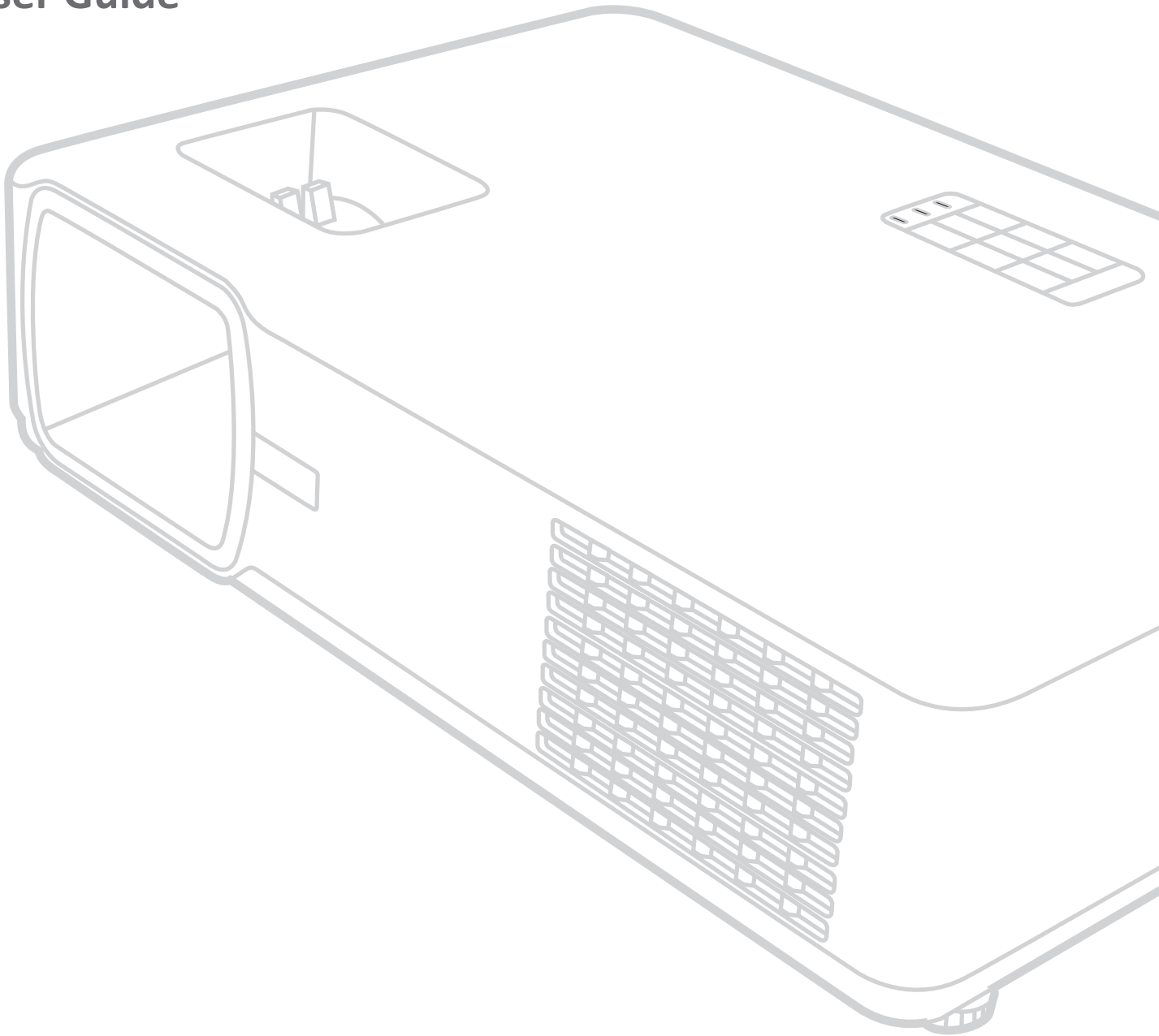


LS610WH series/LS610HDH series

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. VS19173/VS19174
Model Name: LS610WH series/LS610HDH series

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 ± 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.



CAUTION: Possibly hazardous optical radiation is emitted from this product. As with any bright light source, do not stare into the beam, RG2 IEC 62471-5:2015.

Safety Precautions - Ceiling Mounting

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

If you intend to mount the projector on the ceiling, it is strongly recommended that you use a proper fitting projector ceiling mount kit and that you ensure it is securely and safely installed.

If you use an inappropriate projector ceiling mount kit, there is a safety risk that the projector may fall from the ceiling due to an improper attachment through the use of the wrong gauge or length screws.

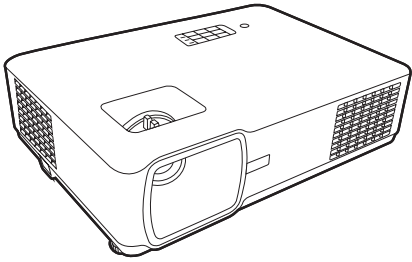
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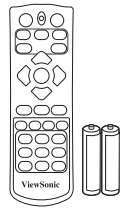
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Introduction

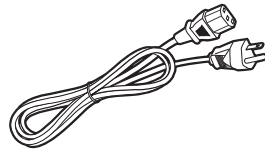
Package Contents



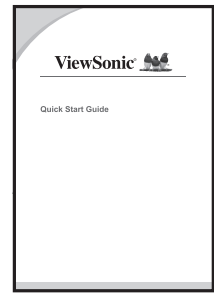
Projector



Remote Control &
Batteries



Power Cord



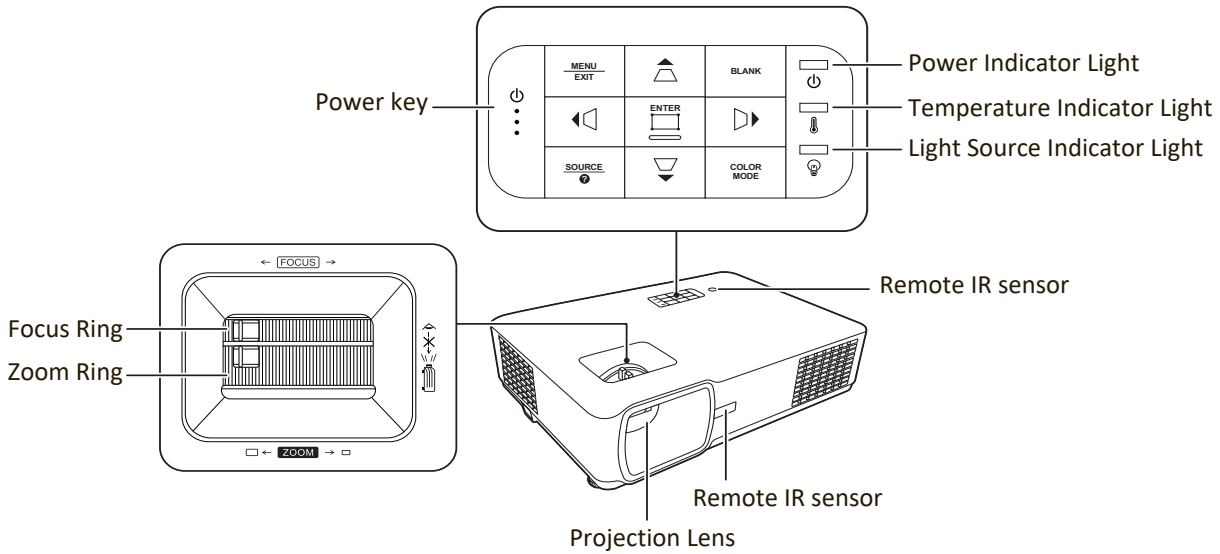
Quick Start Guide

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

Product Overview

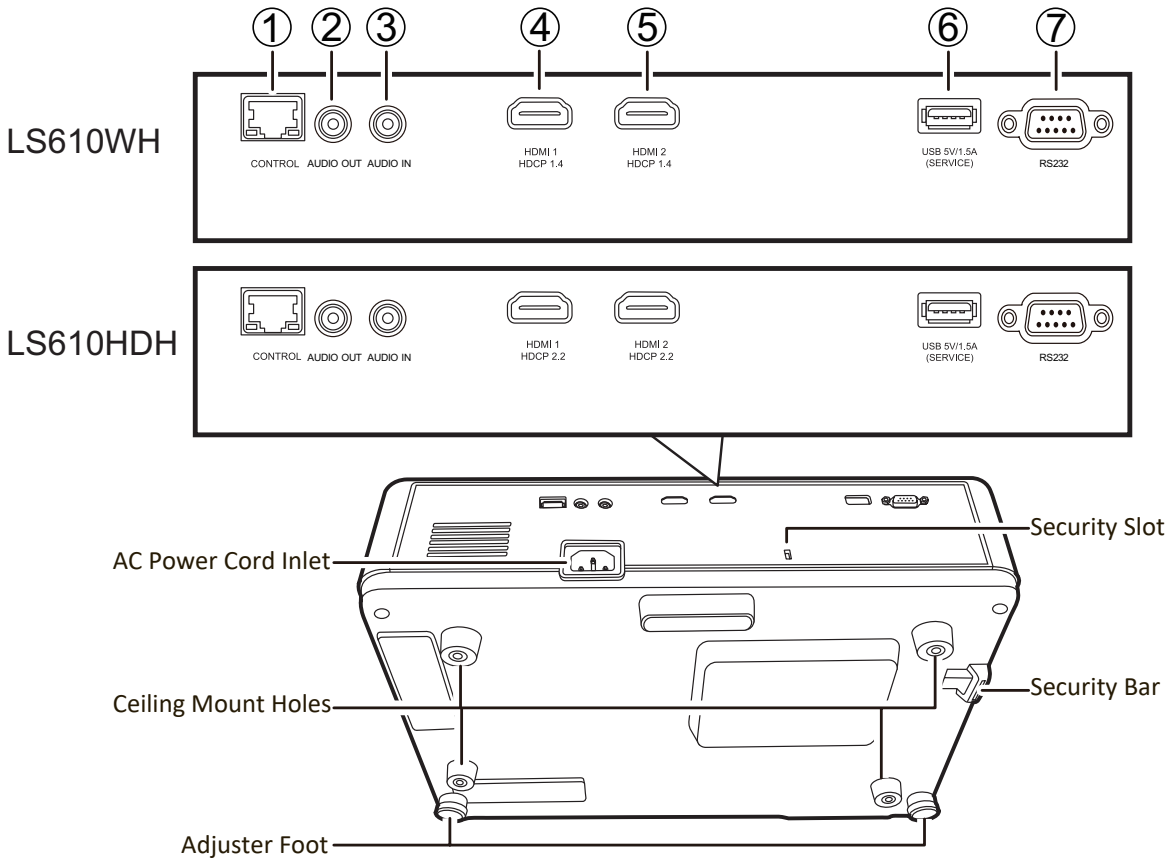
Projector

Controls and Functions



Key	Description
[⏻] Power	Toggles the projector between standby mode and Power On.
[◀/▶/▲/▼] Keystone Keys	Manually corrects distorted images resulting from an angled projection.
[◀/▶/▲/▼] Left/Right/Up/Down	Selects the desired menu items and makes adjustments when the On-Screen Display (OSD) Menu is activated.
Menu/Exit	Turns on or off the On-Screen Display (OSD) Menu.
Source	Displays the input source selection bar.
❓ (Help)	Displays the HELP menu.
Blank	Hides the screen picture.
Enter	Enacts the selected On-Screen Display (OSD) Menu item when the OSD Menu is activated.
[⏏] Corner Adjustment	Displays the Corner Adj. menu when the OSD menu is not activated.
Color Mode	Displays the color mode selection bar.

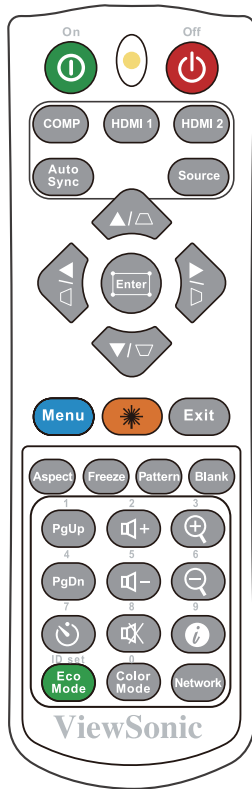
Connection Ports



Port	Description
[1] CONTROL	LAN port.
[2] AUDIO OUT	Audio signal output socket.
[3] AUDIO IN	Audio signal input socket.
[4] HDMI 1	HDMI port.
[5] HDMI 2	HDMI port.
[6] USB 5V/1.5A OUT (Service)	USB Type A port for power supply and service.
[7] RS232	RS232 control port.

Remote Control

Controls and Functions



Button	Description
Ⓜ On/Ⓜ Off	Toggles between standby mode and Power On.
COMP	No function.
HDMI 1	Selects the source from the HDMI 1 port for display.
HDMI 2	Selects the source from the HDMI 2 port for display.
Auto Sync	No function.
Source	Displays the source selection bar.
[⏏/⏏/⏏/⏏] Keystone Keys	Manually corrects distorted images resulting from an angled projection.
Enter	Enacts the selected OSD Menu item.
⏏ (Corner adjustment)	Displays the Corner Adj. menu when the OSD menu is not activated.
◀ Left/▶ Right ▲ Up/ ▼ Down	Selects the desired menu items and makes adjustments.

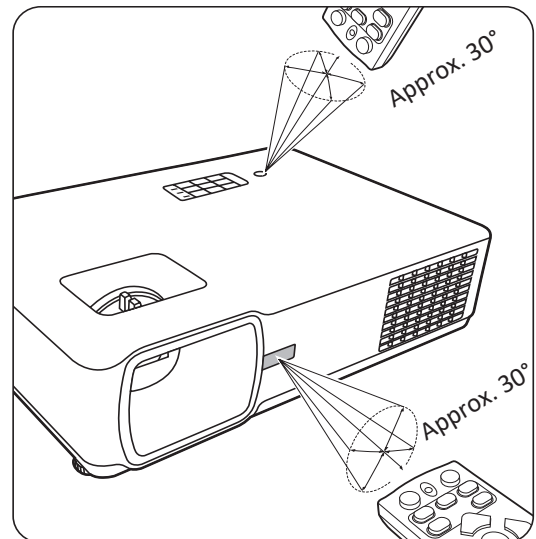
Button	Description
Menu	Turns on/off the On-Screen Display (OSD) Menu or goes back to previous OSD Menu.
☀ (Laser)	Emits visible laser pointer light for presentation purposes.
Exit	Exits and saves menu settings.
Aspect	Displays the aspect ratio selection bar.
Freeze	Freezes the projected image.
Pattern	Displays embedded test pattern.
Blank	Hides the screen picture.
PgUp (Page Up)/PgDn (Page Down)	Operates your display software program (on a connected PC) which responds to page up/down commands (like Microsoft PowerPoint). NOTE: Only available when a PC input signal is selected.
⌚ (Presentation Timer)	Displays the Presentation Timer menu.
Eco Mode	Selects the Eco mode.
🔊+ (Volume Up)	Increases the volume level.
🔊- (Volume Down)	Decreases the volume level.
🔇 (Mute)	Toggles audio between on and off.
Color Mode	Displays the color mode selection bar.
🔍+	Magnifies the projected picture size.
🔍-	Reduces the projected picture size.
ⓘ (INFORMATION)	Displays the INFORMATION menu.
Network	Displays the LAN Control Settings menu.

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).

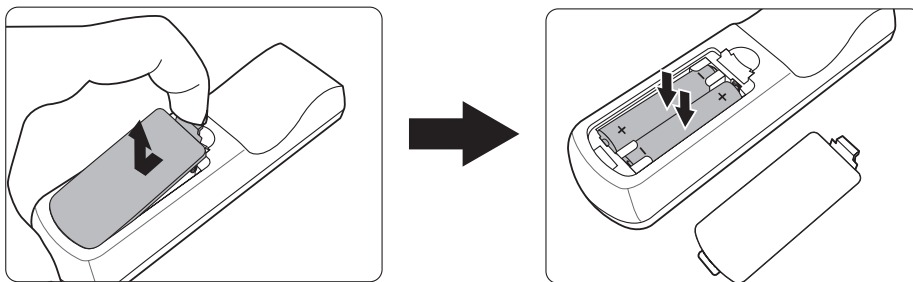


Replacing the Remote Control Batteries

1. Remove the battery cover from the rear of the remote control by pressing the finger grip and sliding it down.
2. Remove any existing batteries (if necessary) and install two AAA batteries.

NOTE: Observe the battery's polarities as indicated.

3. Replace the battery cover 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.
- Dispose of the used batteries according to the manufacturer's instructions and local environment regulations for your region.
- If the batteries are drained or if you will not be using the remote control for an extended period of time, remove the batteries to avoid damage to the remote control.

Initial Setup

This section provides detailed instructions for setting up your projector.

Choosing a Location

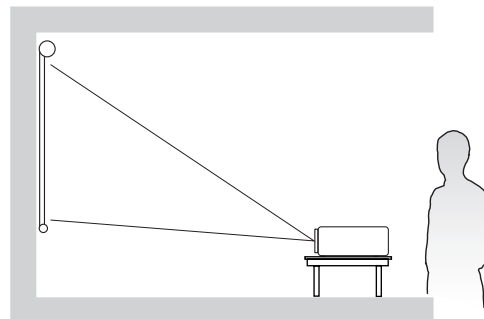
Personal preference and room layout will decide the installation location. Consider the following:

- 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:

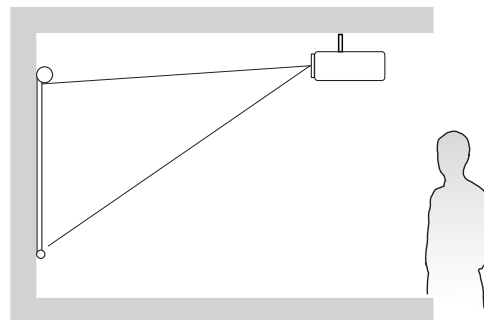
1. Front

The projector is placed near the floor in front of the screen.



2. Front Ceiling

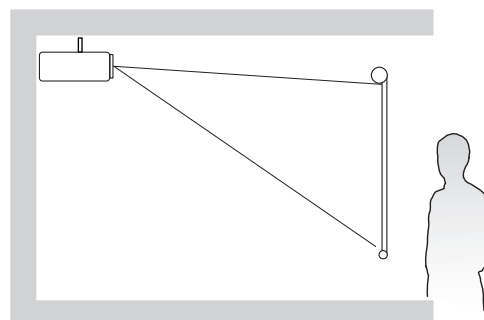
The projector is suspended upside-down from the ceiling in front of the screen.



3. Rear Ceiling

The projector is suspended upside-down from the ceiling behind the screen.

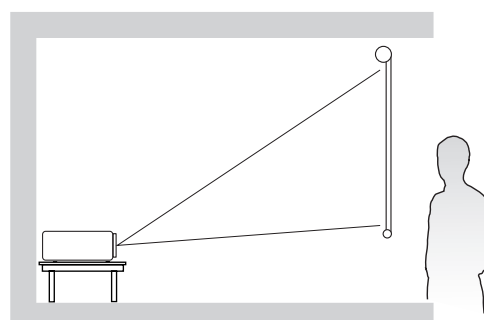
NOTE: A special rear projection screen is required.



4. Rear

The projector is placed near the floor behind the screen.

NOTE: A special rear projection screen is required.

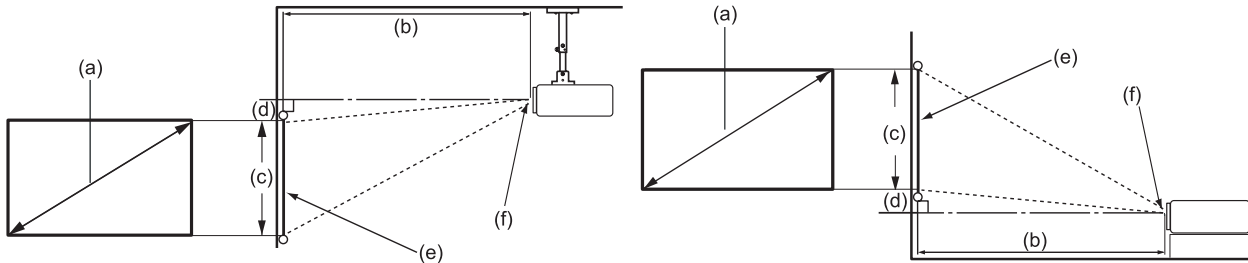


Projection Dimensions

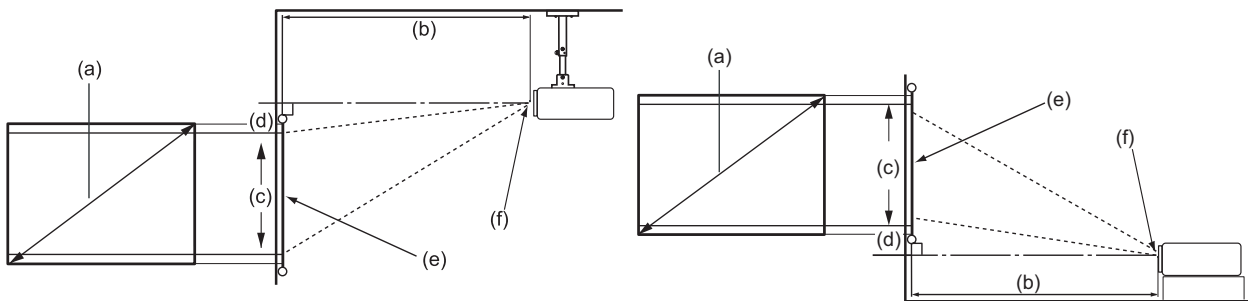
NOTE: See “Specifications” on page 58 for the native display resolution of this projector.

LS610WH

- **16:10 Image on a 16:10 Screen**



- **16:10 Image on a 4:3 Screen**



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

16:10 Image on a 16:10 Screen

(a) Screen Size		(b) Projection Distance				(c) Image Height		(d) Vertical Offset	
		minimum		maximum					
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
30	762	34.75	883	41.71	1059	15.90	404	-1.67	-42
40	1016	46.34	1177	55.61	1412	21.20	538	-2.23	-57
50	1270	57.92	1471	69.51	1766	26.50	673	-2.78	-71
60	1524	69.51	1766	83.41	2119	31.80	808	-3.34	-85
70	1778	81.09	2060	97.31	2472	37.10	942	-3.90	-99
80	2032	92.68	2354	111.21	2825	42.40	1077	-4.45	-113
90	2286	104.26	2648	125.12	3178	47.70	1212	-5.01	-127
100	2540	115.85	2943	139.02	3531	53.00	1346	-5.56	-141
120	3048	139.02	3531	166.82	4237	63.60	1615	-6.68	-170
150	3810	173.77	4414	208.53	5297	79.50	2019	-8.35	-212
200	5080	231.70	5885	278.03	7062	106.00	2692	-11.13	-283
250	6350	289.62	7356	347.54	8828	132.50	3365	-13.91	-353
300	7620	347.54	8828	417.05	10593	159.00	4039	-16.69	-424

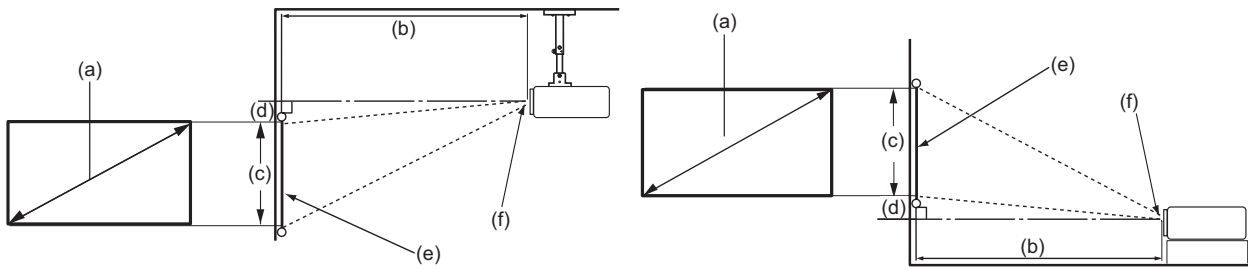
16:10 Image on a 4:3 Screen

(a) Screen Size		(b) Projection Distance				(c) Image Height		(d) Vertical Offset	
		minimum		maximum				maximum	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
30	762	32.79	833	39.34	999	15.00	381	-1.58	-40
40	1016	43.72	1110	52.46	1332	20.00	508	-2.10	-53
50	1270	54.65	1388	65.57	1666	25.00	635	-2.63	-67
60	1524	65.57	1666	78.69	1999	30.00	762	-3.15	-80
70	1778	76.50	1943	91.80	2332	35.00	889	-3.68	-93
80	2032	87.43	2221	104.92	2665	40.00	1016	-4.20	-107
90	2286	98.36	2498	118.03	2998	45.00	1143	-4.73	-120
100	2540	109.29	2776	131.15	3331	50.00	1270	-5.25	-133
120	3048	131.15	3331	157.38	3997	60.00	1524	-6.30	-160
150	3810	163.94	4164	196.72	4997	75.00	1905	-7.88	-200
200	5080	218.58	5552	262.30	6662	100.00	2540	-10.50	-267
250	6350	273.23	6940	327.87	8328	125.00	3175	-13.13	-333
300	7620	327.87	8328	393.45	9994	150.00	3810	-15.75	-400

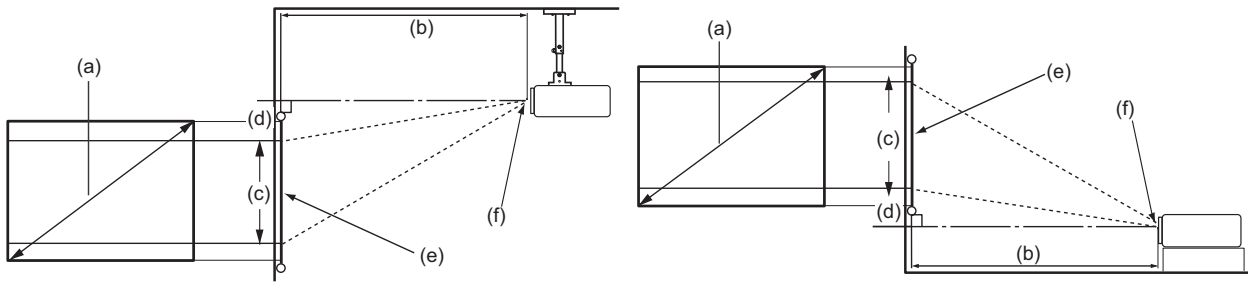
NOTE: It is recommended that if you intend to permanently install the projector, please physically test the projection size and distance using the actual projector in situ before you permanently install it.

LS610HDH

• 16:9 Image on a 16:9 Screen



• 16:9 Image on a 4:3 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		(d) Vertical Offset	
in.	mm	minimum		maximum		in.	mm	maximum	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
30	762	34.07	865	40.88	1038	14.71	374	-1.25	-32
40	1016	45.42	1154	54.50	1384	19.61	498	-1.67	-42
50	1270	56.78	1442	68.13	1731	24.51	623	-2.08	-53
60	1524	68.13	1731	81.76	2077	29.42	747	-2.50	-64
70	1778	79.49	2019	95.38	2423	34.32	872	-2.92	-74
80	2032	90.84	2307	109.01	2769	39.22	996	-3.33	-85
90	2286	102.20	2596	122.64	3115	44.12	1121	-3.75	-95
100	2540	113.55	2884	136.26	3461	49.03	1245	-4.17	-106
120	3048	136.26	3461	163.51	4153	58.83	1494	-5.00	-127
150	3810	170.33	4326	204.39	5192	73.54	1868	-6.25	-159
200	5080	227.10	5768	272.52	6922	98.05	2491	-8.33	-212
250	6350	283.88	7211	340.65	8653	122.57	3113	-10.42	-265
300	7620	340.65	8653	408.79	10383	147.08	3736	-12.50	-318

16:9 Image on a 4:3 Screen

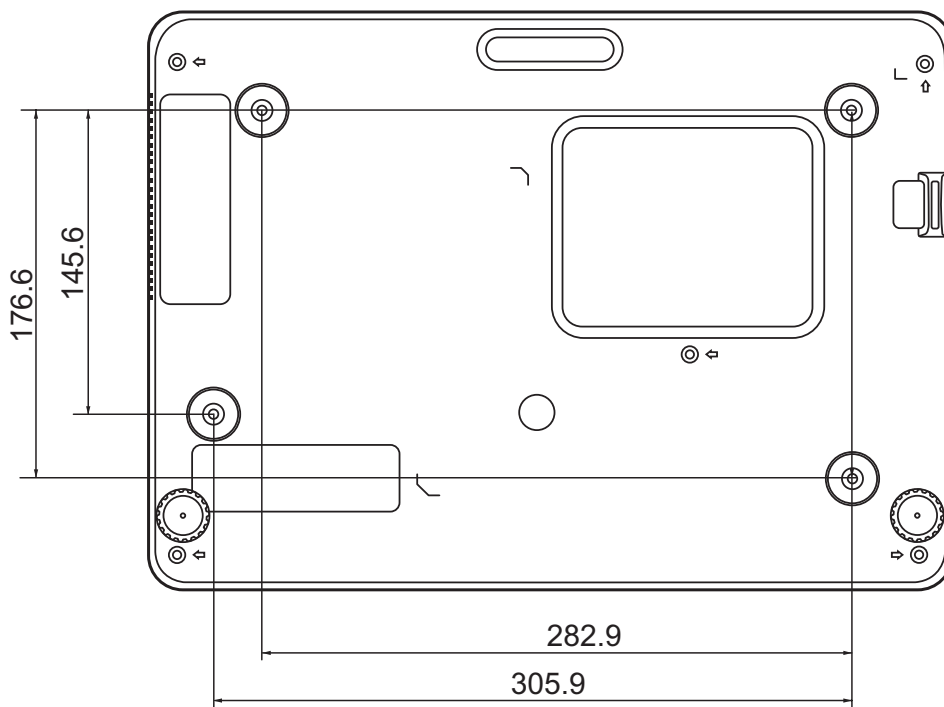
(a) Screen Size		(b) Projection Distance				(c) Image Height		(d) Vertical Offset	
		minimum		maximum				maximum	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
30	762	31.27	794	37.52	953	13.50	343	-1.15	-29
40	1016	41.69	1059	50.03	1271	18.00	457	-1.53	-39
50	1270	52.11	1324	62.54	1588	22.50	572	-1.91	-49
60	1524	62.54	1588	75.04	1906	27.00	686	-2.30	-58
70	1778	72.96	1853	87.55	2224	31.50	800	-2.68	-68
80	2032	83.38	2118	100.06	2541	36.00	914	-3.06	-78
90	2286	93.80	2383	112.56	2859	40.50	1029	-3.44	-87
100	2540	104.23	2647	125.07	3177	45.00	1143	-3.83	-97
120	3048	125.07	3177	150.09	3812	54.00	1372	-4.59	-117
150	3810	156.34	3971	187.61	4765	67.50	1715	-5.74	-146
200	5080	208.45	5295	250.14	6354	90.00	2286	-7.65	-194
250	6350	260.57	6618	312.68	7942	112.50	2858	-9.56	-243
300	7620	312.68	7942	375.22	9530	135.00	3429	-11.48	-291

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 in situ before you permanently install it.

Mounting the Projector

NOTE: If you buy a third-party mount, please use the correct screw size. Screw size can vary depending on the thickness of the mounting plate.

1. To ensure the most secure installation, please use a ViewSonic® wall or ceiling mount.
2. Ensure the screws used to attach a mount to the projector meet the following specifications:
 - Screw type: M4
 - Screw length: 12.8 mm ~ 15.8 mm



NOTE:

- Avoid installing the projector near a heat source.
- Keep at least a 10 cm gap between the ceiling and the bottom of the projector.

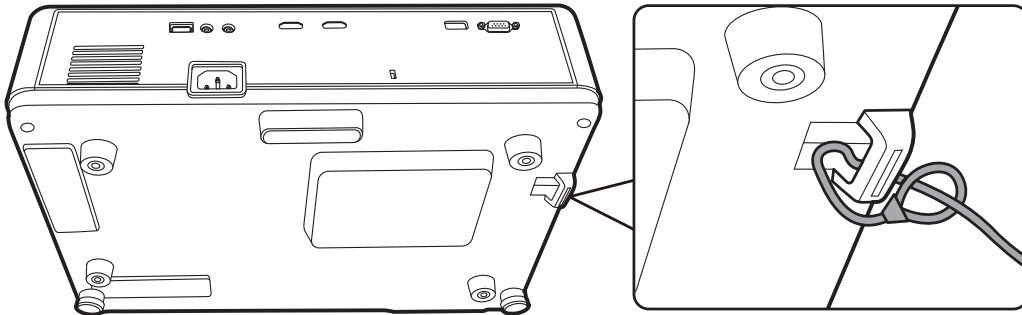
Preventing Unauthorized Use

The projector has several built-in security features to prevent theft, access, or accidental setting changes.

Using the Security Slot

To help prevent the projector from being stolen, use a security slot locking device to secure the projector to a fixed object.

Below is an example of setting up a security slot locking device:



NOTE: The security slot can also be used as a safety anchor if the projector is mounted to the ceiling.

Using the Password Function

To help prevent unauthorized access or use, the projector offers a password security option. The password can be set through the On-Screen Display (OSD) Menu.

NOTE: Make note of your password, and keep it in a safe place.

Setting a Password

1. Press **Menu** to open the OSD Menu and go to: **SYSTEM > Security Settings** and press **Enter**.
2. Highlight **Power On Lock** and select **On** by pressing **◀/▶**.
3. As pictured to the right, the four arrow keys (**▲**, **▶**, **▼**, **◀**) represent 4 digits (1, 2, 3, 4). Press the arrow keys to enter a six digit password.



4. Confirm the new password by re-entering the new password. Once the password is set, the OSD Menu will return to the Security Settings page.
5. Press **Exit** to leave the OSD Menu.

NOTE: Once set, the correct password must be entered every time the projector is started.

Changing the Password

1. Press **Menu** to open the OSD Menu and go to: **SYSTEM > Security Settings > Change Password**.
2. Press **Enter**, the message, 'INPUT CURRENT PASSWORD' will appear.
3. Enter the old password.
 - ^m If the password is correct, the message, 'INPUT NEW PASSWORD' will appear.
 - ^m If the password is incorrect, a password error message will appear for 5 seconds followed by the message, 'INPUT CURRENT PASSWORD'. You can try again or press **Exit** to cancel.
4. Enter a new password.
5. Confirm the new password by re-entering the new password.
6. To leave the OSD Menu, press **Exit**.

NOTE: The digits being input will display as asterisks (*).

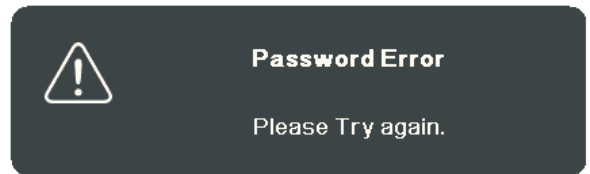
Disabling the Password Function

1. Press **Menu** to open the OSD Menu and go to: **SYSTEM > Security Settings > Power On Lock**.
2. Press ◀/▶ to select **Off**.
3. The message, "Input Password" will appear. Enter the current password.
 - ^m If the password is correct, the OSD Menu returns to the Password page with "**Off**" shown in the row of **Power On Lock**.
 - ^m If the password is incorrect, a password error message will appear for 5 seconds followed by the message, 'INPUT CURRENT PASSWORD'. You can try again or press **Exit** to cancel.

NOTE: Please keep the old password, as you will need it to reactivate the password function.

Forgetting the Password

If the password function is activated, you will be asked to enter the six-digit password every time you turn on the projector. If you enter the wrong password, the password error message, as pictured to the right, will appear for 5 seconds, and the message 'INPUT PASSWORD' follows.

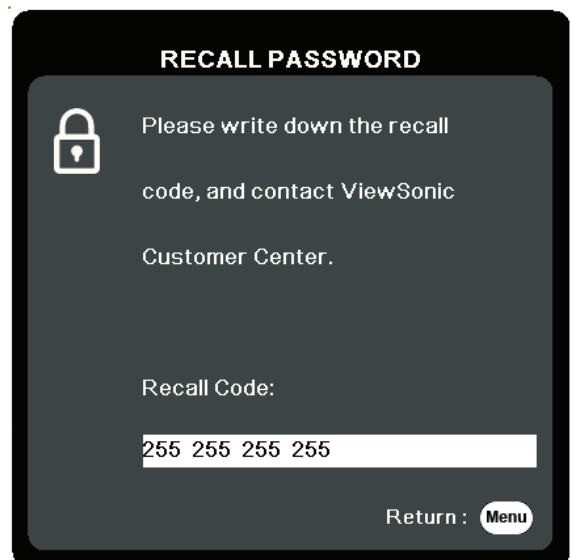


You can retry or if you do not remember, you can use the "Password Recall Procedure".

NOTE: If you enter an incorrect password 5 times in succession, the projector will automatically shut down for a short time.

Password Recall Procedure

1. When the message 'INPUT CURRENT PASSWORD' appears, press and hold **Auto Sync** for 3 seconds. The projector will display a coded number on the screen.
2. Write down the number and turn off your projector.
3. Seek help from the local service center to decode the number. You may be required to provide proof of purchase documentation to verify that you are an authorized user of the projector.



Locking the Control Keys

With the control keys on the projector locked, you can prevent your settings from being changed accidentally (by children, for example).

NOTE: When the **Panel Key Lock** is On, no control keys on the projector will operate except **Power**.

1. Press **Menu** to open the OSD Menu and go to: **SYSTEM > Panel Key Lock**.
2. Press **▲/▼** to select **On**.
3. Select **Yes** and press **Enter** to confirm.
4. To release panel key lock, press and hold **▶** on the projector for 3 seconds.

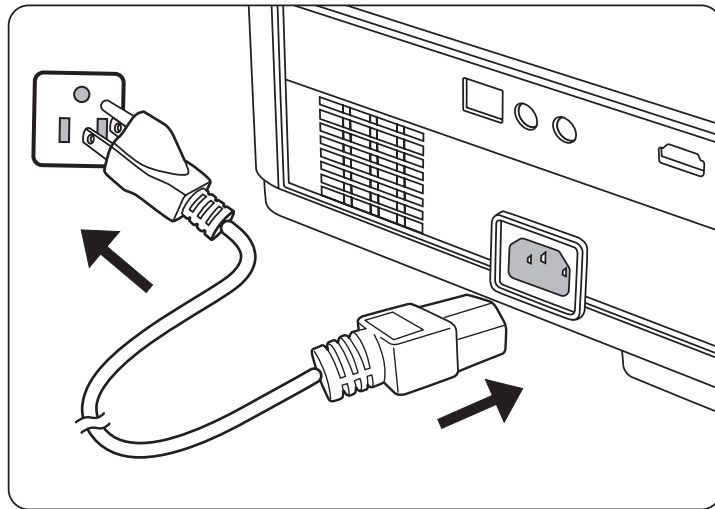
NOTE: You can also use the remote control to enter the **SYSTEM > Panel Key Lock** menu and select **Off**.

Making Connections

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

Connecting to Power

1. Connect the power cord to the AC IN jack at the rear of the projector.
2. Plug the power cord into a power outlet.



NOTE: When installing the projector, incorporate a readily accessible disconnect device in the fixed wiring, or connect the power plug to an easily accessible outlet near the unit. If a fault should occur during operation of the projector, use the disconnect device to switch off the power supply, or disconnect the power plug.

Connecting to Video/Computer Sources

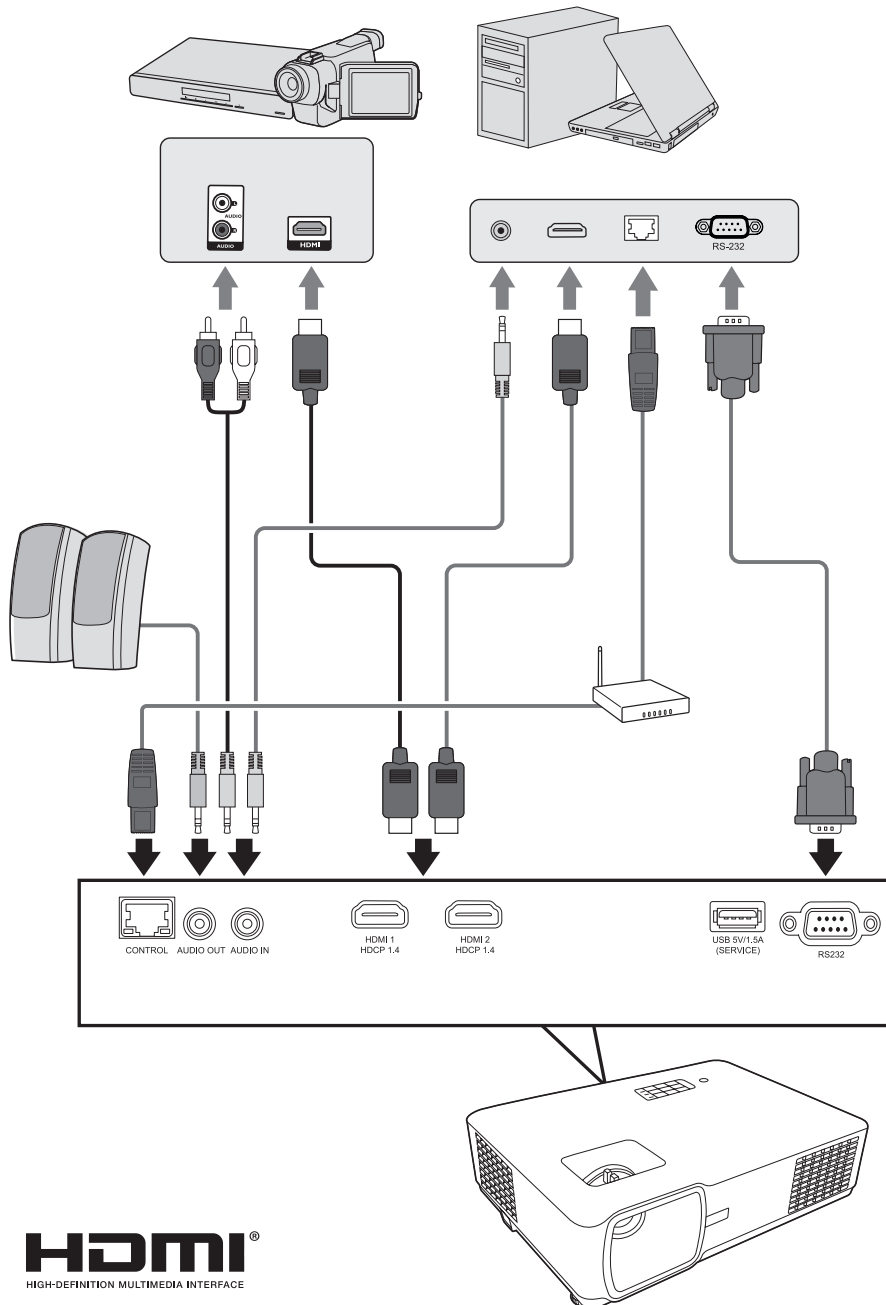
HDMI Connection

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 1** or **HDMI 2** port of your projector.

Connecting to Audio

The projector is equipped with speakers, however, you can also connect external speakers to the **AUDIO OUT** port of the projector.

NOTE: The audio output is controlled by the projector's **Volume** and **Mute** settings. The connection illustrations below are for reference only. The connecting jacks available on the projector vary with each projector model. Some cables may not be included with the projector. They are commercially available from electronics stores.



Operation

Turning the Projector On/Off

Starting Up the Projector

1. Press the **Power** button to turn on the projector.
2. The light source will light up, and a “**Power On/Off Ring Tone**” will play.
3. The Power Indicator Light stays green when the projector is On.

NOTE: To maintain light source life, once you turn the projector On, wait at least five (5) minutes before turning it off.

4. Turn on all of the connected equipment, i.e. notebook, and the projector will start to search for an input source.

NOTE: If the projector detects an input source, the source information will appear. If an input source is not detected, the message, ‘No Signal’ will appear.

First Time Activation

If the projector is activated for the first time, select your OSD language following the on-screen instructions.



Shutting Down the Projector

1. Press the **Power** or **Off** button and a confirmation message will appear to prompt you to press the **Power** or **Off** button a second time. Additionally you can press any other button to cancel.

NOTE: If you do not respond in a few seconds after the first press, the message will disappear.

2. Once the cooling process finishes, a **“Power On/Off Ring Tone”** will play.
3. Disconnect the power cord from the power outlet if the projector will not be used for an extended period of time.

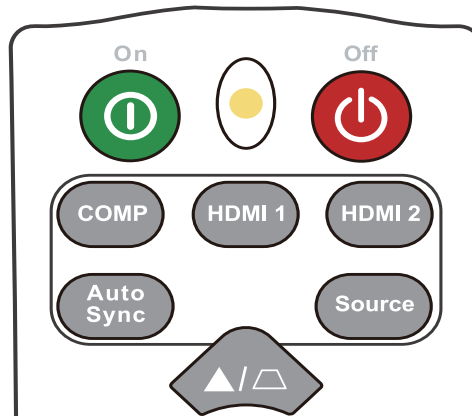
NOTE:

- To protect the light source, the projector will not respond to commands during the cooling process.
- Do not unplug the power cord before the projector completely shuts down.

Selecting an Input Source

The projector can be connected to multiple devices at the same time. However, it can only display one full screen at a time.

The **Input Source** can also be manually selected by pressing one of the source selection buttons on the remote control, or by cycling through the available input sources.



To manually select the input source do the following:

1. Press **Source**, and a source selection menu will appear.
2. Press ▲/▼ until your desired signal is selected and press **Enter**.
3. Once detected, the selected source information will be displayed on the screen for a few seconds.

NOTE: If there are multiple devices connected to the projector, repeat steps 1-2 to search for another source.

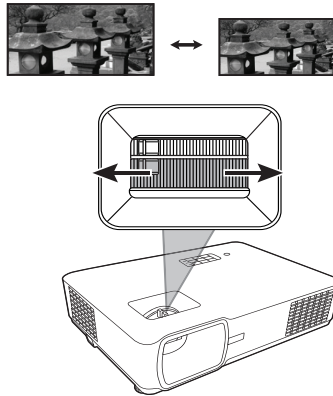
Adjusting the Projected Image

Adjusting the Projector's Height and Projection Angle

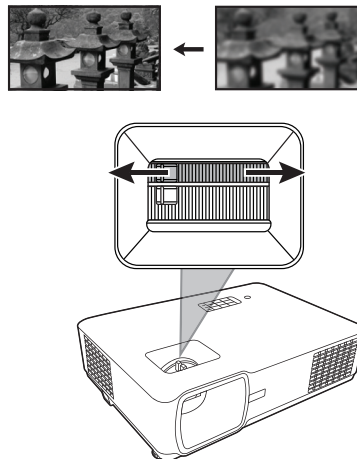
The projector is equipped with one (1) adjuster foot. Adjusting the foot will change the projector's height and the vertical projection angle. Carefully adjust the feet to fine tune the projected image's position.

Fine-Tuning the Image Size and Clarity

To adjust the projected image to the size that you need, rotate the Zoom Ring.







To improve the clarity of the image, rotate the Focus Ring.

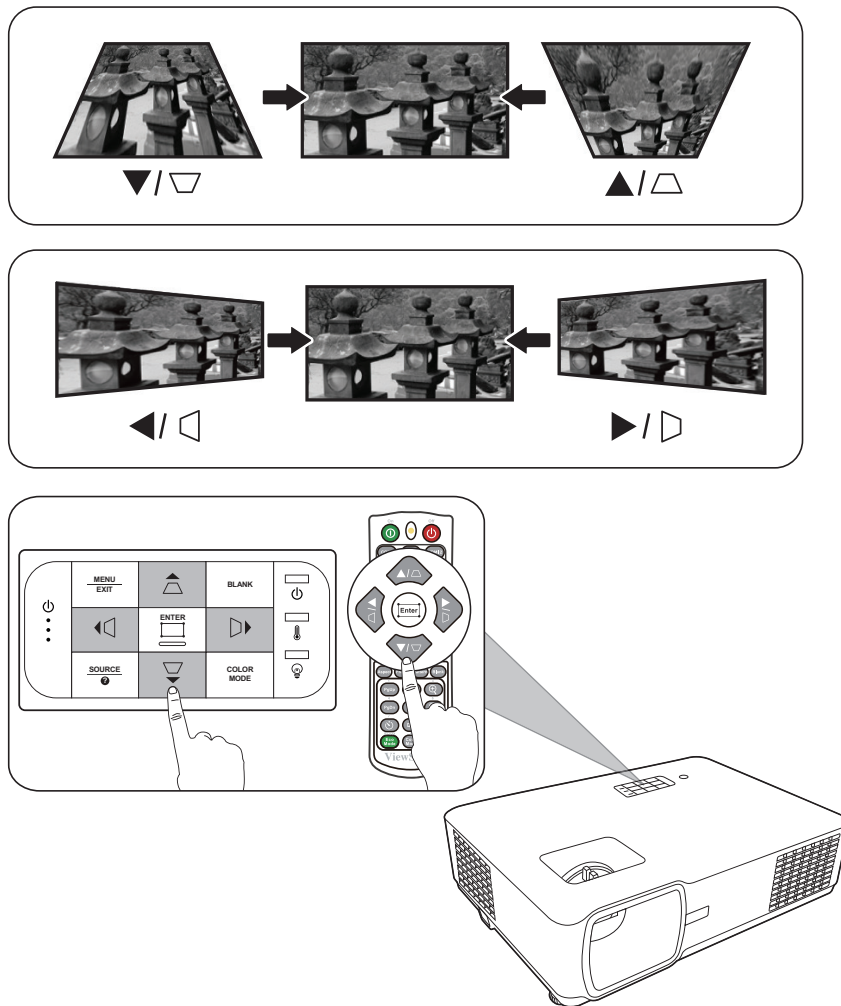


Correcting Keystone

Keystoning refers to the situation where the projected image becomes a trapezoid due to angled projection.

To correct this, besides adjusting the height of the projector, you may also:

1. Use the keystone keys on the projector or remote control to display the keystone page.
2. After the keystone page is displayed, press  to correct keystone at the top of the image. Press  to correct keystone at the bottom of the image. Press  to correct keystone at the right side of the image. Press  to correct keystone at the left side of the image.



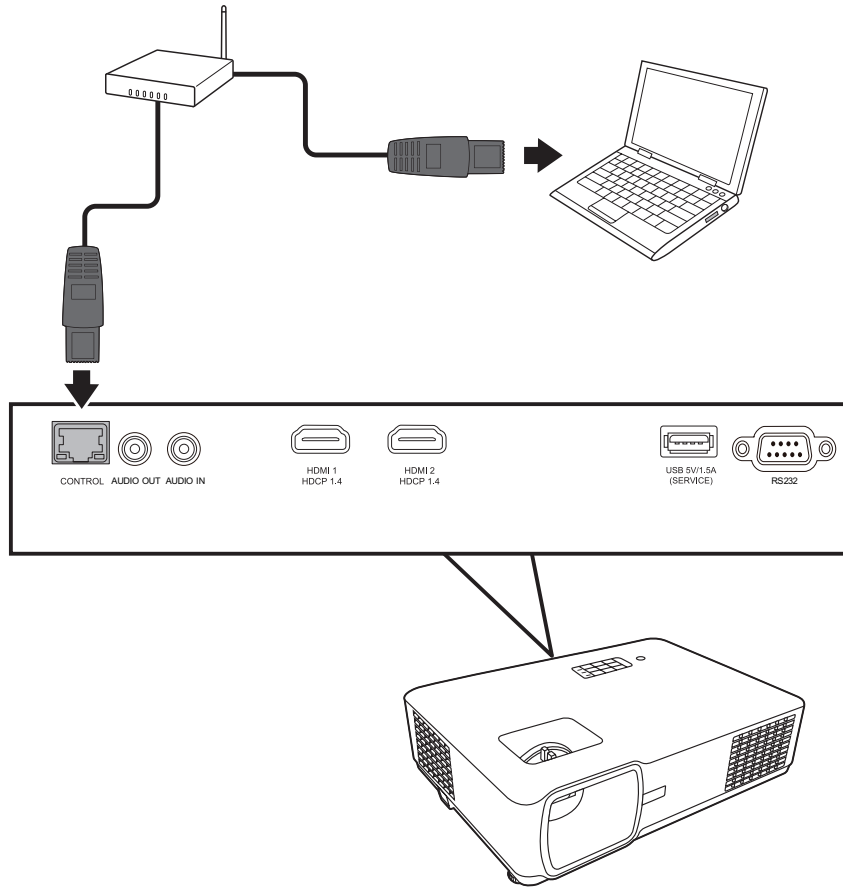
Hiding the Image

In order to draw the audience's full attention to the presenter, you can press **Blank** on the projector or remote control to hide the screen image. Press any key on the projector or remote control to restore the image.

CAUTION: Do not block the projection lens as this could cause the blocking object to become heated and deformed or even cause a fire.

Controlling the Projector through a LAN Environment

The projector supports Crestron® software. With correct settings for the LAN Control Settings menu, you can manage the projector from a computer using a web browser when the computer and the projector are properly connected to the same local area network.



Configuring the LAN Control Settings

- If you are in a DHCP environment:
 1. Take a RJ45 cable and connect one end to the RJ45 LAN input jack of the projector and the other end to the RJ45 port.
 2. Open the OSD menu and go to the **ADVANCED > LAN Control Settings** menu. Press **Enter** to display the **LAN Control Settings** page. Or you can press **Network** to open the **LAN Control Settings** menu directly.
 3. Highlight **LAN Settings** and press **◀/▶** to select **DHCP ON**.
 4. Press **▼** to highlight **Apply** and press **Enter**.
 5. Please wait for around 15 - 20 seconds, and then re-enter the **LAN Settings** page. The **Projector IP Address, Subnet Mask, Default Gateway, DNS Server** settings will be displayed. Make note of the IP address displayed in the **Projector IP Address** row.

NOTE:

- If the **Projector IP Address** still does not appear, contact your network administrator.
 - If the RJ45 cables are not properly connected, the **Projector IP Address, Subnet Mask, Default Gateway** and **DNS Server** settings will display 0.0.0.0. Make sure the cables are properly connected and perform the procedures above again.
 - If you need to connect to the projector in its standby mode, set **Standby LAN Control** to **On** in the **ADVANCED > LAN Control Settings** menu.
- If you are in a non-DHCP environment:
 1. Repeat steps 1-2 above.
 2. Highlight **LAN Settings** and press ◀/▶ to select **Static IP**.
 3. Contact your ITS administrator for information on the **Projector IP Address, Subnet Mask, Default Gateway, DNS Server** settings.
 4. Press to select the item you want to modify and press **Enter**.
 5. Press ◀/▶ to move the cursor and the press ▲/▼ to enter the value.
 6. To save the settings, press **Enter**. If you do not want to save the settings, press **Exit**.
 7. Press ▼ to highlight **Apply** and press **Enter**.

NOTE:

- If the RJ45 cables are not properly connected, the **Projector IP Address, Subnet Mask, Default Gateway, DNS Server** settings will display 0.0.0.0. Make sure the cables are properly connected and perform the procedures above again.
- If you wish to connect to the projector in its standby mode, be sure you have selected **Static IP** and obtained the **Projector IP Address, Subnet Mask, Default Gateway** and **DNS Server** information when the projector is on.

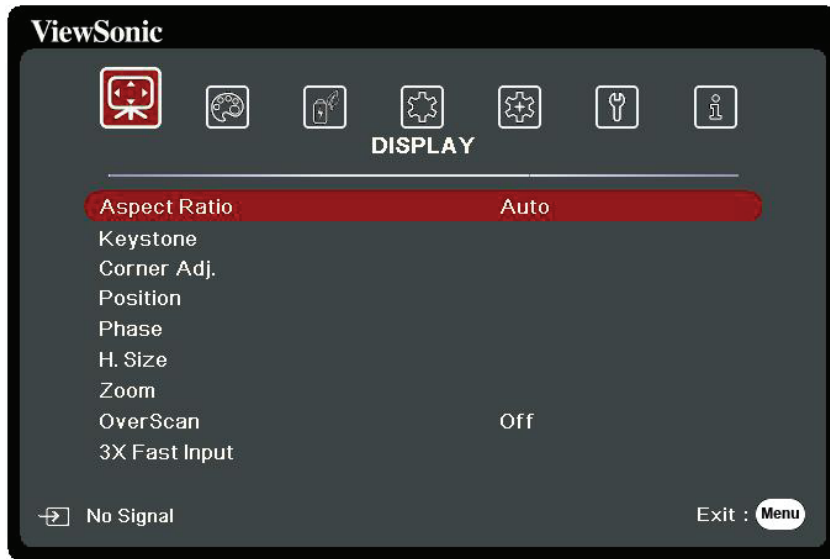
Menu Functions

This section will introduce the On-Screen Display (OSD) Menu and its options.

General On-Screen Display (OSD) Menu Operation

NOTE: The OSD screenshots in this manual are for reference only and may differ from the actual design. Some of the following OSD settings may not be available. Please refer to the actual OSD of your projector.

The projector is equipped with an On-Screen Display (OSD) Menu for making various adjustments. It can be accessed by pressing **Menu** on the projector or remote control.



1. Press ◀/▶ to select a main menu. Then press **Enter** or use ▲/▼ to access the sub-menu list.
2. Press ▲/▼ to select the menu option. Then press **Enter** to display its sub-menu, or press ◀/▶ to adjust/select the setting.

NOTE: Some sub-menu options may have another sub-menu. To enter the respective sub-menu, press **Enter**. Use ▲/▼ or ◀/▶ to adjust/select the setting.

On-Screen Display (OSD) Menu Tree

Main Menu	Sub-menu	Menu Option	
DISPLAY	Aspect Ratio	Auto	
		4:3	
		16:9	
		16:10	
		Native	
	Keystone	Vertical	-40~40
		Horizontal	
	Corner Adj.	Top-Right	45°/90°
		Top-Left	
		Bottom-Right	
		Bottom-Left	
	Zoom	0.8X ~2.0X	
	OverScan	Off/1/2/3/4/5	
3X Fast Input	Inactive		
	Active		
IMAGE	Color Mode	Brightest	
		Presentation	
		Standard	
		Photo	
		Movie	
		User 1	
		User 2	
	Brightness	0~100	
	Contrast	-50~50	

Main Menu	Sub-menu	Menu Option		
IMAGE	Color Temp.	9300K/7500K/6500K		
		Red Gain	0~100	
		Green Gain	0~100	
		Blue Gain	0~100	
		Red Offset	-50~+50	
		Green Offset	-50~+50	
		Blue Offset	-50~+50	
	Advanced	Color	-50~50	
		Sharpness	0~31	
		Gamma	1.8/2.0/2.2/2.35/ 2.5/Cubic/sRGB	
		Color Management	Primary Color	
			Hue	
	Saturation			
	Gain			
	Reset Color Settings	Reset		
Cancel				
POWER MANAGEMENT	Auto Power On	Signal	Disable/HDMI	
		CEC	Disable/Enable	
		Direct Power On	Disable/Enable	
	Smart Energy	Auto Power Off	Disable/10 min/20 min/30 min	
		Sleep Timer	Disable/30 min/1 hr/2hr/3 hr/4 hr/ 8 hr/12 hr	
		Power Saving	Disable/Enable	
	Standby Settings	Audio Pass Through	Off/On	
	USB A Power	On		
		Off		

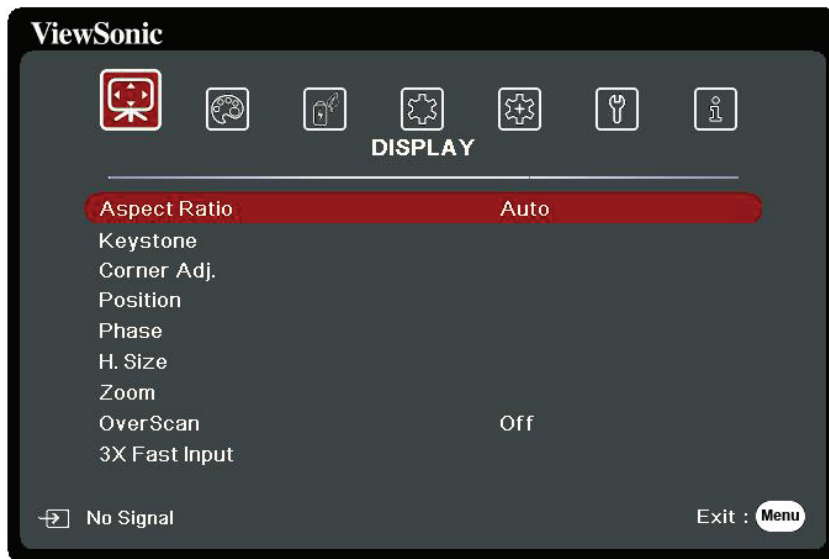
Main Menu	Sub-menu	Menu Option				
BASIC	Audio Settings	Mute	Off/On			
		Audio Volume	0~20			
		Power On/Off Ring Tone	On/Off			
	Presentation Timer	Timer Period	1~240 m			
		Timer Display	Always/1 min/2 min/3 min/Never			
		Timer Position	Top-Left/Bottom-Left/Top-Right/Bottom-Right			
		Timer Counting Direction	Count Down/Count Up			
		Sound Reminder	On/Off			
		Start Counting/Off				
	Pattern	Off				
		Test Card				
	Blank Timer	Disable/5 min/10 min/15 min/20 min/25 min/30 min				
	Message	On				
		Off				
	Splash Screen	Black				
		Blue				
		ViewSonic				
	ADVANCED	HDR (only for LS610HDH)				
			EOTF	Low/Mid/High		
		3D Settings	3D Format	Auto		
Off						
Frame Sequential						
Frame Packing						
Top-Bottom						
Side-by-Side						
3D Sync Invert			Disable/Invert			
Save 3D Settings		Yes/No				
HDMI Settings	HDMI Format	Auto/RGB/YUV				
	HDMI Range	Auto/Enhanced/Normal				

Main Menu	Sub-menu	Menu Option		
ADVANCED	LAN Control Settings	LAN Settings	DHCP ON/Static IP	
		Projector IP Address		
		Subnet Mask		
		Default Gateway		
		DNS Server		
		Standby LAN Control	Off/On	
		Apply		
	Light Source Settings	Light Source Mode	Normal/Eco/ Dynamic Black 1/ Dynamic Black 2	
		Reset Light Source Hours	Reset/Cancel	
		Light Source Hours Information	Light Source Usage Time	
			Normal	
			Eco	
			Dynamic Black 1	
	Dynamic Black 2			
	Reset Settings	Reset		
		Cancel		

Main Menu	Sub-menu	Menu Option		
SYSTEM	Language	Multi-Language OSD Selection		
	Projector Position	Front Table		
		Rear Table		
		Rear Ceiling		
		Front Ceiling		
	Menu Settings	Menu Display Time	5 sec/10 sec/15 sec/20 sec/25 sec/30 sec	
		Menu Position	Center/Top-Left/Top-Right/Bottom-Left/Bottom-Right	
	High Altitude Mode	Off		
		On		
	Security Settings	Change Password		
		Power On Lock		Off/On
	Panel Key Lock	Off		
		On		
	Remote Control Code	1/2/3/4/5/6/7/8		
	Control Method	RS232		
USB				
Baud Rate	2400/4800/9600/14400/19200/38400/57600/115200			
INFORMATION	Source			
	Color Mode			
	Resolution			
	Color System			
	IP address			
	MAC address			
	Firmware Version			
	3X Fast Input			
	S/N			

DISPLAY Menu

1. Press the **Menu** button to display the On-Screen Display (OSD) Menu.
2. Press ◀/▶ to select the **DISPLAY** menu. Then press **Enter** or use ▲/▼ to access the **DISPLAY** menu.



3. Press ▲/▼ to select the menu option. Then press **Enter** to display its sub-menu, or press ◀/▶ to adjust/select the setting.

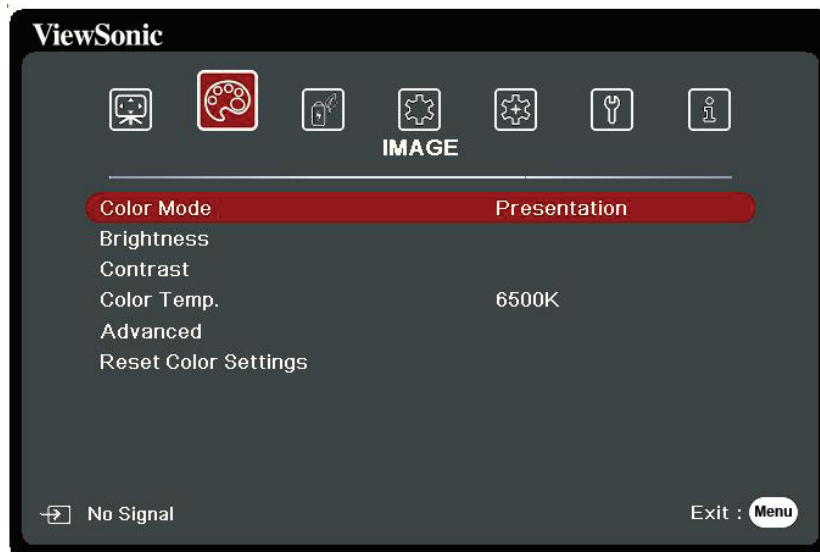
NOTE: Some sub-menu options may have another sub-menu. To enter the respective sub-menu, press **Enter**. Use ▲/▼ or ◀/▶ to adjust/select the setting.

Menu Option	Description
Aspect Ratio	<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 in 4:3 nor 16:9 and you want to make 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, as it displays them without aspect alteration.</p> <p><u>16:10</u> Scales an image so that it is displayed in the center of the screen with a 16:10 aspect ratio. This is most suitable for images which are already in a 16:10 aspect, as it displays them without aspect alteration.</p> <p><u>Native</u> Projects an image as its original resolution and resizes it to fit within the display area. For input signals with lower resolutions, the projected image will be displayed in its original size.</p>
Keystone	Adjusts the keystone situation where the projected image becomes a trapezoid due to angled projection.
Corner Adj.	Adjusts the shape and size of an image that is unevenly rectangular on all sides.
Zoom	Magnifies the projected image and allows you to navigate the image.
OverScan	<p>Adjusts the overscan rate from 0% to 5%.</p> <p>NOTE: This function is only available when a Composite Video or HDMI input signal is selected.</p>

Menu Option	Description
3X Fast Input	<p>This function is favorable to frame rate reducing. Quick response time in native timing can be achieved. When enabled, the following settings will return to factory preset values: Keystone, Corner Adj., Aspect Ratio, OverScan, Zoom.</p> <p>NOTE: This function is only available when a native timing input signal is selected.</p>







IMAGE Menu

1. Press the **Menu** button to display the On-Screen Display (OSD) Menu.
2. Press ◀/▶ to select the **IMAGE** menu. Then press **Enter** or use ▲/▼ to access the **IMAGE** menu.



3. Press ▲/▼ to select the menu option. Then press **Enter** to display its sub-menu, or press ◀/▶ to adjust/select the setting.

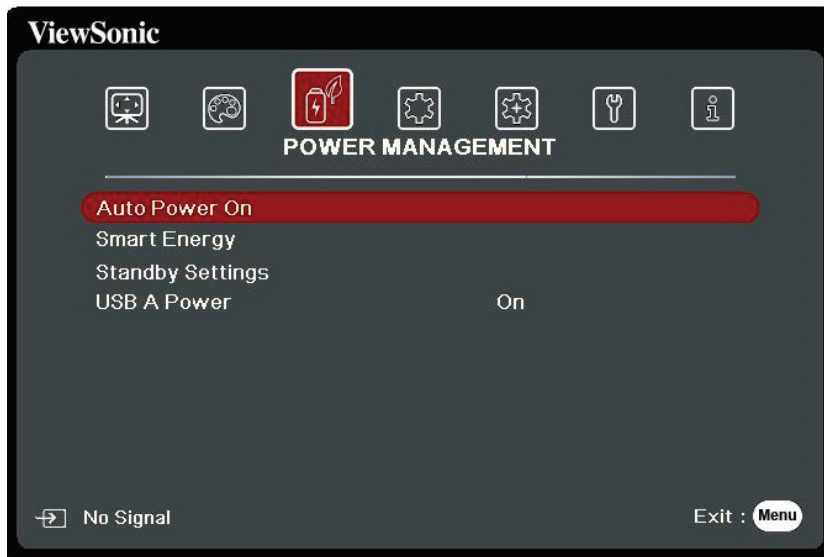
NOTE: Some sub-menu options may have another sub-menu. To enter the respective sub-menu, press **Enter**. Use ▲/▼ or ◀/▶ to adjust/select the setting.

Menu Option	Description
Color Mode	<p><u>Brightest</u> Maximizes the brightness of the projected image. This mode is suitable for environments where extra-high brightness is required, such as using the projector in well lit rooms.</p> <p><u>Presentation</u> Designed for presentations under daylight environment to match PC and notebook coloring.</p> <p><u>Standard</u> Designed for normal circumstances in a daylight environment.</p> <p><u>Photo</u> Designed for photo viewing.</p> <p><u>Movie</u> For playing colorful movies, video clips from digital cameras or DVs through the PC input for best viewing in a blackened (little light) environment.</p> <p><u>User 1/User 2</u> Recalls the customized settings. After User 1/User 2 is selected, some of the sub-menus under the IMAGE menu can be adjusted, according to your selected input source.</p>
Brightness	<p>The higher the value, the brighter the image. Adjust this option so the black areas of the image appear just as black and details in the dark area are more visible.</p> <div style="display: flex; justify-content: space-around; align-items: flex-end;">    </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 5px;"> <div style="text-align: center;">-30</div> <div style="text-align: center;">50</div> <div style="text-align: center;">+80</div> </div>
Contrast	<p>Use this to set the peak white level after you have previously adjusted the Brightness setting.</p> <div style="display: flex; justify-content: space-around; align-items: flex-end;">    </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 5px;"> <div style="text-align: center;">-30</div> <div style="text-align: center;">0</div> <div style="text-align: center;">+40</div> </div>

Menu Option	Description
Color Temp.	<p><u>9300K</u> Images appear bluish white.</p> <p><u>7500K</u> Images maintain a normal white appearance.</p> <p><u>6500K</u> Images appear reddish white.</p> <p>To set a custom color temperature, you can further adjust the following items:</p> <p><u>Red Gain/Green Gain/Blue Gain</u> Adjusts the Contrast levels of Red, Green, and Blue.</p> <p><u>Red Offset/Green Offset/Blue Offset</u> Adjusts the Brightness levels of Red, Green, and Blue.</p>
Advanced	<p><u>Color</u> A lower setting produces less saturated colors. If the setting is too high, colors will be overpowering and may appear unrealistic.</p> <p><u>Sharpness</u> A higher value will sharpen the image, while a lower value will soften the image.</p> <p><u>Gamma</u> Gamma refers to the brightness level of the projector's grayscale levels.</p> <p><u>Color Management</u> Only in permanent installations with controlled lighting levels such as boardrooms, lecture theaters, or home theaters, should color management be considered. Color management provides fine color control adjustment to allow for more accurate color reproduction. Select Primary Color first and adjust its range/values in Hue, Saturation and Gain.</p>
Reset Color Settings	Returns current image settings to the factory preset values.

POWER MANAGEMENT Menu

1. Press the **Menu** button to display the On-Screen Display (OSD) Menu.
2. Press ◀/▶ to select the **POWER MANAGEMENT** menu. Then press **Enter** or use ▲/▼ to access the **POWER MANAGEMENT** menu.



3. Press ▲/▼ to select the menu option. Then press **Enter** to display its sub-menu, or press ◀/▶ to adjust/select the setting.

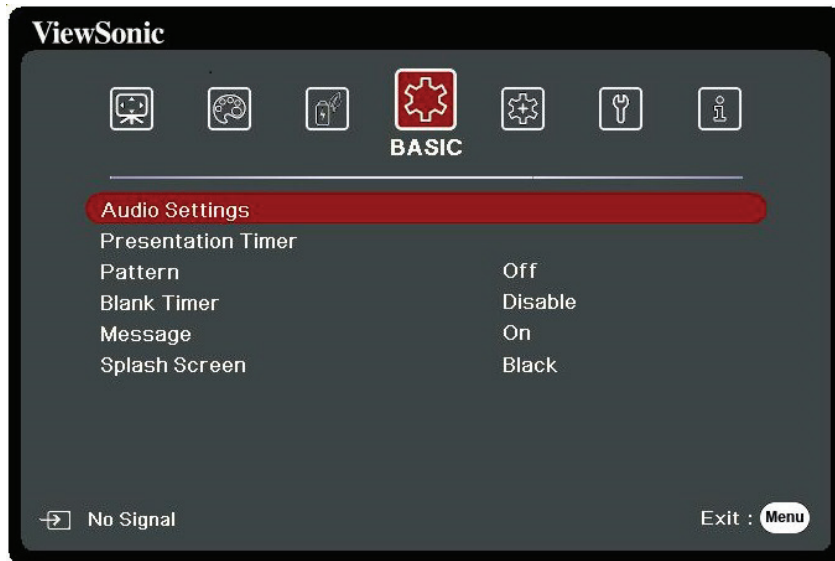
NOTE: Some sub-menu options may have another sub-menu. To enter the respective sub-menu, press **Enter**. Use ▲/▼ or ◀/▶ to adjust/select the setting.

Menu Option	Description
Auto Power On	<p><u>Signal</u> Selecting HDMI allows the projector to turn on automatically once the HDMI signal is fed through the HDMI cable.</p> <p><u>CEC</u> This projector supports CEC (Consumer Electronics Control) function for synchronized power on/off operation via HDMI connection. That is, if a device that also supports CEC function is connected to the HDMI input of the projector, when the projector's power is turned off, the power of the connected device will also be turned off automatically. When the power of the connected device is turned on, the projector's power will be turned on automatically.</p> <p>NOTE:</p> <ul style="list-style-type: none"> • In order for the CEC function to work properly, make sure that the device is correctly connected to the HDMI input of the projector via an HDMI cable, and its CEC function is turned on. • Depending on the connected device, the CEC function may not work. <p><u>Direct Power On</u> Allows the projector to turn on automatically once power is fed through the power cord.</p>
Smart Energy	<p><u>Auto Power Off</u> Allows the projector to turn off automatically after a set period of time once no input source is detected to prevent unnecessary waste of light source life.</p> <p><u>Sleep Timer</u> Allows the projector to turn off automatically after a set period of time to prevent unnecessary waste of light source life.</p> <p><u>Power Saving</u> Lowers power consumption if no input source is detected. When Enable is selected, the projector will change to power saving mode after no signal is detected for five (5) minutes. This will also help prevent any unnecessary waste of light source life.</p>
Standby Settings	<p>The functions below are available in standby mode (plugged in, but not turned on).</p> <p><u>Audio Pass Through</u> When selecting On, the projector outputs an audio signal when the Audio In and Audio Out sockets are correctly connected to a proper device.</p>

Menu Option	Description
USB A Power	When On, the USB Type A port can supply power, and the Control Method will automatically switch to RS232.

BASIC Menu

1. Press the **Menu** button to display the On-Screen Display (OSD) Menu.
2. Press ◀/▶ to select the **BASIC** menu. Then press **Enter** or use ▲/▼ to access the **BASIC** menu.



3. Press ▲/▼ to select the menu option. Then press **Enter** to display its sub-menu, or press ◀/▶ to adjust/select the setting.

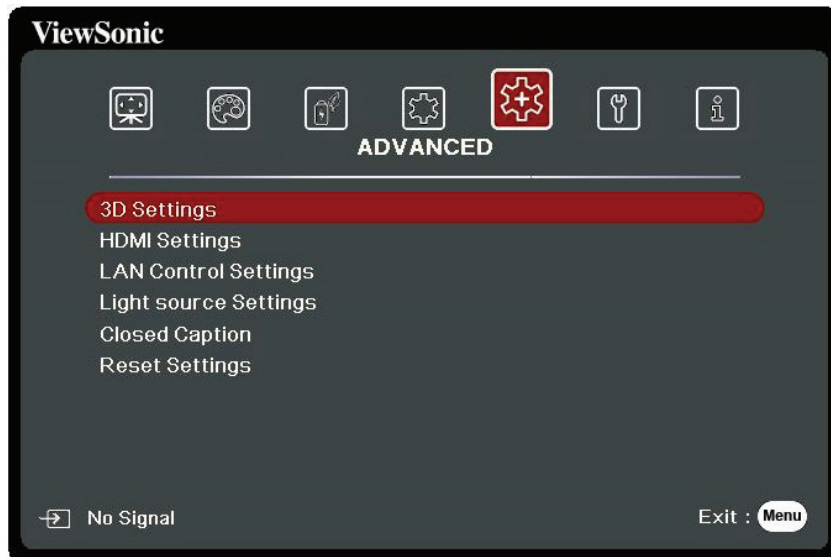
NOTE: Some sub-menu options may have another sub-menu. To enter the respective sub-menu, press **Enter**. Use ▲/▼ or ◀/▶ to adjust/select the setting.

Menu Option	Description
Audio Settings	<p><u>Mute</u> Select On to temporarily turn off the projector's internal speaker or the volume being output from the audio output jack.</p> <p><u>Audio Volume</u> Adjusts the volume level of the projector's internal speaker or the volume being output from the audio output jack.</p> <p><u>Power On/Off Ring Tone</u> Turns on/off the ring tone during the starting up and shutting down process.</p>
Presentation Timer	<p>Presentation timer can indicate the presentation time on the screen to help you achieve better time management when giving presentations.</p> <p><u>Timer Period</u> Sets the time period. If the timer is already on, the timer will restart whenever the Timer Period is reset.</p> <p><u>Timer Display</u> Allows you to decide if you want the timer to show up on the screen for one of the following time periods:</p> <ul style="list-style-type: none"> ^m Always: Displays the timer on screen throughout the presentation time. ^m 1 min/2 min/3 min: Displays the timer on screen in the last 1/2/3 minute(s). ^m Never: Hides the timer throughout the presentation time. <p><u>Timer Position</u> Sets the timer position.</p> <p><u>Timer Counting Direction</u> Sets your desired counting direction between:</p> <ul style="list-style-type: none"> ^m Count Down: Decreases from the preset time to 0. ^m Count Up: Increases from 0 to the preset time. <p><u>Sound Reminder</u> Allows you to decide if you want to activate a sound reminder. Once enabled, a double beep sound will be heard at the last 30 seconds of counting down/up, and a triple beep sound will be produced when the timer is up.</p> <p><u>Start Counting/Off</u> Select Start Counting to activate the timer. Select Off to cancel it.</p>

Menu Option	Description
Pattern	Helps adjust the image size and focus, and checks for distortion in the projected image.
Blank Timer	<p>Allows the projector to return the image automatically after a period of time when there is no action taken on the blank screen. To display the blank screen, press Blank on the projector or remote control.</p> <p>NOTE: Do not block the projection lens as this could cause the blocking object to become heated and deformed or even cause a fire.</p>
Message	Sets reminder messages, i.e. “Blank” message, On or Off.
Splash Screen	Selects which logo screen will appear during projector start-up.

ADVANCED Menu

1. Press the **Menu** button to display the On-Screen Display (OSD) Menu.
2. Press ◀/▶ to select the **ADVANCED** menu. Then press **Enter** or use ▲/▼ to access the **ADVANCED** menu.



3. Press ▲/▼ to select the menu option. Then press **Enter** to display its sub-menu, or press ◀/▶ to adjust/select the setting.

NOTE: Some sub-menu options may have another sub-menu. To enter the respective sub-menu, press **Enter**. Use ▲/▼ or ◀/▶ to adjust/select the setting.

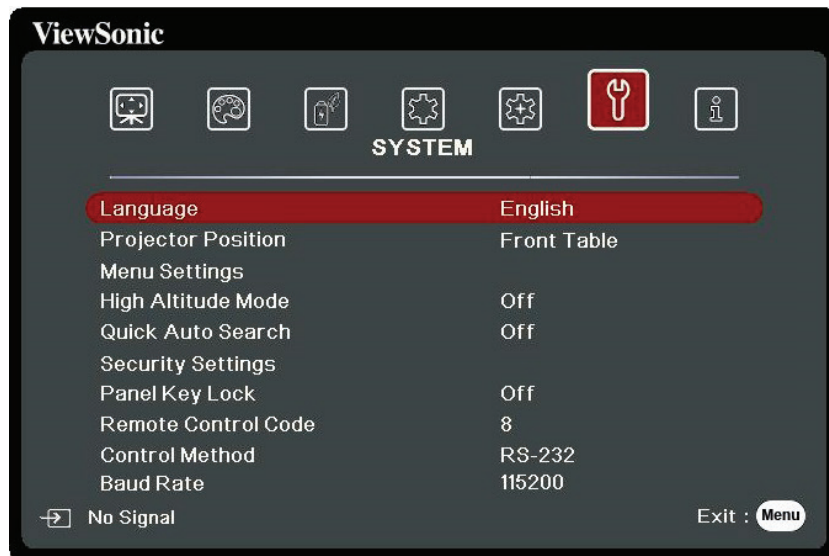
Menu Option	Description
<p>HDR (only for LS610HDH)</p>	<p><u>HDR</u> The projector supports HDR/HLG imaging sources. It can automatically detect the dynamic range of the source, and optimize image gamma and color settings to reproduce contents under wide range of light conditions. You also select SDR.</p> <p><u>EOTF</u> The projector can automatically adjust the brightness levels of your image according to the input source. Normally, the default setting “Mid” is recommended. If the brightness of the projected image is dark, please use “Low”. When giving priority to gradation property, please use “High”.</p>
<p>3D Settings</p>	<p>This projector features a 3D function which enables you to enjoy 3D movies, videos, and sporting events in a more realistic way by presenting the depth of the images. You need to wear a pair of 3D glasses to view 3D images.</p> <p><u>3D Format</u> The default setting is Auto and the projector automatically chooses an appropriate 3D format when detecting 3D contents. If the projector cannot recognize the 3D format, choose a 3D mode.</p> <p><u>3D Sync Invert</u> When you discover the inversion of the image depth, enable this function to correct the problem.</p> <p><u>Save 3D Settings</u> Saves current 3D settings. 3D settings will automatically be applied if the same resolution and input source are selected.</p> <p>NOTE: When the 3D Sync function is on:</p> <ul style="list-style-type: none"> • The brightness level of the projected image will decrease. • The Color Mode, Light Source Mode, Zoom, and OverScan cannot be adjusted.

Menu Option	Description					
HDMI Settings	<p><u>HDMI Format</u> Select a suitable color space according to the color space setting of the output device connected.</p> <ul style="list-style-type: none"> ^m Auto: Sets the projector to detect the color space setting of the input signal automatically. ^m RGB: Sets the color space as RGB. ^m YUV: Sets the color space as YUV. <p><u>HDMI Range</u> Select a suitable HDMI color range according to the color range setting of the output device connected.</p> <ul style="list-style-type: none"> ^m Auto: Sets the projector to detect the HDMI range of the input signal automatically. ^m Enhanced: Sets the HDMI color range as 0 - 255. ^m Normal: Sets the HDMI color range as 16 - 235. 					
LAN Control Settings	<p><u>LAN Settings</u></p> <ul style="list-style-type: none"> ^m DHCP ON: Select this if you are in a DHCP environment and Projector IP Address, Subnet Mask, Default Gateway, DNS Server settings will be automatically retrieved. ^m Static IP: Select this if you are in a non-DHCP environment and make adjustments to below settings. <table border="1" data-bbox="499 1151 1468 1361"> <tr> <td data-bbox="499 1151 844 1196"><u>Projector IP Address</u></td> <td data-bbox="844 1151 1468 1361" rowspan="4">Only available when <u>LAN Settings</u> is set to Static IP. Use ◀/▶ to select a column and use ▲/▼ to adjust the value.</td> </tr> <tr> <td data-bbox="499 1196 844 1240"><u>Subnet Mask</u></td> </tr> <tr> <td data-bbox="499 1240 844 1285"><u>Default Gateway</u></td> </tr> <tr> <td data-bbox="499 1285 844 1330"><u>DNS Server</u></td> </tr> </table> <p><u>Standby LAN Control</u> Allows the projector to provide the network function in standby mode.</p> <p><u>Apply</u> Enacts the settings.</p>	<u>Projector IP Address</u>	Only available when <u>LAN Settings</u> is set to Static IP. Use ◀/▶ to select a column and use ▲/▼ to adjust the value.	<u>Subnet Mask</u>	<u>Default Gateway</u>	<u>DNS Server</u>
<u>Projector IP Address</u>	Only available when <u>LAN Settings</u> is set to Static IP. Use ◀/▶ to select a column and use ▲/▼ to adjust the value.					
<u>Subnet Mask</u>						
<u>Default Gateway</u>						
<u>DNS Server</u>						

Menu Option	Description
Light Source Settings	<p><u>Light Source Mode</u></p> <ul style="list-style-type: none"> ^m Normal: Provides full light source brightness. ^m Eco: Reduces light source power consumption by 30% and lowers brightness to decrease the fan noise. ^m Dynamic Black 1: Reduces light source power consumption by up to 70% depending on the content brightness level. ^m Dynamic Black 2: Reduces light source power consumption by up to 50% depending on the content brightness level. <p><u>Reset Light Source Hours</u></p> <p>Resets the light source timer after new light source is installed. For changing the light source, please contact qualified service personnel.</p> <p><u>Light Source Hours Information</u></p> <ul style="list-style-type: none"> ^m Light Source Usage Time: Displays the number of hours the light source has been used.
Reset Settings	<p>Returns all settings to the factory preset values. When using Reset Settings, the following settings will still remain: Language, Projector Position, High Altitude Mode, Security Settings, Remote Control Code, Zoom, Keystone, Control Method, USB A Power, Corner Adj. and Baud Rate, LAN Sttings, Light Source Hours Information.</p>

SYSTEM Menu

1. Press the **Menu** button to display the On-Screen Display (OSD) Menu.
2. Press ◀/▶ to select the **SYSTEM** menu. Then press **Enter** or use ▲/▼ to access the **SYSTEM** menu.



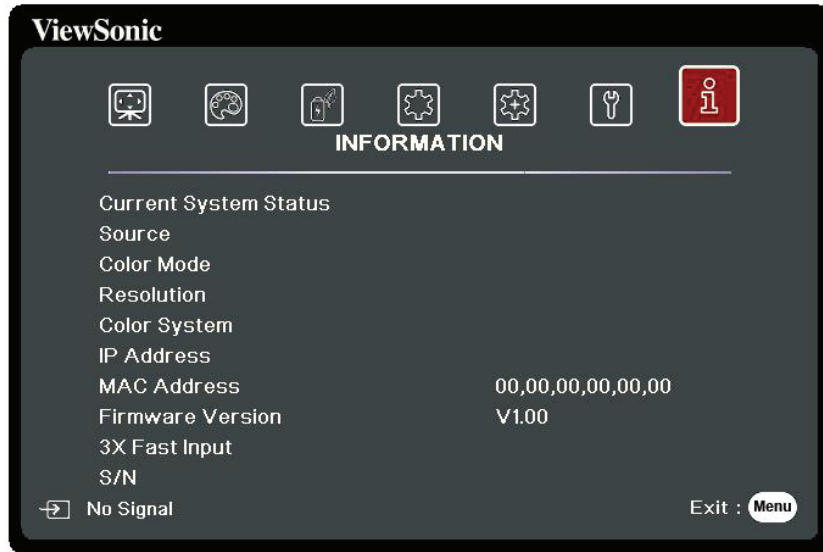
3. Press ▲/▼ to select the menu option. Then press **Enter** to display its sub-menu, or press ◀/▶ to adjust/select the setting.

NOTE: Some sub-menu options may have another sub-menu. To enter the respective sub-menu, press **Enter**. Use ▲/▼ or ◀/▶ to adjust/select the setting.

Menu Option	Description
Language	Sets the language for the On-Screen Display (OSD) Menu.
Projector Position	Selects a proper position for the projector.
Menu Settings	<p><u>Menu Display Time</u> Sets the length of time the OSD Menu will remain active after your last interaction.</p> <p><u>Menu Position</u> Sets the OSD Menu's position.</p>
High Altitude Mode	<p>We recommend you use the High Altitude Mode when your environment is between 1,501 m to 3,000 m above sea level, and ambient temperature is between 0°C–30°C.</p> <p>NOTE:</p> <ul style="list-style-type: none"> • Do not use High Altitude Mode if your environment is between 0 to 1,500 m, and the temperature is between 0°C to 35°C. If used, the projector will become over cooled. • Using “High Altitude Mode” may cause more operating noise, as the fan speed will be increased to improve cooling and performance.
Security Settings	See “Using the Password Function” on page 20.
Panel Key Lock	Locks the control keys on the projector.
Remote Control Code	<p>Sets the remote control code for this projector (between 1~8). When multiple adjacent projectors are in operation at the same time, switching the codes can prevent interference from other remote controls. After the remote control code is set, switch to the same ID for the remote control to control this projector. To switch the code for the remote control, press ID set and the number button corresponding to the remote control code together for 5 seconds or more. The initial code is set to 1. When the code is switched to 8, the remote control can control every projector.</p> <p>NOTE: If different codes are set on the projector and remote control, there will be no response from the remote control. When that happens, a message will display to remind you to switch the code for the remote control.</p>
Control Method	Allows you to select a preferred control port: through the RS232 port or the USB port. When selecting USB, USB A Power will be switched to Off automatically.
Baud Rate	Selects a baud rate that is identical with your computer's so that you can connect the projector using a suitable RS232 cable and control the projector with RS232 commands

INFORMATION Menu

1. Press the **Menu** button to display the On-Screen Display (OSD) Menu.
2. Press ◀/▶ to select the **INFORMATION** menu and display its contents.



Menu Option	Description
Source	Shows the current input source.
Color Mode	Shows the selected mode in the IMAGE menu.
Resolution	Shows the native resolution of the input source.
Color System	Shows input system format.
IP address	Shows the IP address of your projector.
MAC address	Shows the MAC Address of your projector.
Firmware Version	Shows the current firmware version.
3X Fast Input	Shows whether the function is activated or not.
S/N	Shows the serial number for this projector.

Appendix

Specifications

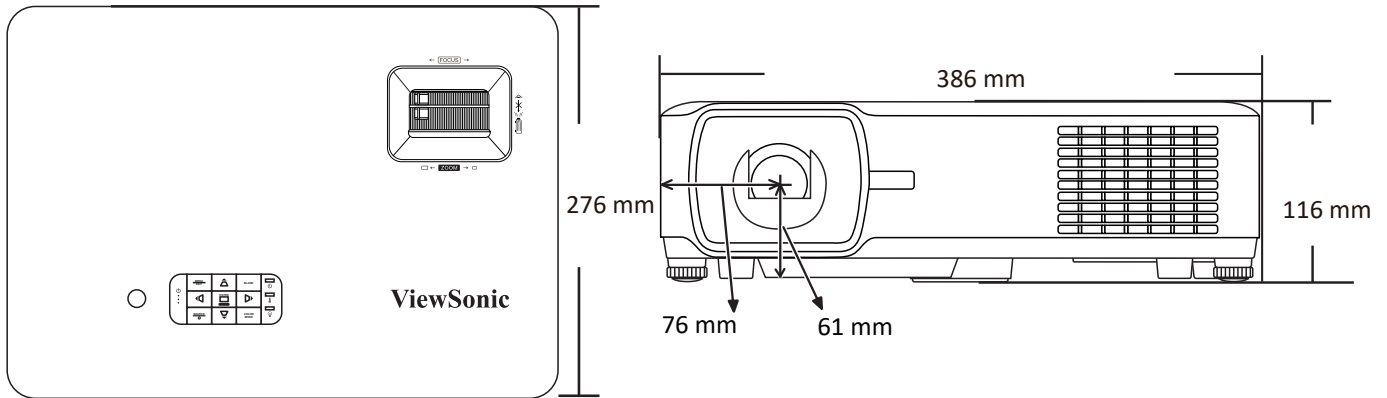
Item	Category	LS610WH	LS610HDH
Projector	Type	LED	
	Display Size	30" ~ 300"	
	Throw Ratio	1.37~1.64 (87" @2.56m)	1.30~1.56 (95" @2.74m)
	Lens	1.2x Optical Zoom	
	Light Source Type	LED	
	Display System	1-CHIP DMD	
Input Signal	HDMI	f_h : 15K~102KHz, f_v :23~120Hz, Pixel rate: 170MHz	
Resolution	Native	1280 x 800	1920 x 1080
Power Adapter ¹	Input Voltage	AC 100-240V, 50/60 Hz (auto switch)	
Operating conditions	Temperature	0°C to 40°C (32°F to 104°F)	
	Humidity	10% to 90% (non-condensing)	
	Altitude	0 to 1,500 m at 0°C to 35°C 1,501 to 3,000 m at 0°C to 30°C	
Storage conditions	Temperature	-20°C to 60°C (non-condensing)	
	Humidity	10% to 90% (non-condensing)	
	Altitude	0 to 40,000 ft sea level at -20°C to 30°C	
Dimensions	Physical (W x D x H)	386 mm x 276 mm x 116 mm (15.2" x 10.9" x 4.6")	
Weight	Physical	5±0.2 kg (11 lbs)	
Power consumption	On ²	310W (Typical)	330W (Typical)
	Off	< 0.5W (Standby)	

¹ Please use the power adapter from ViewSonic® or an authorized source only.

² The test condition follows EEI standards.

Projector Dimensions

386 mm (W) x 276 mm (D) x 116 mm (H)



Timing Chart

HDMI (PC)			
Signal	Resolution (dots)	Aspect Ratio	Refresh Rate (Hz)
VGA	640 x 480	4:3	60/72/75/85
--	720 x 400	--	70
SVGA	800 x 600	4:3	60/72/75/85/120**
XGA	1024 x 768	4:3	60/70/75/85/120**
XGA	1152 x 864	4:3	75
HD	1280x 720	16:9	60/120
WXGA	1280 x 768	15:9	60/60**
WXGA	1280 x 800	16:10	60/75/85/120**
WXGA	1366 x 768	16:9	59.7
Quad-VGA	1280 x 960	4:3	60/85
SXGA	1280 x 1024	5:4	60/75/85
SXGA+	1400 x 1050	4:3	60
WXGA+	1440 x 900	16:10	60**
UXGA	1600 x 1200	4:3	60
WSXGA+	1680 x 1050	16:10	60**
VESA	1920 x 1080	16:9	60
WUXGA	1920 x 1200	16:10	60**
MAC 13"	640 x 480	4:3	67
MAC 16"	832 x 624	4:3	75
MAC 19"	1024 x 768	4:3	75
MAC 21"	1152 x 870	4:3	75

NOTE: ** Reducing blanking.

HDMI (Video)			
Signal	Resolution (dots)	Aspect Ratio	Refresh Rate (Hz)
HDTV (4K*)	3840 x 2160	16:9	24 / 25 / 30 / 50 / 60
HDTV (1080p)	1920 x 1080	16:9	24
HDTV (1080p)	1920 x 1080	16:9	50 / 60
HDTV (1080i)	1920 x 1080	16:9	50 / 60
HDTV (720p)	1280 x 720	16:9	50 / 60
SDTV (480p)	720 x 480	4:3 / 16:9	60
SDTV (576p)	720 x 576	4:3 / 16:9	50
SDTV (480i)	720 x 480	4:3 / 16:9	60
SDTV (576i)	720 x 576	4:3 / 16:9	50

NOTE: *Only supported by LS610HDH.

3D (HDMI signal included)			
Signal	Resolution (dots)	Aspect Ratio	Refresh Rate (Hz)
SVGA	800 x 600	4:3	60* / 120**
XGA	1024 x 768	4:3	60* / 120**
HD	1280 x 720	16:9	50* / 60* / 120**
WXGA	1280 x 800	16:9	60* / 120**

* 50Hz and 60Hz signals are supported for Side-by-Side, Top-Bottom, and Frame Sequential formats.

** 120 Hz signals are supported for Frame Sequential format only.

HDMI 3D			
In Frame packing format			
Signal	Resolution (dots)	Aspect Ratio	Refresh Rate (Hz)
1080p	1920 x 1080	16:9	23.98/24
720p	1280 x 720	16:9	50/59.94/60
In Side by side format			
Signal	Resolution (dots)	Aspect Ratio	Refresh Rate (Hz)
1080i	1920 x 1080	16:9	50/59.94/60
720p	1280 x 720	16:9	50/59.94/60
In Top and Bottom format			
1080i	1920 x 1080	16:9	23.98/24
720p	1280 x 720	16:9	50/59.94/60




Troubleshooting

Common Problems

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

Problem	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.
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.

LED Indicators

Light			Status and Description
			
Power			
Green Flashing	Off	Off	Stand-by mode
Green	Off	Off	Powering up
Green	Off	Off	Normal operation
Green Flashing	Off	Off	Normal power-down cooling
Red	Off	Off	Downloading
Green	Green	Green	Burn in off
Light source			
Green Flashing	Off	Red	First light source-lit error cooling
Off	Off	Red	Light source error in normal operation
Green	Off	Red	Color wheel start has failed
Heating/Cooling			
Off	Red	Off	Fan 1 error (actual fan speed is outside the desired speed).
Off	Red	Red	Fan 2 error (actual fan speed is outside the desired speed).
Off	Red	Green	Fan 3 error (actual fan speed is outside the desired speed).
Off	Red	Orange	Fan 4 error (actual fan speed is outside the desired speed).
Red Flashing	Red	Off	Fan 5 error (actual fan speed is outside the desired speed).
Red Flashing	Red Flashing	Off	Fan 6 error (actual fan speed is outside the desired speed).
Red	Red	Red	Thermal sensor 1 open error (the remote diode has an open-circuit condition).
Red	Red	Green	Thermal sensor 2 open error (the remote diode has an open-circuit condition).
Green	Red	Red	Thermal sensor 1 short error (the remote diode has an open-circuit condition).
Off	Red	Green	Thermal sensor 2 short error (the remote diode has an open-circuit condition).
Orange	Red	Red	Temperature 1 error (over limited temperature).
Orange	Red	Green	Temperature 2 error (over limited temperature).
Off	Green	Red	Fan IC #1 I2C connection error.

Light Source Information

This section will provide a better understanding of your projector's light source.

Light Source Hour

When the projector is being used, the duration (in hours) of light source usage is automatically calculated by the built-in timer.

To obtain the light source hour information:

1. Press **Menu** to open the OSD Menu and go to: **Advanced > Light Source Settings > Light Source Hours Information**.
2. Press **Enter** and the **Light Source Hours Information** page will appear.
3. Press **Exit** to leave the menu.

Extending Light Source Life

To prolong light source life, you can adjust the following settings in the OSD Menu.

Setting Light Source Mode

Setting the projector in **Eco**, **Dynamic Black 1**, or **Dynamic Black 2** mode reduces system noise, power consumption, and extends the light source's operational life.

Light source Mode	Description
Normal	Provides full light source brightness.
Eco	Reduces light source power consumption by 30% and lowers brightness, and decreases fan noise.
Dynamic Black 1	Reduces light source power consumption by up to 70% depending on the content's brightness level.
Dynamic Black 2	Reduces light source power consumption by up to 50% depending on the content's brightness level.

To set the Light Source Mode, open the OSD Menu and go to: **Advanced > Light Source Settings > Light Source Mode** and press ◀/▶ to select and press **Enter**.

Setting Auto Power Off

This allows the projector to turn off automatically after a set period of time once no input source is detected.

Open the OSD Menu and go to: **POWER MANAGEMENT > Smart Energy > Auto Power Off** and press ◀/▶ to disable or adjust the time.

Regulatory and Service Information

Compliance Information

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

FCC Compliance Statement

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

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

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

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

Industry Canada Statement

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

CE Conformity for European Countries



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

The following information is only for EU-member states:

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



Declaration of RoHS2 Compliance

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

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

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

- Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp):
 - ^m Short length (500 mm): maximum 3.5 mg per lamp.
 - ^m Medium length (> 500 mm and 1,500 mm): maximum 5 mg per lamp.
 - ^m 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:

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

Europe:

<https://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:

- ^m Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
- ^m Operation outside of product specifications.
- ^m Operation of the product for other than the normal intended use or not under normal conditions.
- ^m Repair or attempted repair by anyone not authorized by ViewSonic®.
- ^m Any damage of the product due to shipment.
- ^m Removal or installation of the product.
- ^m Causes external to the product, such as electric power fluctuations or failure.
- ^m Use of supplies or parts not meeting Viewsonic's specifications.
- ^m Normal wear and tear.
- ^m 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:
 - ^m 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.
 - ^m Any damage of the product due to shipment.
 - ^m Causes external to the product, such as electrical power fluctuations or failure.
 - ^m Use of supplies or parts not meeting ViewSonic®'s specifications.
 - ^m Normal wear and tear.
 - ^m 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
Puebla, Pue. (Matriz): RENTA Y DATOS, S.A. DE C.V. Domicilio: 29 SUR 721 COL. LA PAZ 72160 PUEBLA, PUE. Tel: 01(52).222.891.55.77 CON 10 LINEAS E-Mail: datos@puebla.megared.net.mx	Veracruz, Ver.: CONEXION Y DESARROLLO, S.A DE C.V. Av. Americas # 419 ENTRE PINZÓN Y ALVARADO Fracc. Reforma C.P. 91919 Tel: 01-22-91-00-31-67 E-Mail: gacosta@qplus.com.mx
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