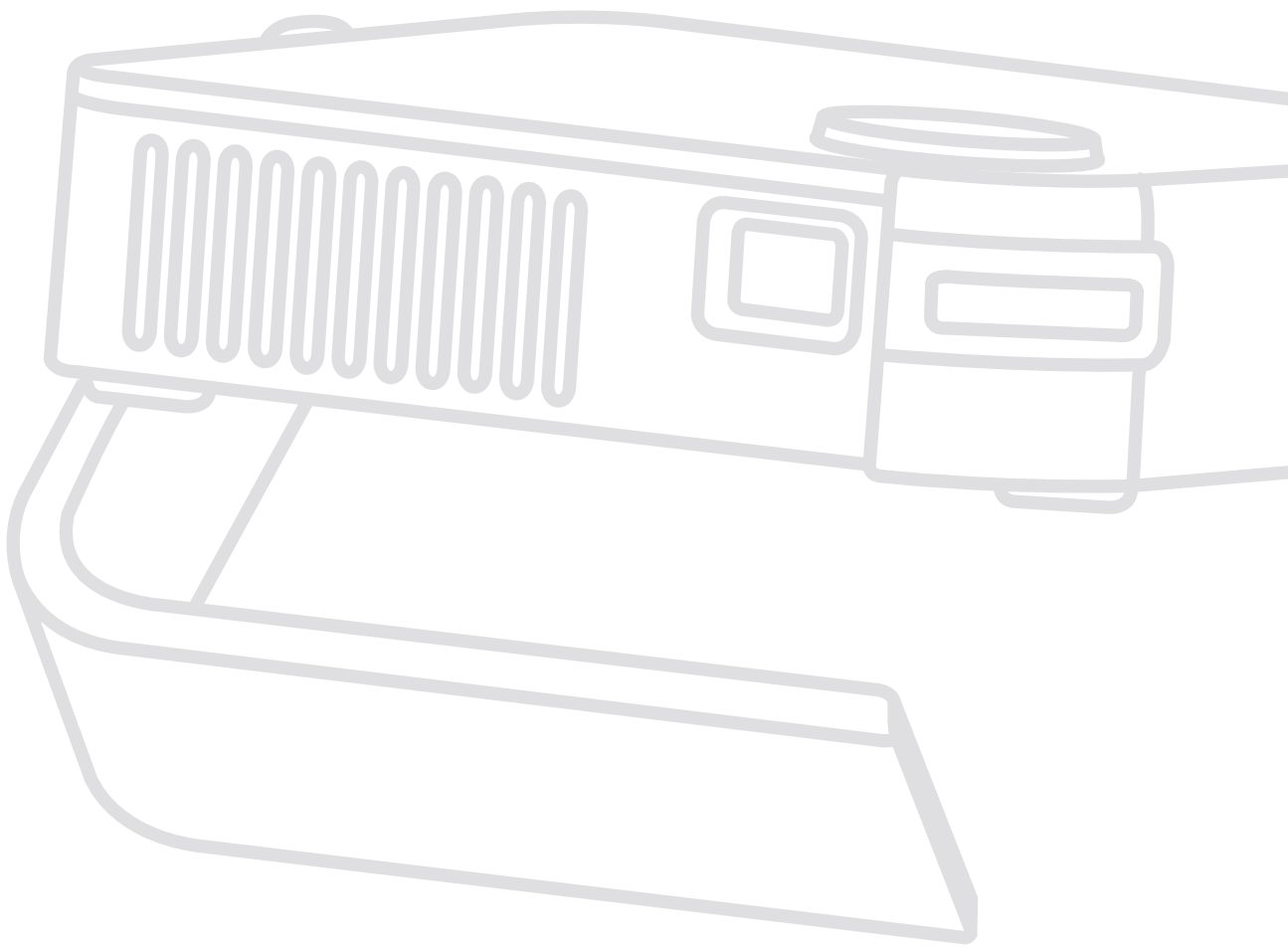


> M1 mini

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 in the upper right corner of our website. "Antes de operar su equipo lea cuidadosamente las instrucciones en este manual"

Model No. VS18039
P/N: M1 mini

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 use if the projector is tilted at an angle of more than 10° degrees left or right, nor at an angle of more than 15° degrees forwards or backwards.
- 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 ± 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.

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> Introduction

This Lamp Free Pocket Cinema provides users with high-performance LED projection and a user-friendly design to deliver high reliability and ease of use.

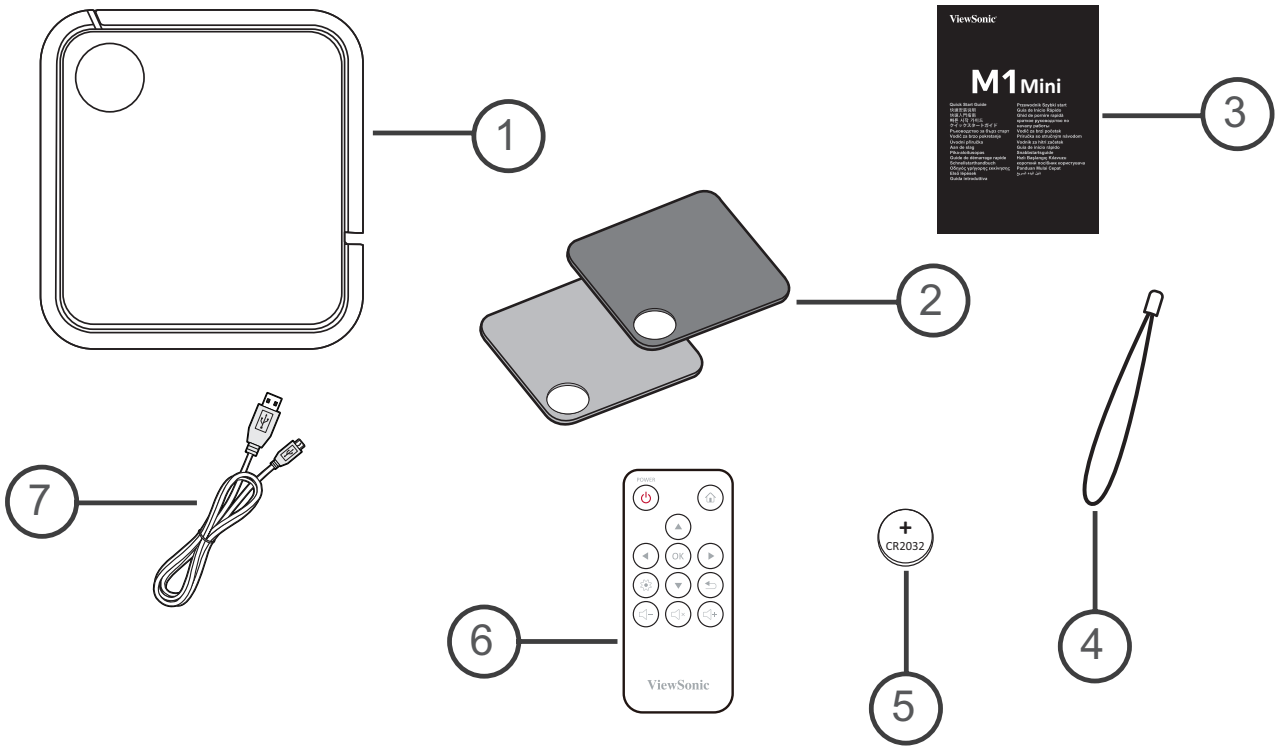
NOTE: Some of the features may not be available on your projector. Actual performance may vary and subject to model specifications.

Features

- Short throw lens design allows for a projected 39" screen size from only 1 meter away.
- Auto V. keystone to correct a distorted image automatically.
- Excellent audio performance by JBL.
- Instant on/off and great colors.
- Swappable color top plates and flexible angle adjustment.
- Multi-language On-Screen Display (OSD) menus.
- Embedded battery for easy outdoor projection.
- User-friendly UI design for easy navigation.
- LED light source with excellent light source life (30,000 hours).
- Color modes for every occasion.

NOTE: The apparent brightness of the projected image will vary depending on the ambient lighting conditions, selected input signal contrast/brightness settings, and projection distance.

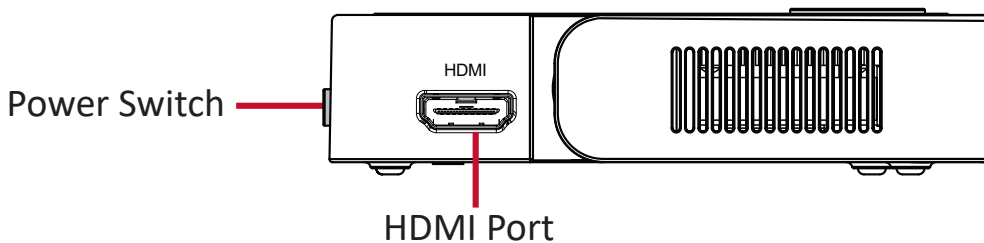
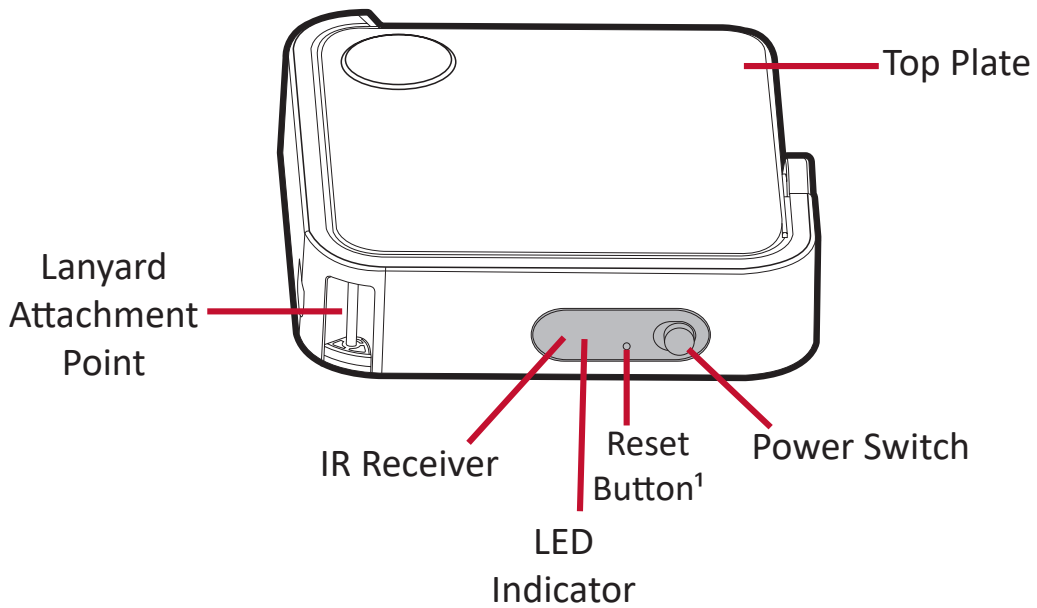
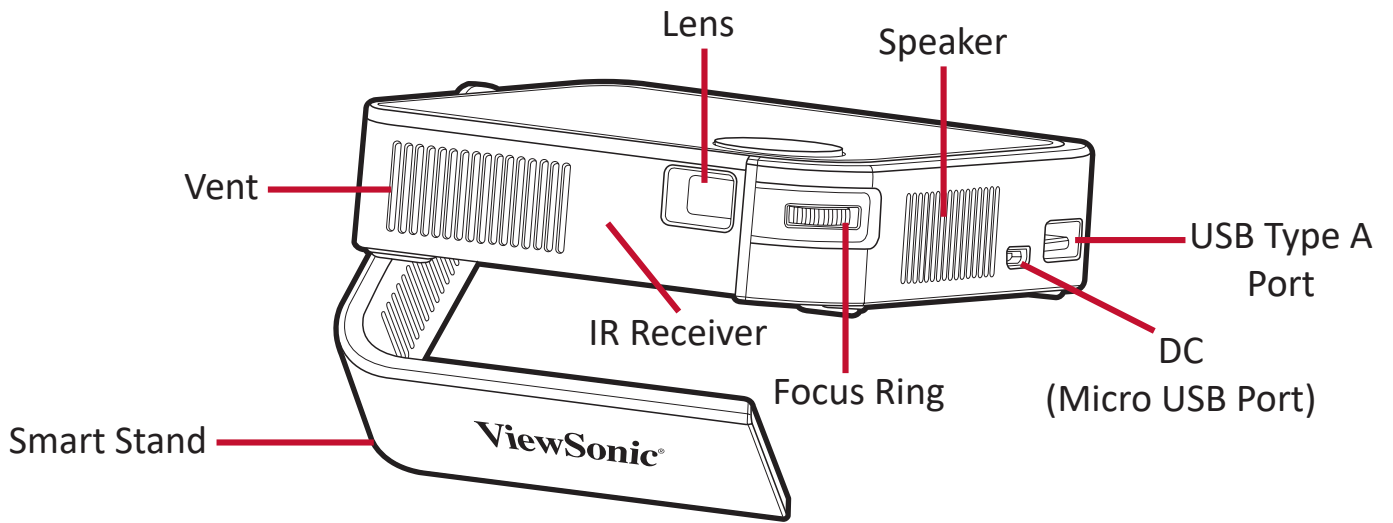
Package Contents



Item	Description
[1]	M1 mini Projector
[2]	Swappable Top Plate
[3]	Quick Start Guide
[4]	Lanyard
[5]	CR2032 Battery
[6]	Remote Control
[7]	Micro USB Cable

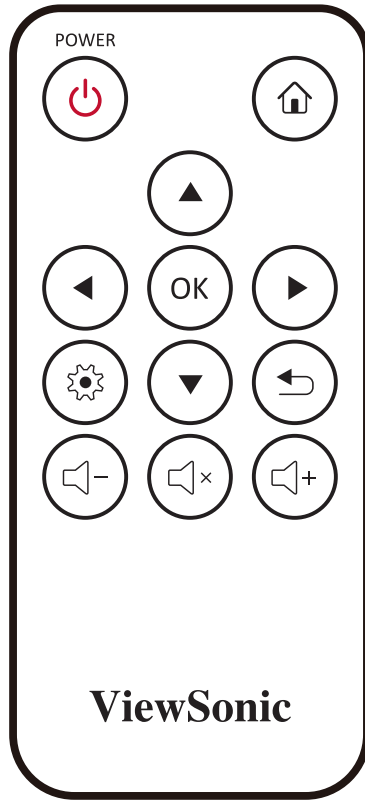
Product Overview

Projector



1. In the event of a system crash, use the **Reset Button** to restart the projector.

Remote Control



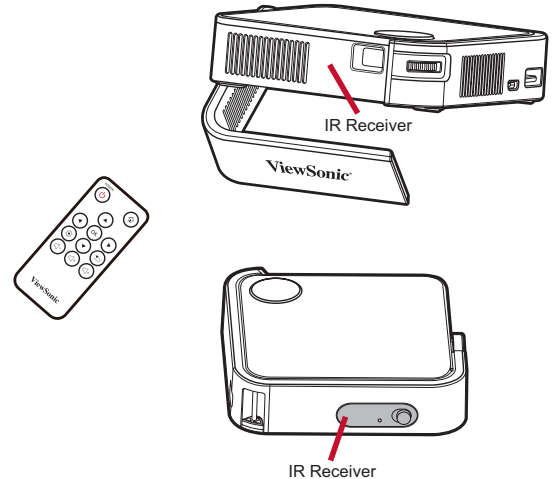
Power
Home
Up/Down
OK

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 8 m (26 ft.)

NOTE: Refer to the illustration for the location of the infrared (IR) remote control sensor(s).

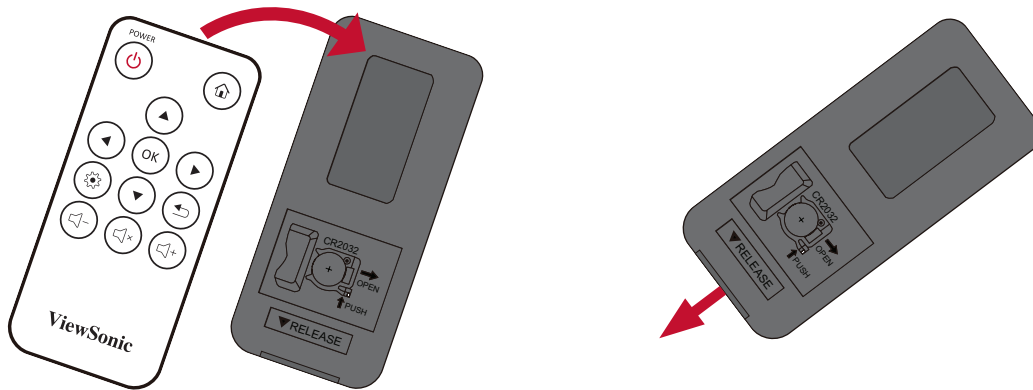


Remote Control - Replacing the Batteries

1. Place the remote control facedown and remove the battery tray from the bottom of the remote control by pressing the side tab and pulling it out.
2. Remove any existing battery (if necessary) and install one CR2032 battery.

NOTE: Observe the battery's polarities as indicated.

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

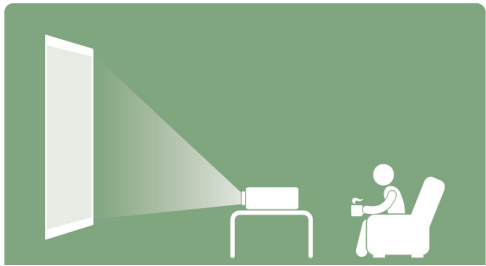
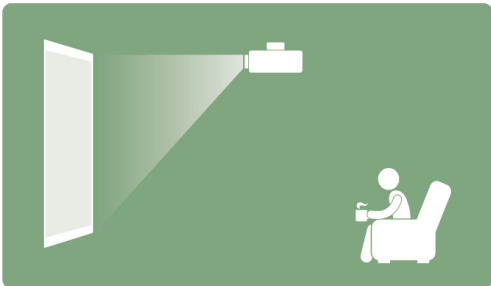
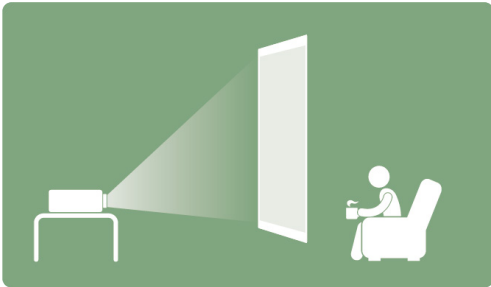
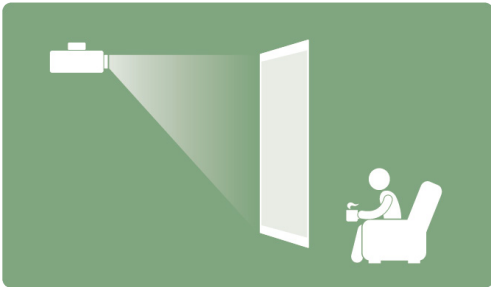
This section provides detailed instructions for the initial set up your projector.

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.

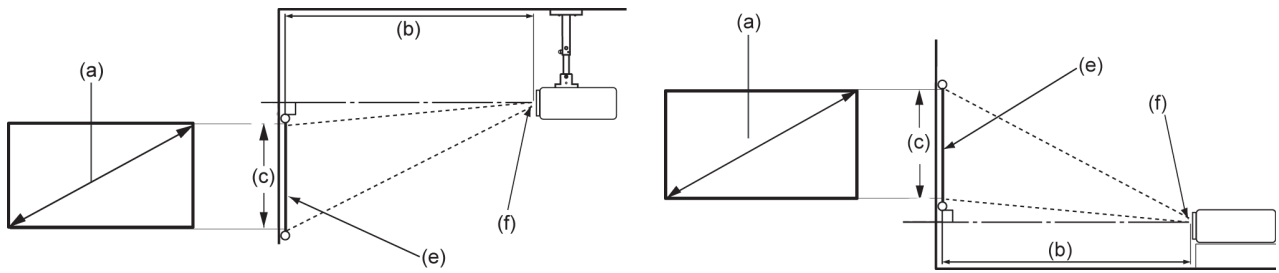
The projector is designed to be installed in one of the following locations:

Location	
<p>Front Table</p> <p>The projector is placed near the floor in front of the screen.</p>	
<p>Front Ceiling</p> <p>The projector is suspended upside-down from the ceiling in front of the screen.</p>	
<p>Rear Table¹</p> <p>The projector is placed near the floor behind the screen.</p>	
<p>Rear Ceiling¹</p> <p>The projector is suspended upside-down from the ceiling behind the screen.</p>	

1. A rear projection screen is required.

Projection Dimensions

- 16:9 Image on a 16:9 Screen



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

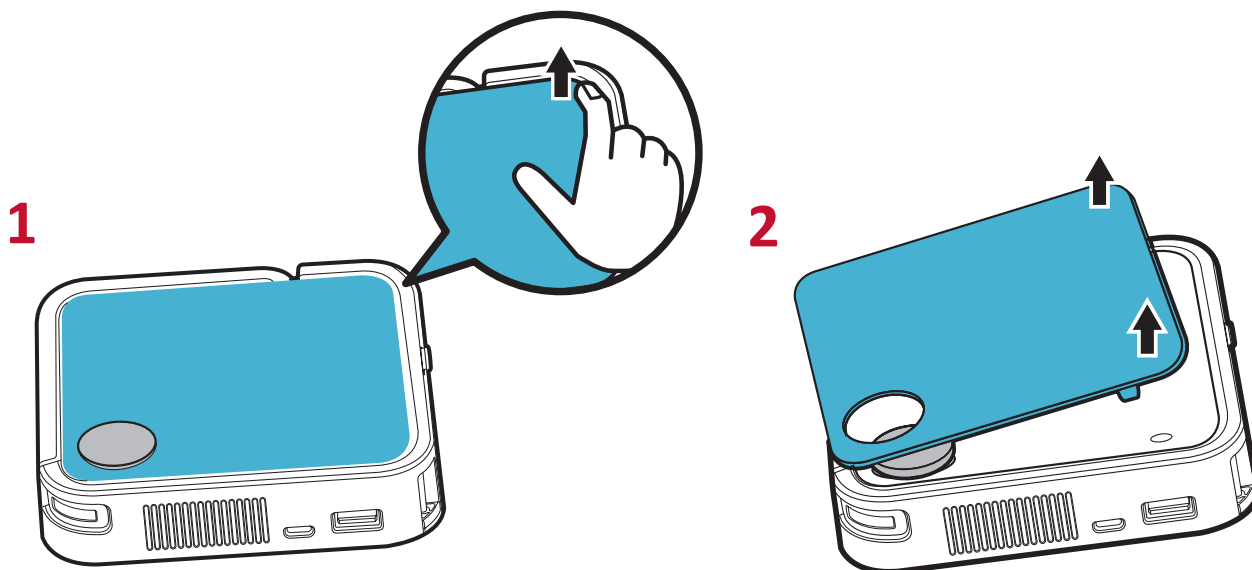
16:9 Image on a 16:9 Screen

(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: There is a 3% tolerance among these numbers due to optical component variations. It is recommended to physically test the projection size and distance before permanently installing the projector.

Top Plate Removal/Installation

The M1 mini comes with different color top plates.



To change the top plate:

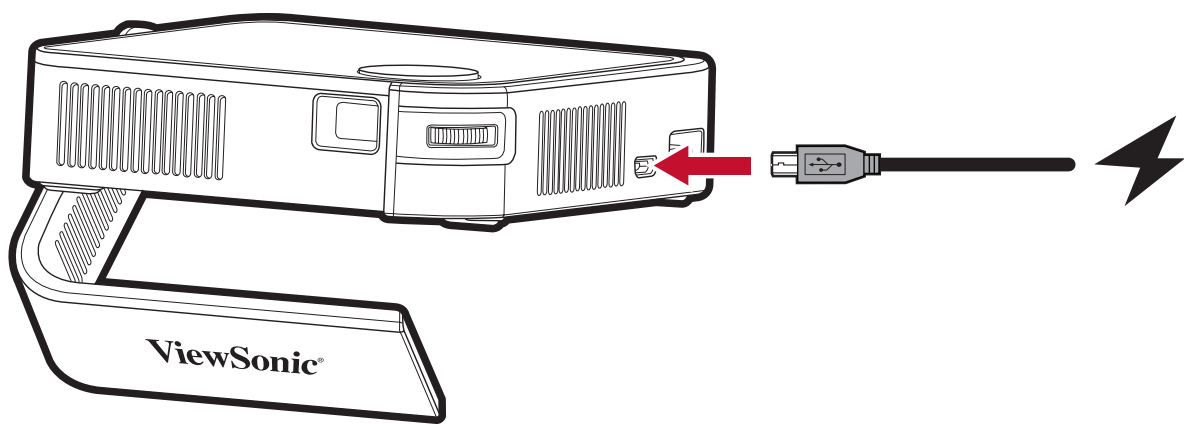
1. Remove the top plate by carefully prying up one corner and lifting the top plate off (as shown above).
2. To install a top plate, line up the circular hole and prongs located under the top plate with the spacing and holes of the projector. Gently press the top plate into place.

> Making Connections

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

Connecting to Power

1. Connect the USB cord to the Micro USB Port on the side of the projector.
2. Plug the other end of the USB cord into a power bank, smartphone adapter, or PC (5V/2A).



NOTE: Charge the projector for 2 hours (5V/2A) before using it in battery mode for the first time.

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

Charging	About 2 hours (5V/2A) ¹
Usage Hours	2.1 hours (Normal) / 2.4 hours (ECO)
Battery Level Indicator (Charging)	<u>During Charging</u> : Red LED light is On <u>Full Charge</u> : Red LED light is Off

NOTE:

- When the projector is in use, a 5V/2A power adapter is required to fully recharge the projector.
- When the projector is in use, using the USB A port to power other devices, e.g. wireless dongle, may prevent the projector battery from being fully recharged.

¹ Charging time can be longer than two hours if using less than 5V/2A.

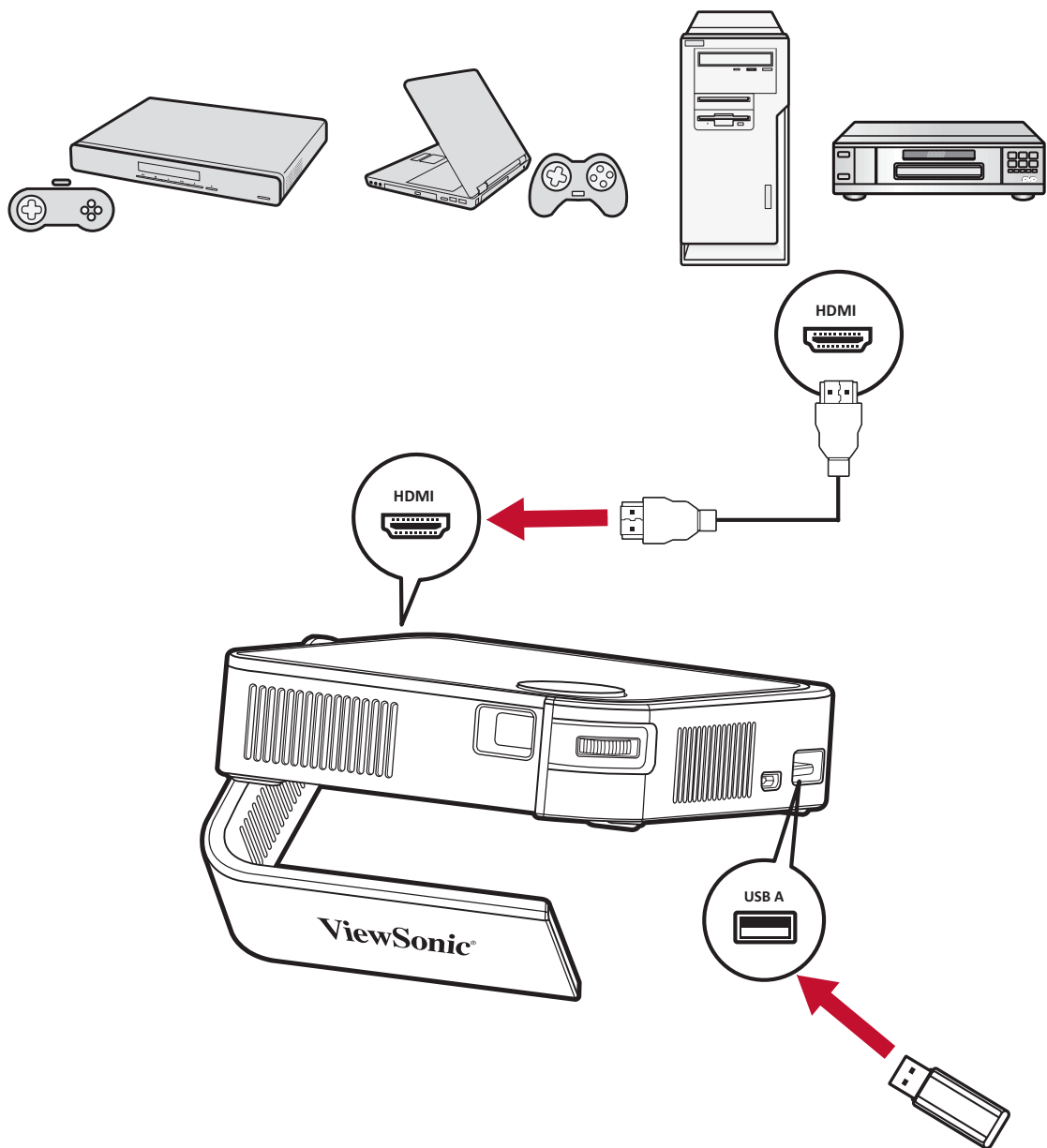
Connecting to External Devices

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

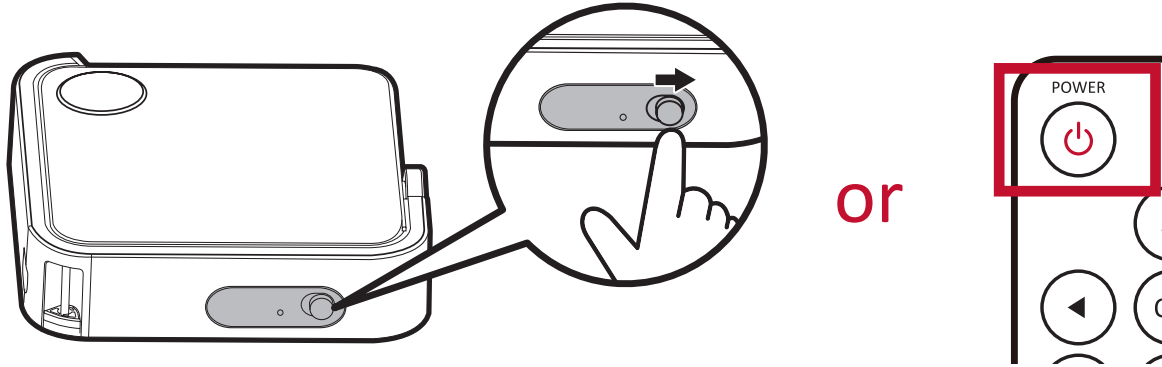
To enjoy photos, music, and movies, simply plug in a USB flash drive to the **USB Type A** port. For supported file formats, see page 30.



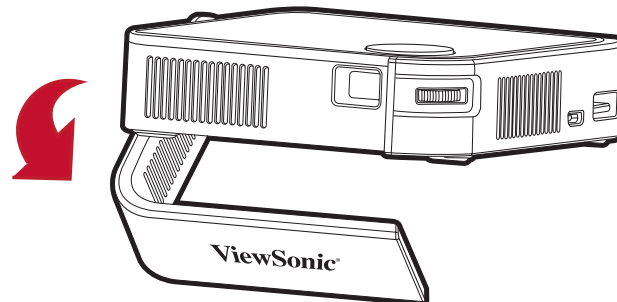
> Using the Projector

Starting Up the Projector

1. Ensure the projector is connected to a power source or that the battery has sufficient charge.
2. Push the **Power Switch** to turn on the projector. Alternatively, press the **Power** button on the remote control.



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

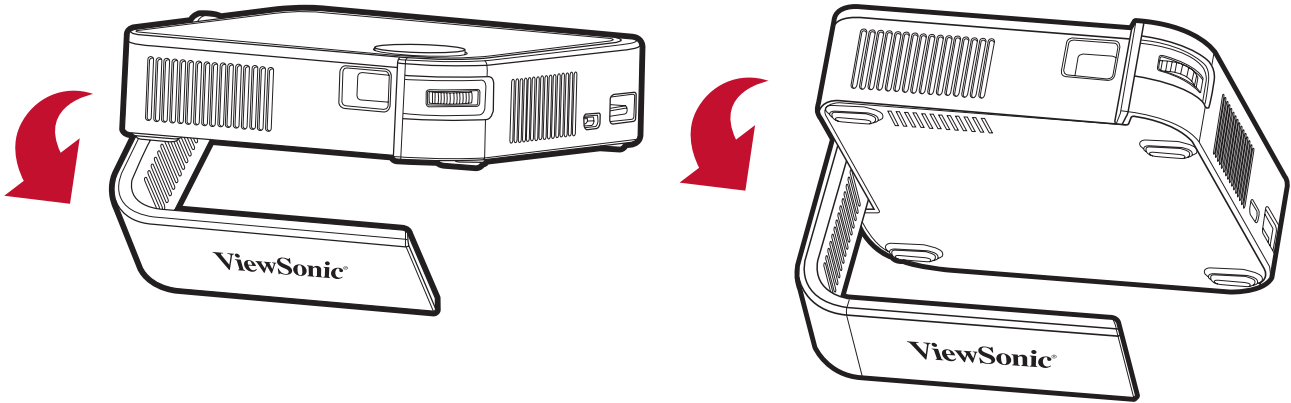


NOTE: When not in use, please push the **Power Switch** to Off. If only using the Power button on the remote control to power off, the projector will enter standby mode and the embedded battery will still consume some power.

Adjusting the Projected Image

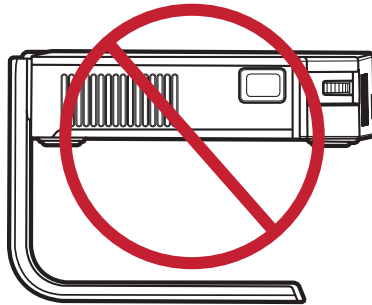
Adjusting the Projector's Height and Projection Angle

The projector is equipped with one (1) 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.



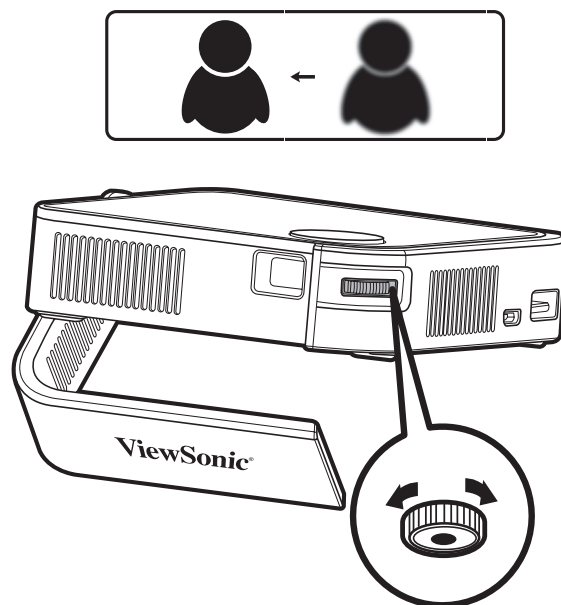
NOTE:

- 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.
- It is not recommended to use the Smart Stand at 90° degrees.



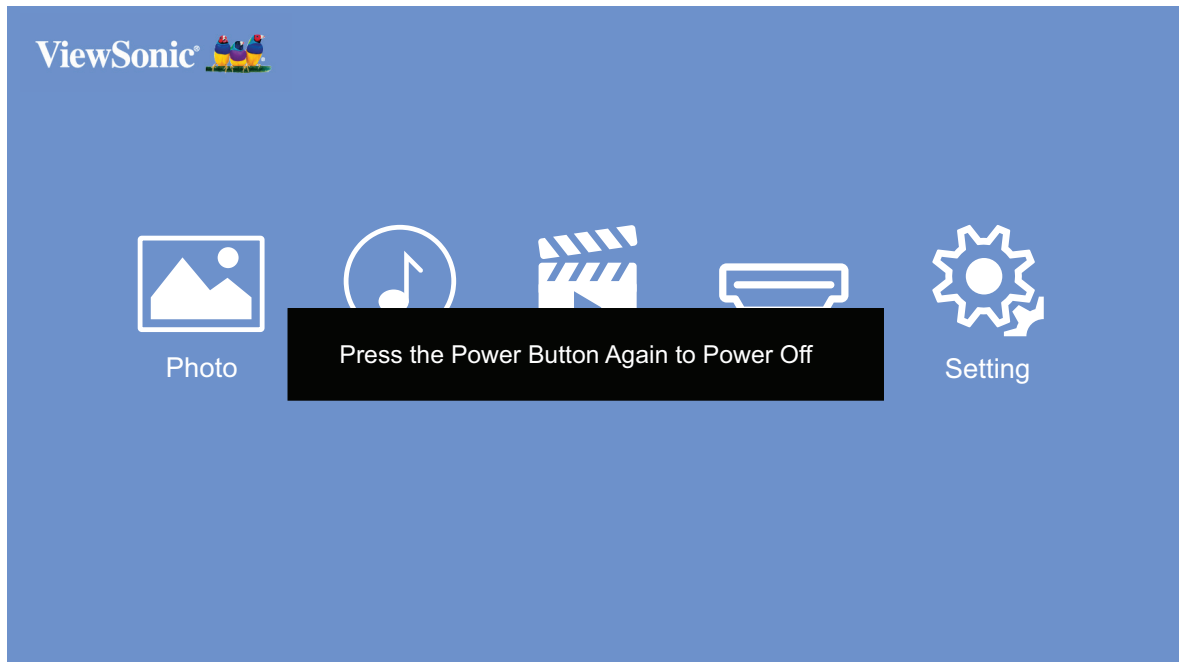
Adjusting the Focus

To adjust the image focus of the on-screen image, slowly move the focus ring forwards and backwards.



Shutting Down the Projector

1. Push the **Power Switch** on the projector or the **Power** button on the remote control and the following confirmation message will appear:



2. Push the **Power Switch** or press the **Power** button on the remote control again to turn off the projector. To cancel, press any other button on the remote control.

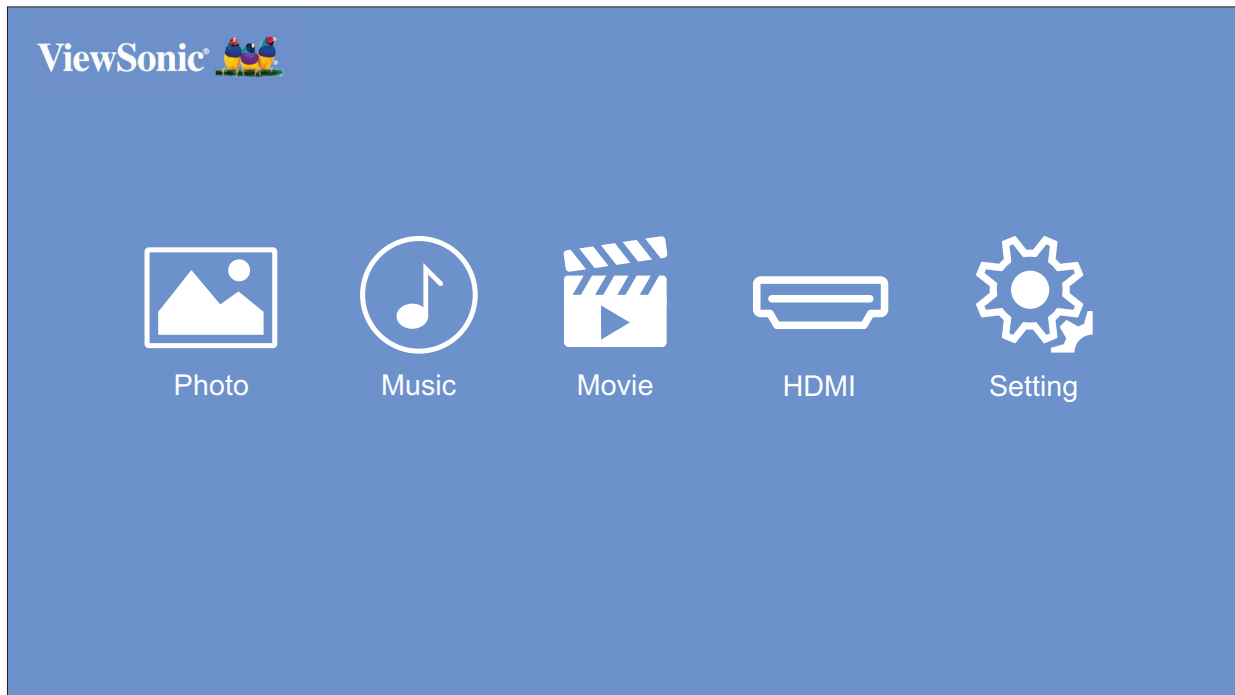
NOTE: When not in use, please push the **Power Switch** to Off. If only using the Power button on the remote control to power off, the projector will enter standby mode and the embedded battery will still consume some power.

> Operating the Projector

This section will introduce the **Home Screen** and its menus.

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.



Menu	Description
Photo ¹	View photo files.
Music ¹	View and play music files.
Video ¹	View and play video files.
HDMI	Switch to the connected HDMI source.
Setting	Manage various categories such as: Image settings, Basic settings, and System Information.

NOTE: Picture Mode and Aspect Ratio cannot be adjusted on the Home Screen.

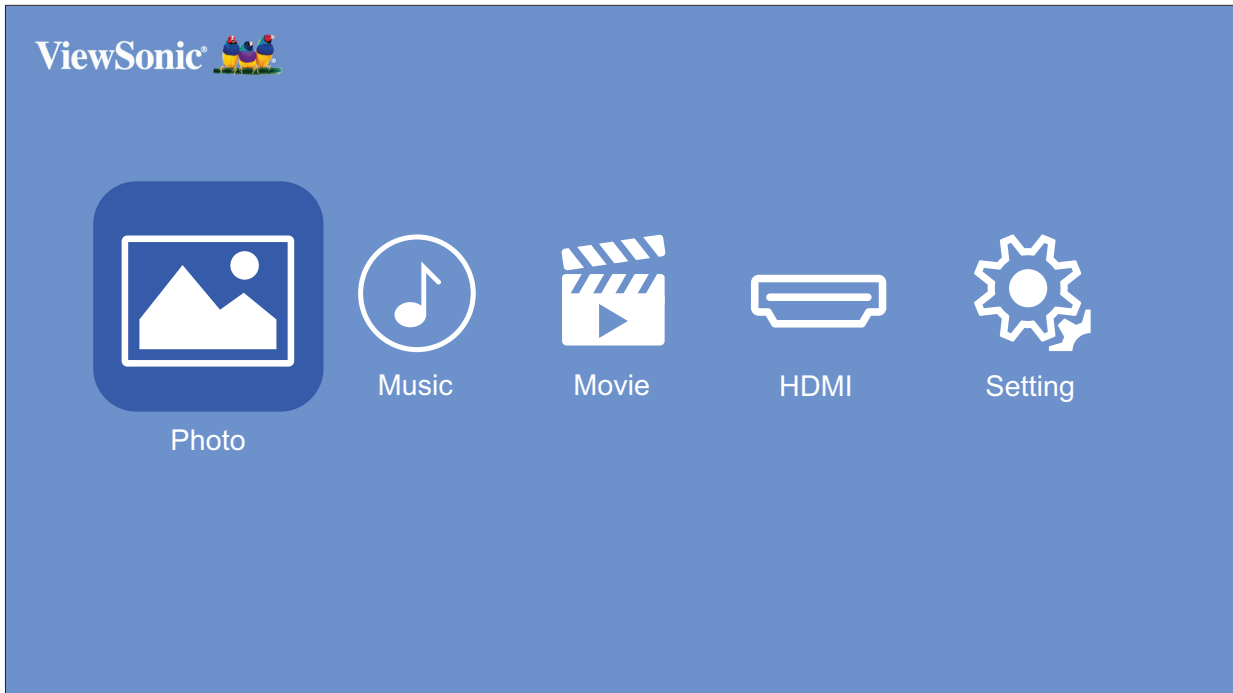
¹ A USB flash drive with the relevant media must be connected to the projector to use.

Menu Operations

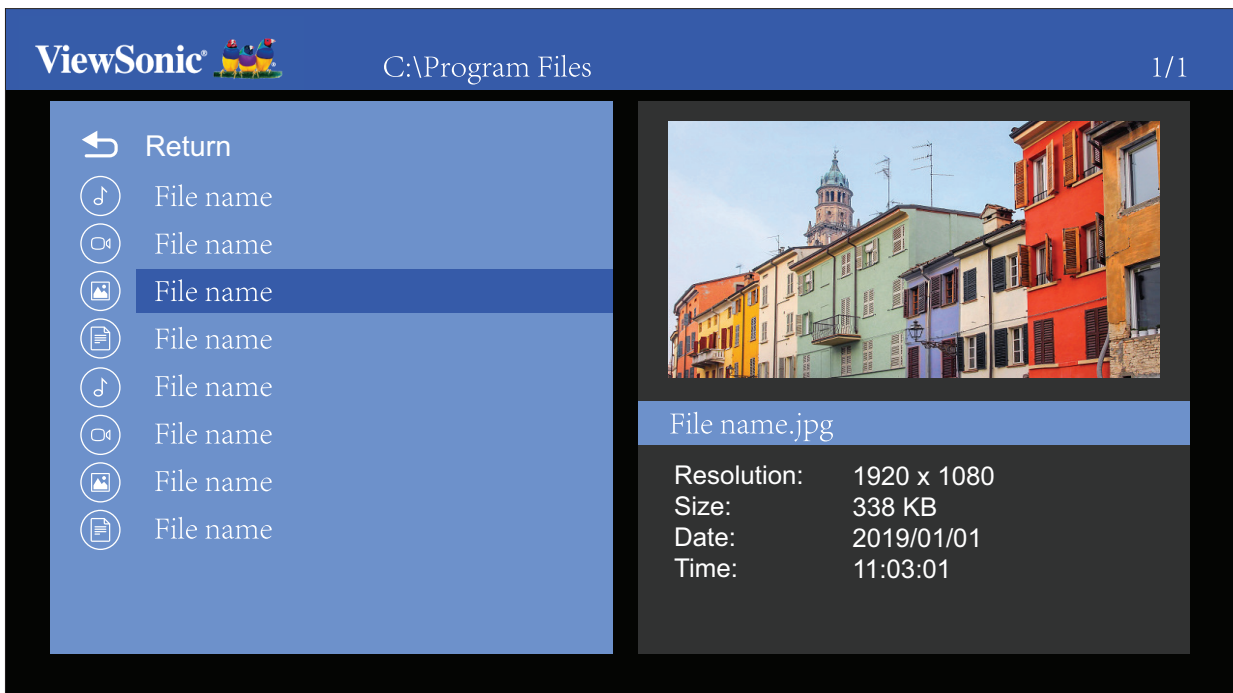
Photo

View and display image files on your USB flash drive.

1. Using the directional buttons on the remote control select **Photo**, and press **OK**.



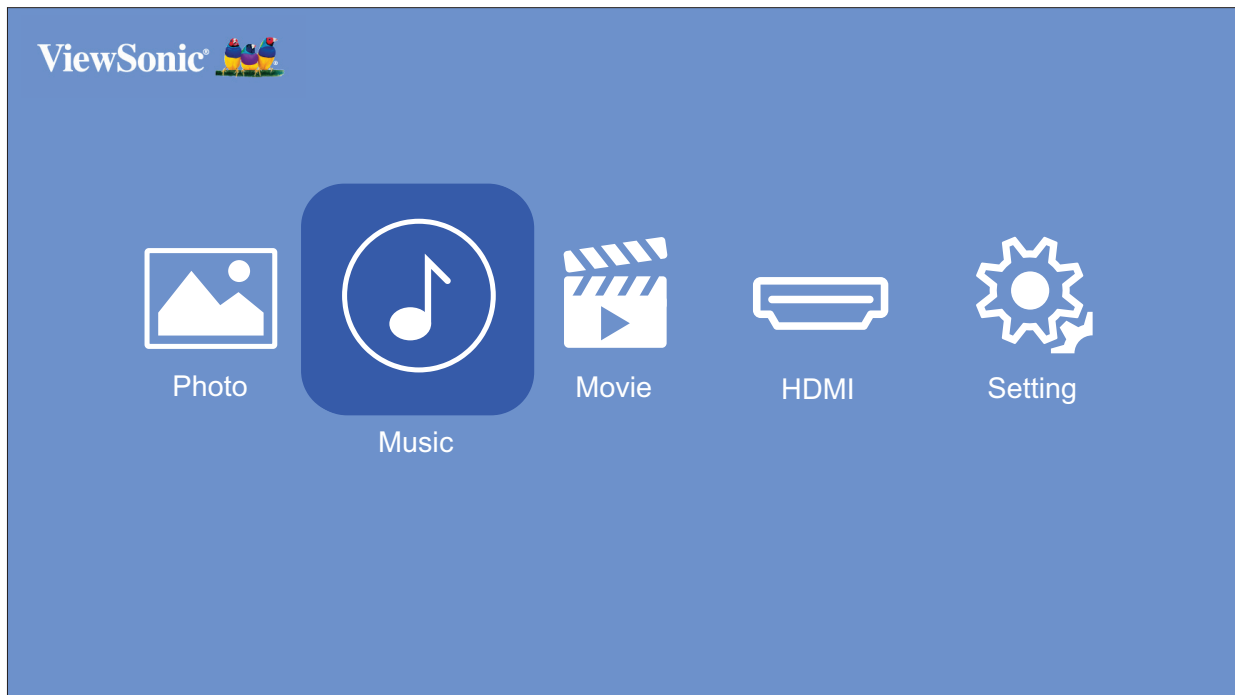
2. Use the directional buttons to navigate the folders/files. When you find your preferred image file, press the **OK** button to open and view it.



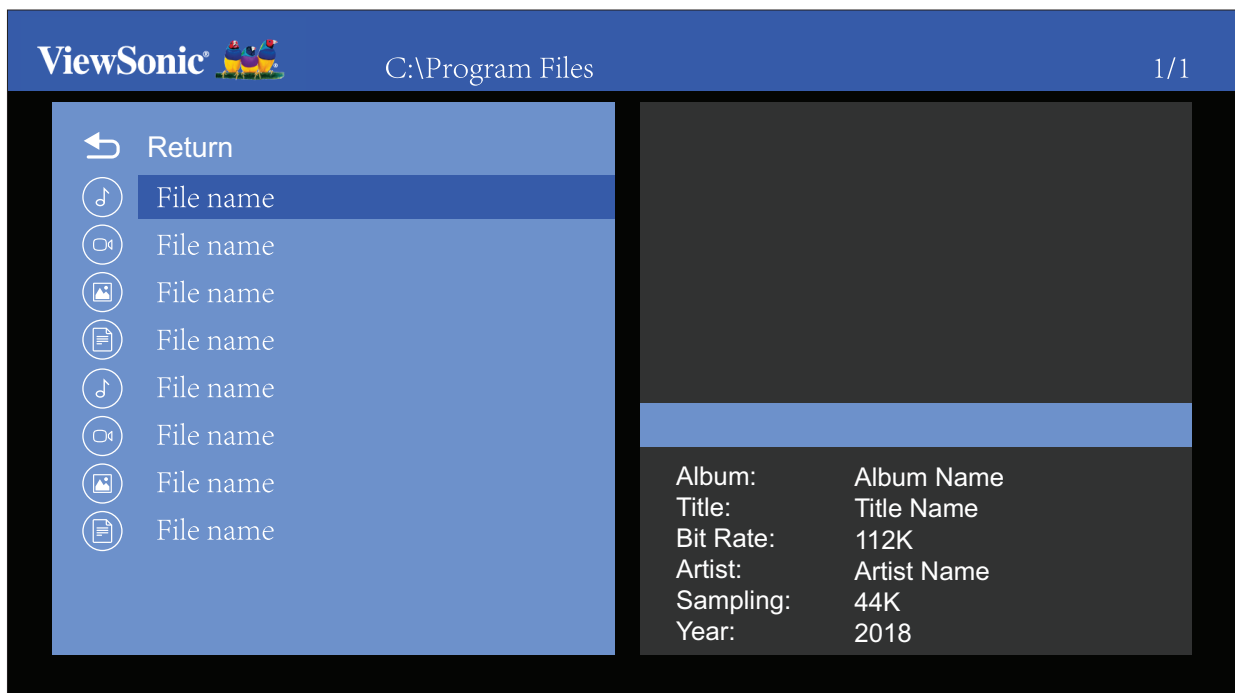
Music

View and play your music from your USB flash drive.

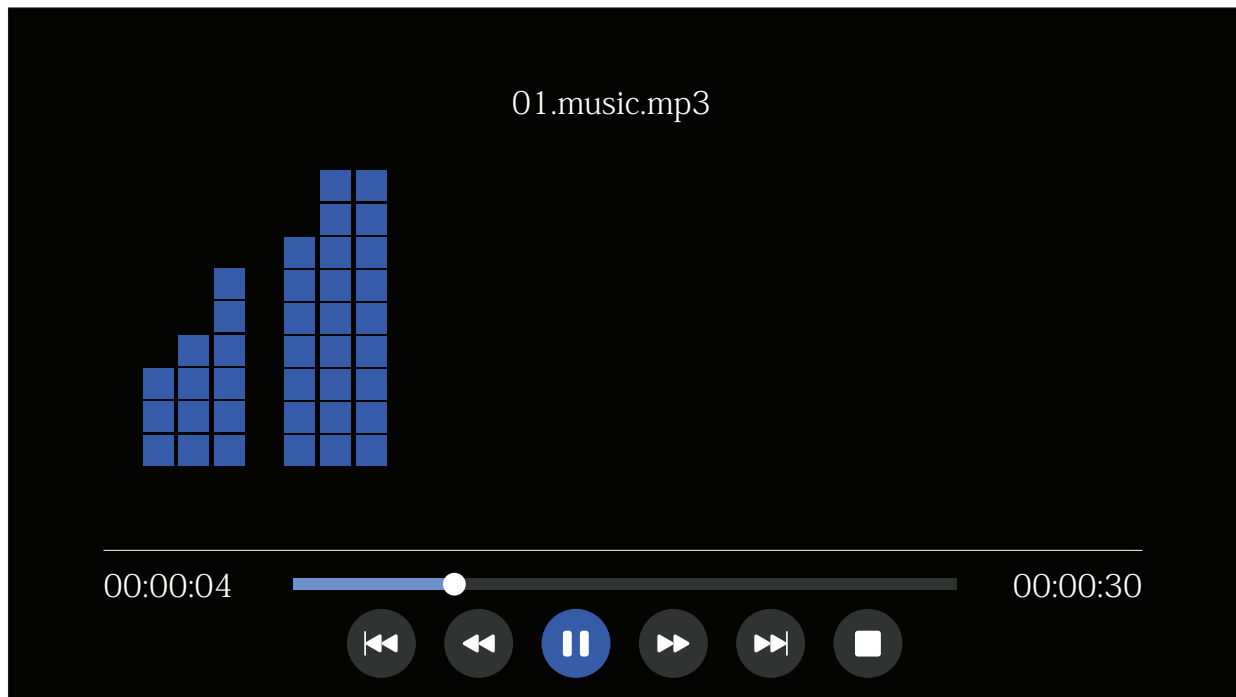
1. Using the directional buttons on the remote control select **Music**, and press **OK**.



2. Use the directional buttons to navigate the folders/files. When you find your preferred music file, press the **OK** button.



3. The media player will open and play the music file.

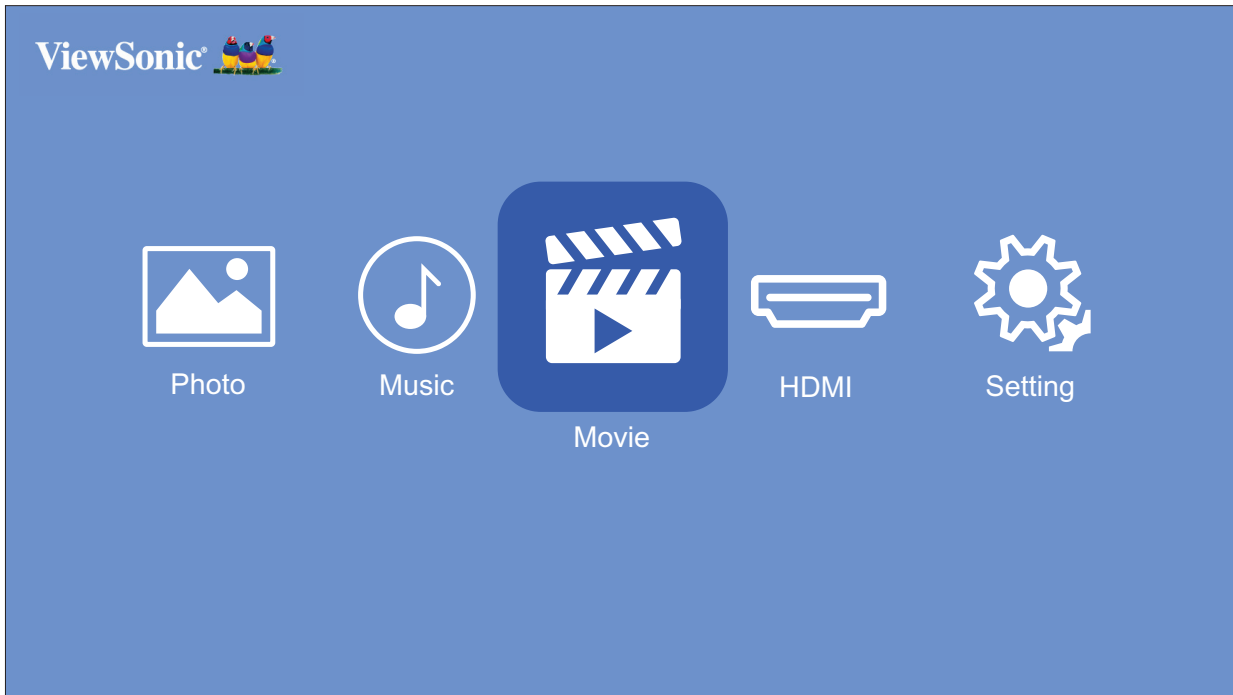


NOTE: If the audio file includes the album cover, it will be displayed on the right side of the screen.

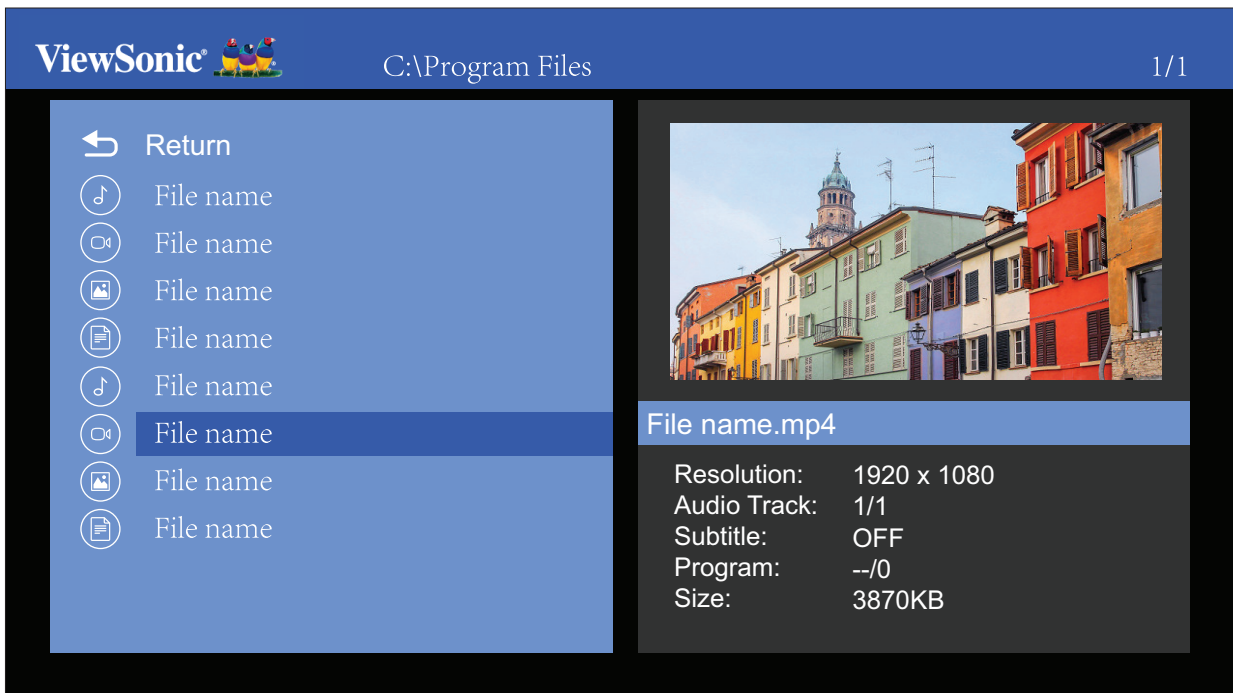
Movie

View and play your videos from your USB flash drive.

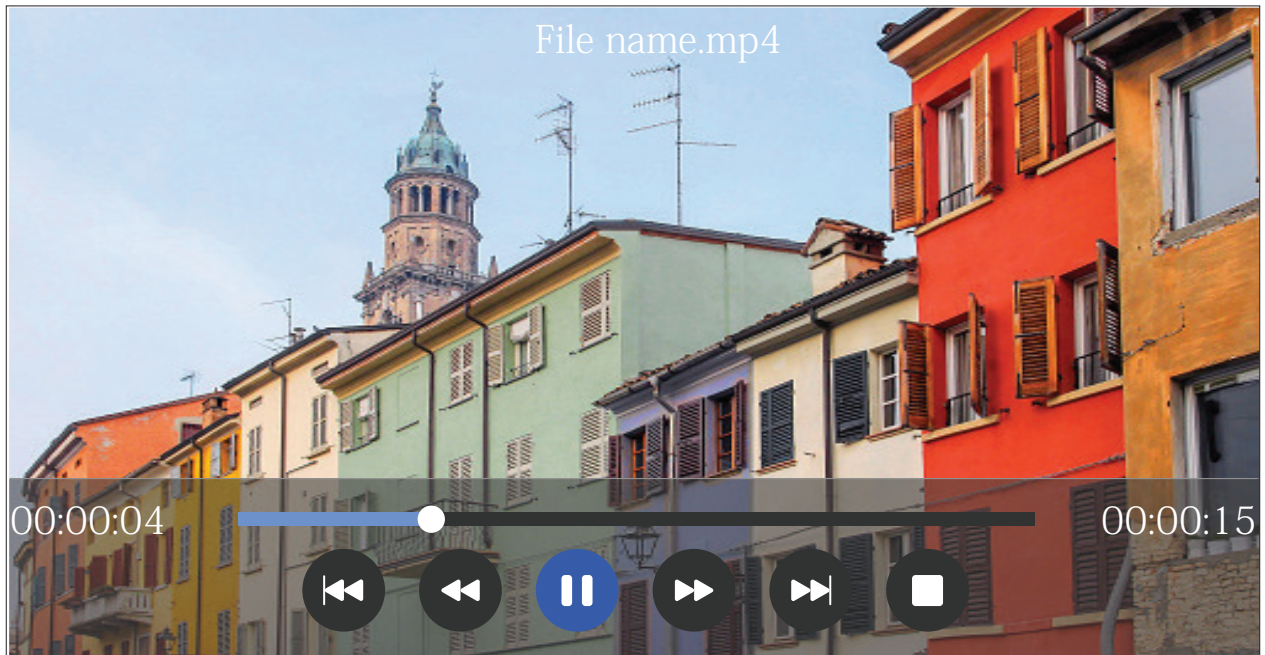
1. Using the directional buttons on the remote control select **Movies**, and press **OK**.



2. Use the directional buttons to navigate the folders/files. When you find your preferred video file, press the **OK** button.



3. The media player will open and play the video file.
























NOTE:

- During playback, press the **OK** button to access the media control bar.
- Audio soundtrack and subtitles are not supported.

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		Rewind
	Next		Play		Play
	Pause		Pause		Pause
	Zoom in		Fast Forward		Fast Forward
	Zoom out		Next		Next
	Stop		Stop		Stop

NOTE:

Tips for Using USB

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

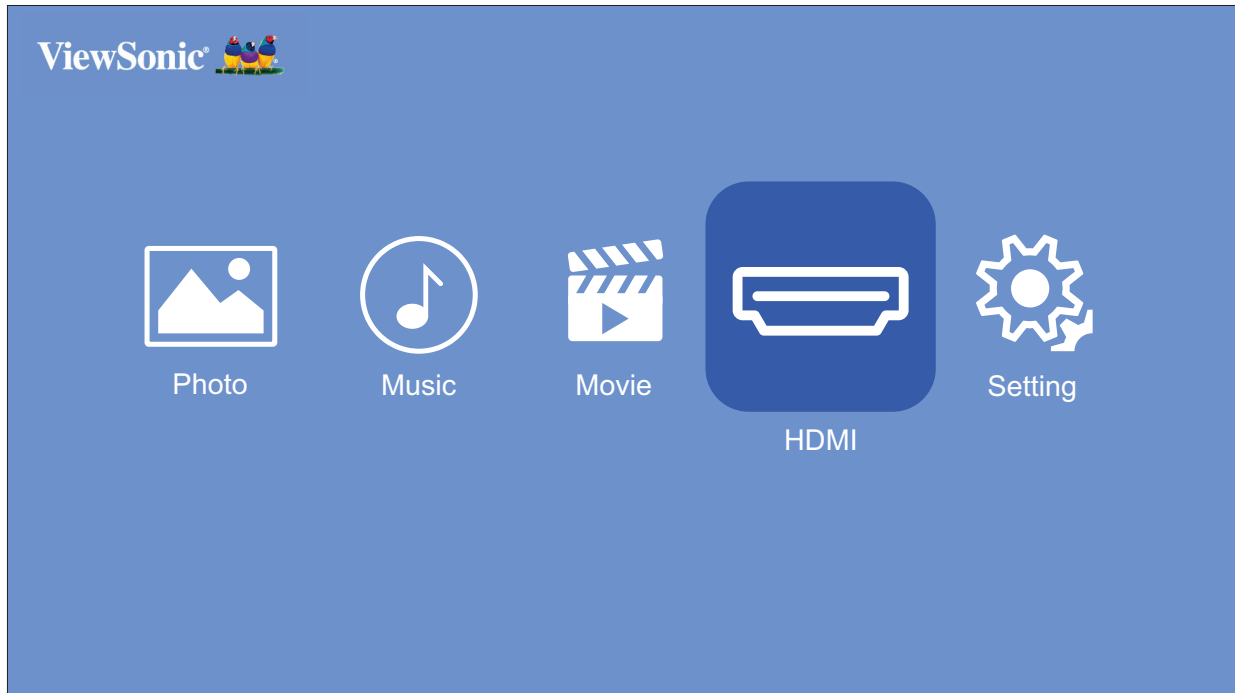
1. Some USB storage devices may not be compatible.
2. If you use an USB extension cable, the USB device may not recognize the USB.
3. Only use USB storage devices formatted with Windows FAT32 or NTFS file system.
4. Larger files will need extra time to load.
5. Data on USB storage devices may be damaged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


Supported File Formats

Multimedia	Format	Video	Audio	Comment
Movie	.avi	Xvid, MPEG-2, MPEG-4, Divx, H.264	MP3, WMA, AAC, MP2, PCM	Max resolution: 1920 x 1080 @30 FPS
	.mp4	MPEG-2, MPEG-4, Divx, H.264		
	.ts/.trp	MPEG-4, H.264		
	.mkv/.mov	MPEG-4, H.264		
	.mpg	MPEG-1, MPEG-2	MP2	
	.dat	MPEG-1		
	.vob	MPEG-2		
	.rm/.rmvb	RV8, RV9, RV10	COOK	Max resolution: 1280 x 720 @ 30 FPS
Music	.mp3		MP3	Sampling rate: 32K ~ 48 KHz Bit rate: 32K ~ 320 Kbps
	.wma		WMA	Sampling rate: 8K ~ 48 KHz Bit rate: 128K ~ 320 Kbps
	.m4a/.aac		AAC	Sampling rate: 8K ~ 48 KHz Bit rate: 128K ~ 442 Kbps
Photo	.jpg/.jpeg	Progressive JPEG		Max resolution: 1024 x 768
		Baseline JPEG		Max resolution: 15360 x 8640
	.bmp			Max resolution: 9600 x 6400
	.png	Non-interlaced		Max resolution: 9600 x 6400
Interlaced		Max resolution: 1200 x 800		

HDMI

Project content from your media player, PC, or other HDMI compatible device.



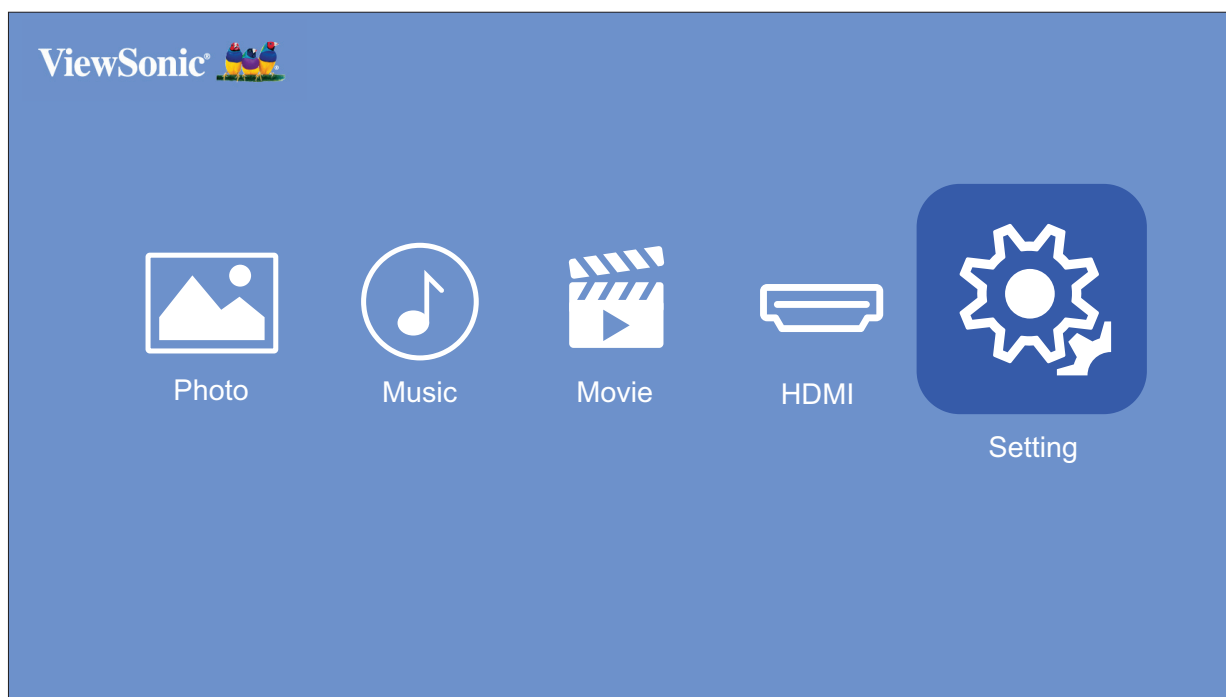
1. Connect your media player, PC, or other HDMI compatible device to the projector via an HDMI cable.
2. Using the directional buttons on the remote control select **HDMI**, and press **OK**.
3. While in HDMI mode, Image and Basic settings can be adjusted by pressing the **Settings** [] button on the remote control.

NOTE: If there is no signal in HDMI input for 20 minutes, the system will power off automatically.

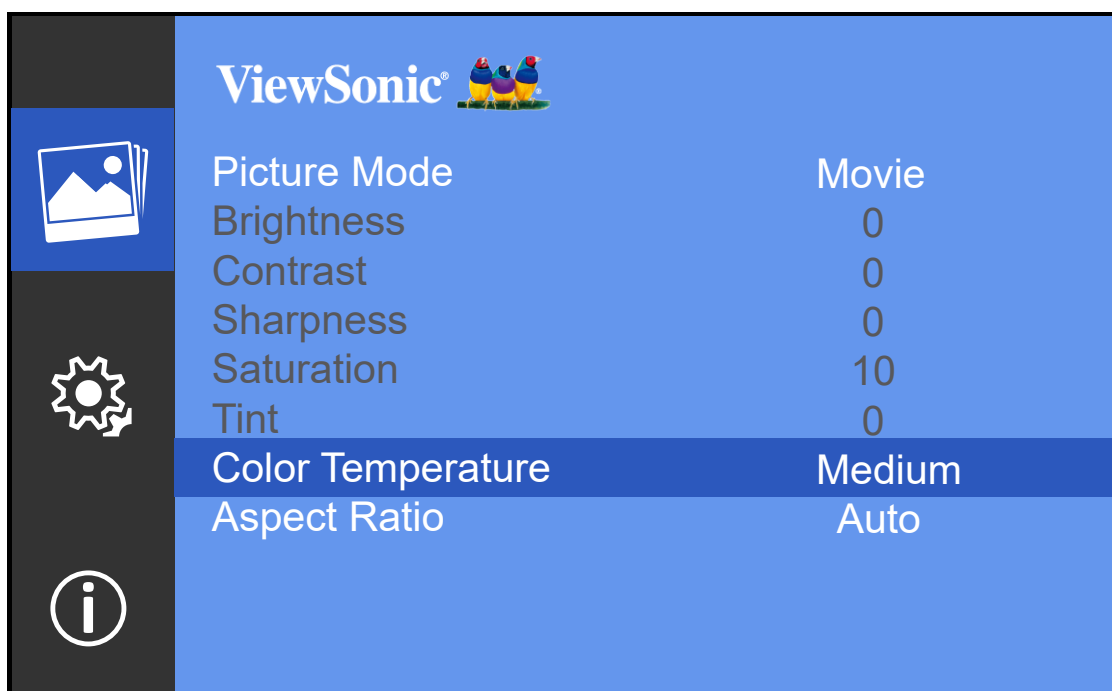
Setting

Under **Setting** you can adjust Image and Basic Settings, update Firmware, and view Information.

1. Using the directional buttons on the remote control select **Setting**, and press **OK**.



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



Settings - On-Screen Display (OSD) Tree




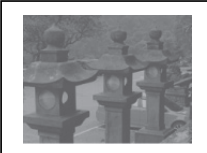


Main Menu	Sub-menu	Menu Option
Image Setting	Picture Mode	Brightest
		TV
		Movie
		User
	Brightness	(-/+ , 0~100)
	Contrast	(-/+ , 0~100)
	Sharpness	(-/+ , 0~100)
	Saturation	(-/+ , 0~100)
	Tint	(-/+ , 0~100)
	Color Temperature	6500K
		7500K
		9300K
	Aspect Ratio	Auto
		4:3
		16:9

Main Menu	Sub-menu	Menu Option
Basic Settings	Language ¹	English
		Deutsch
		Français
		Español
		Italiano
		Norsk
		Português
		Russian
		繁體中文
		簡體中文
		日本語
		韓語
		Swedish
		Dutch
		Turkish
		Czech
		Thai
		Polish
		Finnish
		Arabic
	Indonesian	
	Hindi	
	Vietnamese	
	Projector Projection	Front Table
		Front Ceiling
		Rear Table
		Rear Ceiling
	Keystone	(-/+ , -40~40)
	Auto Keystone	On
		Off
	Light Source Level	Full
		Eco
	Reset to Factory Default	Yes
No		

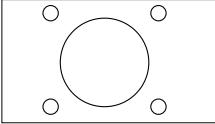
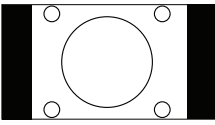
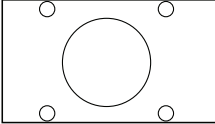
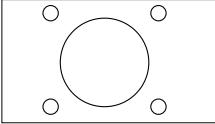
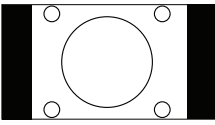
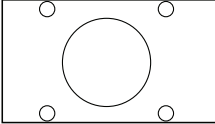
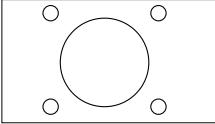
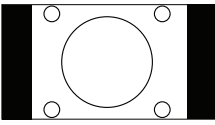
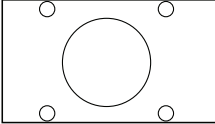
¹ Language support will vary by region. If some of the languages are not shown on the language list, the font for those languages will not display correctly.

Main Menu	Sub-menu	Menu Option
Information	Light Source Hours	
	System Version	
	Resolution	

Image Setting Menu

Menu Option	Description
Color Mode	<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><u>Brightest</u> Maximizes the brightness of the projected image. This mode is suitable for environments where extra-high brightness is required, i.e. well-lit rooms.</p> <p><u>TV</u> Optimized for viewing sports in well-lit environments.</p> <p><u>Movie</u> Appropriate for colorful movies, video clips from digital cameras, or DVs through the PC input. Best for low-light environments.</p> <p><u>User</u> Recalls the customized user settings.</p>
Brightness	<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> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 5px;"> <div style="text-align: center;"> <input type="range" value="0"/> 0 </div> <div style="text-align: center;"> <input type="range" value="50"/> 50 </div> <div style="text-align: center;"> <input type="range" value="100"/> 100 </div> </div>
Contrast	<p>Use this to set the peak white level after you have previously adjusted the Brightness setting to suit your selected input and viewing environment.</p> <div style="display: flex; justify-content: space-around; align-items: center;">    </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 5px;"> <div style="text-align: center;"> <input type="range" value="0"/> 0 </div> <div style="text-align: center;"> <input type="range" value="50"/> 50 </div> <div style="text-align: center;"> <input type="range" value="100"/> 100 </div> </div>
Sharpness	<p>A high value results in a sharper picture; a low value softens the picture.</p>

Menu Option	Description
Saturation	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.
Tint	The higher the value, the more greenish the picture becomes. The lower the value, the more reddish the picture becomes.
Color Temp	<p>Select the color temperature setting.</p> <ul style="list-style-type: none"> • 6500K: Maintains normal white coloring. • 7500K: A higher, cooler color temperature than 6500K. • 9300K: The highest color temperature; makes the image appear the most bluish-white.

Menu Option	Description								
Aspect Ratio	<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> <table border="1" data-bbox="472 439 1425 943"> <thead> <tr> <th data-bbox="472 439 740 488">Aspect Ratio Setting</th> <th data-bbox="746 439 1425 488">When the native aspect ratio of your projector is 16:9</th> </tr> </thead> <tbody> <tr> <td data-bbox="472 492 740 640">Auto</td> <td data-bbox="746 492 1425 640">  </td> </tr> <tr> <td data-bbox="472 645 740 792">4:3</td> <td data-bbox="746 645 1425 792">  </td> </tr> <tr> <td data-bbox="472 797 740 943">16:9</td> <td data-bbox="746 797 1425 943">  </td> </tr> </tbody> </table> <p><u>Auto</u> 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><u>4:3</u> 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><u>16:9</u> 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. for images which are already in a 16:9 aspect, like high definition TV.</p>	Aspect Ratio Setting	When the native aspect ratio of your projector is 16:9	Auto		4:3		16:9	
Aspect Ratio Setting	When the native aspect ratio of your projector is 16:9								
Auto									
4:3									
16:9									

Basic Settings Menu

Menu Option	Description
Language	Select an available language for the OSD Menu.
Projector Projection	Select the preferred projection position.
Keystone	Manually adjust from -40 to 40.
Auto Keystone	<p>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> <ul style="list-style-type: none"> • On: Automatically adjust the keystone number. • Off: Manually adjust the keystone number. <p>NOTE: If Keystone is selected, Auto Keystone will change to Off automatically.</p>
Light Source Level	<p>Select a suitable power consumption of the LED.</p> <p>Full 100%</p> <p>Eco 70%</p>
Reset to Factory Default	<p>Resets all settings to their default values.</p> <p>NOTE: Light Source Hours, Projector Projection, and Language will remain unchanged.</p>

Information

Menu Option	Description
Light Source Hours	Displays total usage hours.
System Version	Displays current system version.
Resolution	Current displayed resolution.

Firmware Upgrade

Users can update the firmware by USB.

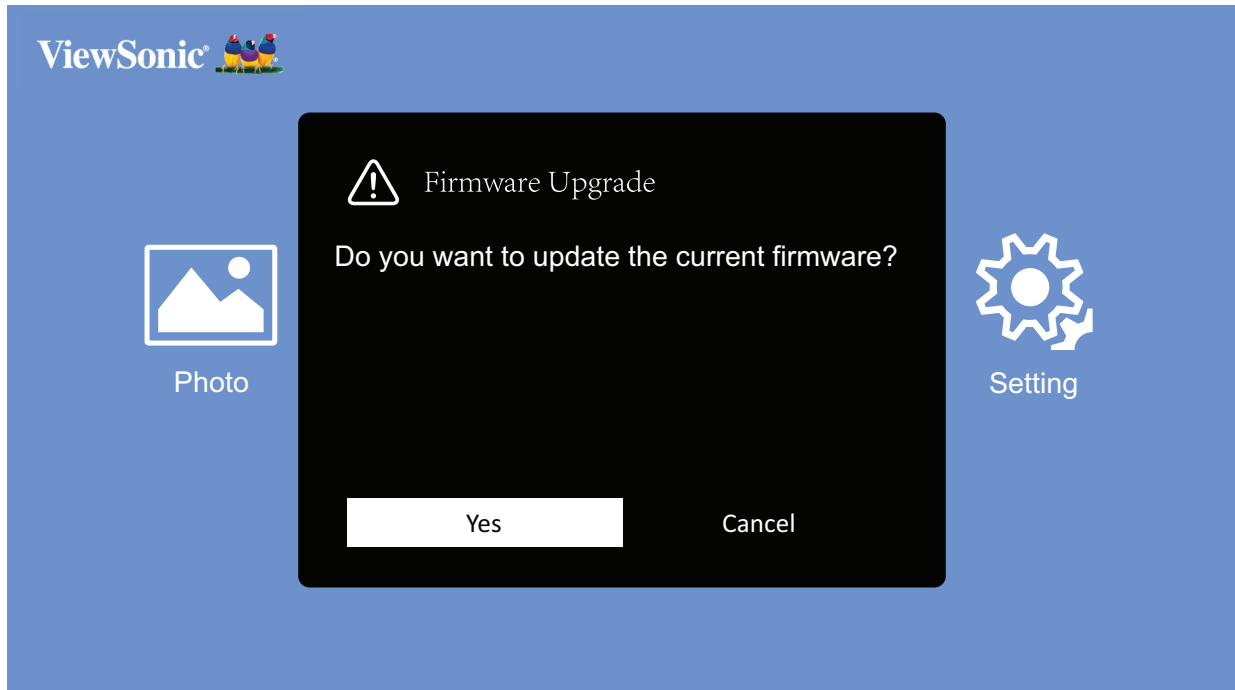
NOTE: Do not unplug the power cord or USB during the upgrading process.

Firmware Update by USB

1. Download the latest version from the ViewSonic website and copy the file to a USB device.

NOTE: USB format: FAT32

2. Power on the projector and plug in the USB with the new Firmware.



3. The system will display the above dialog message.

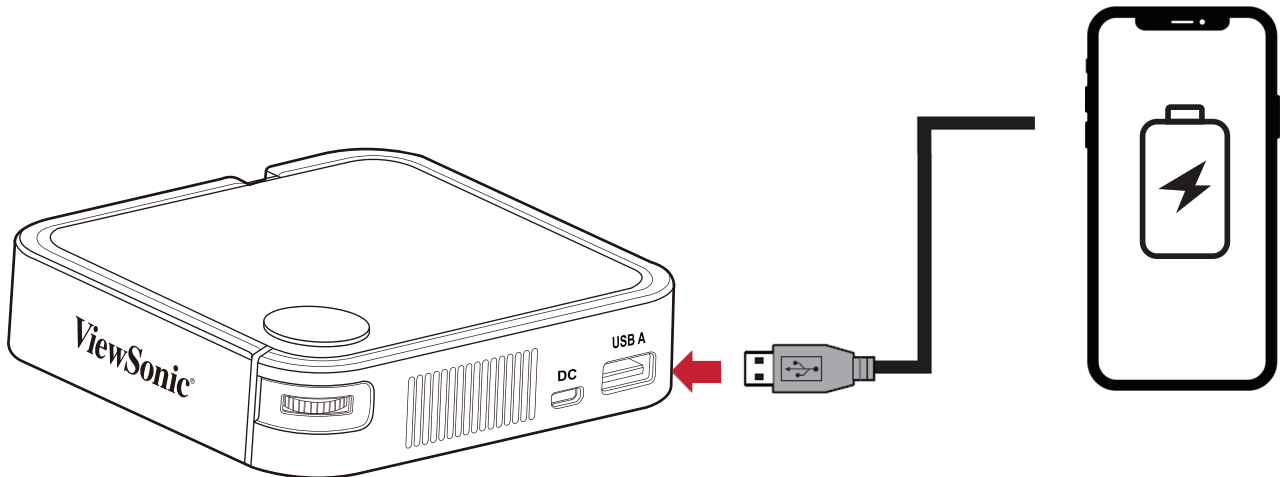
4. After selecting **Yes**, a progress bar will appear as the update process begins.

5. After reaching 100% the projector will restart. The whole process will take about five (5) minutes.

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

Power Bank Function

The projector can also act as a power bank for your mobile device.



To charge your mobile device:

1. Turn off the projector by pushing the **Power Switch**.
2. Use the **USB Type A port** on the projector to connect to a mobile device.
3. A 5V/1A power charge can be provided to the mobile device.

NOTE: The Power Bank function can only work when the projector is powered off.

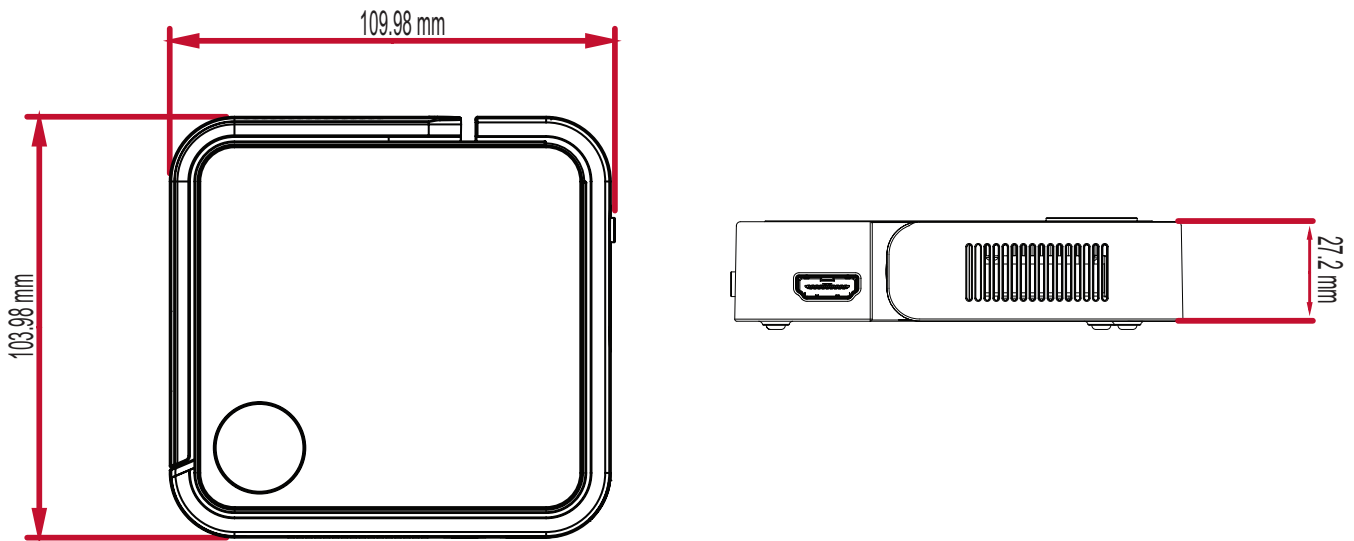
> Appendix

Specifications

Item	Category	Specifications
Projector	Type	0.2" WVGA, LED
	Display Size	24"~100"
	Brightness	120 LED Lumens
	Throw Distance	0.64-2.66 m (39"@1 m)
	Lens	F=1.7, f=7.5 mm
	Optical Zoom	Fixed
	Light Source Type	RGB LED
	Light Source Life (Normal)	up to 30,000 hours
	Display Color	1.07 Billion Colors
	Keystone	-/+ 40 (Vertical)
	Battery Capacity	5000 mAh, 3.7V
Input Signal	HDMI	f_h : 15h~135KHz, f_v :23~120Hz,
Resolution	Native	854 x 480
	Support	VGA (640 x 480) to FullHD (1920 x 1080)
Input	HDMI	1 (HDMI 1.4, HDCP 1.4)
	USB Type-A	1 (USB 2.0 Reader; share with power)
	Micro USB	1 (Power input)
Output	Speaker	2W Cube x 1
	USB Type A (Power)	1 (USB 2.0, 5V/1A; share with USB reader)
Power Adapter	Input Voltage	AC 100-240V, 50/60 Hz (auto switch)
Operating Conditions	Temperature	0°C to 40°C (32°F to 104°F)
	Humidity	0% to 90% (non-condensing)
Dimensions	Physical (W x H x D)	110 x 104 x 27 mm (4.3" x 4.1" x 1.06")
Weight	Physical	0.3 kg (0.67 lbs)
Power Modes	On	8W (Typical)
	Off	< 0.5W (Standby) < 0.006W (Power Off)

Projector Dimensions

110 mm (W) x 104 mm (H) x 27 mm(D)



Timing Chart

HDMI Video Timing

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

HDMI Support PC Timing

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

LED Indicators

Light	Description
Blue	Power On
Red	Stand-by Mode
Red	Projector Charging
Red to Off	Battery is Fully Charged

Glossary

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

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

A Aspect Ratio

Refers to the ratio of the image width to the image height.

B Brightest Mode

Maximizes the brightness of the projected image. This mode is ideal for environments where extra-high brightness is required, such as using the projector in well lit rooms.

Brightness

Adjusts brightness levels of the screen image

C Color

Adjusts the color saturation.

Color Temp

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

Contrast

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

F Focus

Manually improve the clarity of the projected image.

H HDMI

Audio/Video interface used to transmit video and audio via a single cable.

I Information

Displays the timing mode (video signal input), the projector model number, the serial number, and the ViewSonic® website URL.

K Keystone
The distortion of an image caused by projecting it onto an angled surface.

L Light Source Level
Use Normal or Eco mode to adjust the brightness level and power consumption.

M Movie Mode
A Picture Mode appropriate for playing colorful movies, video clips from digital cameras, or DVs through the PC input. Best for a low light environment.

S Sharpness
Adjusts the picture quality.

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">• Ensure the power cord is properly attached to the projector and to the power outlet.• If the cooling process has not completed, please wait until it has finished then try to turn on the projector again.• If the above does not work, try another power outlet or another electrical device with the same power outlet.• Check that the battery has remaining power¹, or needs external power (5V/2A).
There is no picture	<ul style="list-style-type: none">• Ensure the video source cable is connected properly, and that the video source is turned on.• If the input source is not selected automatically, select the correct source with the Source key on either the projector or the remote control.
The image is blurred	<ul style="list-style-type: none">• Adjusting the Focus Ring will help correctly focus the projection lens.• Ensure the projector and screen are aligned properly. If necessary, adjust the height of the projector as well as the projection angle and direction.
The remote control does not work	<ul style="list-style-type: none">• Ensure there are no obstacles between the remote control and projector; and that they are within 8 m (26 ft) of each other.• The batteries may be out of power, please check and replace if necessary.
The projector/system is frozen and will not respond	<ul style="list-style-type: none">• Using a paper clip, carefully insert it into the Reset button at the rear of the projector to reset the device.

¹ The battery may need to be charged for two (2) hours (5V/2A) 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.

CE Conformity for European Countries

CE 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%
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:

- Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp):
 - » Short length (500 mm): maximum 3.5 mg per lamp.
 - » Medium length (> 500 mm and 1,500 mm): maximum 5 mg per lamp.
 - » Long length (> 1,500 mm): maximum 13 mg per lamp.
- Lead in glass of cathode ray tubes.
- Lead in glass of fluorescent tubes not exceeding 0.2% by weight.
- 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:

<http://www.viewsonic.com/company/green/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® 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

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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:	
Name, address, of manufacturer and importers: México, Av. de la Palma #8 Piso 2 Despacho 203, Corporativo Interpalmas, Col. San Fernando Huixquilucan, Estado de México Tel: (55) 3605-1099 http://www.viewsonic.com/la/soporte/index.htm	
NÚMERO GRATIS DE ASISTENCIA TÉCNICA PARA TODO MÉXICO: 001.866.823.2004	
Hermosillo: 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: disc2@hmo.megared.net.mx	Villahermosa: 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: compumantenimientos@prodigy.net.mx
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ViewSonic®
See the difference®