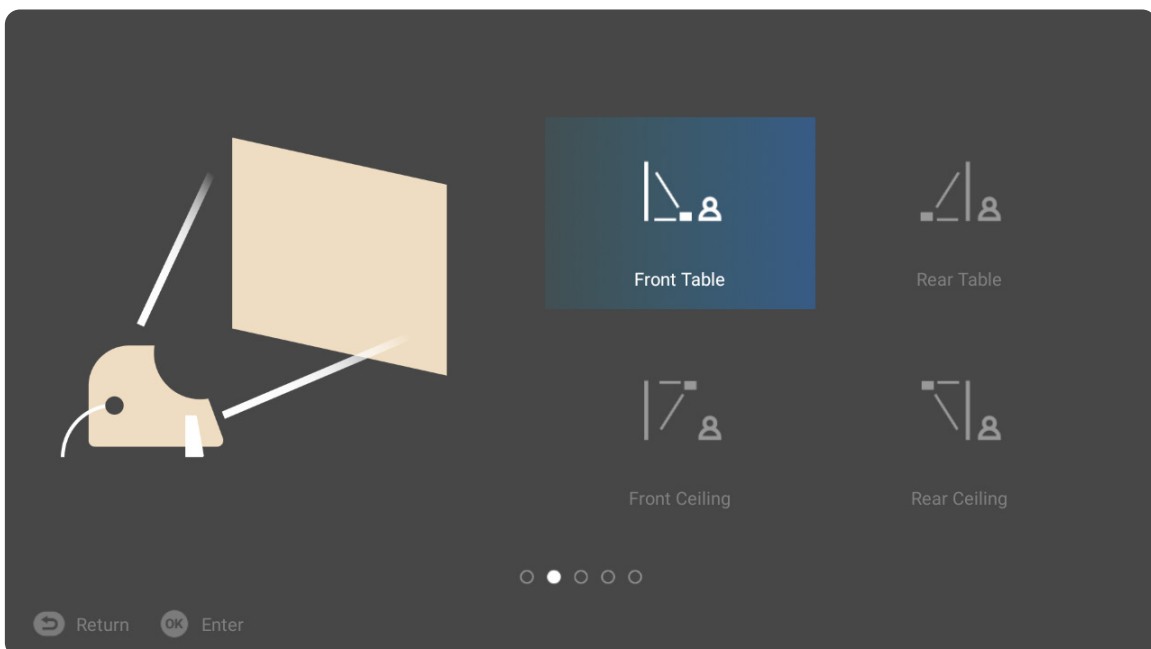
## Preferred Language

Select the desired language and press **OK** to confirm the selection.



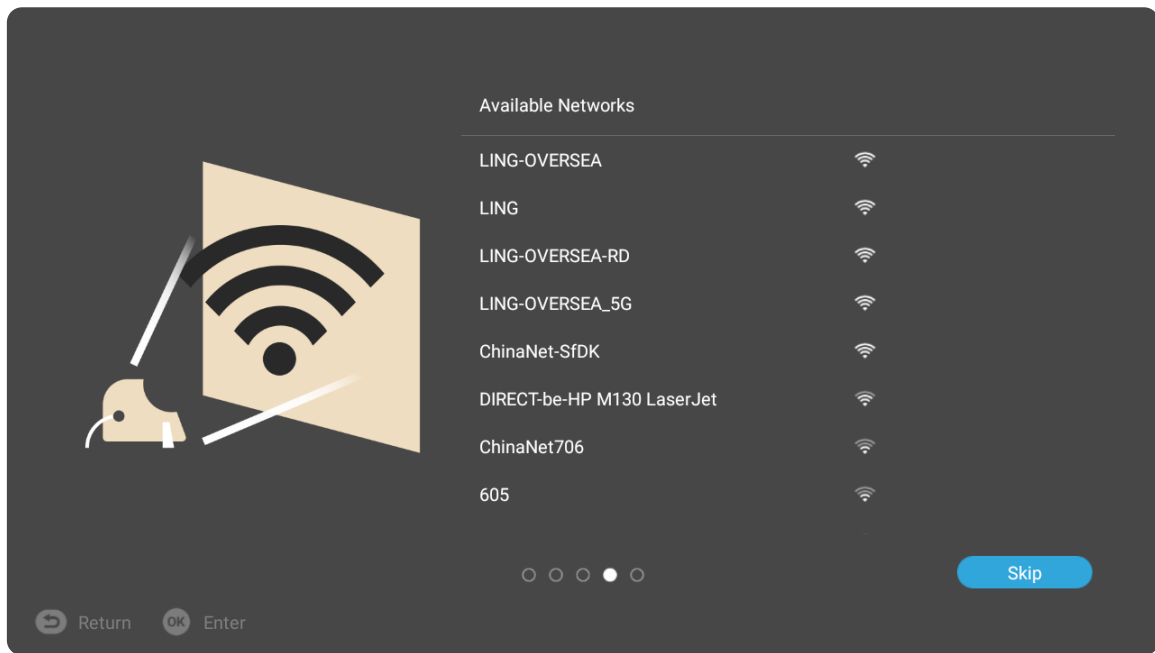
## Projection Orientation

Select the preferred projection orientation and press **OK** to confirm the selection.  
For more information, see page 13.



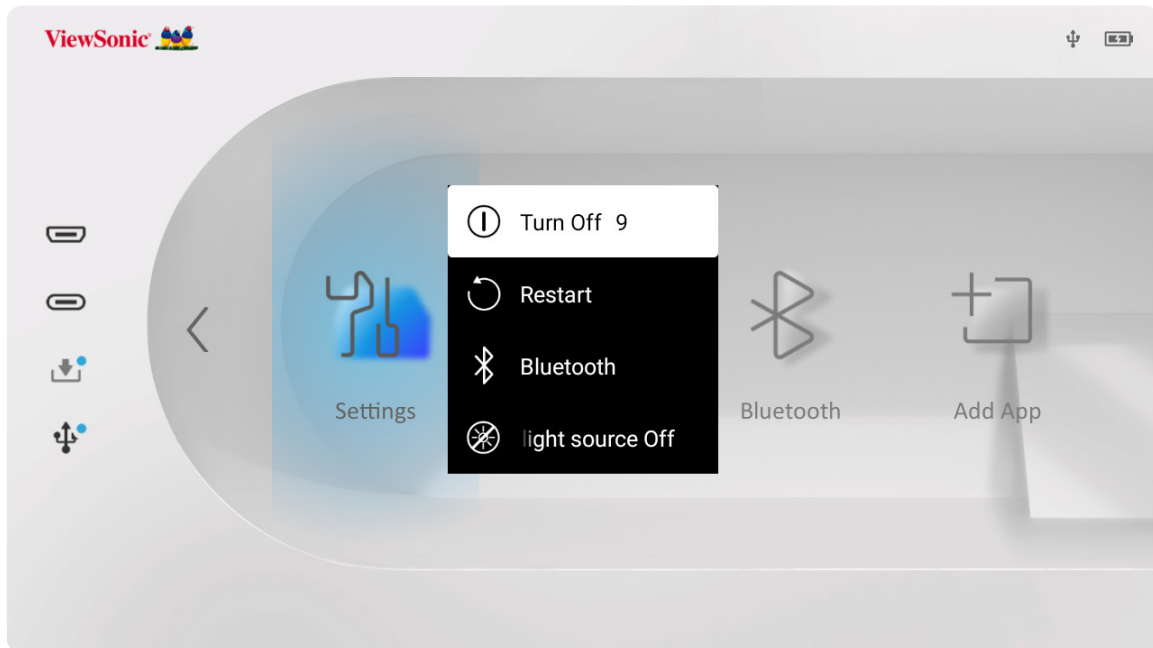
## Network Settings

Select one of the available Wi-Fi options. For more information, see page 21.



# Shutting Down the Projector

1. Pressing the **Power** button on the remote control will result in the following message:



2. Use the **Up** or **Down** directional buttons on the remote control to select **Turn Off** and press **OK** on the remote control.

**NOTE:** When not in use, please press the **Power** button to power off and close the Smart Stand. If only using the **Power** button to power off, the projector will enter standby mode and the embedded battery will still consume some power.

## Input Source Selected - On-Screen Display (OSD) Tree

After your input source is selected, you can adjust the **Image Setting** and **Advanced** menus.

Main Menu	Sub-menu	Menu Option		
Image Setting	Color Mode	Brightest		
		TV		
		Movie		
		Low Blue Light		
	Brightness	(-/+, 0~100)		
	Contrast	(-/+, -50~50)		
	Color Temp	6500K		
		7500K		
		9300K		
		User	Red Gain	(-/+, 0~100)
			Green Gain	(-/+, 0~100)
			Blue Gain	(-/+, 0~100)
			Red Offset	(-/+, -50~50)
			Green Offset	(-/+, -50~50)
			Blue Offset	(-/+, -50~50)
		Wall Color	Wall Color - Pink	
	Wall Color - Yellow			
	Wall Color - Blue			
	Tint	(-/+, -50~50)		
	Saturation	(-/+, 0~100)		
	Sharpness	(-/+, 0~50)		
	Gamma	1.8		
		2.0		
		2.2		
		2.5		
	Light Source Level	Full		
		Eco		
Battery Saving				
Test Pattern	OK			
Reset Current Color Settings	Yes			
	Cancel			



Main Menu	Sub-menu	Menu Option		
<b>Advanced</b>	Aspect Ratio	Auto		
		4:3		
		16:9		
	HDMI Settings	Range	Auto	
			Full	
			Limited	
	3D Settings	3D Format	Disable	
			Frame Sequential	
			Frame Packing	
			Top-Bottom	
			Side-by-Side	
		3D Sync Invert	Disable	
	Invert			
	Audio Settings	Audio Mode	Movie	
			Music	
		Audio Volume	(-/+ , 0~50)	
			Mute	Disable
	Enable			
	Information	Source	Ex. HDMI	
		Resolution	Ex. 1920 x 1080 @60Hz	
		3D Format	Ex. Frame Packing	

## Image Setting Menu

After your input source is selected, you can adjust the **Image Setting** menu.

To access the **Image Setting** menu:

1. Press **Setting** on the remote control.



2. Use the **Up/Down** buttons to select a menu.









3. Then use the **Left/Right** buttons to enter the sub-menu(s) and/or adjust the settings.



4. Press the **Return** button to go to the previous menu or exit.

**NOTE:** USB device source does not support the **Image Setting** function.



Menu Option	Description
<p><b>Color Mode</b></p>	<p>The projector is preset with several predefined picture modes so that you can choose one to suit your operating environment and input signal.</p> <p><b><u>Brightest</u></b> Maximizes the brightness of the projected image. This mode is suitable for environments where extra-high brightness is required (e.g., well-lit rooms).</p> <p><b><u>TV</u></b> Optimized for viewing sports in well-lit environments.</p> <p><b><u>Movie</u></b> Appropriate for colorful movies, video clips from digital cameras, or DVs through the PC input. Best for low-light environments.</p> <p><b><u>Movie</u></b> Appropriate for colorful movies, video clips from digital cameras, or DVs through the PC input. Best for low-light environments.</p> <p><b><u>Low Blue Light</u></b> Block high-energy blue light for a more comfortable viewing experience.</p>
<p><b>Brightness</b></p>	<p>The higher the value, the brighter the image. Lower values will result in a darker image.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>0</p> </div> <div style="text-align: center;">  <p>50</p> </div> <div style="text-align: center;">  <p>100</p> </div> </div>
<p><b>Contrast</b></p>	<p>Use this to set the peak white level after you have previously adjusted the <b>Brightness</b> setting to suit your selected input and viewing environment.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>0</p> </div> <div style="text-align: center;">  <p>50</p> </div> <div style="text-align: center;">  <p>100</p> </div> </div>

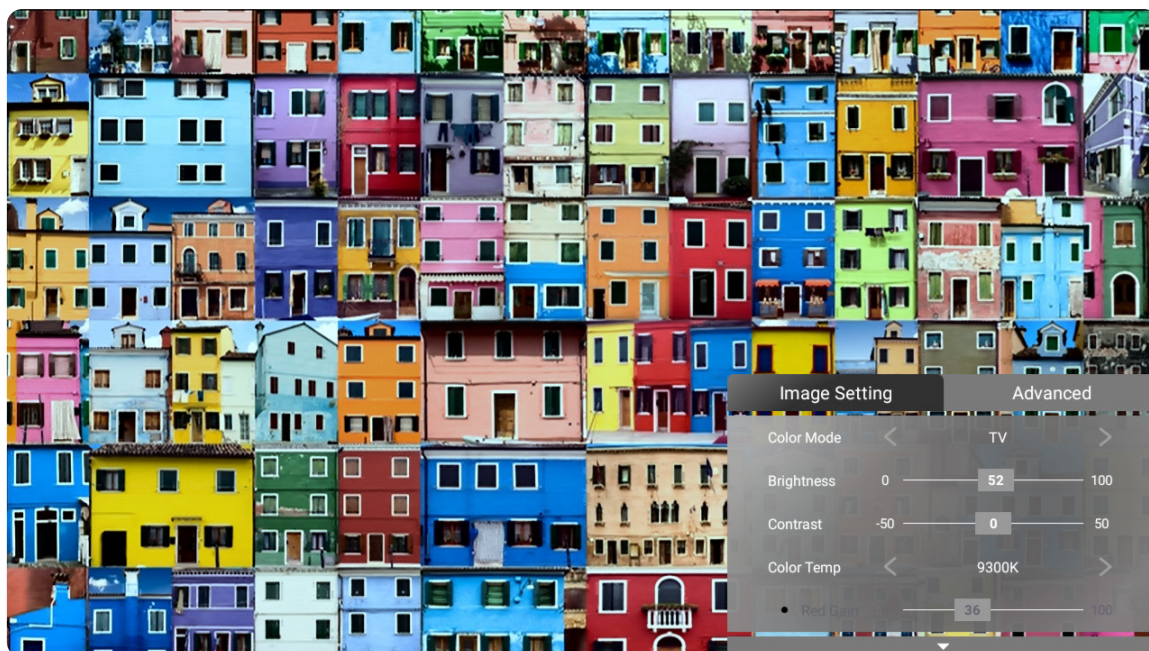
Menu Option	Description
<b>Color Temp</b>	<p>Select the color temperature setting.</p> <p><b><u>6500K</u></b> Maintains normal white coloring.</p> <p><b><u>7500K</u></b> A higher, cooler color temperature than 6500K.</p> <p><b><u>9300K</u></b> The highest color temperature; makes the image appear the most bluish-white.</p> <p><b><u>User Color</u></b> Adjust red, green, and blue values as desired.</p> <p><b>NOTE:</b> The Wall Color feature can help correct the projected picture's colors to prevent possible color difference between the source and projected pictures if you are projecting onto a colored surface such as a painted wall which may not be white.</p>
<b>Tint</b>	The higher the value, the more greenish the picture becomes. The lower the value, the more reddish the picture becomes.
<b>Saturation</b>	Refers to the amount of that color in a video picture. Lower settings produce less saturated colors; in fact, a setting of "0" removes that color from the image entirely. If the saturation is too high, that color will be overpowering and unrealistic.
<b>Sharpness</b>	A high value results in a sharper picture; a low value softens the picture.
<b>Gamma</b>	Reflects the relationship between input source and picture brightness.
<b>Light Source Level</b>	<p>Select the suitable power consumption of the LED.</p> <p><b><u>Full</u></b> 100% power consumption.</p> <p><b><u>Eco</u></b> 70% power consumption.</p> <p><b><u>Battery Saving</u></b> 30% power consumption.</p>
<b>Test Pattern</b>	Test the color presentation of the projector.
<b>Reset Current Color Settings</b>	Return current color settings to their default values.

## Advanced Setting Menu

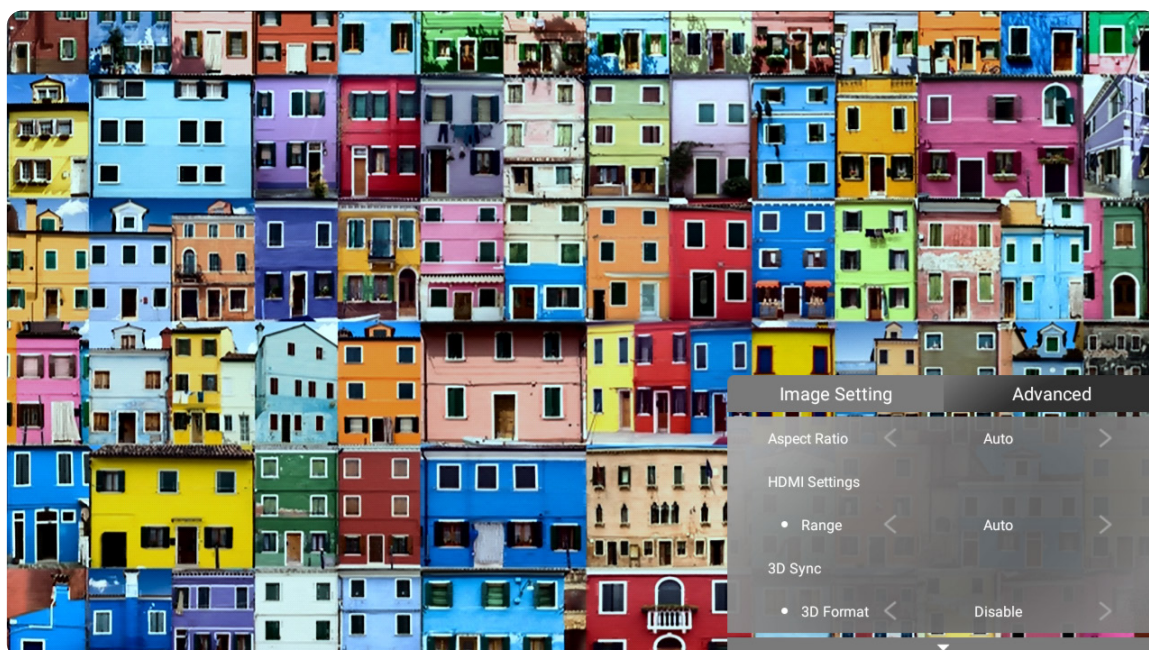
After your input source is selected, you can adjust the **Advanced** menu.

To access the **Advanced** menu:

1. Press **Setting** on the remote control.

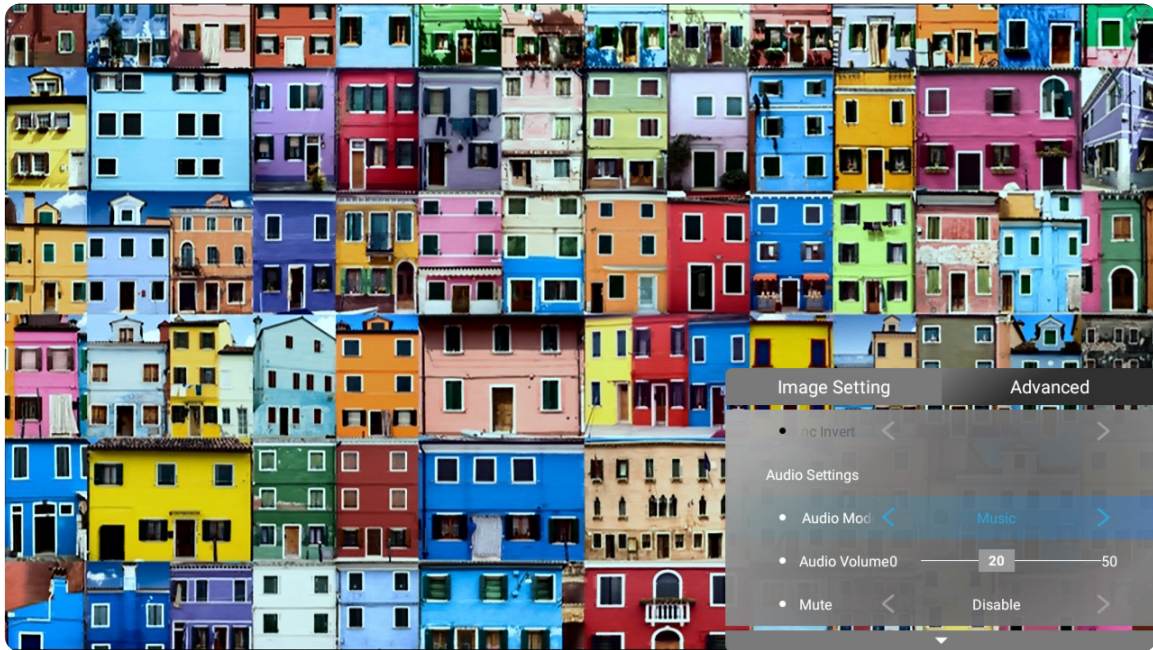


2. Press the **Right** button to access the **Advanced** menu.





3. Use the **Up/Down** buttons to select a menu.



4. Then use the **Left/Right** buttons to enter the sub-menu(s) and/or adjust the settings.

5. Press the **Return** button to go to the previous menu or exit.

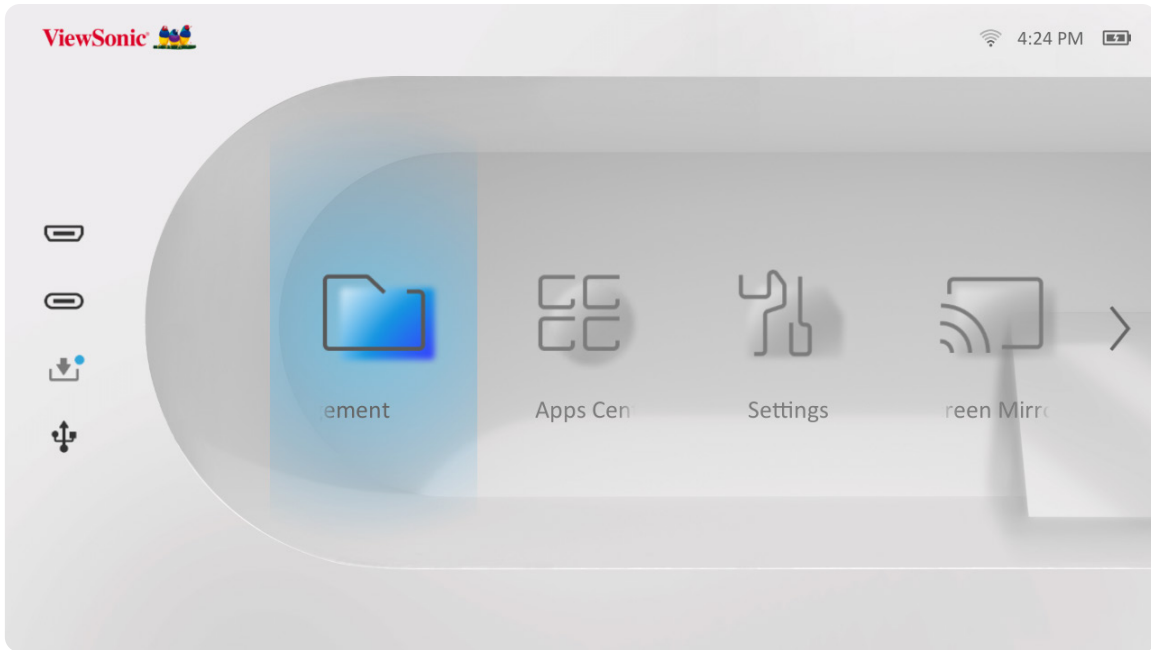
Menu Option	Description								
<p><b>Aspect Ratio</b></p>	<p>The aspect ratio is the ratio of the image width to the image height. With the advent of digital signal processing, digital display devices, like this projector, can dynamically stretch and scale the image output to a different aspect than that of the image input signal.</p> <p><b>NOTE:</b> Only supports HDMI/USB C signal input.</p> <p><b>Auto</b> Scales an image proportionally to fit the projector’s native resolution in its horizontal width. This is suitable for the incoming image which is neither 4:3 nor 16:9 and you want to make the most use of the screen without altering the image’s aspect ratio.</p> <p><b>4:3</b> Scales an image so that it is displayed in the center of the screen with a 4:3 aspect ratio. This is most suitable for 4:3 images like computer monitors, standard definition TV, and 4:3 aspect DVD movies, as it displays them without aspect alteration.</p> <p><b>16:9</b> Scales an image so that it is displayed in the center of the screen with a 16:9 aspect ratio. This is most suitable for images which are already in a 16:9 aspect, like high definition TV.</p>								
<p><b>HDMI Settings</b></p>	<p><b>Range</b> Select a suitable color range according to the color range setting of the connected output device.</p> <table border="1" data-bbox="504 1218 1401 1451"> <thead> <tr> <th data-bbox="504 1218 727 1267">Range</th> <th data-bbox="727 1218 1401 1267">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="504 1267 727 1357">Auto</td> <td data-bbox="727 1267 1401 1357">The projector automatically detects the range of the input signal.</td> </tr> <tr> <td data-bbox="504 1357 727 1406">Full</td> <td data-bbox="727 1357 1401 1406">Sets the color range from 0~255.</td> </tr> <tr> <td data-bbox="504 1406 727 1451">Limited</td> <td data-bbox="727 1406 1401 1451">Sets the color range from 15~235.</td> </tr> </tbody> </table>	Range	Description	Auto	The projector automatically detects the range of the input signal.	Full	Sets the color range from 0~255.	Limited	Sets the color range from 15~235.
Range	Description								
Auto	The projector automatically detects the range of the input signal.								
Full	Sets the color range from 0~255.								
Limited	Sets the color range from 15~235.								
<p><b>3D Settings</b></p>	<p>Enables you to enjoy 3D movies, videos, and sporting events in a more realistic way by presenting the depth of the images while wearing 3D glasses.</p> <p><b>3D Format</b> Adjust and choose from: Off, Frame Sequential, Frame Packing, Top-Bottom, Side-by-Side.</p> <p><b>3D Sync Invert</b> Allows for correction if the 3D image depth is inverted.</p>								
<p><b>Audio Settings</b></p>	<p>Adjust the audio settings.</p>								
<p><b>Information</b></p>	<p>Shows Input Source, Resolution, and 3D Format.</p>								



# Menu Operation

## Home Screen

The **Home Screen** is displayed every time you start the projector. To navigate the **Home Screen**, simply use the directional buttons on the remote control. You can return to the main **Home Screen** at any time by pressing the **Home** button on the remote control, regardless of what page you are on.



Menu	Description
<b>File Management</b>	Provides a user interface to manage files and folders.
<b>Apps Center</b>	Access and view all installed applications.
<b>Settings</b>	Manage various categories such as: Network settings, Basic and Advanced settings, Date & Time, Firmware update, and System Information.
<b>Screen Mirroring</b>	Mirror your personal device's screen through the projector.
<b>Bluetooth</b>	Select the appropriate Bluetooth mode.
<b>Add App</b>	Select your favorite Apps and add them to the <b>Home Screen</b> .

## Home Screen - On-Screen Display (OSD) Menu Tree

Main Menu	Sub-menu	Menu Option			
File Management					
Apps Center					
Settings	Network Settings	Wi-Fi	Disable		
			Enable	SSID:	
				Configure IP	
				IP Address	
				Subnet Mask	
				Default Gateway	
				DNS Server	
	Others				
	Date & Time	Automatic Date & Time	Disable		
			Enable		
		Date			
		Time			
		Time Zone			
		Time Format	12 hours		
24 hours					

Main Menu	Sub-menu	Menu Option		
Settings	Basic Settings	Language	English	
			French	
			German	
			Italian	
			Spanish	
			Russian	
			繁體中文	
			簡體中文	
			日本語	
			韓語	
			Swedish	
			Dutch	
			Turkish	
			Czech	
			Portuguese	
			Thai	
			Polish	
			Finnish	
			Arabic	
			Indonesian	
			Hindi	
			Vietnam	
	Greek			
	Hungarian			
	Projector Projection		Front Table	
			Front Ceiling	
			Rear Table	
			Rear Ceiling	
	Keystone		Auto V Keystone	Disable
				Enable
			V Keystone	(-/+ , -40~40)
			H Keystone	(-/+ , -40~40)
			4 Corner	Disable
	Enable			
		4 Corner Adjustment	OK	

Main Menu	Sub-menu	Menu Option			
Settings	Basic Settings	Zoom	0.8x		
			0.9x		
			1.0x		
			Test Pattern	OK	
	Advanced Settings	Power On Source	Disable		
			HDMI		
			USB C		
		Power On Ring Tone	Disable		
			Enable		
		Smart Energy	Auto Power Off	Disable	
				10 minutes	
				20 minutes	
				30 minutes	
			Sleep Timer	Disable	
				30 minutes	
				1 hour	
				2 hours	
				3 hours	
				4 hours	
		Power Saving	8 hours		
			12 hours		
	Enable				
	Audio Settings	Audio Mode	Disable		
			Music		
		Audio Volume	(-/+ , 0~50)		
			Disable		
Mute	Enable				
	Full				
	Eco				
Light Source Level	Battery Saving				
	Disable				
Screen Saver	Enable				

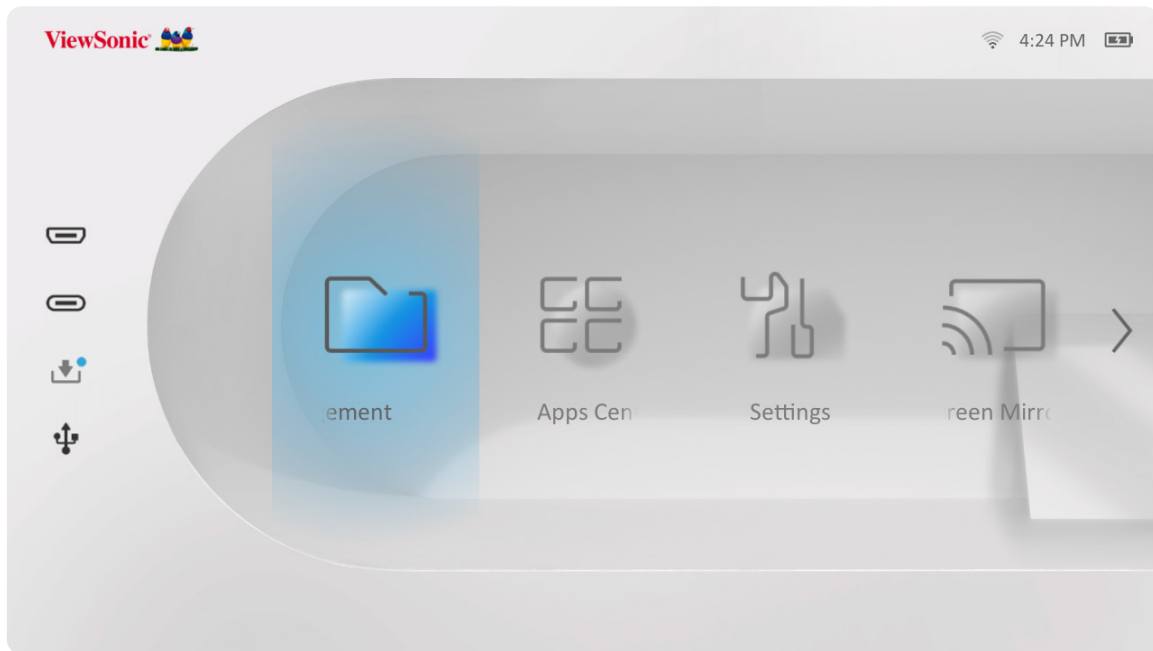
Main Menu	Sub-menu	Menu Option			
<b>Settings</b>	<b>Advanced Settings</b>	Power Bank Mode	Disable		
			Enable		
		High Altitude Mode	Disable		
			Enable		
		Reset Settings	OK		
	Reset to Factory Default	OK			
	<b>Firmware Upgrade</b>	Software Update Online			
		Software Update by USB			
		OTA Reminder	Enable		
			Disable		
	Software Version				
	<b>Information</b>	Light Source Hours			
		System Version			
		Memory Information	XX GB of XX GB Used		
		Wi-Fi Mac Address			
Serial Number					
<b>Screen Mirroring</b>					
<b>Bluetooth</b>					
<b>Add App</b>					
<b>Add App</b>					
<b>Add App</b>					
<b>Add App</b>					

# Menu Operations

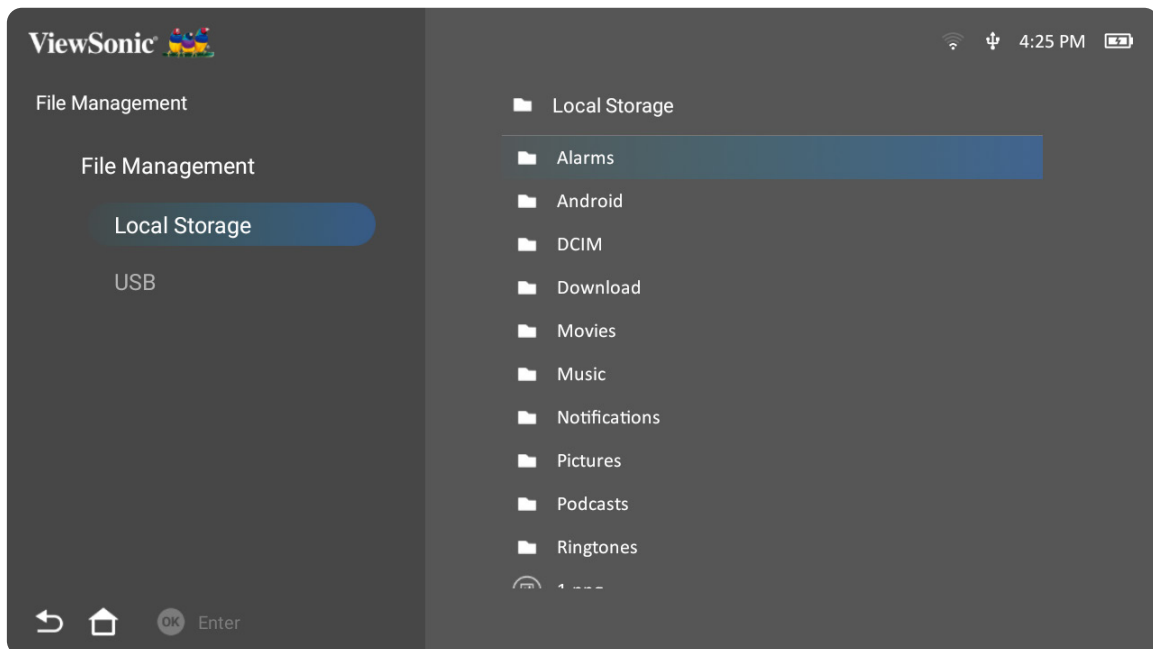
## File Management

Easily manage files and folders.

1. Select: **Home > File Management.**



2. Select a device on the source list. Use the direction buttons to select the desired file. Then press **OK** on the remote control to open the selected file.

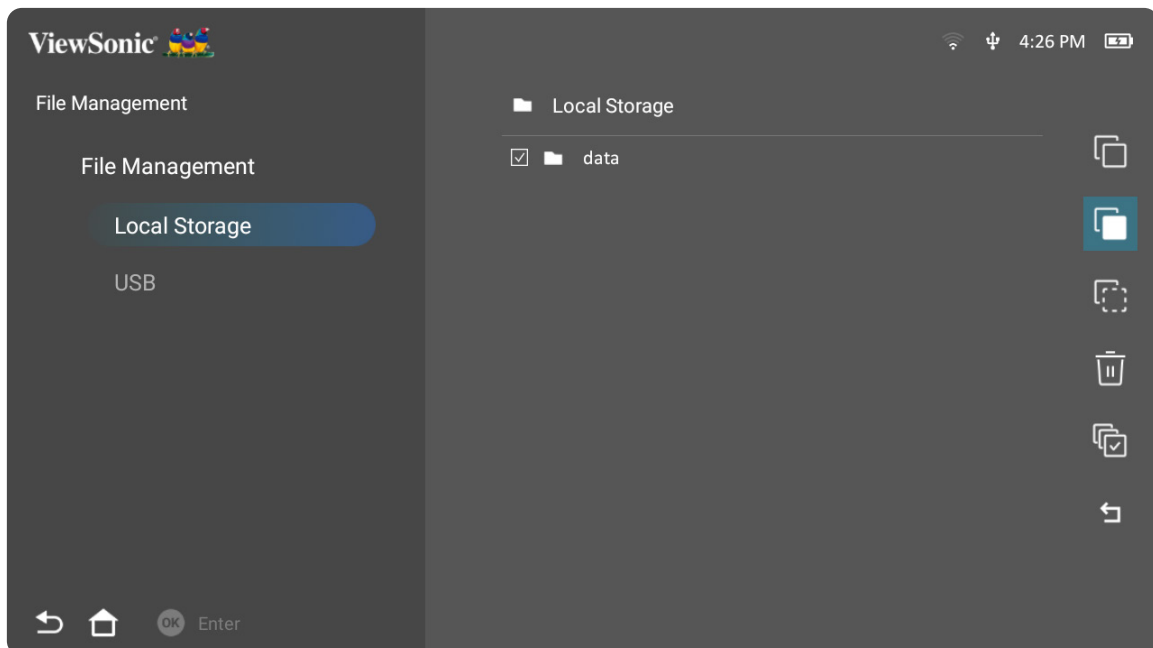


3. Press the **Return** button to go to a previous a level.

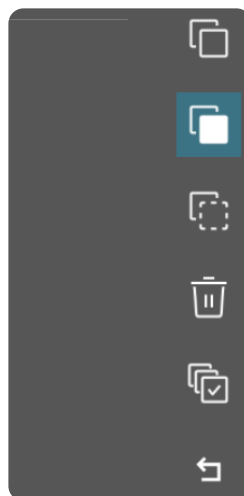
**NOTE:** Press the **Home** button on the remote control to return to the **Home Screen** at anytime.

## How to Edit a File

1. While in **File Management**, press and hold the **OK** button for three (3) seconds.
2. A check box will appear at the front of each file. Use the direction buttons and press **OK** to select one or more files.


























3. By pressing the **Right** button, Copy, Paste, Cut, Delete, Select All, and Return boxes will be available for use.



4. Select your desired action and press **OK** to execute.
5. If you are Copying or Cutting, select your destination folder to complete the process.

## How to Use the Media Control Bar Buttons

The media control bar buttons will appear on screen if a video, music, or photo file are selected to be opened.

Picture		Video		Music	
	Back		Back		Back
	Play		Rewind		Play
	Next		Play		Pause
	Zoom in		Pause		Next
	Zoom out		Fast Forward		Shuffle
	Rotate (left)		Next		Repeat All
	Rotate (right)				Repeat One
	Information				Play List
					Information

## Tips for Using USB

When using USB for reading and/or storage please keep in mind the following:

1. Some USB storage devices may not be compatible.
2. If you use a USB extension cable, the USB device may not recognize the USB.
3. Only use USB storage devices formatted with Windows FAT32 or NTFS file system.
4. Larger files will need extra time to load.
5. Data on USB storage devices may be damaged or lost. Back up important files.



## Supported File Formats

### Multimedia Formats

Extension	Type	Codec
.avi	Audio	MP3
.mp4 .m4v .mov	Video	H.264/MPEG-4
.mkv	Video	H.264
.ts	Video	H.264, MPEG-2
.trp .tp .mts .m2ts	Audio	MP3
.vob	Video	MPEG-1, MPEG-2
	Audio	DVD-LPCM
.mpg	Video	MPEG-1

## Office Formats

		Items	Indicators	
I.	Document Viewing Function	1	doc/docx	Able to open and read documents in doc/docx
		2	xls/xlsx	Able to open and read documents in xls/xlsx
		3	ppt/pptx	Able to open and read documents in ppt/pptx
		4	Pdf	Able to open and read documents in pdf
II.	Supporting Interface Language	1	Supporting Interface 44 languages	English, Simplified Chinese, Chinese (TW), Chinese (HK), Spanish (LA), French (EU), PT (EU), PT (BR), German, Russian, Italian, Swedish, Spanish (EU), Korean, Arabic, Farsi, Serbian, Bosnian, Macedonian, Bulgarian, Ukrainian, Greek, Norwegian, Danish, Czech, Hungarian, Slovak, Polish, Romanian, Finnish, Estonian, Latvian, Lithuanian, British English, Slovenian, Croatian, Turkish, Vietnamese, Bahasa Indonesia, Dutch, Malay, Thai, Hindi, Hebrew, Burmese, Catalan.

## Photo Formats

Format	Type	Maximum Resolution
.jpg/.jpeg	Progressive JPEG	7680 x 4320
	Baseline JPEG	7680 x 4320
.bmp		9600 x 6400
.png		7680 x 4320

## Supported External Connected Device Formats

Device	Support Size (Max. Size)	NTFS Format		FAT32 Format		exFAT	
		Read	Write	Read	Write	Read	Write
USB Memory Stick	256 GB	V	N/A	V	V	N/A	N/A
USB HDD	2 TB	V	N/A	V	V	N/A	N/A

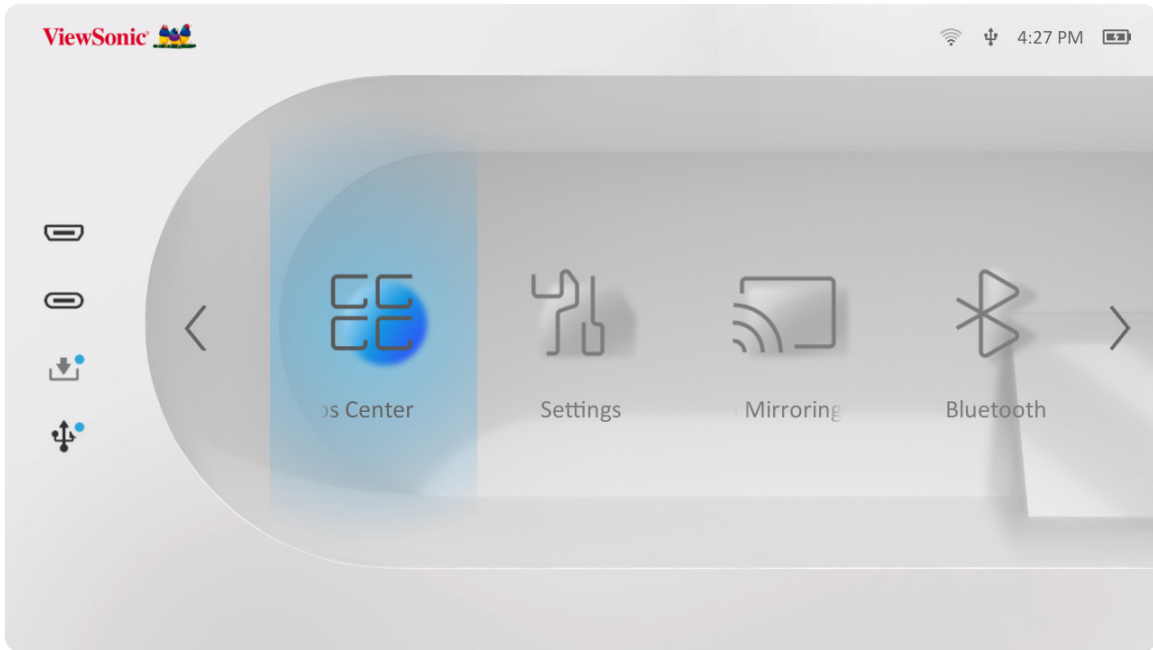
### NOTE:

- Windows 10 built-in format tool only supports FAT32 format up to 32 GB.
- Firmware upgrade only supports FAT32 format.

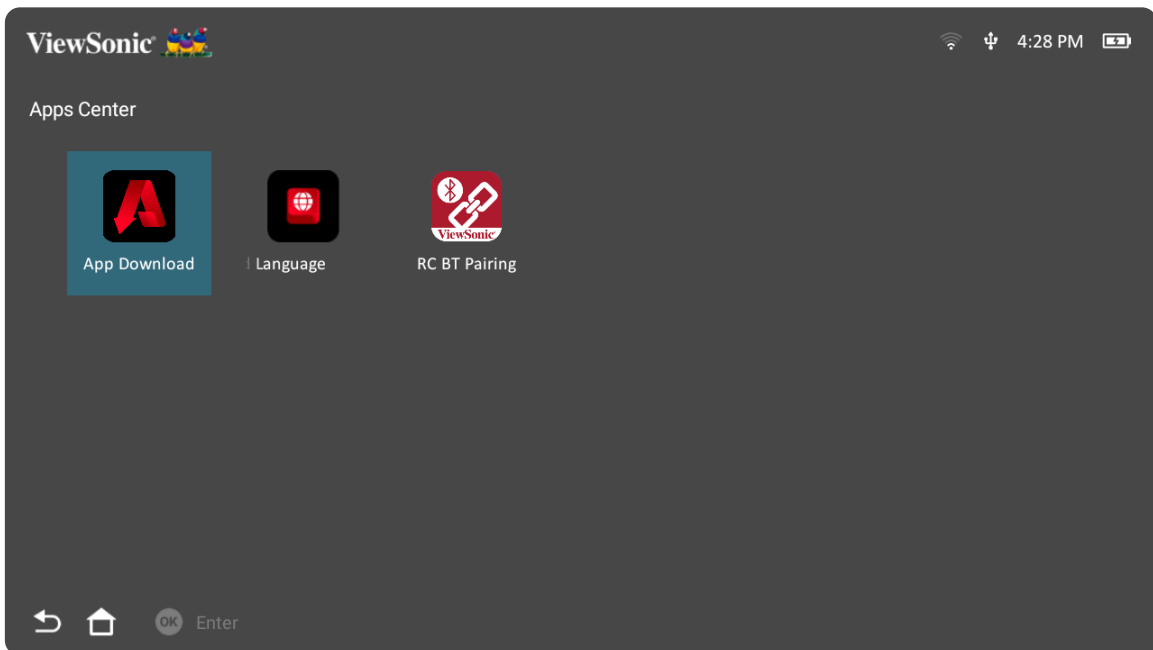
## Apps Center

View, launch, and uninstall Apps.

1. To view your Apps, select: **Home** > **Apps Center**.



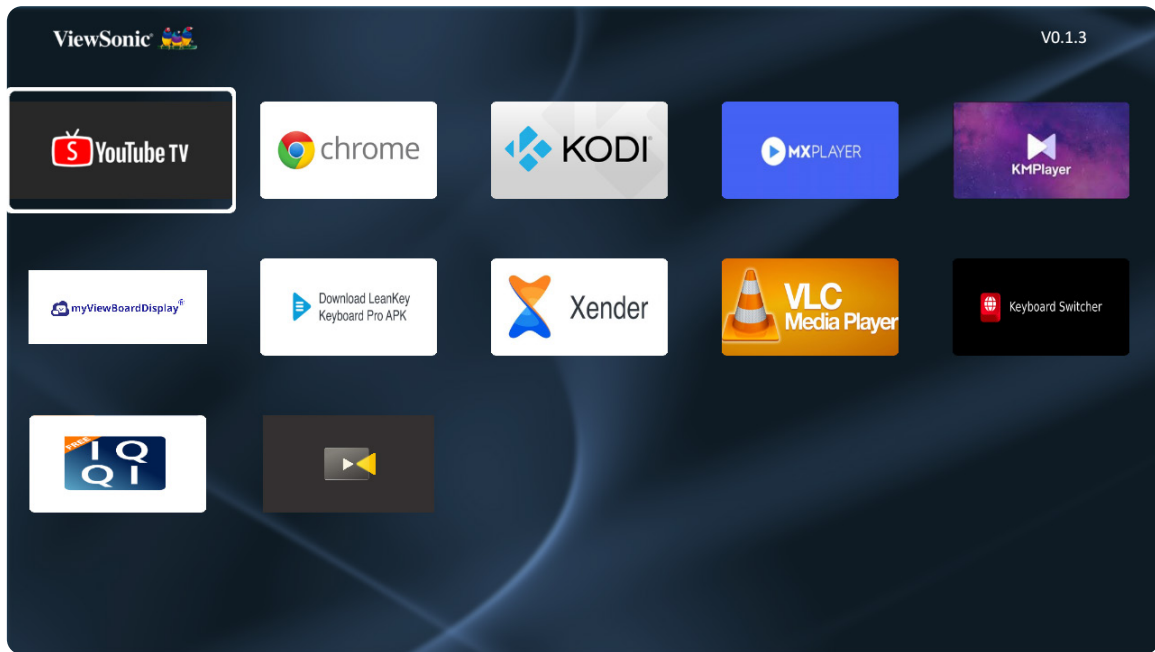
2. Use the direction buttons to select the desired App. Then press **OK** on the remote control to launch the App.



**NOTE:** Press the **Home** button on the remote control to return to the **Home Screen** at anytime.

## ViewSonic App Download

Use the direction buttons to navigate the menu options. When you find the preferred App, press the **OK** button on the remote control to install the App.

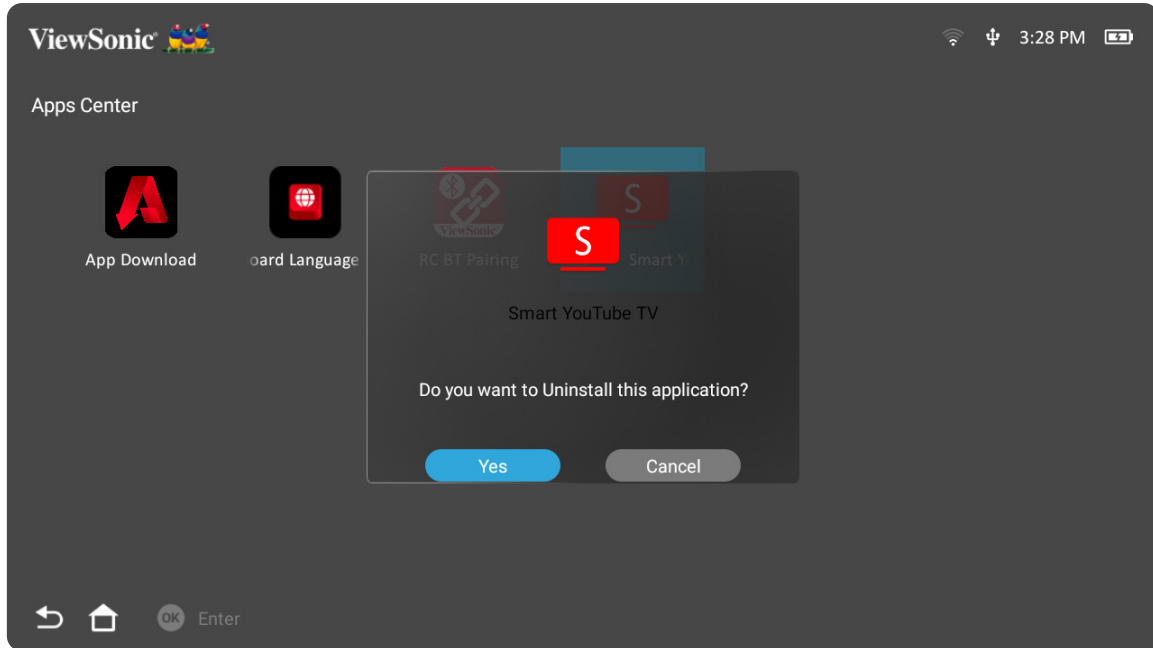


### NOTE:

- Users can install third-party Apps by .apk file in **File Management**. However, some third-party Apps may have compatibility issues.
- Apps not pre-loaded by ViewSonic may not be compatible or work properly.
- Some Apps may require a Keyboard and Mouse.
- Some Apps may be Region-Specific.

## To Uninstall Apps

1. Open the **Apps Center** by selecting: **Home > Apps Center**.
2. Use the directional buttons to select the desired App.
3. Press and hold **OK** on the remote control for three (3) seconds. The below dialogue box will appear:

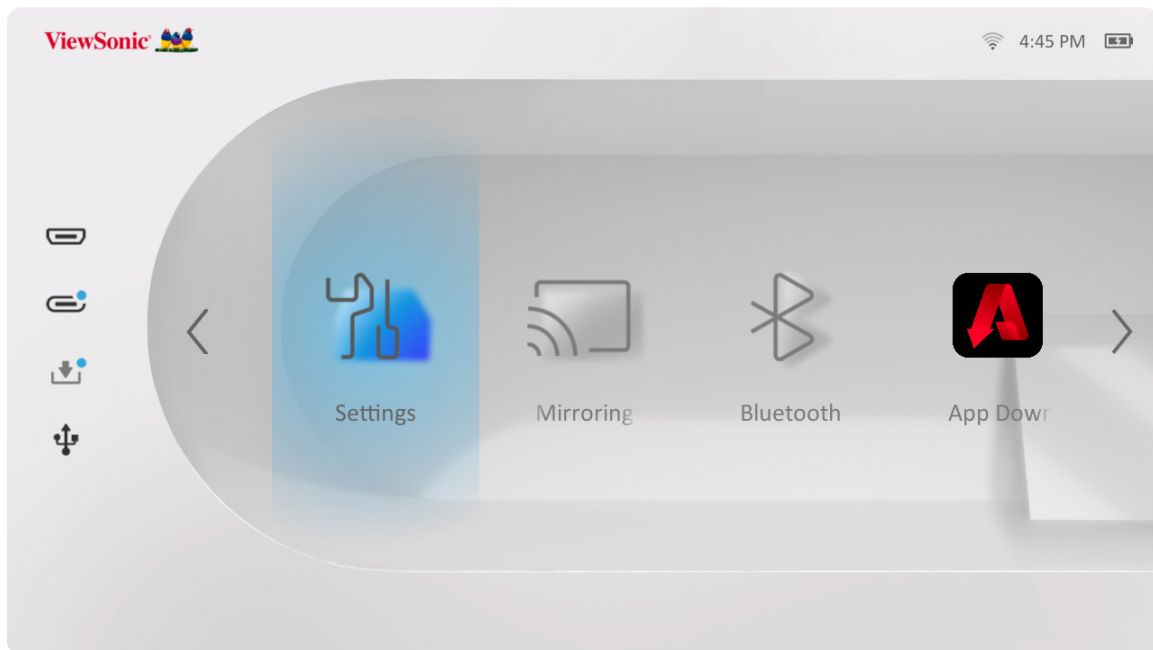


4. Select **Yes** to uninstall the App.

**NOTE:** Press the **Home** button on the remote control to return to the **Home Screen** at anytime.

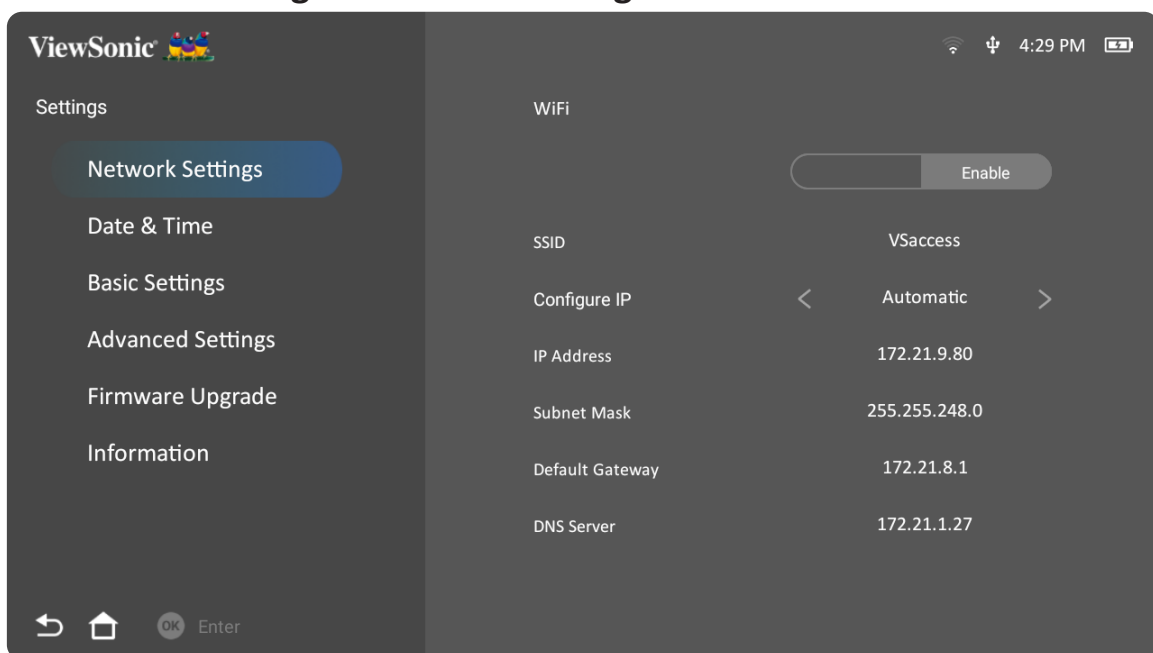
## Settings

Under **Settings** you can adjust Network, Basic, and Advanced Settings, Date & Time, Firmware Update, and view Information.

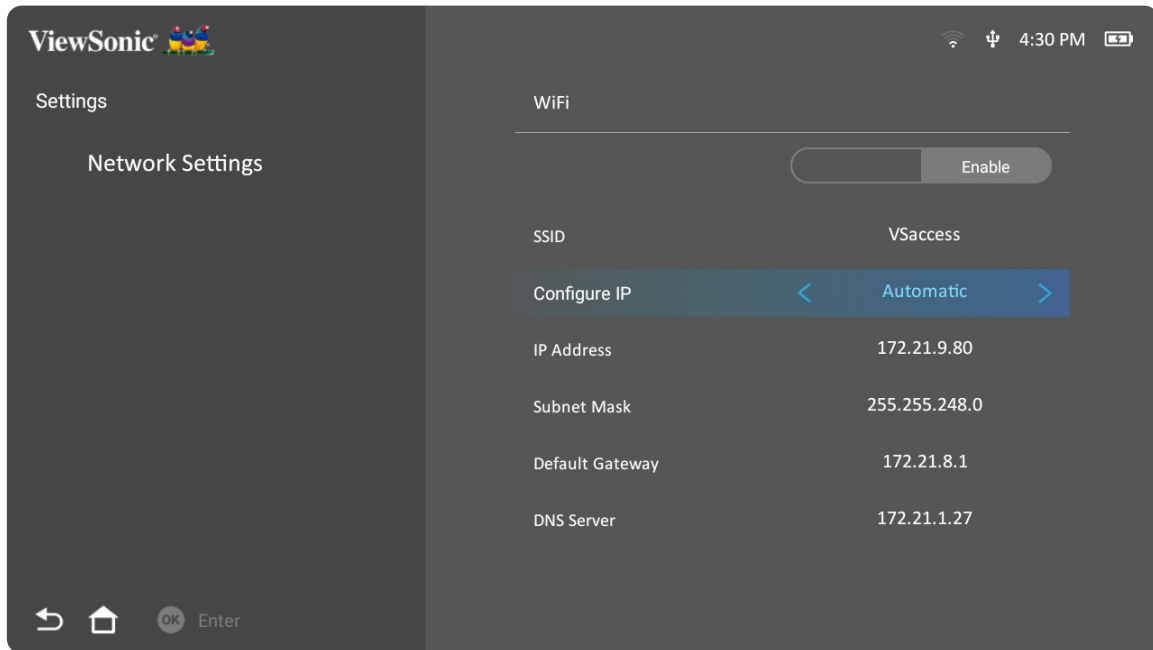


## Network Settings

1. Select: **Home > Settings > Network Settings.**



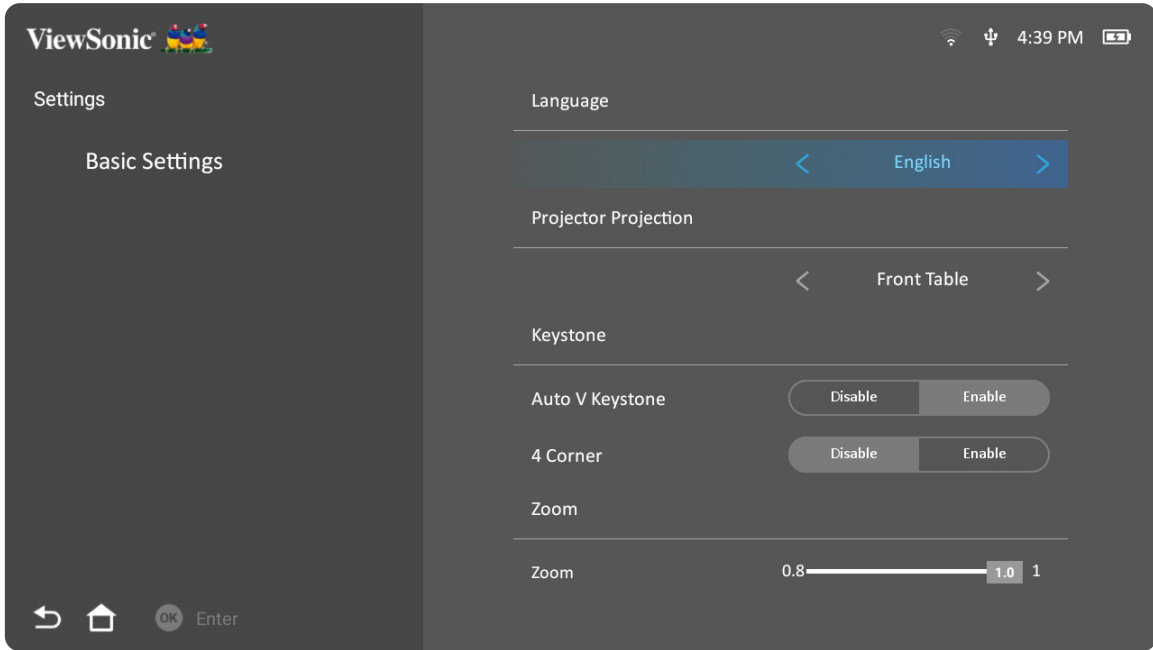
## 2. View and adjust your Wi-Fi and network settings.



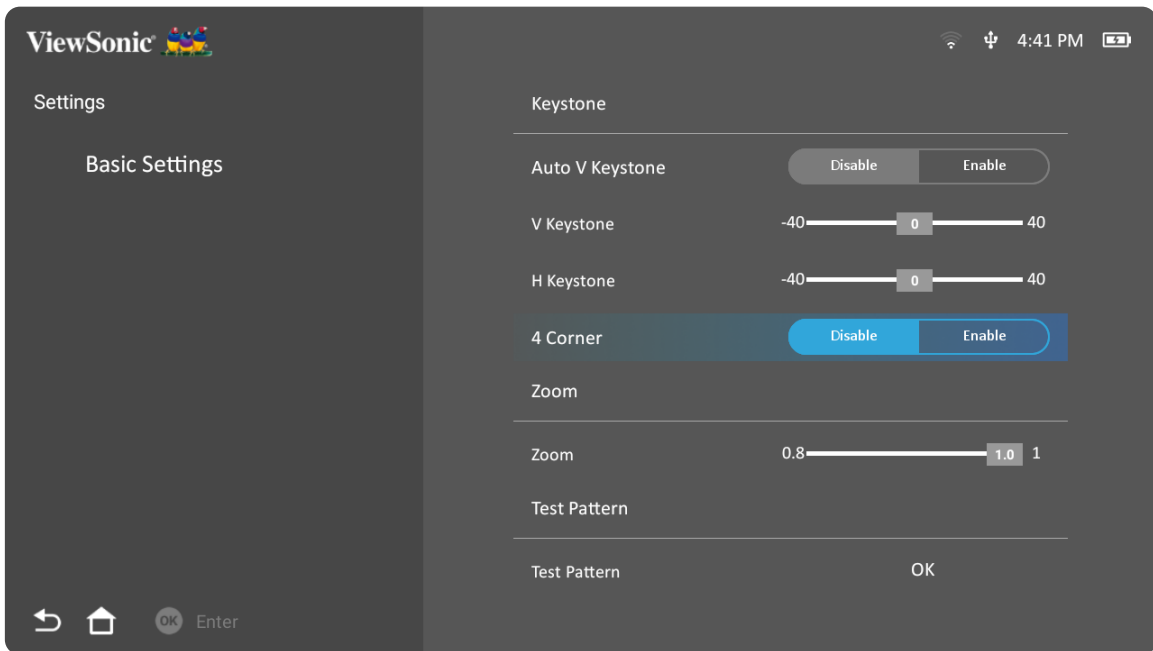
## 3. To setup a Wireless connection, see “Connecting to Networks” on page 21.

## Basic Settings

1. Select: **Home > Settings > Basic Settings.**



2. Use the **Up** and **Down** buttons to select the desired option and press **OK**. Then use the **Left** and **Right** buttons to make adjustments or selections.



3. To return to a previous menu press the **Return** button.

Menu	Description
Language	Select your desired language.
Projector Position	Select the preferred projection position.



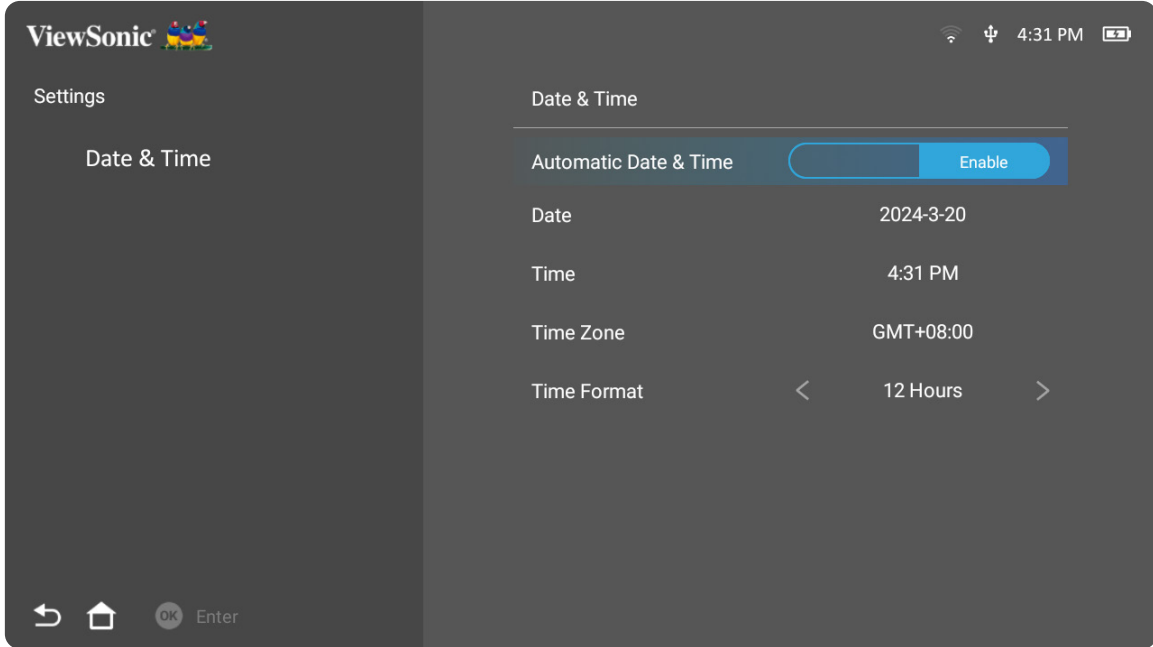
Menu	Description
<p style="text-align: center;"><b>Keystone</b></p>	<p>Adjust trapezoidal screen image distortion.</p> <p><b><u>Auto V Keystone</u></b>  Provides a rectangular screen image by automatically adjusting the keystone number when there is a trapezoidal screen image caused by the tilting of the projector.</p> <p><b>Enable:</b> Automatically adjust the keystone number.  <b>Disable:</b> Manually adjust the keystone number.</p> <p><b><u>V Keystone</u></b>  Keystone can be adjusted vertically manually.</p> <p><b><u>H Keystone</u></b>  Keystone can be adjusted horizontally manually.</p> <p><b><u>4 Corner</u></b>  Enable or disable 4 Corner Adjustment.</p> <p><b><u>4 Corner Adjustment</u></b>  Adjust each corner individually for maximum projection flexibility.</p>
<p style="text-align: center;"><b>Zoom</b></p>	<p>Adjust the digital zoom setting.</p>
<p style="text-align: center;"><b>Test Pattern</b></p>	<p>Test the color presentation of the projector and/or adjust the focus of the projected image.</p>

## Date & Time

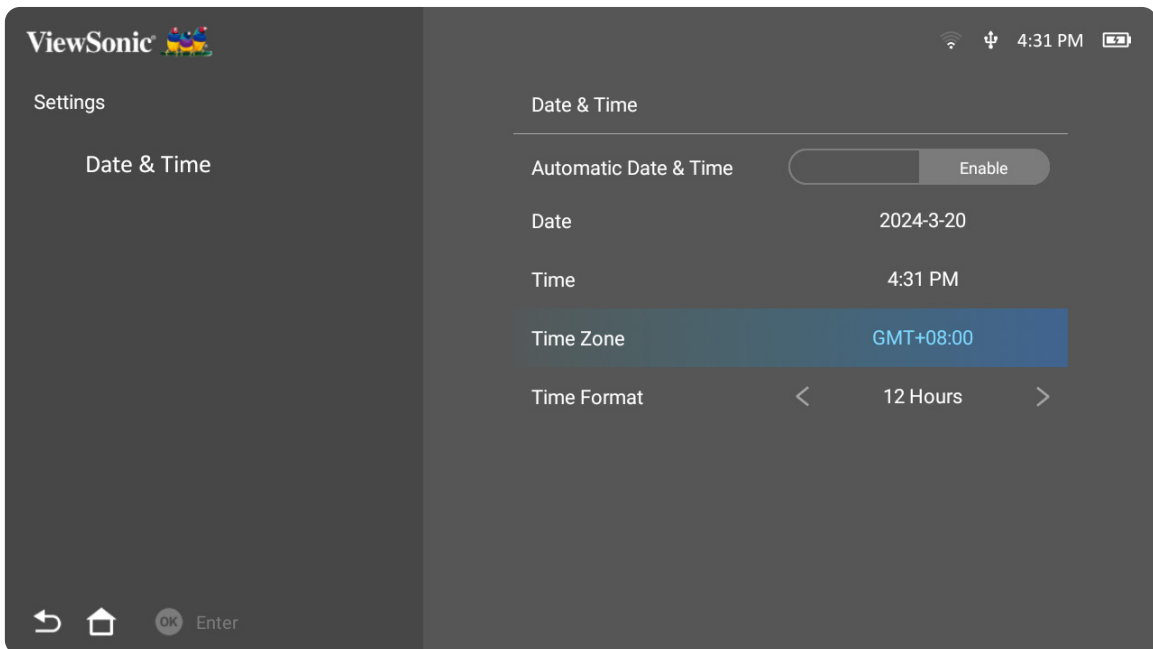
Adjust Date, Time, Time Zone, and Time Format.

**NOTE:** The time is displayed in the top-right corner after connecting to the Internet.

1. Select: **Home > Settings > Date & Time.**



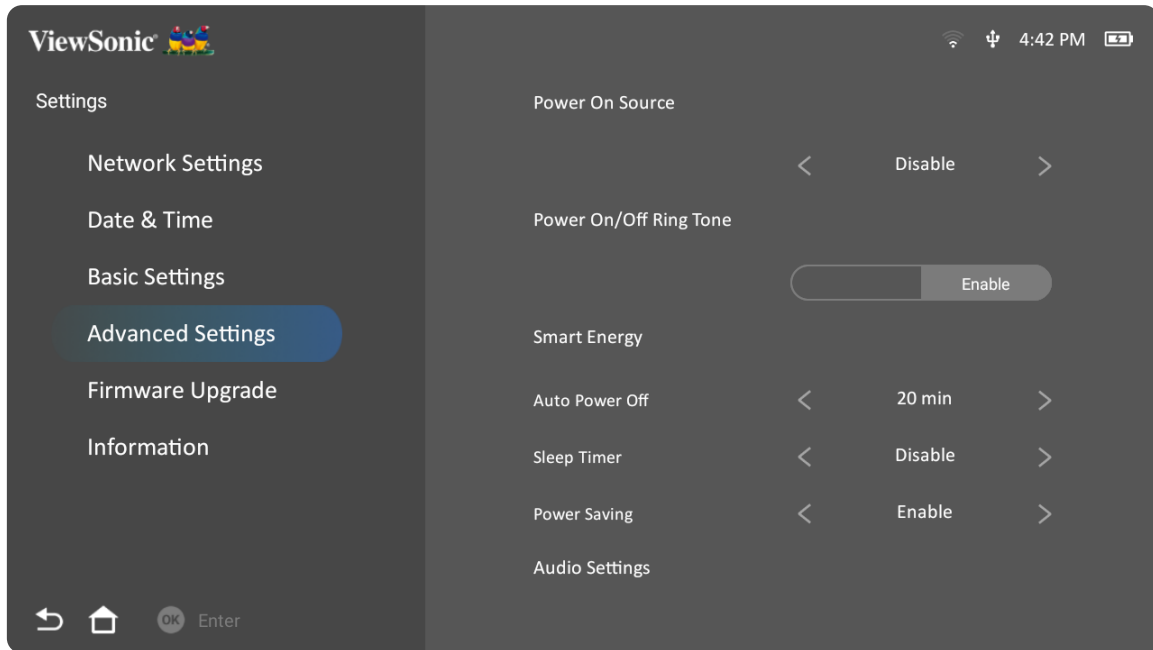
2. Use the **Up** and **Down** buttons to select the desired option and press **OK**. Then use the **Left** and **Right** buttons to make adjustments or selections.



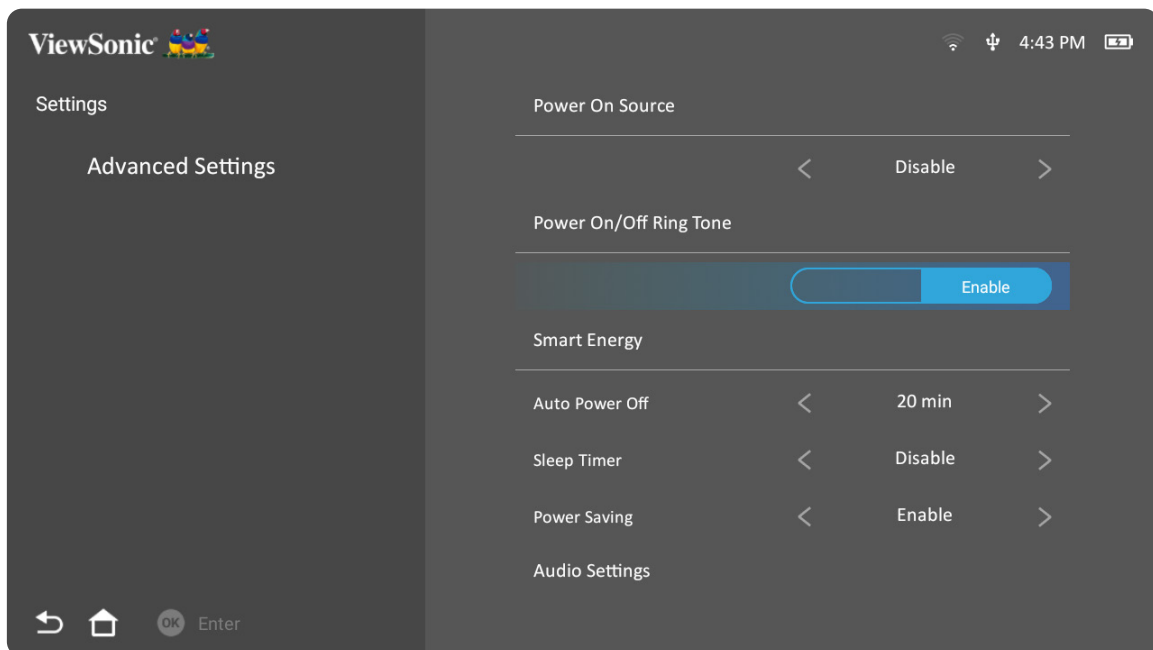
Menu	Description
<b>Automatic Date &amp; Time</b>	Synchronize the date and time automatically after connecting to the Internet. <u><b>Enable</b></u> Turn on synchronization. <u><b>Disable</b></u> Turn off synchronization.
<b>Date</b>	Adjust the date automatically when connected to a network.
<b>Time</b>	Adjust the time automatically when connected to a network.
<b>Time Zone</b>	Select your desired location.
<b>Time Format</b>	Select a different display time format. <u><b>12 Hours</b></u> 12-hour clock. <u><b>24 Hours</b></u> 24-hour clock.

## Advanced Settings

1. Select: **Home > Settings > Advanced Settings.**



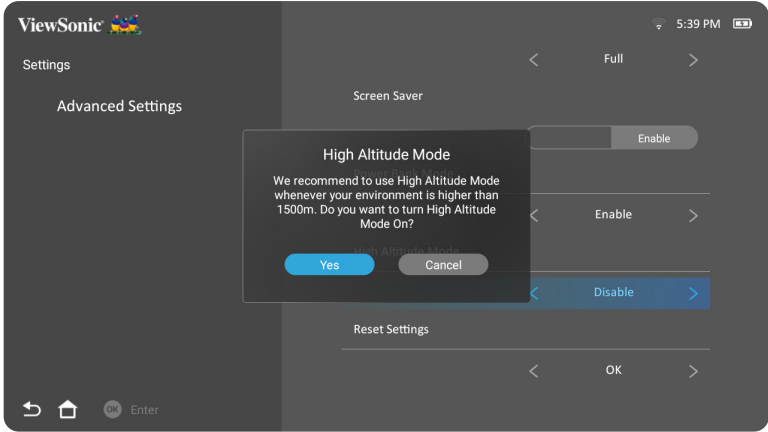
2. Use the **Up** and **Down** buttons to select the desired option and press **OK**. Then use the **Left** and **Right** buttons to make adjustments or selections.



3. To return to a previous menu press the **Return** button.

Menu	Description
Power On Source	Enter the desired input source directly after turning on the projector.
Power On Ring Tone	Enable or disable the power on ring tone.

Menu	Description
<p><b>Smart Energy</b></p>	<p><b><u>Auto Power Off</u></b> The projector can turn off automatically after a set period of time once no input source is detected.</p> <p><b><u>Sleep Timer</u></b> Turn off automatically after a set period of time.</p> <p><b><u>Power Saving</u></b> Lower power consumption if no input source is detected after five minutes.</p> <p><b>NOTE:</b> The power consumption of the LED will be changed to 30% after no signal is detected for five minutes.</p>
<p><b>Audio Settings</b></p>	<p><b><u>Audio Mode</u></b> <b>Movie:</b> Default audio mode. <b>Music:</b> Optimized for music playback.</p> <p><b><u>Audio Volume</u></b> Adjust the volume from 0 to 50.</p> <p><b><u>Mute</u></b> Mute or unmute the volume.</p>
<p><b>Light Source Level</b></p>	<p>Select the suitable power consumption of the LED.</p>
<p><b>Screen Saver</b></p>	<p>On the homepage and folder pages, if there is no action within five minutes, the screen saver and time display will be activated.</p>
<p><b>Power Bank Mode</b></p>	<p>Enable or disable to turn on or charge the projector.</p> <p><b>NOTE:</b> The power bank should be at least 45W (15V/3A) and support Power Delivery (PD) protocol output.</p>

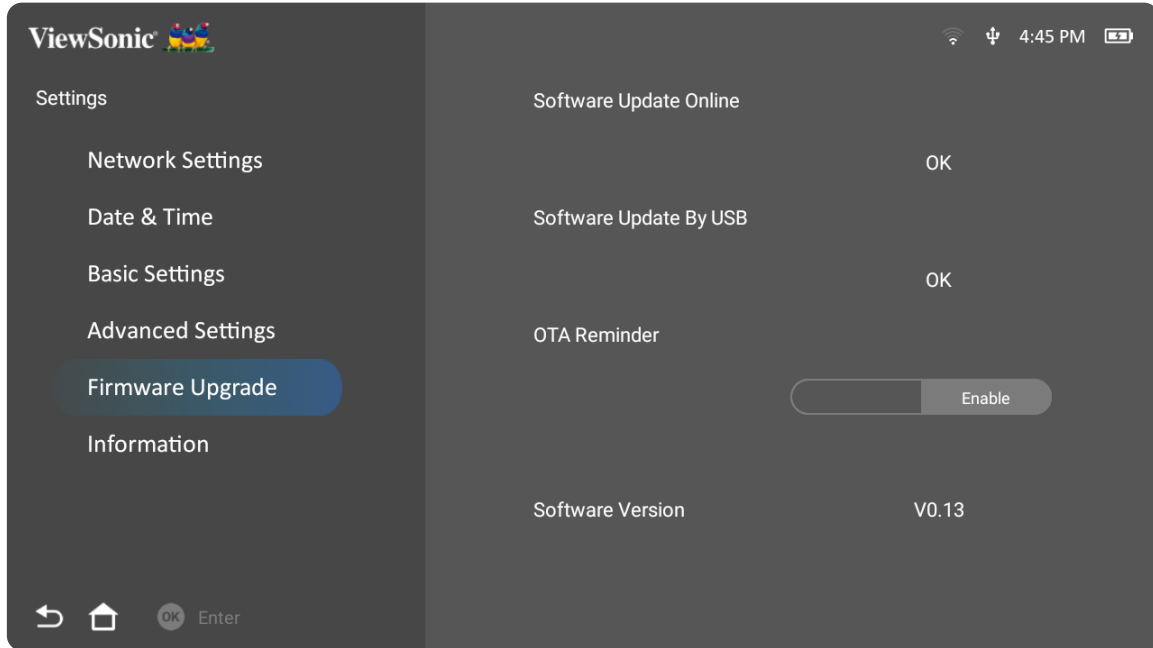
Menu	Description
<p><b>High Altitude Mode</b></p>	<p>It is recommended that you use High Altitude Mode when your environment is between 1,500~3,000 m above sea level, and a temperature between 5°C~25°C.</p>  <p><b>NOTE:</b> If you use this projector under other extreme conditions excluding the above, it may display auto shut-down symptoms, which is designed to protect your projector from over-heating. In cases like this, you should switch to High Altitude Mode to solve these symptoms. However, this is not to state that this projector can operate under any and all harsh or extreme conditions.</p>
<p><b>Reset Settings</b></p>	<p>Reset the <b>Settings</b> to default.</p> <p><b>NOTE:</b> Language, High Altitude Mode, Projector Position, Network Settings, All installed Apps in the Apps Center, Add App, Bluetooth, Keystone, 4 Corner Adjustment, and Light Source Hours will remain unchanged.</p>
<p><b>Reset to Factory Default</b></p>	<p>Restore all settings to their default values.</p> <p><b>NOTE:</b> Light Source Hours will remain unchanged.</p>

## Firmware Upgrade

Users can update the firmware by internet or USB, and check the version number.

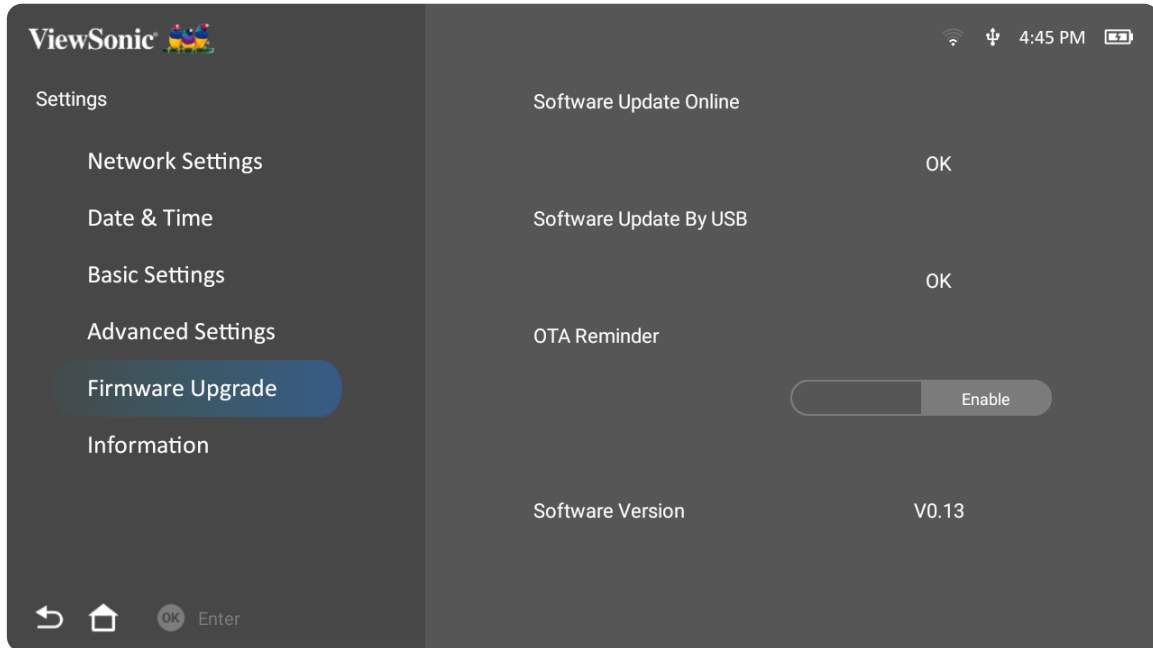
**NOTE:** Do not unplug the power cord, USB, or disconnect from the Internet during the upgrading process.

1. Before entering the **Firmware Upgrade** menu, ensure the projector is connected to the Internet.
2. To enter the menu, select: **Home > Settings > Firmware Upgrade**.



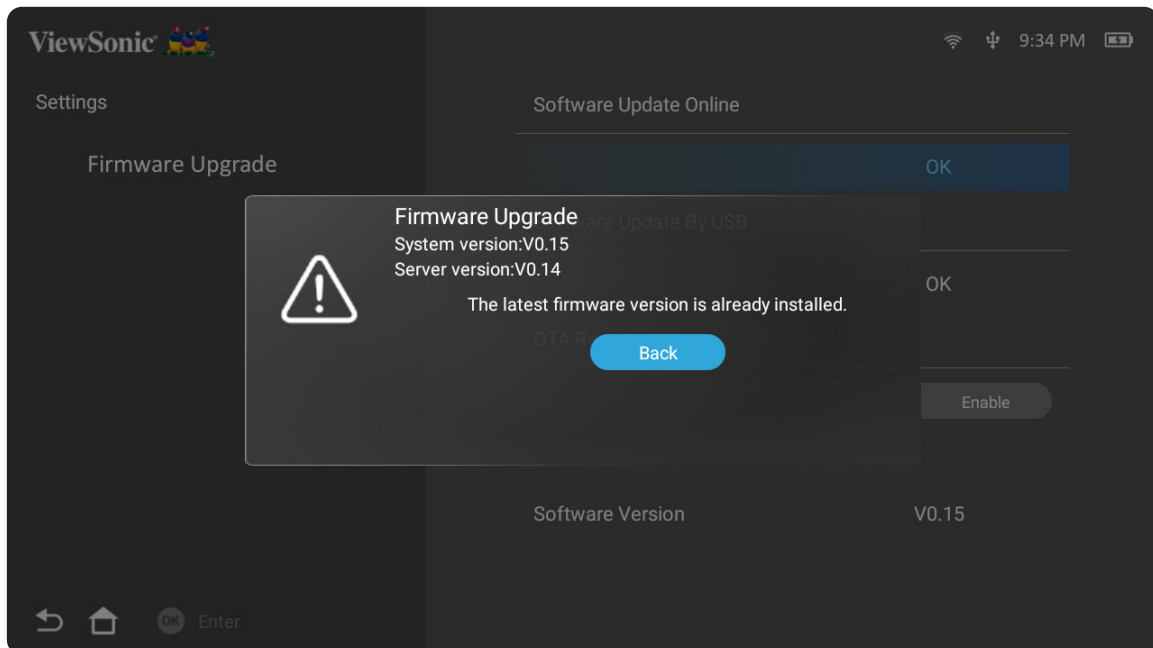
## Firmware Update Online

1. Go to: **Home > Settings > Firmware Upgrade > Software Update Online.**



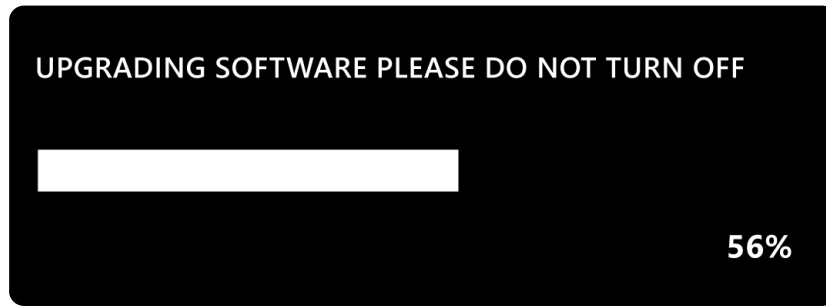
2. Select **Enter** by pressing **OK** on the remote control.

3. The system will check the ViewSonic website (OTA) and display the below dialog message if there is new Firmware.





4. After selecting **Yes**, a progress bar will appear as the update process begins.



5. After reaching 100% the projector will restart and the screen will turn to black for a few minutes. The whole process will take about 10 minutes.

6. After updating the Firmware, it will take a few minutes to restart the projector.

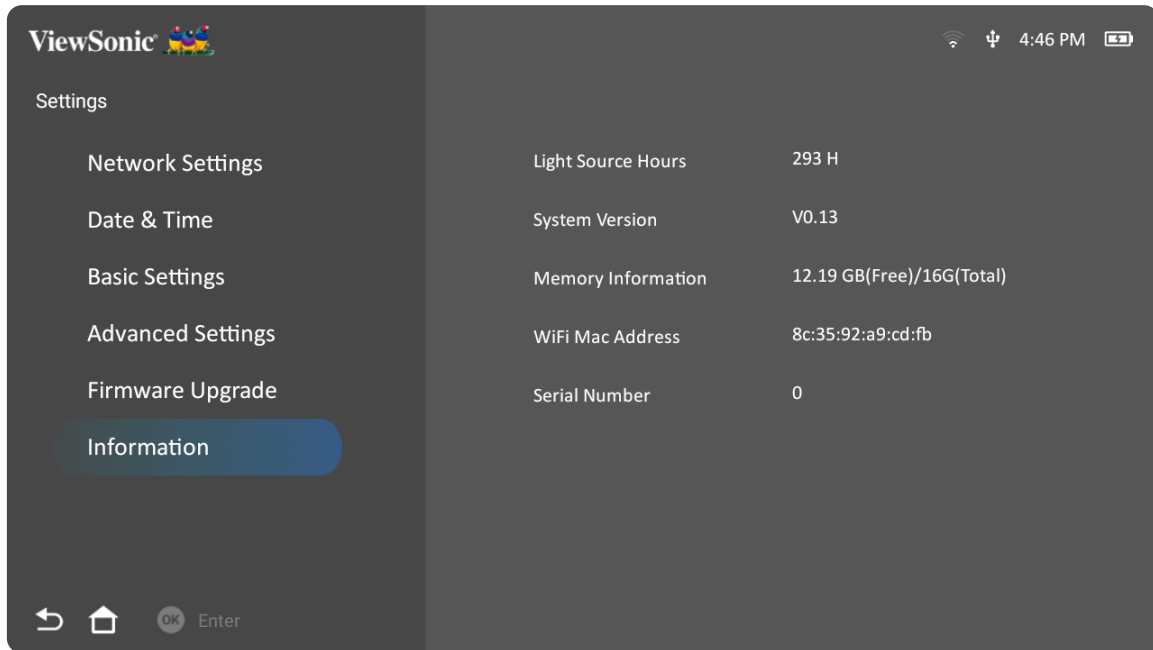
## Firmware Update by USB with FAT32 Format

**NOTE:** NTFS format, read only.

1. Download the latest version from the ViewSonic website and copy the file to a USB device.
2. Plug the USB into the projector, then go to: **Home > Settings > Firmware Upgrade > Software Update By USB.**
3. Select **Enter** by pressing **OK** on the remote control.
4. The system will detect the Firmware version and display the above dialog message.
5. After selecting **Yes**, a progress bar will appear as the update process begins.
6. After reaching 100% the projector will restart and the screen will turn black for a few minutes. The whole process will take about 10 minutes.
7. After updating the Firmware, it will take a few minutes to restart the projector.

## Information

1. Select: **Home** > **Settings** > **Information**.



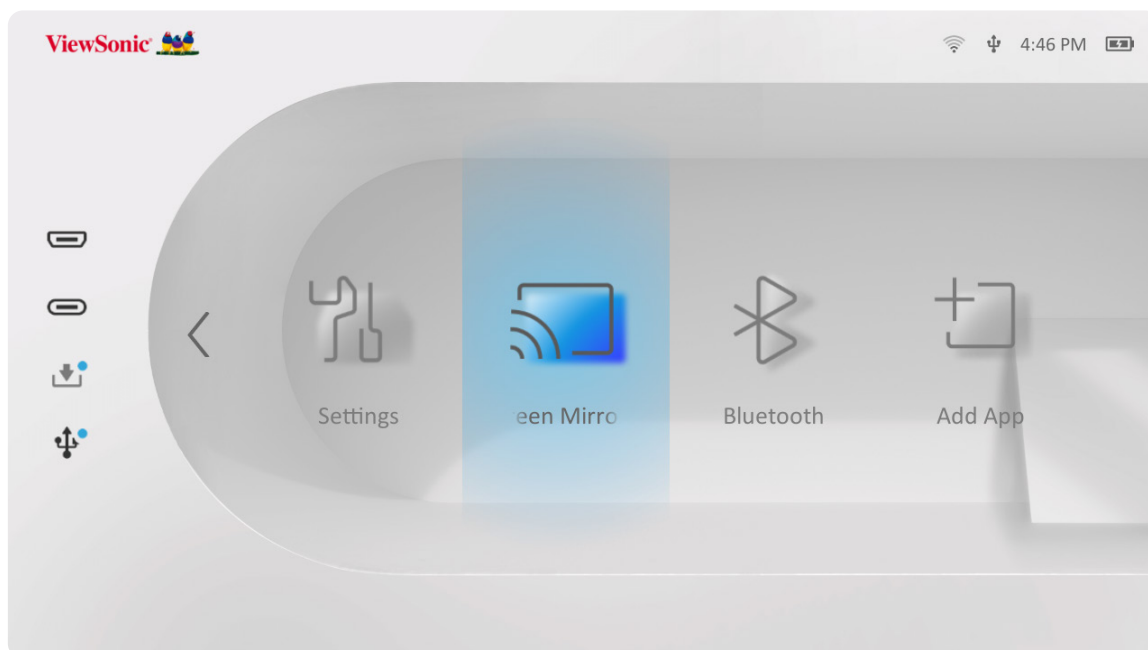
2. View system status and information.

**NOTE:** Press the **Home** button on the remote control to return to the **Home Screen** at anytime.

## Screen Mirroring

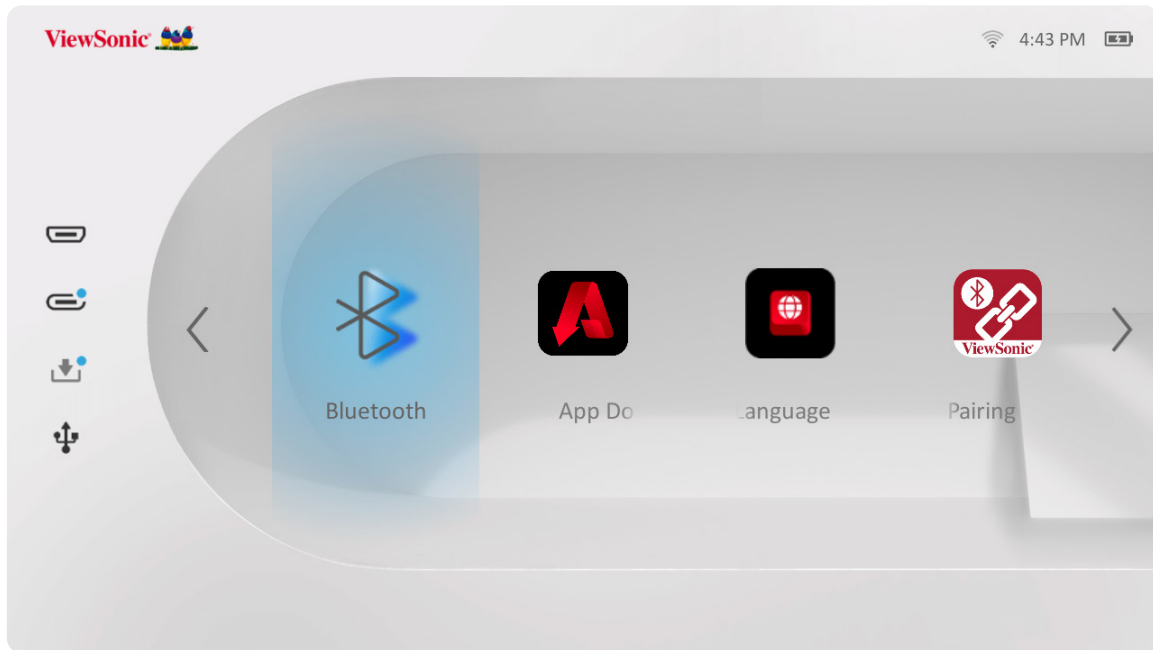
Mirror your personal device's screen. To setup wireless Screen Mirroring, see "Wireless Screen Mirroring" on page 25.

**NOTE:** Ensure your device is connected to the same network as the projector.



## Bluetooth

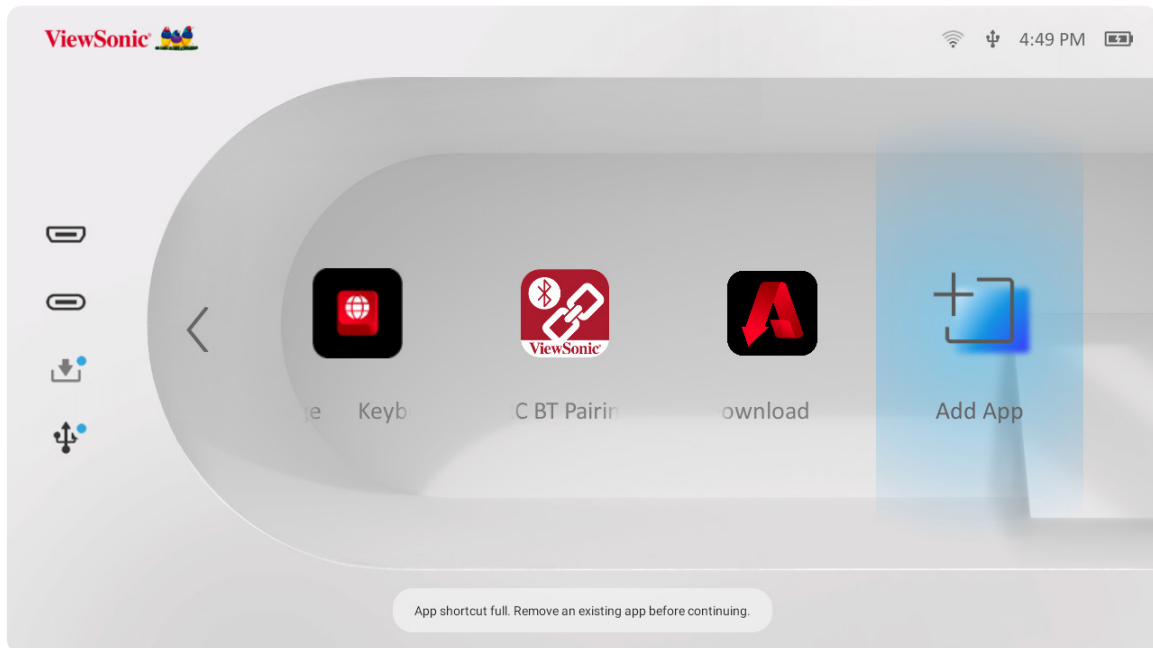
The projector is equipped with Bluetooth that allows the user to connect their device wirelessly for audio playback. For more information, see page 18.



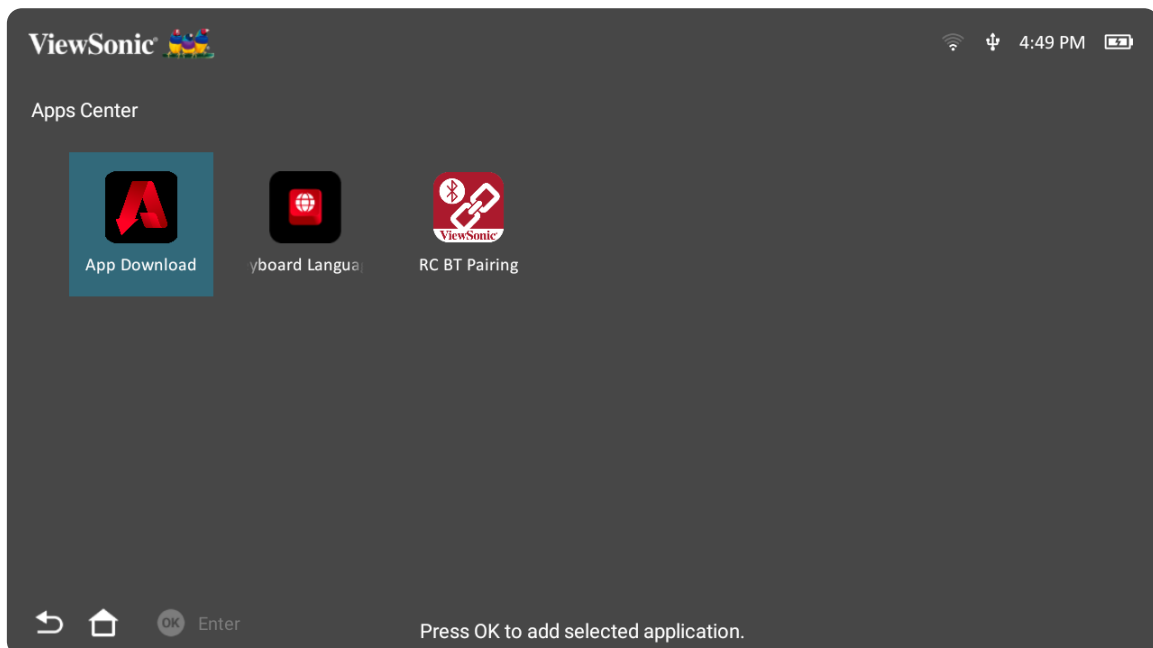
## Adding Apps

Add your favorite Apps to the **Home Screen**.

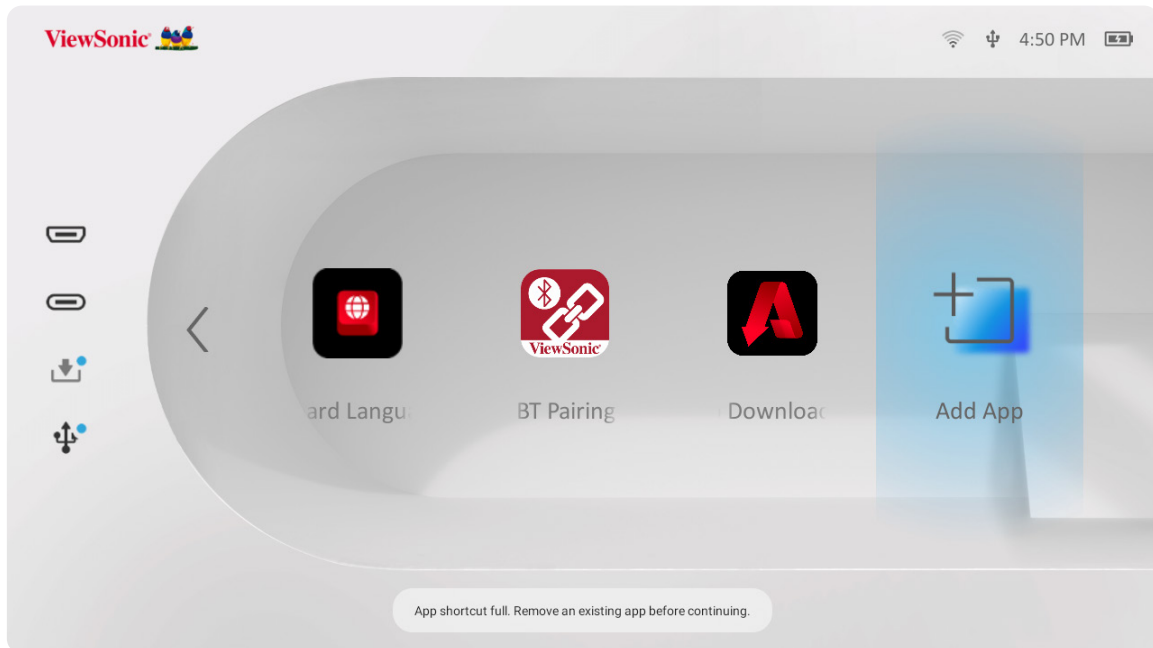
1. From the **Home Screen**, select **Add App** and then press **OK** on the remote control.



2. Use the directional buttons to select the desired App and press **OK**.

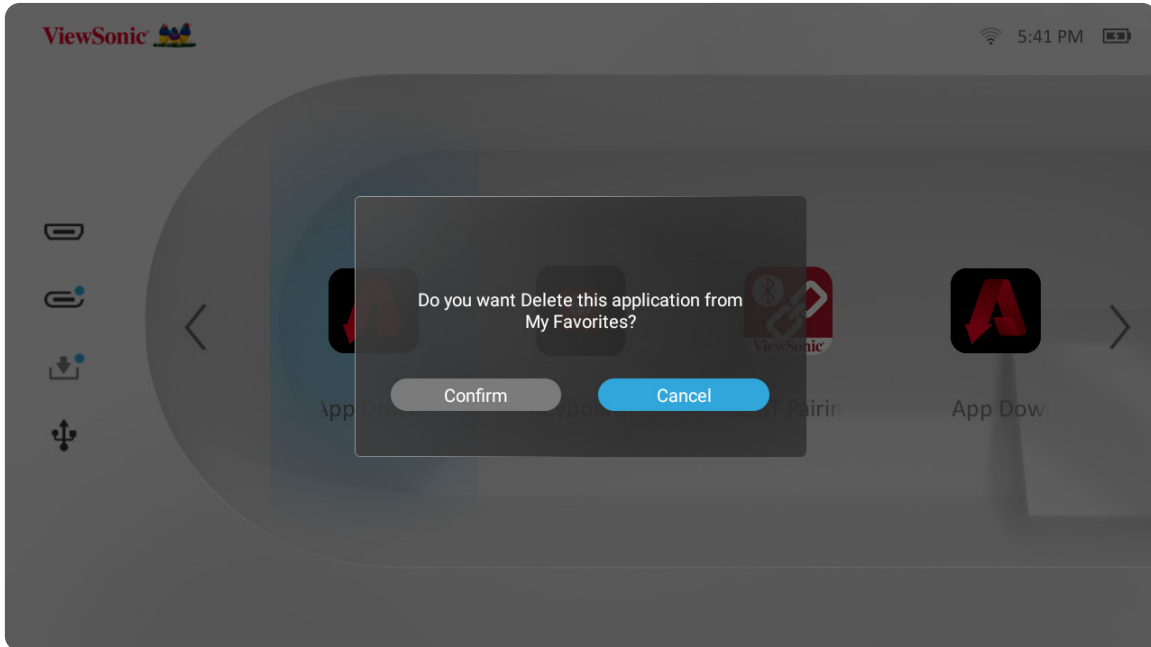


### 3. Now your favorite App will appear on the Home Screen.



## Delete Apps From the Home Screen

1. From the **Home Screen**, select the App you want to delete and press and hold **OK** for three (3) seconds.
2. The message, “Do you want Delete this application from My Favorites?” will appear.



3. Select **Confirm**, and press **OK** to delete the App.



# Appendix

## Specifications

Item	Category	Specifications
Projector	Type	0.2" WVGA, LED
	Display Size	24"~100"
	Throw Distance	0.64~2.66 m (38" @ 1 m)
	Lens	F=1.7, f=5.5 mm
	Optical Zoom	Fixed
	Digital Zoom	0.8x~1.0x
	Light Source Type	RGB LED
	Light Source Life (Normal)	up to 60,000 hours
	Display Color	1.07 Billion Colors
	Keystone	-/+ 40 (Vertical)
	Battery Capacity	11,790 mAh (3,930 mAh 3.7V x 3)
Input Signal	HDMI	$f_h$ : 15K~102 kHz, $f_v$ : 23~120 Hz,
Resolution	Native	854 x 480
	Support	VGA (640 x 480) to Full HD (1920 x 1080)
Input	HDMI	1 x (HDMI 1.4, HDCP 1.4)
	Audio In	Bluetooth 4.2
	USB Type A	1 x (USB 2.0 Reader)
	USB Type C	1 x (Video out - 5V/1.5A)
	Wi-Fi	1 x (5G)
Output	Speaker	2 x 3W Cube
	USB Type A (Power)	1 x (USB 2.0, 5V/1A; share with USB reader)
	Audio Out (Bluetooth)	Bluetooth 4.2
	Audio Out (3.5 mm)	1
Power Adapter	Input Voltage	AC 100-240V, 50/60 Hz (auto switch)
	Output Voltage	DC 19V/3.26A
Local Storage		Total: 16 GB
		Available: 12 GB
Operating Conditions	Relative Humidity	0% to 90% (non-condensing)
	Temperature	0°C to 35°C
		32°F to 95°F
Dimensions	Physical (W x H x D)	166 x 138 x 54 mm (6.54" x 5.43" x 2.13")
Weight	Physical	0.8 kg
		1.76 lbs
Power Consumption	On	45W (Typical)
	Off	< 0.5W (Standby)

# Timing Chart

## HDMI/USB C Video Timing

<b>Timing</b>	<b>Resolution</b>	<b>Horizontal Frequency (kHz)</b>	<b>Vertical Frequency (Hz)</b>	<b>Dot Clock Frequency (MHz)</b>
<b>480i</b>	720(1440) x 480	15.73	59.94	27
<b>480p</b>	720 x 480	31.47	59.94	27
<b>576i</b>	720(1440) x 576	15.63	50	27
<b>576p</b>	720 x 576	31.25	50	27
<b>720/50p</b>	1280 x 720	37.5	50	74.25
<b>720/60p</b>	1280 x 720	45	60	74.25
<b>1080/24P</b>	1920 x 1080	27	24	74.25
<b>1080/25P</b>	1920 x 1080	28.13	25	74.25
<b>1080/30P</b>	1920 x 1080	33.75	30	74.25
<b>1080/50i</b>	1920 x 1080	28.13	50	74.25
<b>1080/60i</b>	1920 x 1080	33.75	60	74.25
<b>1080/50P</b>	1920 x 1080	56.25	50	148.5
<b>1080/60P</b>	1920 x 1080	67.5	60	148.5

## HDMI/USB C Support PC Timing

<b>Resolution</b>	<b>Refresh Rate (Hz)</b>	<b>Horizontal Frequency (kHz)</b>	<b>Dot Clock Frequency (MHz)</b>
<b>640 x 480</b>	59.94	31.469	25.175
	72.809	37.861	31.5
	75	37.5	31.5
<b>720 x 400</b>	70.087	31.469	28.3221
<b>800 x 600</b>	56.250	35.156	36
	60.317	37.879	40
	72.188	48.077	50
	75	46.875	49.5
<b>1024 x 768</b>	60.004	48.363	65
	70.069	56.476	75
	75.029	60.023	78.75
<b>1152 x 864</b>	75	67.5	108
<b>1280 x 720</b>	50	37.5	74.25
	60	45.00	74.25
<b>1280 x 768</b>	59.87	47.776	79.5
	74.893	60.289	102.25
<b>1280 x 800</b>	59.81	49.702	83.5
	74.934	62.795	106.5
<b>1280 x 960</b>	60	60	108
<b>1280 x 1024</b>	60.02	63.981	108
	75.025	79.976	135
<b>1360 x 768</b>	60.015	47.712	85.5
<b>1400 x 1050</b>	59.978	65.317	121.75
<b>1440 x 900</b>	59.887	55.935	106.5
	60	55.469	88.75
	74.984	70.635	136.75
<b>1600 x 1200</b>	60	75	162
<b>1680 x 1050</b>	59.883	64.674	119.000
	59.954	65.29	146.25
<b>1920 x 1080</b>	60	67.5	148.5

## 3D Support Timing

HDMI 3D (BlueRay 3D with info frame)				
Signal	Resolution (dots)	Aspect Ratio	Refresh Rate (Hz)	Support
Frame Packing				
1080p	1920 x 1080	16:9	23.98/24	Yes
720p	1280 x 720	16:9	50/59.94/60	Yes
Side by Side				
1080i	1920 x 1080	16:9	50/59.94/60	Yes
Top and Bottom				
1080p	1920 x 1080	16:9	23.98/24	Yes
720p	1280 x 720	16:9	50/59.94/60	Yes

3D (HDMI/USB C) Manual Setting				
Signal	Resolution (dots)	Aspect Ratio	Refresh Rate (Hz)	Support
SVGA	800 x 600	4:3	60*	Yes
XGA	1024 x 768	4:3	60*	Yes
HD	1280 x 720	16:9	60*	Yes
WXGA	1280 x 800	16:9	60*	Yes
HDTV (1080p)	1920 x 1080	16:9	60	Yes
<b>NOTE:</b>				
* 60Hz signals are supported for side by side, top and bottom, and frame sequential.				

## LED Indicators

<b>Light</b>	<b>Description</b>
<b>Green</b>	Power On
<b>Red</b>	Stand-by Mode
<b>Flashing White</b>	Projector Charging
<b>Solid White</b>	Battery is Fully Charged

# Troubleshooting

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

Problem or Issue	Possible Solutions
The projector does not turn on	<ul style="list-style-type: none"> <li>• Ensure the power cord is properly attached to the projector and to the power outlet.</li> <li>• If the cooling process has not completed, please wait until it has finished then try to turn on the projector again.</li> <li>• If the above does not work, try another power outlet or another electrical device with the same power outlet.</li> <li>• Check that the battery has remaining power<sup>1</sup>, or connect the power adaptor.</li> <li>• When the projector is at low battery, it may automatically turn off and on repeatedly. Please switch the projector off and charge the battery for at least 30 minutes.</li> </ul>
There is no picture	<ul style="list-style-type: none"> <li>• Ensure the video source cable is connected properly, and that the video source is turned on.</li> <li>• If the input source is not selected automatically, select the correct source with the Source key on either the projector or the remote control.</li> </ul>
The image is blurred	<ul style="list-style-type: none"> <li>• Adjusting the Focus Ring will help correctly focus the projection lens.</li> <li>• Ensure the projector and screen are aligned properly. If necessary, adjust the height of the projector as well as the projection angle and direction.</li> </ul>
The remote control does not work	<ul style="list-style-type: none"> <li>• Ensure there are no obstacles between the remote control and projector; and that they are within 8 m (26 ft) of each other.</li> <li>• The batteries may be out of power, please check and replace if necessary.</li> </ul>
The projector/system is frozen and will not respond	<ul style="list-style-type: none"> <li>• Please toggle the <b>Power Switch</b> off/on to reset the device.</li> </ul>

1- The battery may need to be charged for 4.5 hours first if the device has not been used for a long time.

# Maintenance

## General Precautions

- Make sure the projector is turned off and the power cable is unplugged from the power outlet.
- Never remove any parts from the projector. Contact ViewSonic® or a reseller when any part of the projector needs replacing.
- Never spray or pour any liquid directly onto the case.
- Handle the projector with care, as a darker-colored projector, if scuffed, may show marks more clearly than a lighter-colored projector.

## Cleaning the Lens

- Use a canister of compressed air to remove dust.
- If the lens is still not clean, use lens-cleaning paper or moisten a soft cloth with lens cleaner and gently wipe the surface.

**CAUTION:** Never rub the lens with abrasive materials.

## Cleaning the Case

- Use a soft, lint-free, dry cloth to remove dirt or dust.
- 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.

**CAUTION:** Never use wax, alcohol, benzene, thinner, or other chemical detergents.

## Storing the Projector

If you intend to store the projector for an extended period of time:

- Ensure the temperature and humidity of the storage area are within the recommend range.
- Retract the adjuster foot completely.
- Remove the batteries from the remote control.
- Pack the projector in its original packaging or equivalent.

## Disclaimer

- ViewSonic® does not recommend the use of any ammonia or alcohol-based cleaners on the lens or case. Some chemical cleaners have been reported to damage the lens and/or case of the projector.
- 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.



## **FCC Radiation Exposure Statement**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## **Industry Canada Statement**

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

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

## **IC Warning Statement**

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

## **Country Code Statement**

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

Pour les produits disponibles aux États-Unis/Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas possible.

## IC Radiation Exposure Statement

This equipment complied with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. The device for the band 5150-5825 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20cm de distance entre la source de rayonnement et votre corps. Les dispositifs fonctionnant dans la bande 5150-5825 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage.

Operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

La bande 5150-5250 MHz est réservée uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

## CE Conformity for European Countries

**CE** The device complies with the EMC Directive 2014/30/EU and Low Voltage Directive 2014/35/EU. Ecodesign Directive 2009/125/EC and Radio Equipment Directive 2014/53/EU.

Frequency Range: 2400-2483.5MHz, 5150-5250MHz

Max Output Power: under 20dBm

### 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.



If the batteries, accumulators and button cells included with this equipment, display the chemical symbol Hg, Cd, or Pb, then it means that the battery has a heavy metal content of more than 0.0005% Mercury or more than 0.002% Cadmium, or more than 0.004% Lead.



## 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 <sup>+</sup> )	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%
Benzyl butyl 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:**

- 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.
- Lead in dielectric ceramic in capacitors for a rated voltage of 125V AC or 250V DC or higher.

## Battery Warning

- Battery:
  - » High or low extreme temperatures that a battery can be subjected to during use, storage or transportation; and low air pressure at high altitude.
  - » Replacement of a battery with an incorrect type that can defeat a safeguard (for example, in the case of some lithium battery types);
  - » Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion;
  - » Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas;
  - » A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

### Warning

- » The battery used in this device may present a risk of fire or chemical burn if removed or disassembled.
- » Follow the warning labels for your personal safety.
- » There is a risk of explosion if the battery is replaced by an incorrect type.
- » Do not dispose of in a fire.
- » Never attempt to short-circuit your LED projector's battery.
- » Discontinue usage if leakage is found.
- » The battery and its components must be recycled or disposed of properly.
- » Keep the battery and other small components away from children.

## 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/go-green-with-viewsonic>

### Europe:

<https://www.viewsonic.com/eu/environmental-social-governance/recycle>

### Taiwan:

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

**For EU users, please contact us for any safety/accident issue experienced with this product:**

ViewSonic Europe Limited



Haaksbergweg 75  
1101 BR Amsterdam  
Netherlands



+31 (0) 650608655



[EPREL@viewsoniceurope.com](mailto:EPREL@viewsoniceurope.com)



<https://www.viewsonic.com/eu/>

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ENERGY STAR® is a registered trademark of the U.S. Environmental Protection Agency (EPA).

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

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In the interest of continuing product improvement, ViewSonic® Corporation reserves the right to change product specifications without notice. Information in this document may change without notice.

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

## **Limited Warranty**

### ViewSonic® Projector

#### **What the warranty covers:**

ViewSonic® warrants its products to be free from defects in material and workmanship, under normal use, 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, repair or replace the product with a like product. Replacement product or parts may include remanufactured or refurbished parts or components.

#### **Limited Three (3) year General Warranty:**

Subject to the more limited one (1) year warranty set out below, North and South America: Three (3) years warranty for all parts excluding the lamp, three (3) years for labor, and one (1) year for the original lamp from the date of the first consumer purchase.

Other regions or countries: Please check with your local dealer or local ViewSonic® office for the warranty information.

#### **Limited One (1) year Heavy Usage Warranty:**

Under heavy usage settings, where a projector's use includes more than fourteen (14) hours average daily usage, North and South America: One (1) year warranty for all parts excluding the lamp, one (1) year for labor, and ninety (90) days for the original lamp from the date of the first consumer purchase; Europe: One (1) year warranty for all parts excluding the lamp, one (1) year for labor, and ninety (90) days for the original lamp from the date of the first consumer purchase. Other regions or countries: Please check with your local dealer or local ViewSonic® office for the warranty information. Lamp warranty subject to terms and conditions, verification and approval. Applies to manufacturer's installed lamp only. All accessory lamps purchased separately are warranted for 90 days.

#### **Who the warranty protects:**

This warranty is valid only for the first consumer purchaser.



## **What the warranty does not cover:**

1. Any product on which the serial number has been defaced, modified, or removed.
2. 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.
  - » Operation outside of product specifications.
  - » Operation of the product for other than the normal intended use or not under normal conditions.
  - » Repair or attempted repair by anyone not authorized by ViewSonic®.
  - » Any damage of the product due to shipment.
  - » Removal or installation of the product.
  - » Causes external to the product, such as electric power fluctuations or failure.
  - » Use of supplies or parts not meeting Viewsonic's specifications.
  - » Normal wear and tear.
  - » Any other cause which does not relate to a product defect.
3. Removal, installation, and set-up service charges.

## **How to get service:**

1. For information about receiving service under warranty, contact ViewSonic® Customer Support (Please refer to the "Customer Support" page). You will need to provide your product's serial number.
2. To obtain warranted 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.
3. Take or ship the product, freight prepaid, in the original container to an authorized ViewSonic® service center or ViewSonic®.
4. 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:

1. 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.
2. Any other damages, whether incidental, consequential or otherwise.
3. Any claim against the customer by any other party.

**Effect of state law:**

This warranty gives you specific legal rights, and you may also have other rights which vary from local authority. Some local governments 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".

# Mexico Limited Warranty

## ViewSonic® Projector

### What the warranty covers:

ViewSonic® warrants its products to be free from defects in material and workmanship, under normal use, 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, repair or replace the product with a like product. Replacement product or parts may include remanufactured or refurbished parts or components & accessories.

### How long the warranty is effective:

3 years for all parts excluding the lamp, 3 years for labor, 1 year for the original lamp from the date of the first consumer purchase.

Lamp warranty subject to terms and conditions, verification and approval. Applies to manufacturer's installed lamp only.

All accessory lamps purchased separately are warranted for 90 days.

### Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

### What the warranty excludes and does not cover:

1. Any product on which the serial number has been defaced, modified or removed.
2. Damage, deterioration, or malfunction resulting from:
  - » Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, unauthorized attempted repair, or failure to follow instructions supplied with the product.
  - » Any damage of the product due to shipment.
  - » Causes external to the product, such as electrical power fluctuations or failure.
  - » Use of supplies or parts not meeting ViewSonic®'s specifications.
  - » Normal wear and tear.
  - » Any other cause which does not relate to a product defect.
3. Any product exhibiting a condition commonly known as "image burn-in" which results when a static image is displayed on the product for an extended period of time.
4. Removal, installation, insurance, and set-up service charges.

## How to get service:

For information about receiving service under warranty, contact ViewSonic® Customer Support (Please refer to the attached “Customer Service” page). You will need to provide your product’s serial number, so please record the product information in the space provided below on your purchase for your future use. Please retain your receipt of proof of purchase to support your warranty claim.

### For Your Records

Product Name: \_\_\_\_\_ Model Number: \_\_\_\_\_

Document Number: \_\_\_\_\_ Serial Number: \_\_\_\_\_

Purchase Date: \_\_\_\_\_ Extended Warranty Purchase? \_\_\_\_\_ (Y/N)

If so, what date does warranty expire? \_\_\_\_\_

1. 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.
2. Take or ship the product, in the original container packaging, to an authorized ViewSonic® service center.
3. Round trip transportation costs for in-warranty products will be paid by 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:

1. 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.
2. Any other damages, whether incidental, consequential or otherwise.
3. Any claim against the customer by any other party.
4. Repair or attempted repair by anyone not authorized by ViewSonic®.

Contact Information for Sales & Authorized Service (Centro Autorizado de Servicio) within Mexico:	
<b>Name, address, of manufacturer and importers:</b> México, Av. de la Palma #8 Piso 2 Despacho 203, Corporativo Interpalmas, Col. San Fernando Huixquilucan, Estado de México Tel: (55) 3605-1099 <a href="http://www.viewsonic.com/la/soporte/index.htm">http://www.viewsonic.com/la/soporte/index.htm</a>	
NÚMERO GRATIS DE ASISTENCIA TÉCNICA PARA TODO MÉXICO: 001.866.823.2004	
<b>Hermosillo:</b> Distribuciones y Servicios Computacionales SA de CV. Calle Juárez 284 local 2 Col. Bugambilias C.P: 83140 Tel: 01-66-22-14-9005 E-Mail: <a href="mailto:disc2@hmo.megared.net.mx">disc2@hmo.megared.net.mx</a>	<b>Villahermosa:</b> Compumantenimientos Garantizados, S.A. de C.V. AV. GREGORIO MENDEZ #1504 COL, FLORIDA C.P. 86040 Tel: 01 (993) 3 52 00 47 / 3522074 / 3 52 20 09 E-Mail: <a href="mailto:compumantenimientos@prodigy.net.mx">compumantenimientos@prodigy.net.mx</a>
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<b>Guerrero Acapulco:</b> GS Computación (Grupo Sesicomp) Progreso #6-A, Colo Centro 39300 Acapulco, Guerrero Tel: 744-48-32627	<b>Monterrey:</b> Global Product Services Mar Caribe # 1987, Esquina con Golfo Pérsico Fracc. Bernardo Reyes, CP 64280 Monterrey N.L. México Tel: 8129-5103 E-Mail: <a href="mailto:aydeem@gps1.com.mx">aydeem@gps1.com.mx</a>
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