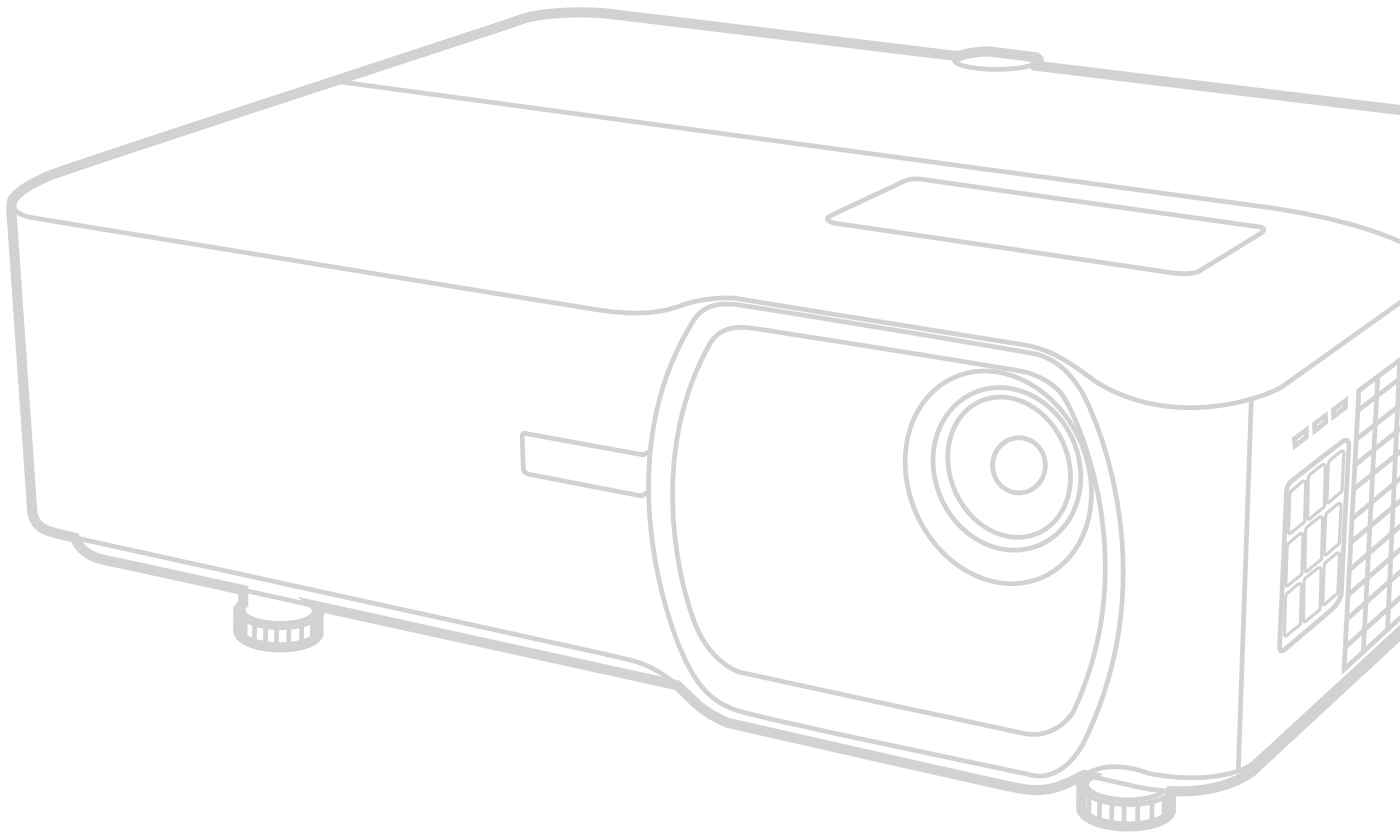


> **LS750WU/LS850WU/LS860WU**

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. VS17804/VS17805/VS17889
Model Name: LS750WU/LS850WU/LS860WU

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 - General

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 light source 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 light source becomes extremely hot during operation. Allow the projector to cool for approximately 45 minutes prior to removing the light source assembly for replacement.
- Do not use light sources beyond the rated light source life. Excessive use of light sources beyond the rated life could cause them to break on rare occasions.
- Never replace the light source 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, we strongly recommend 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.

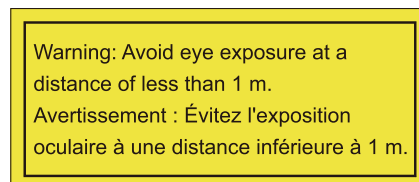
You can purchase a projector ceiling mount kit from the place you purchased your projector. We recommend that you also purchase a separate security cable and attach it securely to both the anti-theft lock slot on the projector and the base of the ceiling mount bracket. This will perform the secondary role of restraining the projector should its attachment to the mounting bracket become loose.

Laser Caution

This product belongs to CLASS I laser product and complies with IEC 60825-1:2014.



Above laser cautions are located on the bottom of this apparatus.



(for all regions except China)

- Notice is given to supervise children and to never allow them to stare into the projector beam at any distance from the projector.
- Notice is given to use caution when using the remote control for starting the projector while in front of the projection lens.
- Notice is given to the user to avoid the use of optical aids such as binoculars or telescopes inside the beam.

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> Introduction

The ViewSonic LS750WU/LS850WU/LS860WU shine bright in virtually any environment with 5000 ANSI Lumens of high-brightness projection and WUXGA resolution clarity. The projector comes equipped with the latest laser phosphor technology capable of achieving up to 20,000 hours of maintenance free projection and 24/7 continuous operation to provide a reliable solution for public use. With H/V keystone correction, four-corner adjustment, H/V lens shift*, and built-in 1.6x optical lens (LS850WU only), it provides amazing placement flexibility.

Perfect for creative installations, these projectors also include a 360-degree orientation & Portrait* function that allows them to be installed in just about any position and angle from floor to ceiling. Along with these features, the ViewSonic LS750WU/LS850WU/LS860WU offer flexible connectivity options including a one-wire HDBaseT input*, which allows the projectors to receive uncompressed HD video and audio over long distances (up to 200 feet) through a single network cable.

NOTE: *Only the LS850WU & LS860WU support the H/V lens shift & HDBaseT input & Portrait function.

Features

- 2nd generation laser phosphor technology
- Up to 5,000 ANSI Lumens
- 20,000 hours of maintenance free projection
- H/V lens shift*
- Built-in HDBaseT receiver*
- 360-degree projection & Portrait* function support
- 24/7 operation

NOTE: *Only the LS850WU & LS860WU support the H/V lens shift & HDBaseT input & Portrait function.

Package Contents

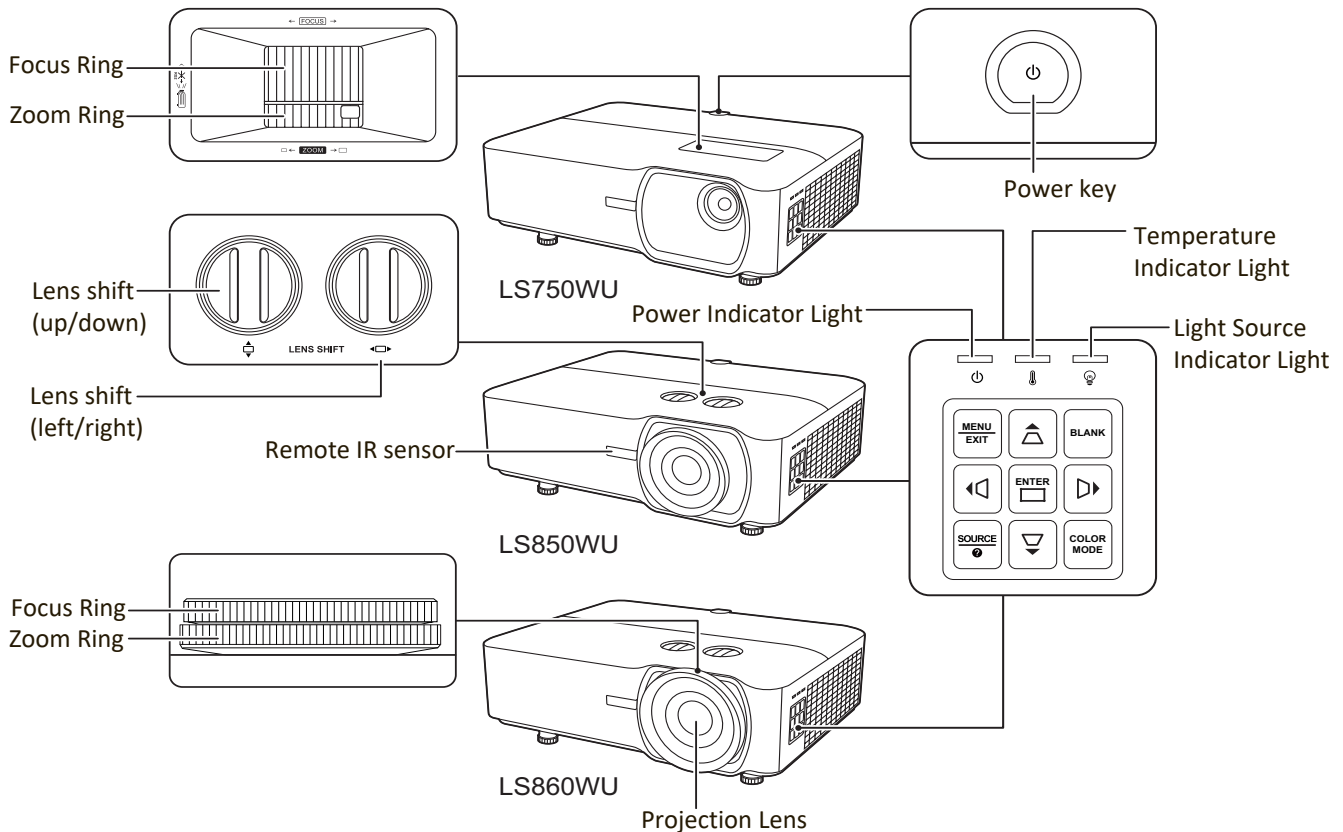
- Projector
- Power Cord
- Video Cable
- Remote Control & Batteries
- Quick Start Guide

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

Product Overview

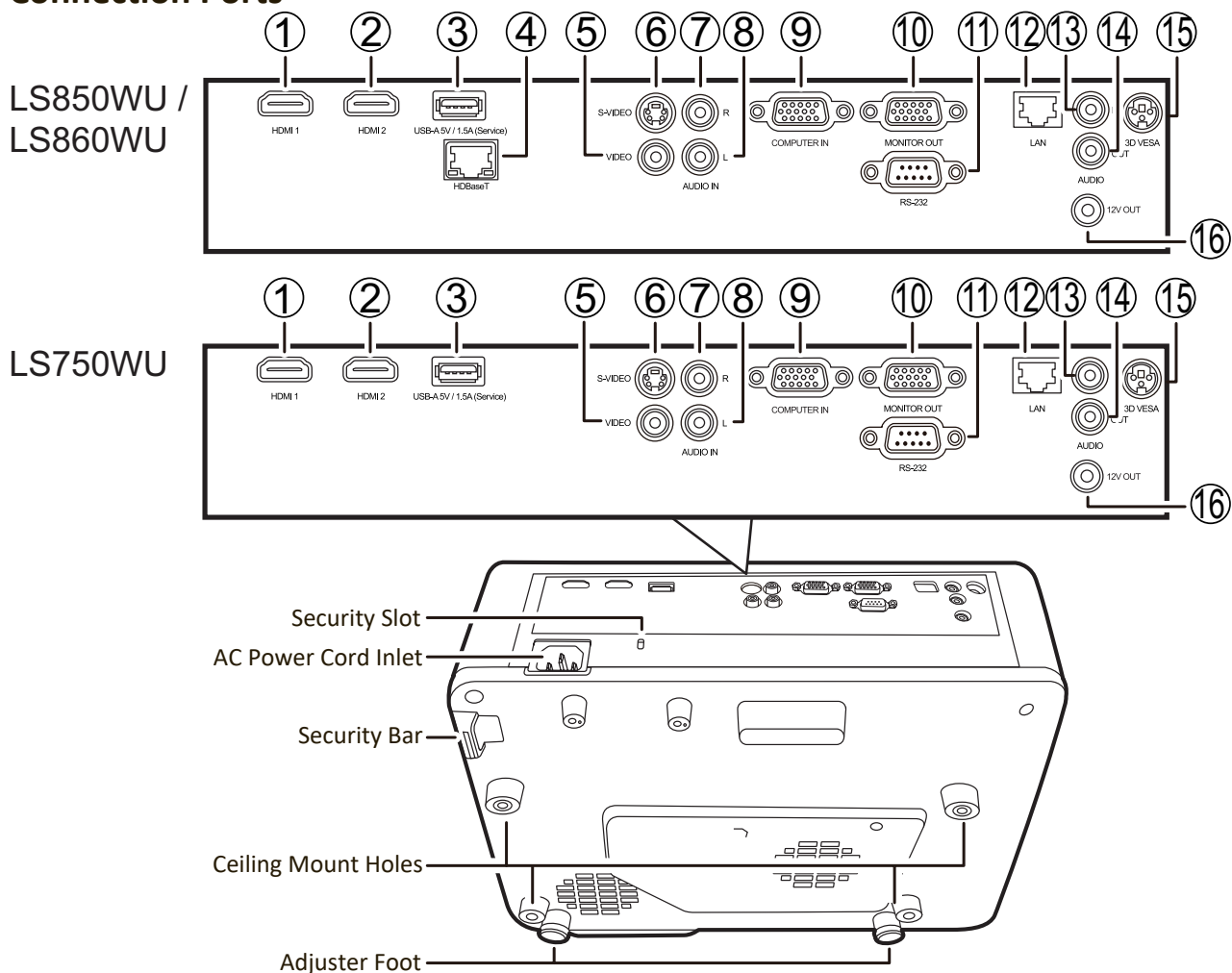
Projector

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 with a long press for 3 seconds.
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.

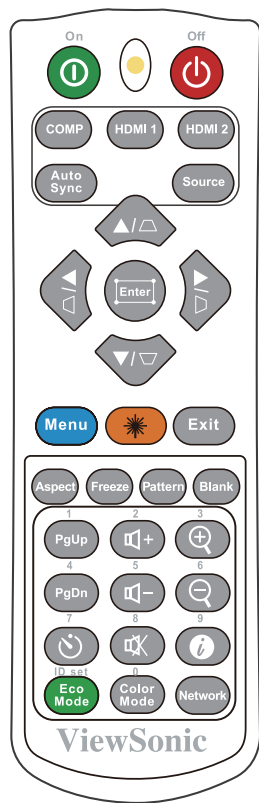
Connection Ports



Port	Description
[1] HDMI 1	HDMI port.
[2] HDMI 2	HDMI port.
[3] USB 5V/1.5A OUT (Service)	USB Type A port for power supply and service.
[4] HDBase T	HDBaseT port.
[5] VIDEO	Composite video port.
[6] S-VIDEO	S-Video port.
[7] AUDIO IN (L)	Audio signal (left) input socket.
[8] AUDIO IN (R)	Audio signal (right) input socket.
[9] COMPUTER IN	RGB (PC) signal input socket.
[10] MONITOR OUT	RGB (PC) signal output socket.
[11] RS-232	RS-232 control port.
[12] RJ-45	LAN port.
[13] AUDIO IN	Audio signal input socket.
[14] AUDIO OUT	Audio signal output socket.
[15] 3D VESA	3D VESA port.
[16] 12V OUT	12V DC output terminal.

Remote Control

Controls and Functions



Button	Description
ⓘ On/⏻ Off	Toggles between standby mode and Power On.
COMP	Selects the source from the COMPUTER IN port for display.
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	Automatically determines the best picture timings for the displayed image.
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.

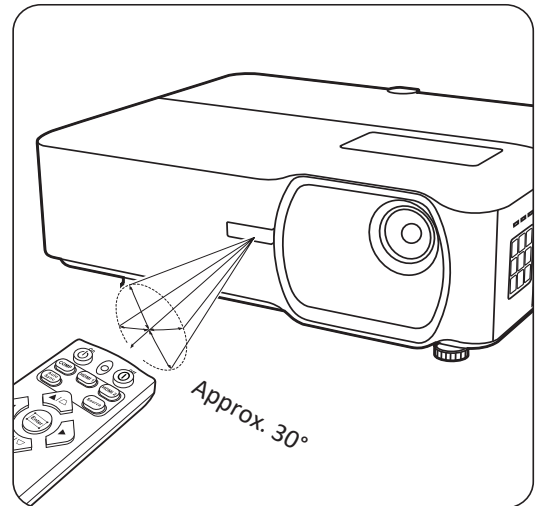
Button	Description
◀ Left/▶ Right ▲ Up/ ▼ Down	Selects the desired menu items and makes adjustments.
Menu	Turns on/off the On-Screen Display (OSD) Menu or goes back to previous OSD Menu.
★ (Laser)	Emits visible laser pointer light for presentation purposes.
Exit	Exits and saves menu settings.
Aspect	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).

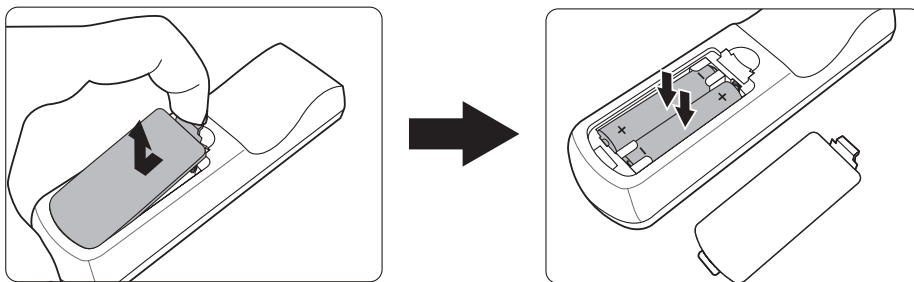


Replacing the Remote Control Batteries

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

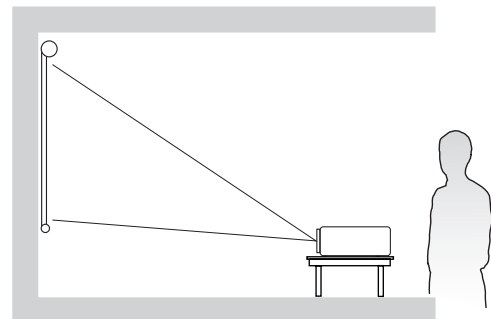
Personal preference and room layout will decide the installation location. Consider the following:

- 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:

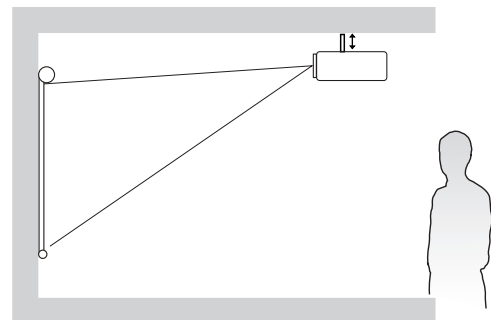
1. Front

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



2. Front Ceiling

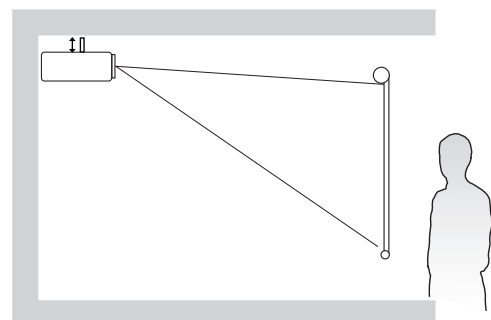
The projector is suspended upside-down from the ceiling in front of the screen.



3. Rear Ceiling

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

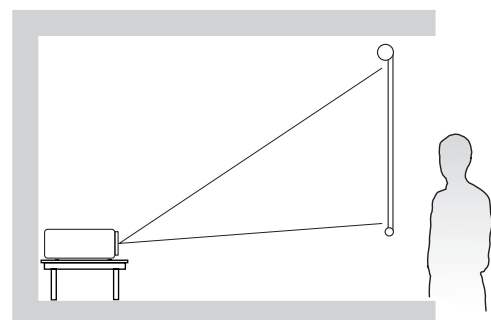
NOTE: A special rear projection screen is required.



4. Rear

The projector is placed near the floor behind the screen.

NOTE: A special rear projection screen is required.

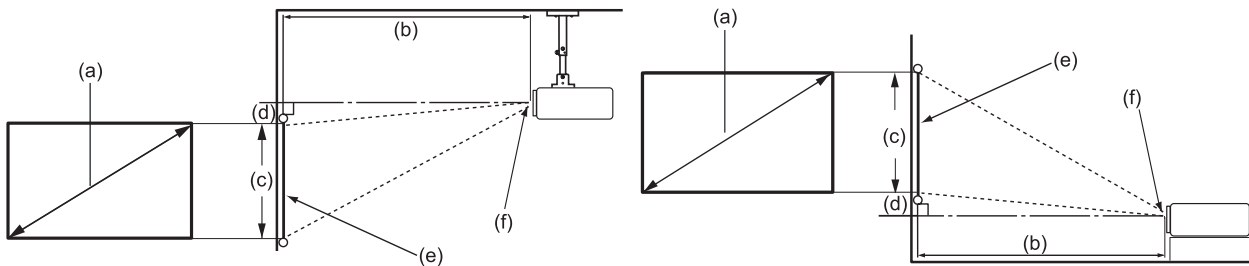


Projection Dimensions

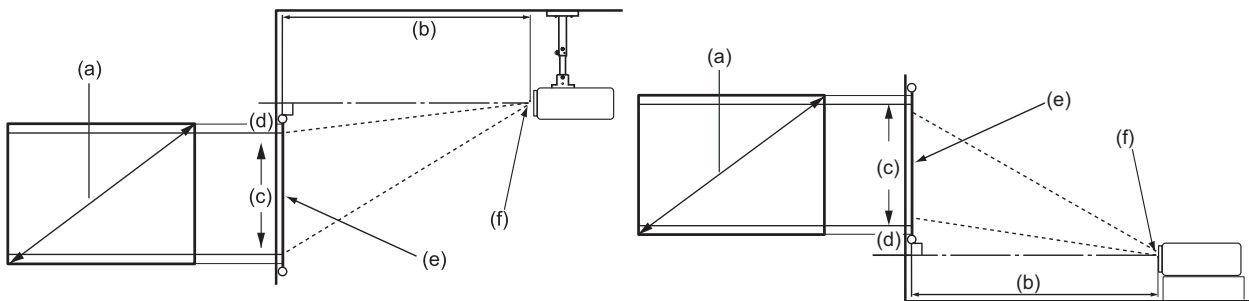
NOTE: See “Specifications” on page 77 for the native display resolution of this projector.

LS750WU

• 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				minimum		maximum	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
30	762	29	724	37	941	16	404	0	0	0	0
40	1016	38	966	49	1255	21	538	0	0	0	0
50	1270	48	1207	62	1569	26	673	0	0	0	0
60	1524	57	1448	74	1883	32	808	0	0	0	0
70	1778	67	1690	86	2197	37	942	0	0	0	0
80	2032	76	1931	99	2510	42	1077	0	0	0	0
90	2286	86	2172	111	2824	48	1212	0	0	0	0
100	2540	95	2414	124	3138	53	1346	0	0	0	0
120	3048	114	2897	148	3766	64	1615	0	0	0	0
150	3810	143	3621	185	4707	79	2019	0	0	0	0
200	5080	190	4828	247	6276	106	2692	0	0	0	0
250	6350	238	6034	309	7845	132	3365	0	0	0	0
300	7620	285	7241	371	9414	159	4039	0	0	0	0

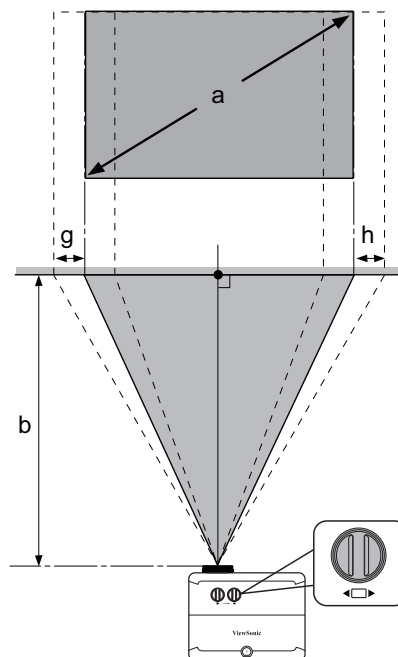
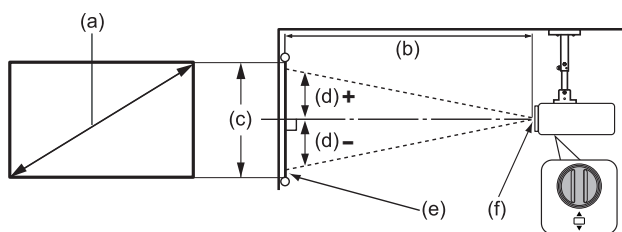
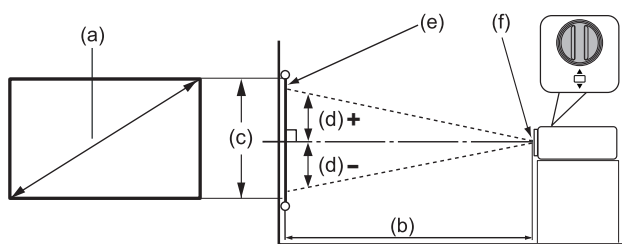
16:10 Image on a 4:3 Screen

(a) Screen Size		(b) Projection Distance				(c) Image Height		(d) Vertical Offset			
		minimum		maximum				minimum		maximum	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
30	762	54	1366	70	1776	30	762	0	0	0	0
40	1016	63	1594	82	2072	35	889	0	0	0	0
50	1270	72	1822	93	2368	40	1016	0	0	0	0
60	1524	81	2049	105	2664	45	1143	0	0	0	0
70	1778	90	2277	117	2960	50	1270	0	0	0	0
80	2032	99	2505	128	3256	55	1397	0	0	0	0
90	2286	108	2733	140	3552	60	1524	0	0	0	0
100	2540	117	2960	152	3848	65	1651	0	0	0	0
120	3048	126	3188	163	4144	70	1778	0	0	0	0
150	3810	134	3416	175	4440	75	1905	0	0	0	0
200	5080	143	3643	186	4737	80	2032	0	0	0	0
250	6350	152	3871	198	5033	85	2159	0	0	0	0
300	7620	161	4099	210	5329	90	2286	0	0	0	0

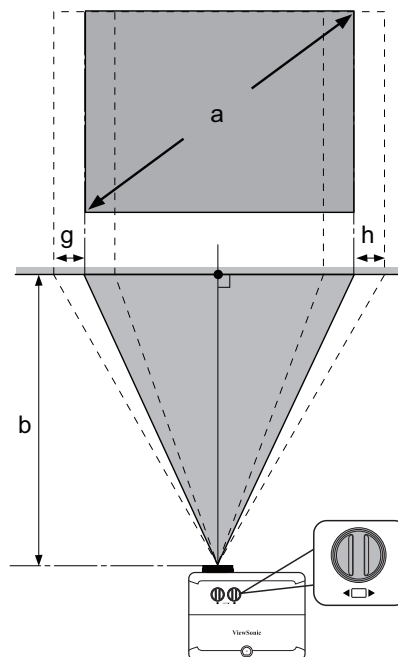
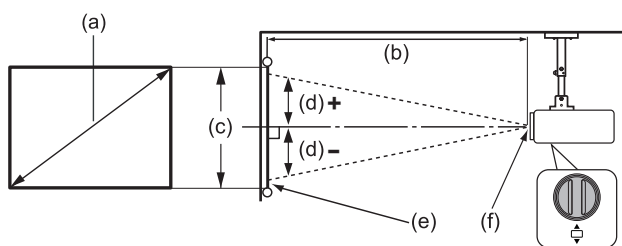
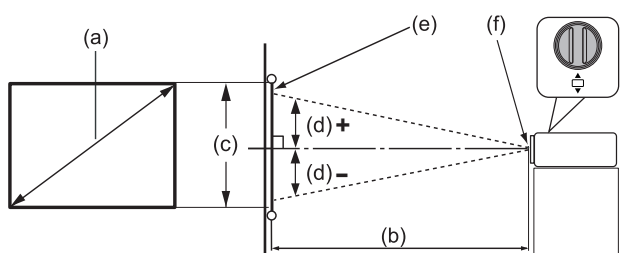
NOTE: There is a 3% tolerance among these numbers due to optical component variations. It is recommended to physically test the projection size and distance before permanently installing the projector.

LS850WU/LS860WU

• 16:10 Image on a 16:10 Screen



• 16:10 Image on a 4:3 Screen



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

LS850WU

16:10 Image on a 16:10 Screen

(a) Screen Size		(b) Projection Distance				(c) Image Height		(d) Vertical Offset			
		minimum		maximum				minimum		maximum	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
30	762	34	876	55	1401	16	404	-8	-202	8	202
40	1016	46	1168	74	1869	21	538	-11	-269	11	269
50	1270	57	1460	92	2336	26	673	-13	-337	13	337
60	1524	69	1752	110	2803	32	808	-16	-404	16	404
70	1778	80	2044	129	3270	37	942	-19	-471	19	471
80	2032	92	2336	147	3737	42	1077	-21	-538	21	538
90	2286	103	2628	166	4204	48	1212	-24	-606	24	606
100	2540	115	2920	184	4671	53	1346	-26	-673	26	673
120	3048	138	3503	221	5606	64	1615	-32	-808	32	808
150	3810	172	4379	276	7007	79	2019	-40	-1010	40	1010
200	5080	230	5839	368	9343	106	2692	-53	-1346	53	1346
250	6350	287	7299	460	11678	132	3365	-66	-1683	66	1683
300	7620	345	8759	552	14014	159	4039	-79	-2019	79	2019

16:10 Image on a 4:3 Screen

(a) Screen Size		(b) Projection Distance				(c) Image Height		(d) Vertical Offset			
		minimum		maximum				minimum		maximum	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
30	762	65	1653	104	2644	30	762	-15	-381	15	381
40	1016	76	1928	121	3085	35	889	-18	-445	18	445
50	1270	87	2203	139	3525	40	1016	-20	-508	20	508
60	1524	98	2479	156	3966	45	1143	-23	-572	23	572
70	1778	108	2754	173	4407	50	1270	-25	-635	25	635
80	2032	119	3030	191	4848	55	1397	-28	-699	28	699
90	2286	130	3305	208	5288	60	1524	-30	-762	30	762
100	2540	141	3581	226	5729	65	1651	-33	-826	33	826
120	3048	152	3856	243	6170	70	1778	-35	-889	35	889
150	3810	163	4131	260	6610	75	1905	-38	-953	38	953
200	5080	173	4407	278	7051	80	2032	-40	-1016	40	1016
250	6350	184	4682	295	7492	85	2159	-43	-1080	43	1080
300	7620	195	4958	312	7932	90	2286	-45	-1143	45	1143

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.

LS860WU

16:10 Image on a 16:10 Screen

(a) Screen Size		(b) Projection Distance				(c) Image Height		(d) Vertical Offset			
		minimum		maximum				minimum		maximum	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
30	762	20	521	23	573	16	404	-8	-202	8	202
40	1016	27	694	30	764	21	538	-11	-269	11	269
50	1270	34	868	38	955	26	673	-13	-337	13	337
60	1524	41	1041	45	1146	32	808	-16	-404	16	404
70	1778	48	1215	53	1336	37	942	-19	-471	19	471
80	2032	55	1389	60	1527	42	1077	-21	-538	21	538
90	2286	61	1562	68	1718	48	1212	-24	-606	24	606
100	2540	68	1736	75	1909	53	1346	-26	-673	26	673
120	3048	82	2083	90	2291	64	1615	-32	-808	32	808
150	3810	102	2603	113	2864	79	2019	-40	-1010	40	1010
200	5080	137	3471	150	3818	106	2692	-53	-1346	53	1346
250	6350	171	4339	188	4773	132	3365	-66	-1683	66	1683
300	7620	205	5207	225	5728	159	4039	-79	-2019	79	2019

16:10 Image on a 4:3 Screen

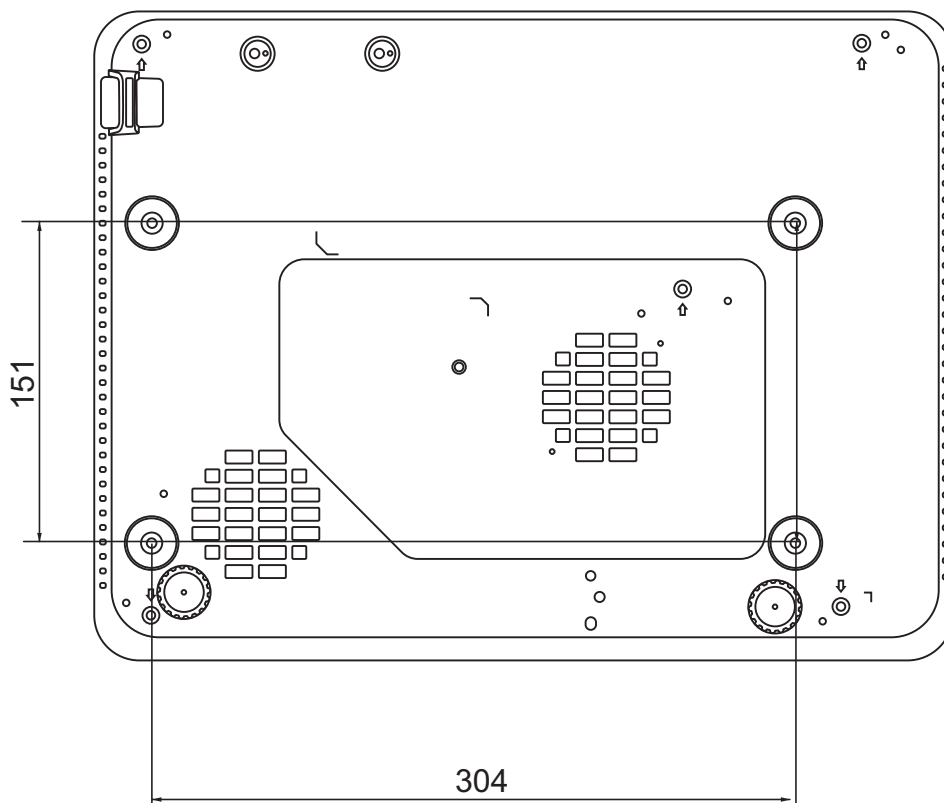
(a) Screen Size		(b) Projection Distance				(c) Image Height		(d) Vertical Offset			
		minimum		maximum				minimum		maximum	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
30	762	39	982	43	1081	30	762	-15	-381	15.0	381
40	1016	45	1146	50	1261	35	889	-18	-445	17.5	445
50	1270	52	1310	57	1441	40	1016	-20	-508	20.0	508
60	1524	58	1474	64	1621	45	1143	-23	-572	22.5	572
70	1778	64	1637	71	1801	50	1270	-25	-635	25.0	635
80	2032	71	1801	78	1981	55	1397	-28	-699	27.5	699
90	2286	77	1965	85	2161	60	1524	-30	-762	30.0	762
100	2540	84	2129	92	2341	65	1651	-33	-826	32.5	826
120	3048	90	2292	99	2522	70	1778	-35	-889	35.0	889
150	3810	97	2456	106	2702	75	1905	-38	-953	37.5	953
200	5080	103	2620	113	2882	80	2032	-40	-1016	40.0	1016
250	6350	110	2784	121	3062	85	2159	-43	-1080	42.5	1080
300	7620	116	2947	128	3242	90	2286	-45	-1143	45.0	1143

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.

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.

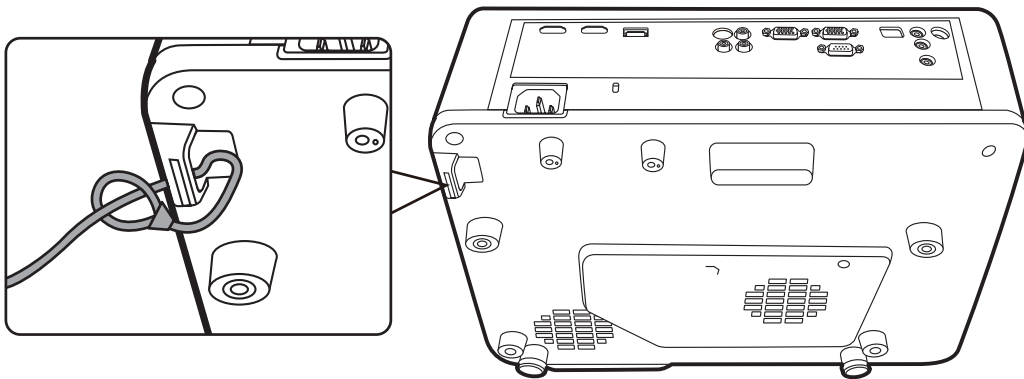
Preventing Unauthorized Use

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.
 - » If the password is correct, the message, 'INPUT NEW PASSWORD' will appear.
 - » 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 (*).

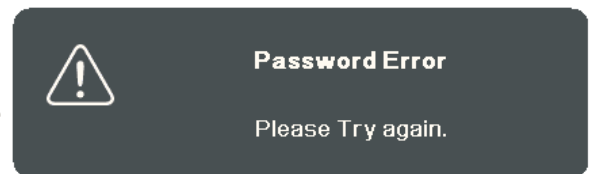
Disabling the Password Function

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.
 - » If the password is correct, the OSD Menu returns to the Password page with "**Off**" shown in the row of **Power On Lock**.
 - » 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.

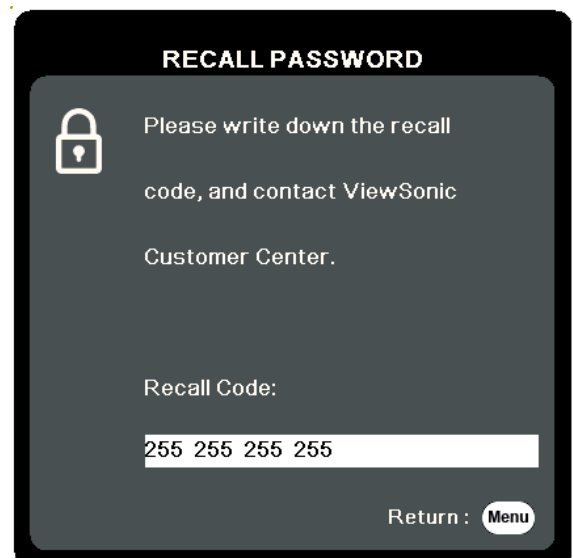


You can retry or if you do not remember, you can use the "Password Recall Procedure".

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.

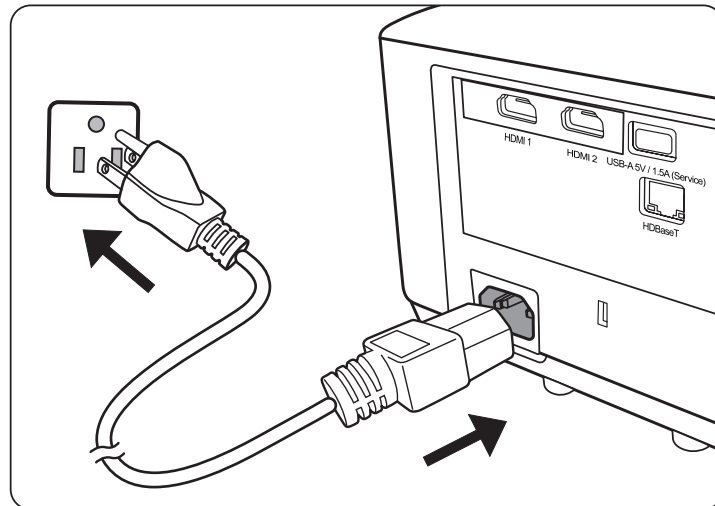
NOTE: You can also use the remote control to enter the **SYSTEM > Panel Key Lock** menu and select **Off**.

> 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.

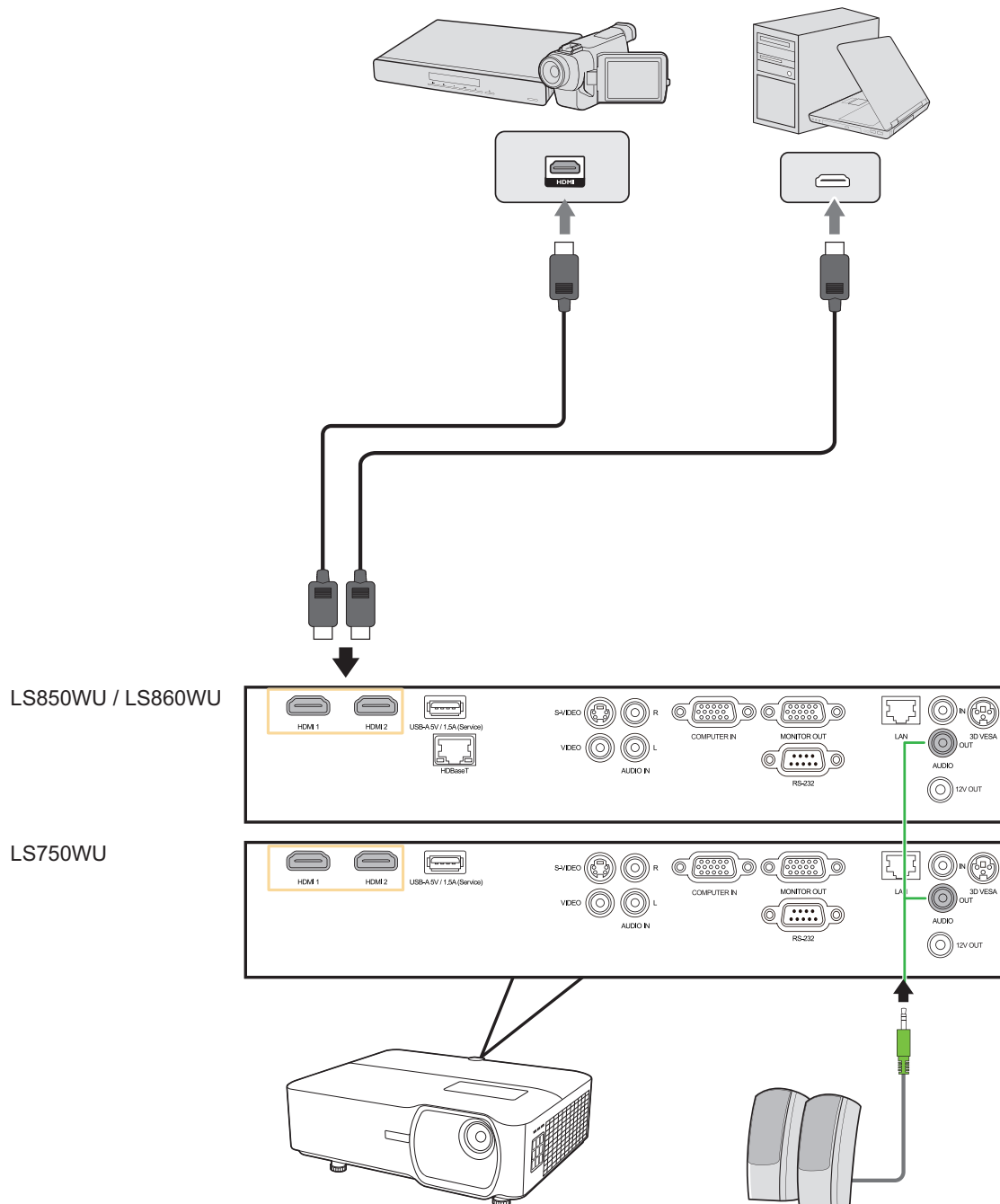


NOTE: When installing the projector, incorporate a readily accessible disconnect device in the fixed wiring, or connect the power plug to an easily accessible outlet near the unit. If a fault should occur during operation of the projector, use the disconnect device to switch off the power supply, or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

Connecting to Video Sources

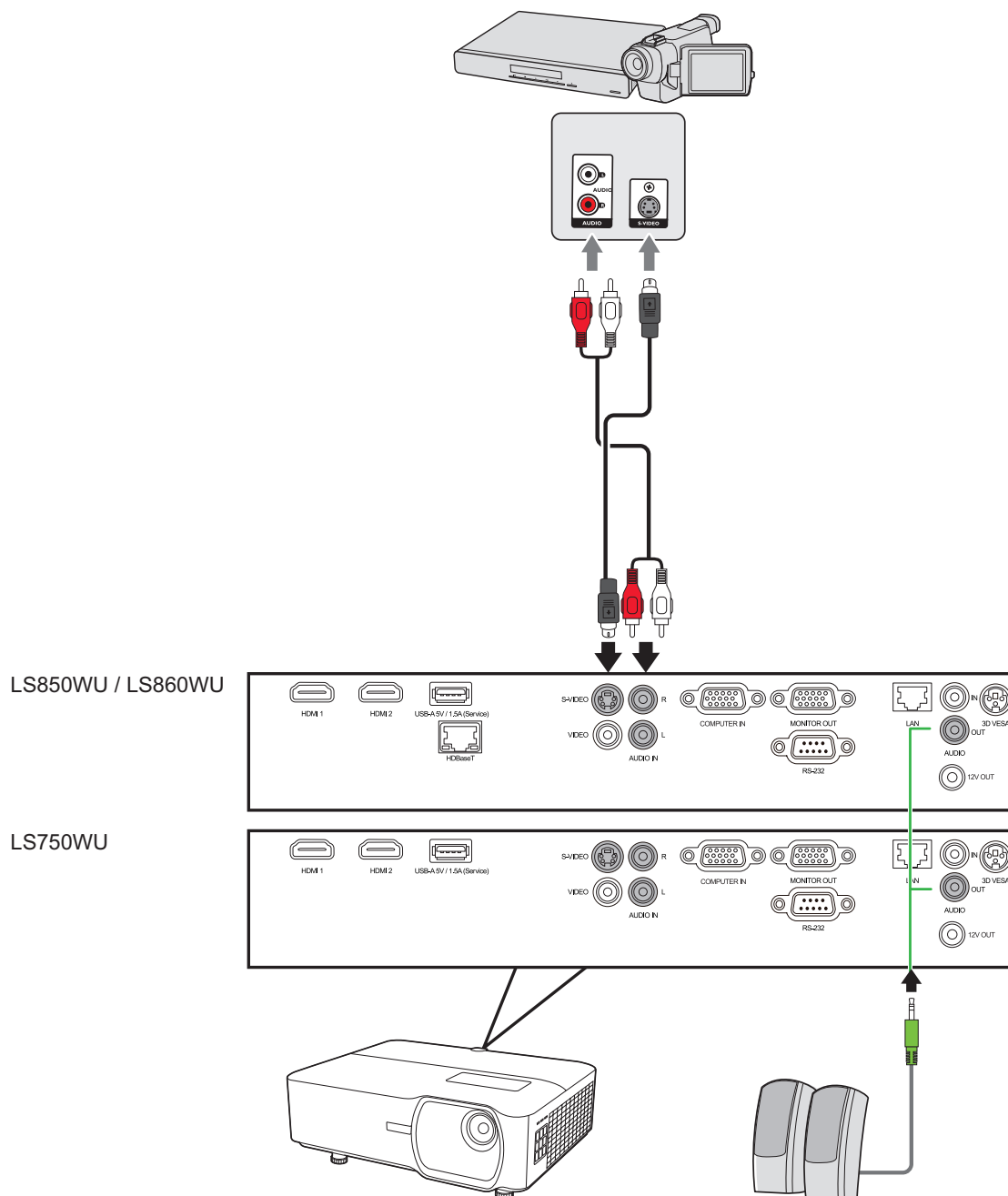
HDMI Connection

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.



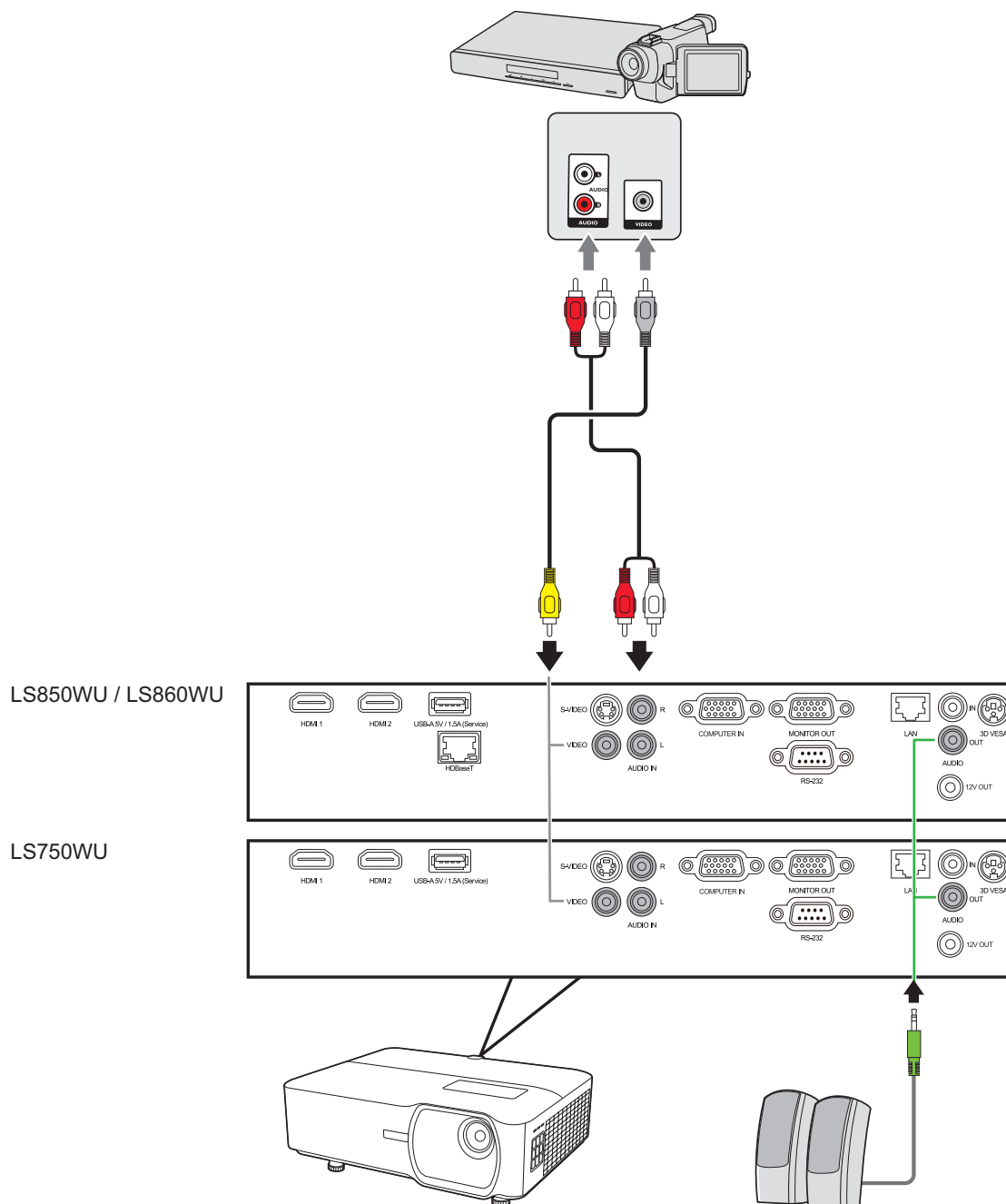
S-Video Connection

Connect one end of an S-Video cable to the S-Video port of your video device. Then connect the other end of the cable to the **S-VIDEO** port of your projector.



Composite Video Connection

Connect one end of a Video cable to the Video port of your video device. Then connect the other end of the cable to the **VIDEO** port of your projector.



Connecting to Computer Sources

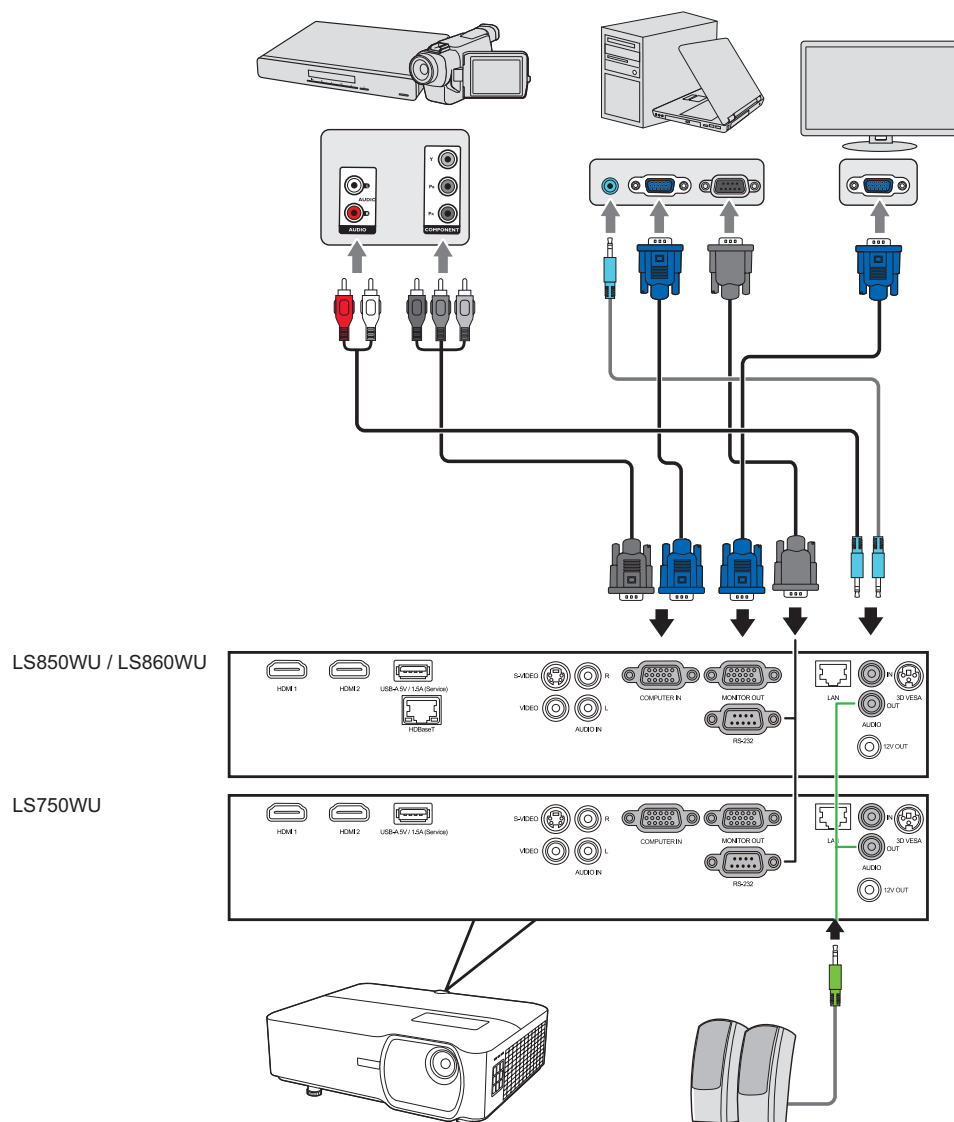
VGA Connection

Connect one end of a VGA cable to the VGA port of your computer. Then connect the other end of the cable to the **COMPUTER IN** port of your projector.

NOTE: Some notebooks do not turn on their external displays automatically when connected to a projector. You may have to adjust your notebook's projection settings.

VGA Out Connection

After establishing the VGA Connection, connect one end of a VGA cable to the VGA port of your monitor. Then connect the other end of the cable to the **MONITOR OUT** 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.

> 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.

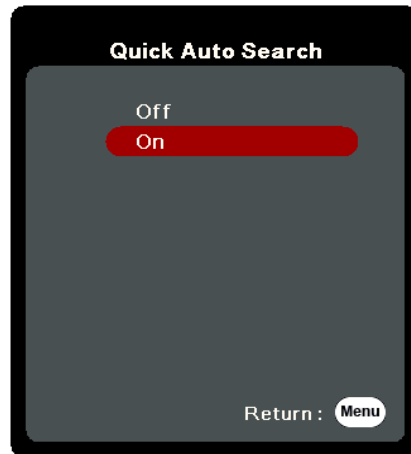
NOTE:

- 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.

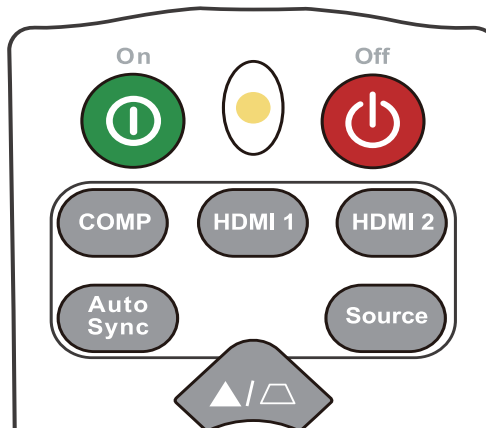
Selecting an Input Source

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

If you want the projector to automatically search for the input source, ensure the **Quick Auto Search** function in the **SYSTEM** menu is **On**.



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.

Auto-Adjusting the Image

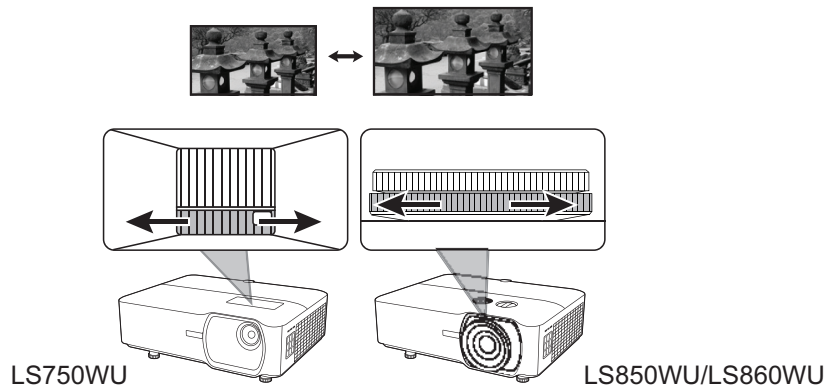
Sometimes, you may need to improve the picture quality. To do this, press **Auto Sync** on the remote control. Within five (5) seconds, the built-in Intelligent Auto Adjustment function will re-adjust the Frequency and Clock values to provide the best picture quality.

Upon completion, the current source information will appear in the upper left corner for three (3) seconds.

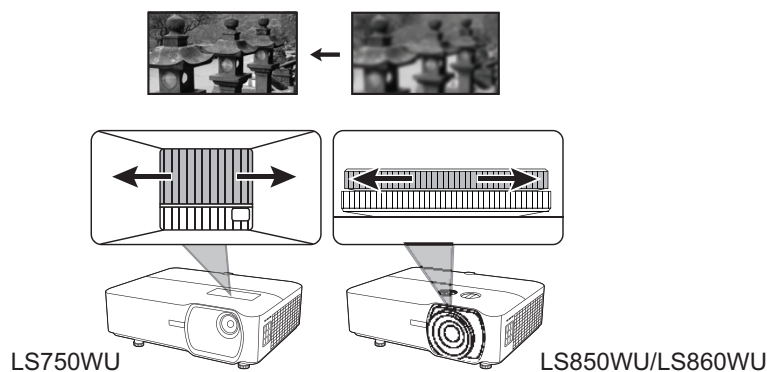
NOTE: This function is only available when the PC D-Sub input source (analog RGB/ COMPUTER IN) is selected.

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.

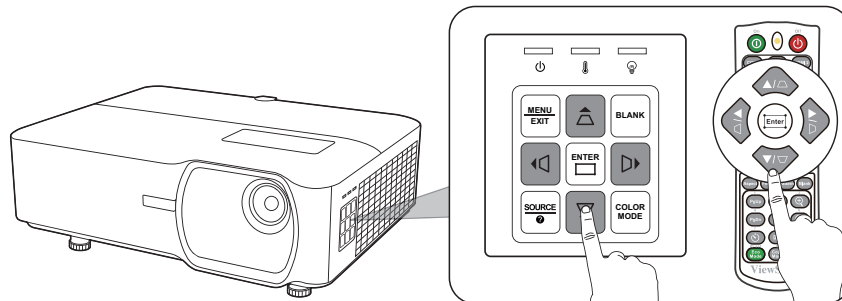
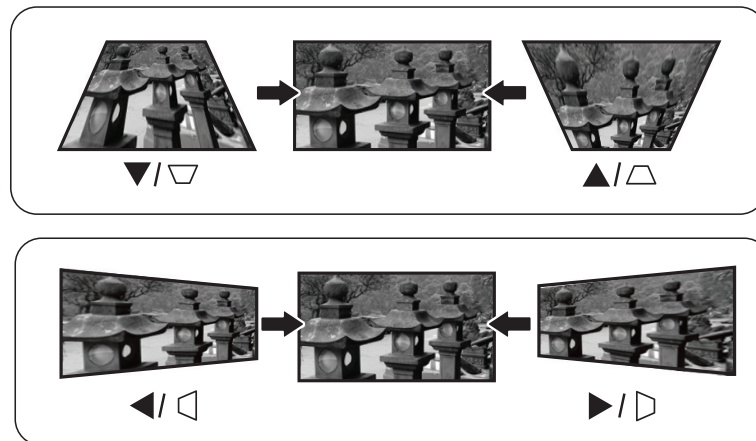


Correcting Keystone

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

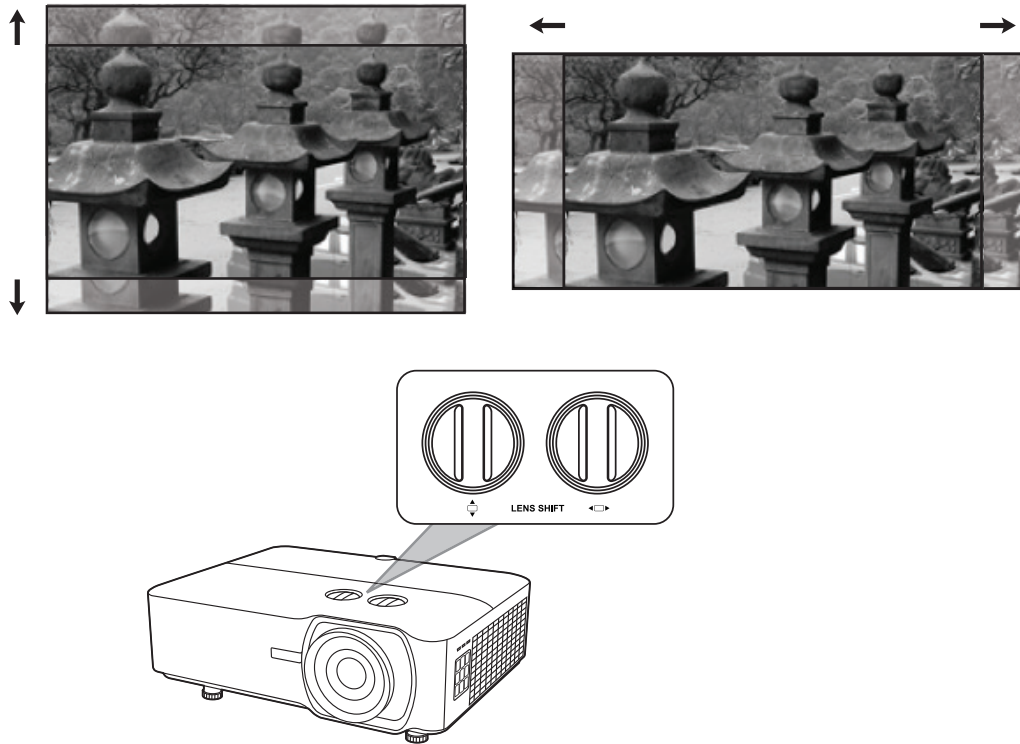
To correct this, besides adjusting the height of the projector, you may also:

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.



Controllability of the Projected Image (LS850WU/LS860WU)

By using the lens shift knobs on the projector, you can adjust the vertical lens shift by $\pm 50\%$ or horizontal lens shift by $\pm 23\%$, which offers the convenience of not needing to physically move or interact with the projector. This is especially important when the projector is mounted to the ceiling.



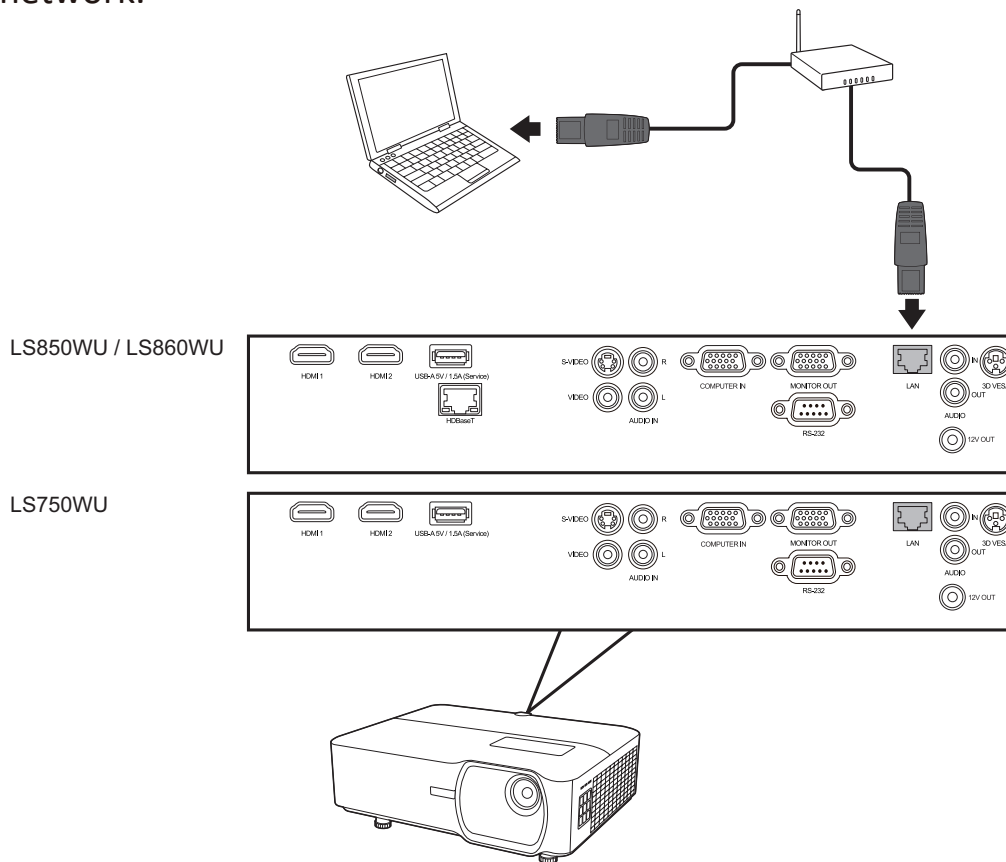
Hiding the Image

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.

Controlling the Projector through a Web Browser

Once you have the correct IP address for the projector and the projector is on or in standby mode, you can use any computer that is on the same local area network to control the projector.

NOTE:

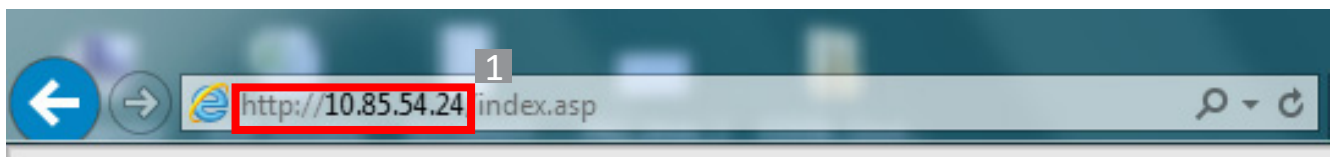
- If you are using Microsoft Internet Explorer, make sure it is version 7.0 or higher.
- The screen shots in this manual are for reference only, and may differ from the actual design.
- Please pay attention to the limitation of input length (including space and other punctuation keys) in the list below:

Category Item		Input Length	Maximum Number of Characters
Network Settings	Network	DHCP/Manual	(N/A)
		IP Address	15
		Subnet Mask	15
		Gateway	15
		DNS Server	15
		AMX device discovery	(N/A)
	Password	Administrator	(N/A)
		New Password	4
		Confirm Password	4
	SNMP	SysLocation	22
		SysName	22
		SysContact	22
Email Alert	Email Setting	To	40
		Cc	40
		Subject	40
		From	40
	SMTP Setting	Server	30
		User Name	21
		Password	14
	Alert Condition	Fan Error	(N/A)
		Light Source Error	(N/A)
		Over Temperature	(N/A)
		Submit	(N/A)
		Issue Test Mail	(N/A)

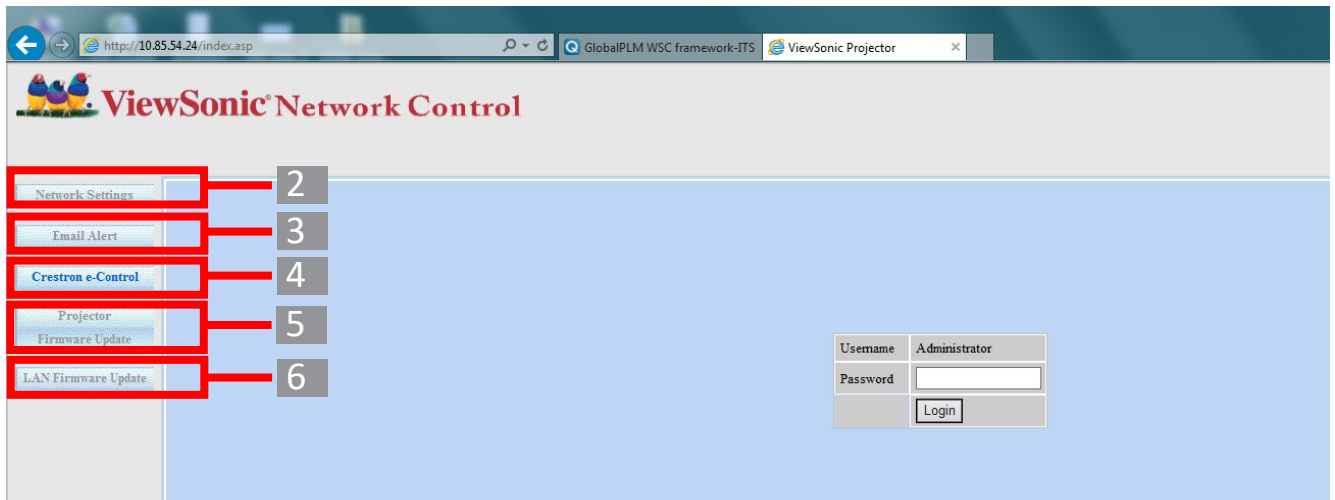
NOTE: / > < \$ % + \ ' " " ' are prohibited.

1. Enter the address of the projector in the address bar of your browser and press

Enter.

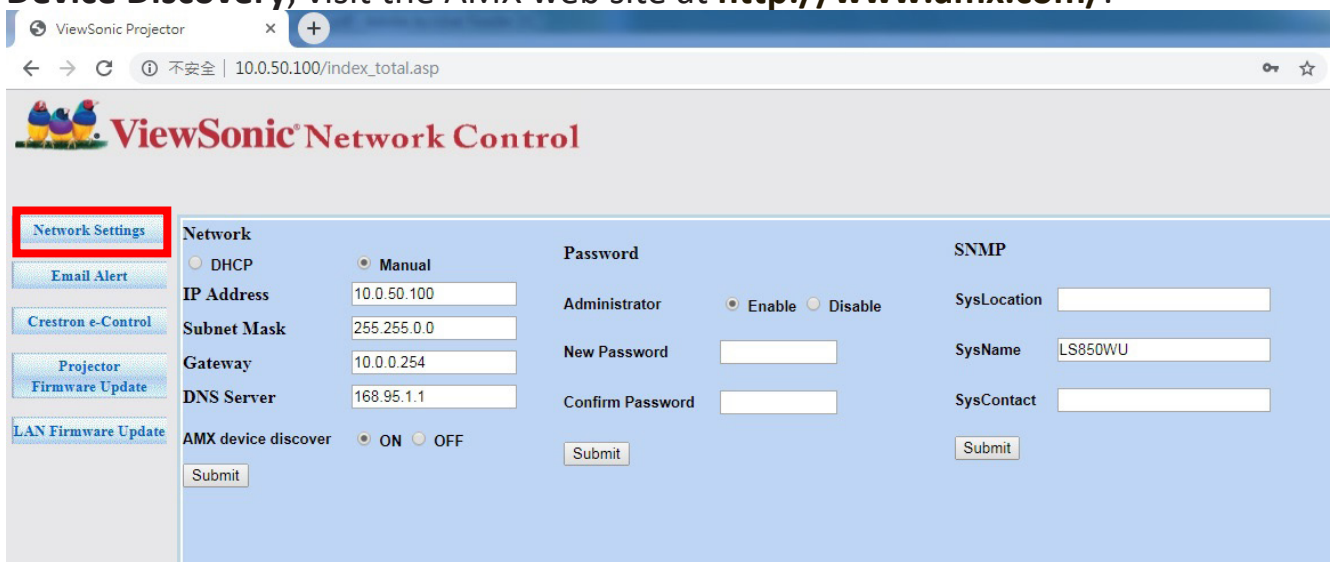


The main page of the Network Control will appear.

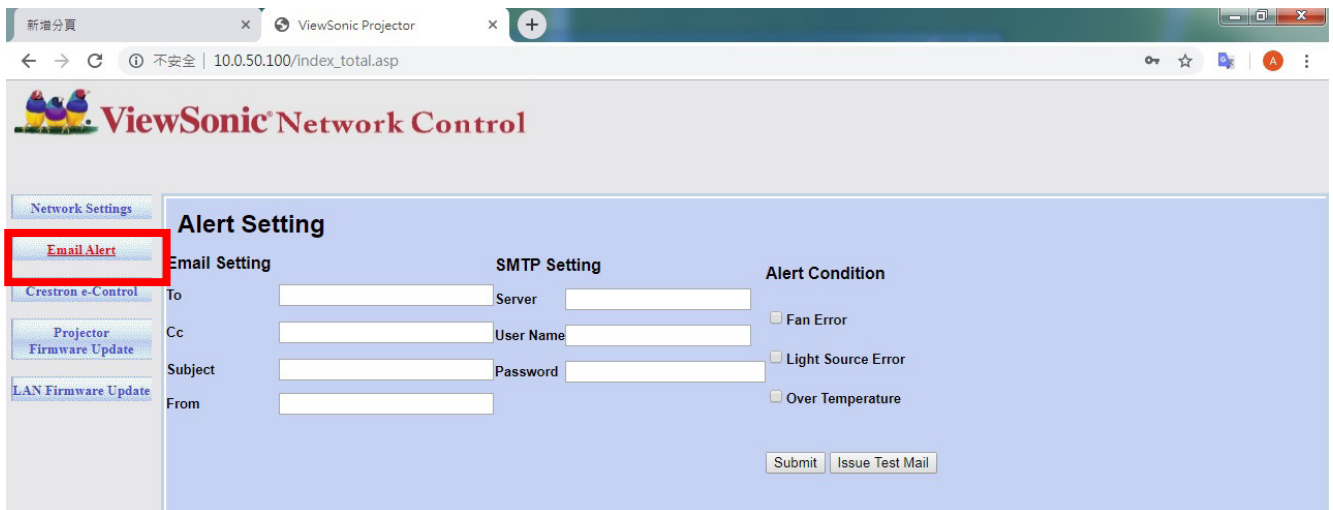


NOTE: Accessing the Network Settings, Email Alert page, or Projector/LAN Firmware Update page requires the Administrator's password. The default password is "0000".

2. This page allows you to make adjustments to the AMX and SNMP settings. In the **AMX device discover** row, when **ON** is selected, the projector can be detected by controllers of AMX connected to the same network. For the details of **AMX Device Discovery**, visit the AMX web site at <http://www.amx.com/>.



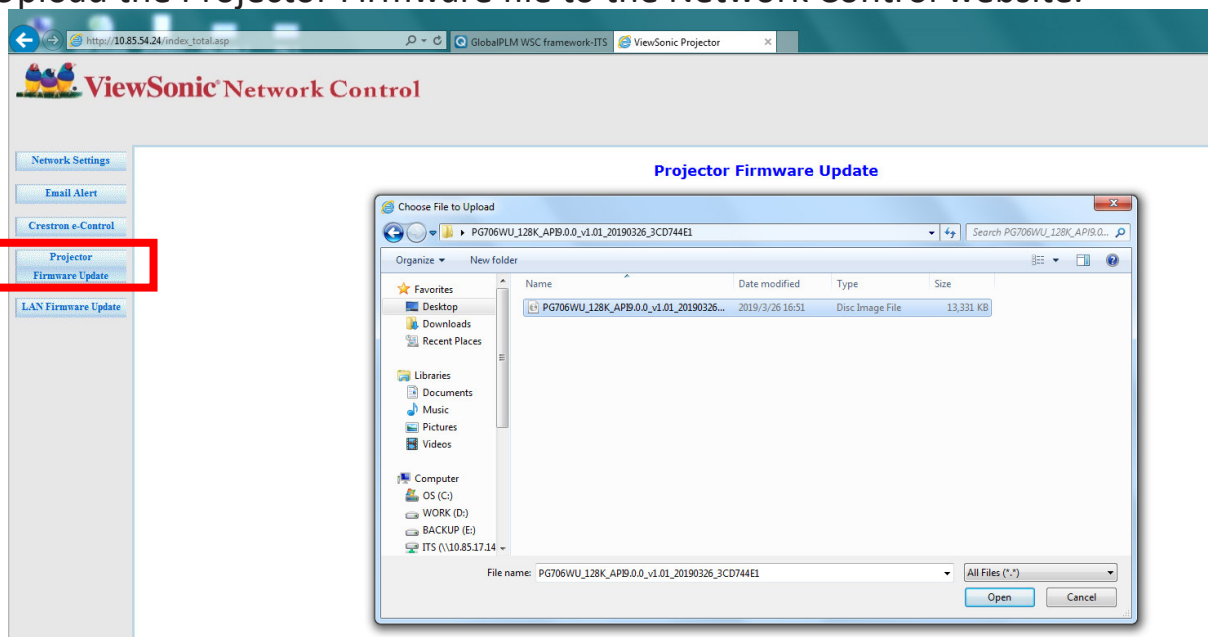
3. If your projector is connected to a network which supports Simple Mail Transfer Protocol (SMTP), you can configure it to alert you via email on significant events.



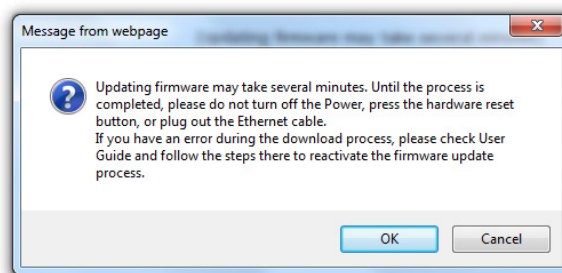
4. The **Crestron (e-Control)®** page displays the Crestron e-Control user interface.

5. Projector Firmware Update

- i. Visit ViewSonic's website to download the Projector Software Update Firmware by LAN: <https://www.viewsonic.com>.
- ii. Upload the Projector Firmware file to the Network Control website.



iii. Please read the Warning message and press the “OK” button to confirm the update.



NOTE: If the download process fails, please refer to the “Projector Software Update Firmware by USB” below.

A. Visit ViewSonic’s website to download the Projector Software Update Firmware : **<https://www.viewsonic.com>**.

B. Connect the USB A cable to the projector and computer.

C. Continuously press the projector’s **Power** Key and **Menu** Key while connected to a power outlet.

D. The LED will begin to flash, and downloading will restart.

v. The software program will start automatically. Please wait for a few minutes until it is completed.

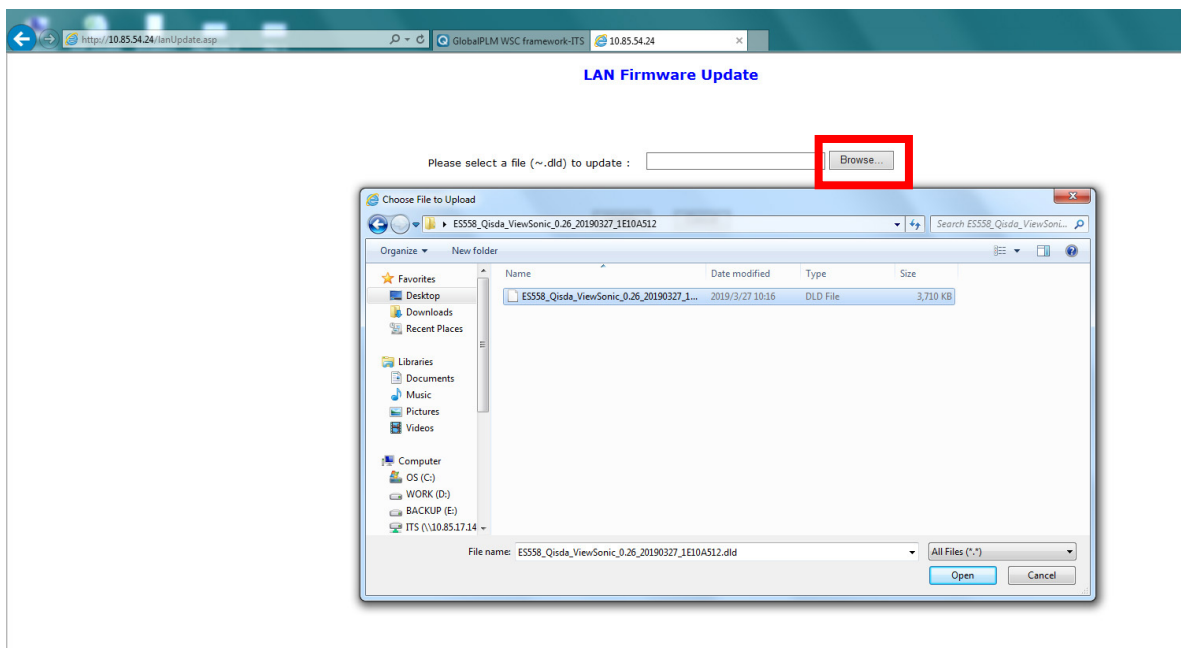
vi. Click “Exit” once the update has finished.

CAUTION: Do not turn off the projector or computer while updating.

6. LAN Firmware Update

i. Visit ViewSonic’s website to download the LAN Firmware:
<https://www.viewsonic.com>.

ii. Upload the LAN Firmware file to the Network Control website.

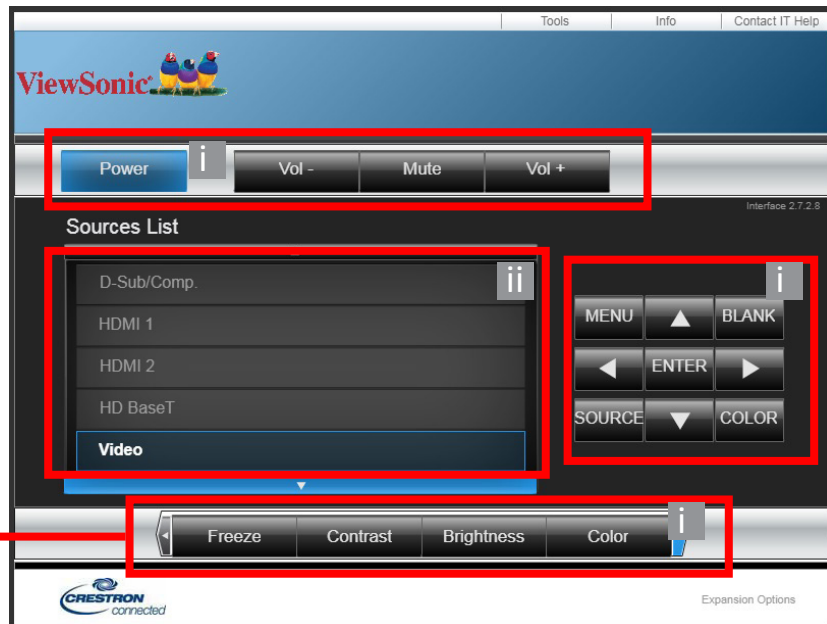


iii. After finishing the LAN Firmware update, please go to **Crestron e-Control®** page and click the “info” button to check the LAN Firmware version.

About Crestron e-Control®

1. The Crestron e-Control® page provides a variety of virtual keys to control the projector or adjust the projected pictures.

You can press
◀/▶ to
reveal more
buttons.



- i. These buttons function the same as the ones on the OSD menus or remote control.
- ii. To switch between input signals, click on your desired signal.

NOTE:

- The source list varies according to the connections available on the projector.
- When you use the projector control panel or remote control to change the OSD menu settings, it may take a while for the web browser to synchronize these changes with the projector.

2. The **Tools** page allows you to manage the projector, configure the LAN control settings and secure access to remote network operations on this projector.

The screenshot shows the ViewSonic remote control interface. At the top, there is a navigation bar with 'Tools', 'Info', and 'Contact IT Help'. The main area is divided into several sections, each with a red box and a label:

- i. Crestron Control:** Includes fields for IP Address (255.255.255.255), IP ID (7), and Port (41794), with a 'Send' button.
- ii. Projector:** Includes fields for Projector Name (LS850WU), Location, and Assigned To (ViewSonic Projector), with a 'Send' button.
- iii. DHCP:** Includes a checkbox for 'Enabled' and fields for IP Address (10.0.50.100), Subnet Mask (255.255.0.0), Default Gateway (10.0.0.254), and DNS Server (168.95.1.1), with a 'Send' button.
- iv. User Password:** Includes a checkbox for 'Enabled', 'New Password', and 'Confirm' fields, with a 'Send' button.
- v. Admin Password:** Includes a checkbox for 'Enabled', 'New Password', and 'Confirm' fields, with a 'Send' button.
- vi. Exit:** A button labeled 'Exit'.

At the bottom, there is a 'CRESTRON connected' logo and 'Expansion Options' text.

- i. This section is only used with the Crestron Control System. Please contact Creston or refer to its user manual for setup information.
- ii. You can name the projector, keep track of its location and the person in charge of it.
- iii. You can adjust the **LAN Control Settings**.
- iv. Once set, access to the remote network operation on this projector will be password-protected.
- v. Once set, access to the tools page will be password-protected.

NOTE:

- To prevent errors, only input the English alphabet and digits on the **Tools** page.
- After making the adjustments, press the “Send” button and the data will be saved for the projector.

vi. Press “Exit” to go back to the Remote Network Operation page.

Please pay attention to the limitation of input length (including space and other punctuation keys) in the list blow:

Category Item	Input Length	Maximum Number of Characters
Crestron Control	IP Address	15
	IP ID	4
	Port	5
Projector	Projector Name	22
	Location	22
	Assigned To	22

Category Item	Input Length	Maximum Number of Characters
Network Configuration	DHCP (Enabled)	(N/A)
	IP Address	15
	Subnet Mask	15
	Default Gateway	15
	DNS Server	15
User Password	Enabled	(N/A)
	New Password	15
	Confirm	15
Admin Password	Enabled	(N/A)
	New Password	15
	Confirm	15

3. The **Info** page displays the information and status of the projector.

Press “Exit” to go back to the Remote Network Operation page.

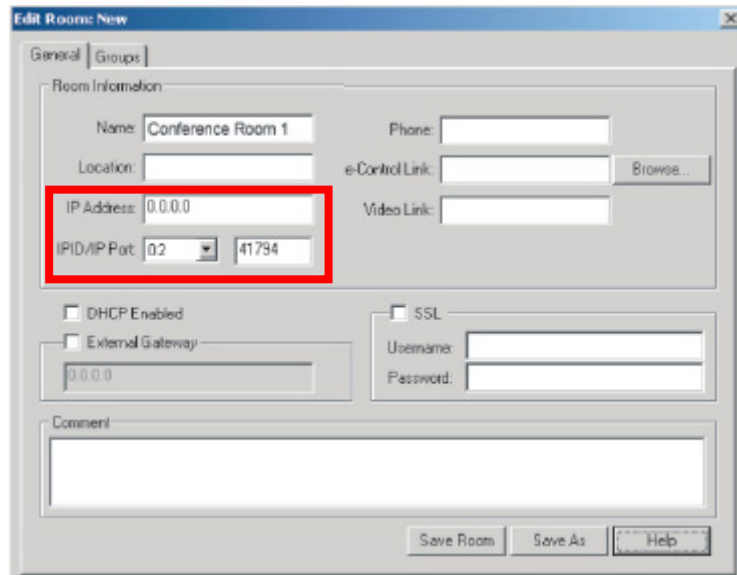
The screenshot shows the ViewSonic projector's web interface. At the top, there is a navigation bar with 'Tools', 'Info' (highlighted with a red box), and 'Contact IT Help'. Below the navigation bar is the ViewSonic logo. The main content area is divided into two columns: 'Projector Information' and 'Projector Status'. The 'Projector Information' column includes fields for Projector Name (LS750WU), Location, PRJ/LAN FW Ver. (1.00/0.07), MAC Address (FC:23:25:06:15:11), Resolution (0 X 0.0 Hz), Light Source Usage (32), and Assigned To (ViewSonic Projector). The 'Projector Status' column includes fields for Power Status (Power On), Source (D-Sub/Comp.), Color Mode (Standard), Projector Position (Front Table), Light Source mode (Normal), and Error Status (0:No Error). At the bottom center, there is an 'Exit' button. A red line points from the text 'Press “Exit” to go back to the Remote Network Operation page.' to the 'Exit' button. The bottom of the screen features the 'CRESTRON connected' logo and 'Expansion Options' text.

4. After selecting the “**Contact IT Help**”, the HELP DESK window will appear in the upper right corner of the screen. You will be able to deliver messages to RoomView™ software administrators/users who are connected to the same local area network.

For more information, visit <http://www.crestron.com> & www.crestron.com/getroomview.

Crestron RoomView

On the “Edit Room” page, enter the IP Address (or hostname) as shown on the projector’s on-screen display (OSD) menu, and “02” for IPID, “41794” for the reserved Crestron control port.



Please go to the below website to get the RoomView™ User Guide and more information:

http://www.crestron.com/products/roomview_connected_embedded_projectors_devices/resources.asp

PJLink™, SNMP, AMX and Xpanel Formats Supported

This projector is PJLink™, SNMP V.1, AMX or Xpanel V1.10 compliant. For details, please follow its user guide or website respectively to control and manage projectors.

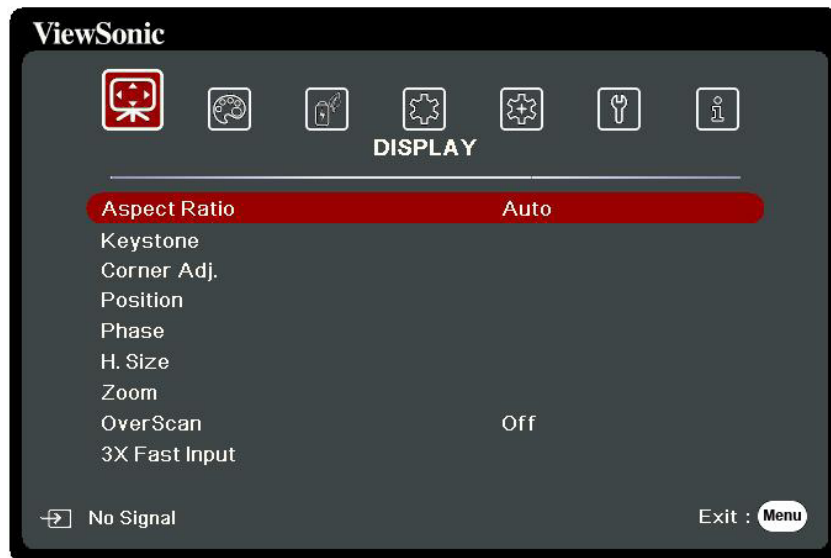
> Menu Functions

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	-40~40
	Corner Adj.	Top-Right	45°/90°
		Top-Left	45°/90°
		Bottom-Right	45°/90°
		Bottom-Left	45°/90°
	Position	X: -5 ~ 5, Y: - 5 ~ 5	
	Phase	0~31	
	H. Size	-15~15	
	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.	8000K/6500K/5500K	
		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
		Tint	-50~50
		Sharpness	0~31
		Gamma	1.8/2.0/2.2/2.35/ 2.5/Cubic/sRGB
		Brilliantcolor	Off/1/2/3/4/ 5/6/7/8/9/10
		Noise Reduction	0~31
		Color Management	Primary Color
			Hue
			Saturation
			Gain
	Reset Color Settings	Reset	
		Cancel	

Main Menu	Sub-menu	Menu Option	
POWER MANAGEMENT	Auto Power On	Signal	Disable/VGA/HDMI/All
		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	VGA Loop Through	Off/On
		Audio Pass Through	Off/On
	USB A Power	On	
		Off	

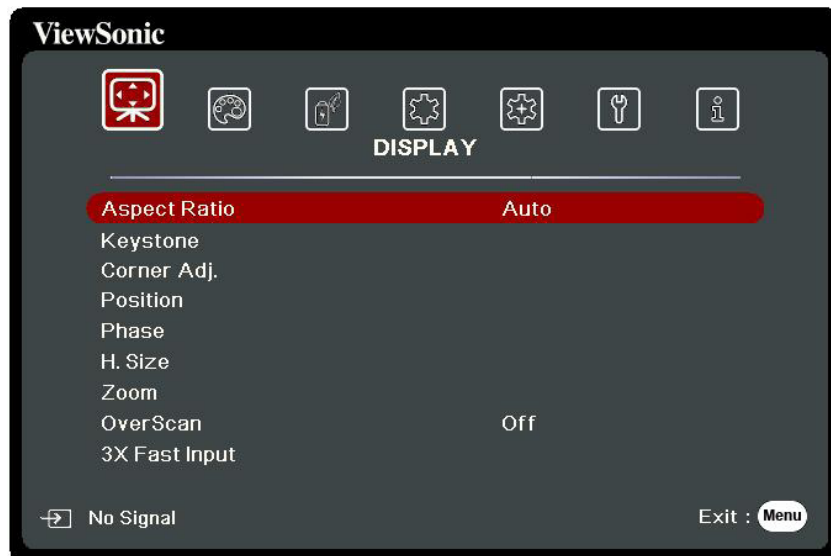
Main Menu	Sub-menu	Menu Option		
BASIC	Audio Settings	Mute	Off/On	
		Audio Volume	0~20	
		Power On/Off Ring Tone	Off/On	
	Presentation Timer	Timer Period	1~240 m	
		Timer Display	Always/1 min/2 min/3 min/Never	
		Timer Position	Top-Left/Bottom-Left/Top-Right/Bottom-Right	
		Timer Counting Direction	Count Down/Count Up	
		Sound Reminder	Off/On	
		Start Counting/Off		
		Pattern		
		Off		
		Test Card		
	Blank Timer	Disable/5 min/10 min/15 min/20 min/25 min/30 min		
	Message	Off		
		On		
	Splash Screen	Black		
		Blue		
ViewSonic				
ADVANCED	3D Settings	3D Glasses	DLP/3D VESA	
		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 Eco/Custom
		Light Source Power	20%~100%
		Reset Light Source Hours	Reset/Cancel
		Light Source Hours Information	Light Source Usage Time
			Normal
			Eco
			Dynamic Eco
		Custom	
	Closed Caption	Closed Caption Enable	Off/On
		Caption Version	CC1/CC2/CC3/CC4
	Reset Settings	Reset	
		Cancel	
	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

Main Menu	Sub-menu	Menu Option	
SYSTEM	High Altitude Mode	Off	
		On	
	Quick Auto Search	Off	
		On	
	Security Settings	Change Password	Off/On
		Power On Lock	
	Panel Key Lock	Off	
		On	
	Remote Control Code	1/2/3/4/5/6/7/8	
	Control Method	RS-232	
		USB	
		HDBaseT	(only for LS850WU/LS860WU)
	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.

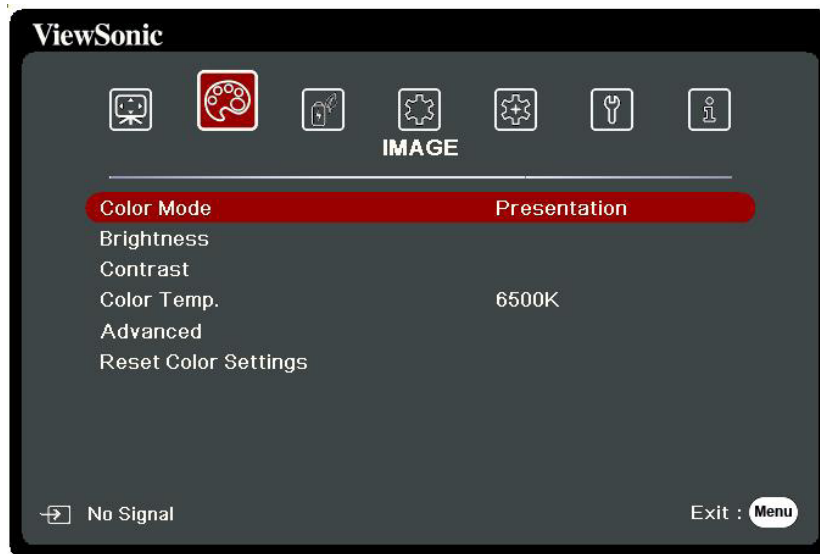
NOTE: Some sub-menu options may have another sub-menu. To enter the respective sub-menu, press **Enter**. Use ▲/▼ or ◀/▶ to adjust/select the setting.

Menu Option	Description
Aspect Ratio	<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. <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. <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. <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. <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.
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.
Position	Adjust the position of the projected image. NOTE: • This function is only available when a PC input signal is selected. • The adjustment range may vary under different timings.
Phase	Adjusts the clock phase to reduce image distortion. NOTE: This function is only available when a PC input signal is selected.

Menu Option	Description
H. Size	Adjusts the horizontal width of the image. NOTE: This function is only available when a PC input signal is selected.
Zoom	Magnifies the projected image and allows you to navigate the image.
OverScan	Adjusts the overscan rate from 0% to 5%. NOTE: This function is only available when a Composite Video or HDMI input signal is selected.
3X Fast Input	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: Aspect Ratio, Position, Zoom, OverScan. NOTE: This function is only available when a native timing input signal is selected.

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.

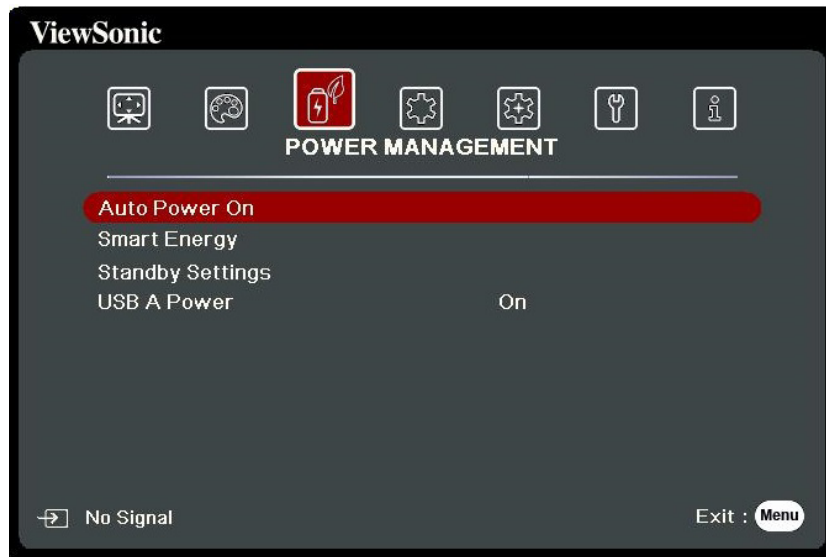
Menu Option	Description
Color Mode	<u>Brightest</u> Maximizes the brightness of the projected image. This mode is suitable for environments where extra-high brightness is required, such as using the projector in well lit rooms. <u>Presentation</u> Designed for presentations under daylight environment to match PC and notebook coloring. <u>Standard</u> Designed for normal circumstances in a daylight environment. <u>Photo</u> Designed for photo viewing. <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. <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.
Brightness	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.  -30 50 +80
Contrast	Use this to set the peak white level after you have previously adjusted the Brightness setting.  -30 0 +40

Menu Option	Description
Color Temp.	<u>8000K</u> Images appear bluish white. <u>6500K</u> Images maintain a normal white appearance. <u>5500K</u> Images appear reddish white. To set a custom color temperature, you can further adjust the following items: <u>Red Gain/Green Gain/Blue Gain</u> Adjusts the Contrast levels of Red, Green, and Blue. <u>Red Offset/Green Offset/Blue Offset</u> Adjusts the Brightness levels of Red, Green, and Blue.
Advanced	<u>Color</u> A lower setting produces less saturated colors. If the setting is too high, colors will be overpowering and may appear unrealistic. <u>Tint</u> A higher value will make the picture more greenish while a lower value will make the picture more reddish. <u>Sharpness</u> A higher value will sharpen the image, while a lower value will soften the image. <u>Gamma</u> Gamma refers to the brightness level of the projector's grayscale levels. <u>Brilliantcolor</u> This feature utilizes a new color-processing algorithm and system level enhancements to enable higher brightness while providing truer, more vibrant colors in the projected picture. It enables a greater than 50% brightness increase in mid-tone images, which are common in video and natural scenes, so the projector reproduces images in realistic and true colors. If you prefer images with that quality, select a level that suits your need.

Menu Option	Description
Advanced	<u>Noise Reduction</u> This function reduces electrical image noise caused by different media players. The higher the setting, the less the noise. (Not available when input signal is HDMI.) <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.
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.

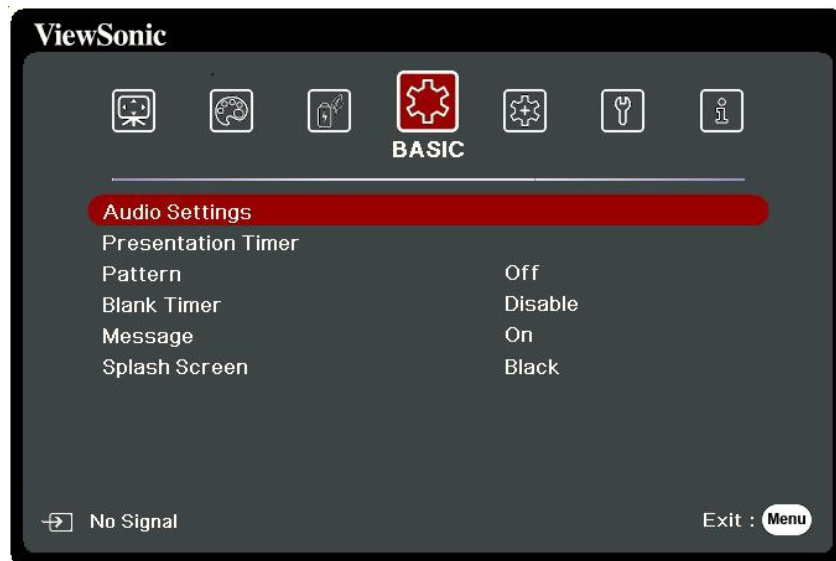
NOTE: Some sub-menu options may have another sub-menu. To enter the respective sub-menu, press **Enter**. Use ▲/▼ or ◀/▶ to adjust/select the setting.

Menu Option	Description
Auto Power On	<u>Signal</u> Selecting VGA/HDMI allows the projector to turn on automatically once the VGA/HDMI signal is fed through the VGA/HDMI cable. You can also select All and the projector will turn on automatically upon receiving either a VGA or HDMI signal. <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. NOTE: • 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. <u>Direct Power On</u> Allows the projector to turn on automatically once power is fed through the power cord.
Smart Energy	<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. <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. <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.

Menu Option	Description
Standby Settings	The functions below are available in standby mode (plugged in, but not turned on). <u>VGA Loop Through</u> When selecting On, the projector outputs the signal received only from COMPUTER IN. <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.
USB A Power	When On, the USB Type A port can supply power, and the Control Method will automatically switch to RS-232.

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.

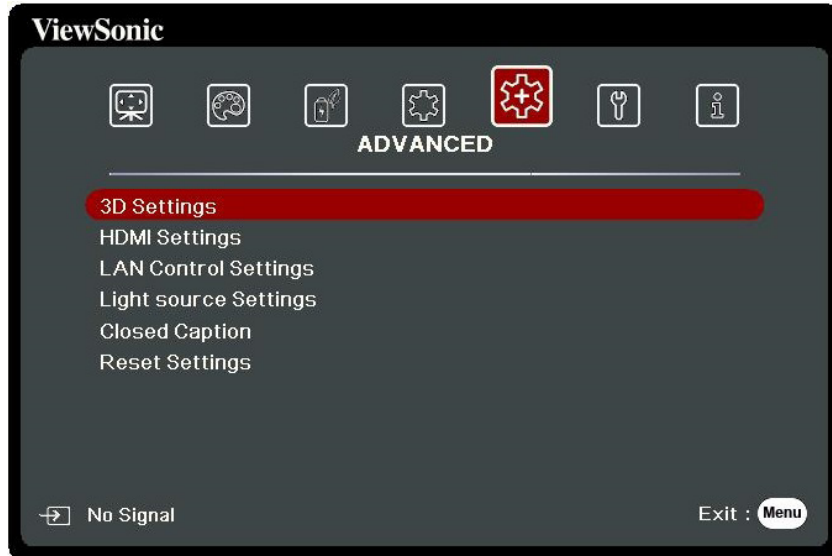
NOTE: Some sub-menu options may have another sub-menu. To enter the respective sub-menu, press **Enter**. Use ▲/▼ or ◀/▶ to adjust/select the setting.

Menu Option	Description
Audio Settings	<u>Mute</u> Select On to temporarily turn off the projector's internal speaker or the volume being output from the audio output jack. <u>Audio Volume</u> Adjusts the volume level of the projector's internal speaker or the volume being output from the audio output jack. <u>Power On/Off Ring Tone</u> Turns on/off the ring tone during the starting up and shutting down process.
Presentation Timer	Presentation timer can indicate the presentation time on the screen to help you achieve better time management when giving presentations. <u>Timer Period</u> Sets the time period. If the timer is already on, the timer will restart whenever the Timer Period is reset. <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: » Always: Displays the timer on screen throughout the presentation time. » 1 min/2 min/3 min: Displays the timer on screen in the last 1/2/3 minute(s). » Never: Hides the timer throughout the presentation time. <u>Timer Position</u> Sets the timer position. <u>Timer Counting Direction</u> Sets your desired counting direction between: » Count Down: Decreases from the preset time to 0. » Count Up: Increases from 0 to the preset time. <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. <u>Start Counting/Off</u> Select Start Counting to activate the timer. Select Off to cancel it.

Menu Option	Description
Pattern	Helps adjust the image size and focus, and checks for distortion in the projected image.
Blank Timer	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. NOTE: Do not block the projection lens as this could cause the blocking object to become heated and deformed or even cause a fire.
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.

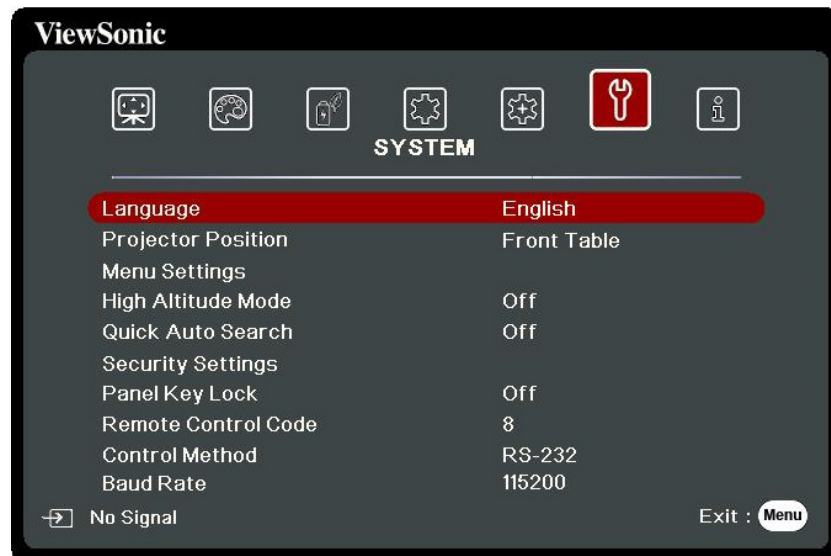
Menu Option	Description
3D Settings	This projector features a 3D function which enables you to enjoy 3D movies, videos, and sporting events in a more realistic way by presenting the depth of the images. You need to wear a pair of 3D glasses to view 3D images. <u>3D Glasses</u> Chooses the appropriate type of 3D glasses. <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. <u>3D Sync Invert</u> When you discover the inversion of the image depth, enable this function to correct the problem. <u>Save 3D Settings</u> Saves current 3D settings. 3D settings will automatically be applied if the same resolution and input source are selected. NOTE: When the 3D Sync function is on: • The brightness level of the projected image will decrease. • The Color Mode, Light Source Mode, Zoom, and OverScan cannot be adjusted.
HDMI Settings	<u>HDMI Format</u> Select a suitable color space according to the color space setting of the output device connected. » Auto: Sets the projector to detect the color space setting of the input signal automatically. » RGB: Sets the color space as RGB. » YUV: Sets the color space as YUV. <u>HDMI Range</u> Select a suitable HDMI color range according to the color range setting of the output device connected. » Auto: Sets the projector to detect the HDMI range of the input signal automatically. » Enhanced: Sets the HDMI color range as 0 - 255. » Normal: Sets the HDMI color range as 16 - 235.

Menu Option	Description					
LAN Control Settings	<u>LAN Settings</u> » 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. » Static IP: Select this if you are in a non-DHCP environment and make adjustments to below settings. <table border="1"> <tr> <td><u>Projector IP Address</u></td><td 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><u>Subnet Mask</u></td></tr> <tr> <td><u>Default Gateway</u></td></tr> <tr> <td><u>DNS Server</u></td></tr> </table> <u>Standby LAN Control</u> Allows the projector to provide the network function in standby mode. <u>Apply</u> Enacts the settings.	<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>						
Light Source Settings	<u>Light Source Mode</u> » Normal: Provides full light source brightness. » Eco: Reduces light source power consumption by 30% and lowers brightness to decrease the fan noise. » Dynamic Eco: Reduces light source power consumption by up to 30% depending on the content brightness level. » Custom: Allows you to adjust the light source power. <u>Light Source Power</u> Only available when Light Source Mode is Custom. <u>Reset Light Source Hours</u> Resets the light source timer after new light source is installed. For changing the light source, please contact qualified service personnel. <u>Light Source Hours Information</u> » Light Source Usage Time: Displays the number of hours the light source has been used.					

Menu Option	Description
Closed Caption	<u>Closed Caption Enable</u> Activates the function when the selected input signal carries closed captions. NOTE: • Captions: An on-screen display of the dialogue, narration, and sound effects of TV programs and videos that are closed captioned (usually marked as “CC” in TV listings). • This function is only available when a Composite video input signal is selected and its system format is NTSC. <u>Caption Version</u> To view captions, select CC1, CC2, CC3, or CC4 (CC1 displays captions in the primary language in your area).
Reset Settings	Returns all settings to the factory preset values. When using Reset Settings, the following settings will still remain: Keystone, Corner Adj., Zoom, USB A Power, Light Source Mode, Light Source Power, Language, Projector Position, LAN Settings, High Altitude Mode, Security Settings, Remote Control Code, Control Method, 3D Glasses and Baud Rate.

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.



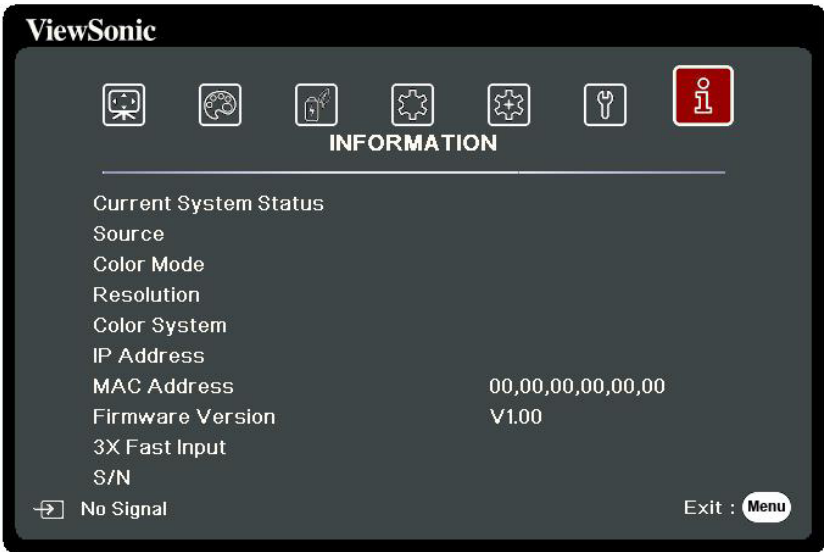
3. Press ▲/▼ to select the menu option. Then press **Enter** to display its sub-menu, or press ◀/▶ to adjust/select the setting.

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	<u>Menu Display Time</u> Sets the length of time the OSD Menu will remain active after your last interaction. <u>Menu Position</u> Sets the OSD Menu's position.
High Altitude Mode	We recommend you use the High Altitude Mode when your environment is between 1,500 m to 3,000 m above sea level, and ambient temperature is between 5°C–25°C. NOTE: - Do not use High Altitude Mode if your environment is between 0 to 1,499 m, and the temperature is between 5°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.
Quick Auto Search	Allows the projector to automatically search for the signals.
Security Settings	See “Using the Password Function” on page 23.
Panel Key Lock	Locks the control keys on the projector.
Remote Control Code	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. 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.
Control Method	Allows you to select a preferred control port: through the RS-232 port, the USB port or the HDBaseT 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 RS-232 cable and control the projector with RS-232 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

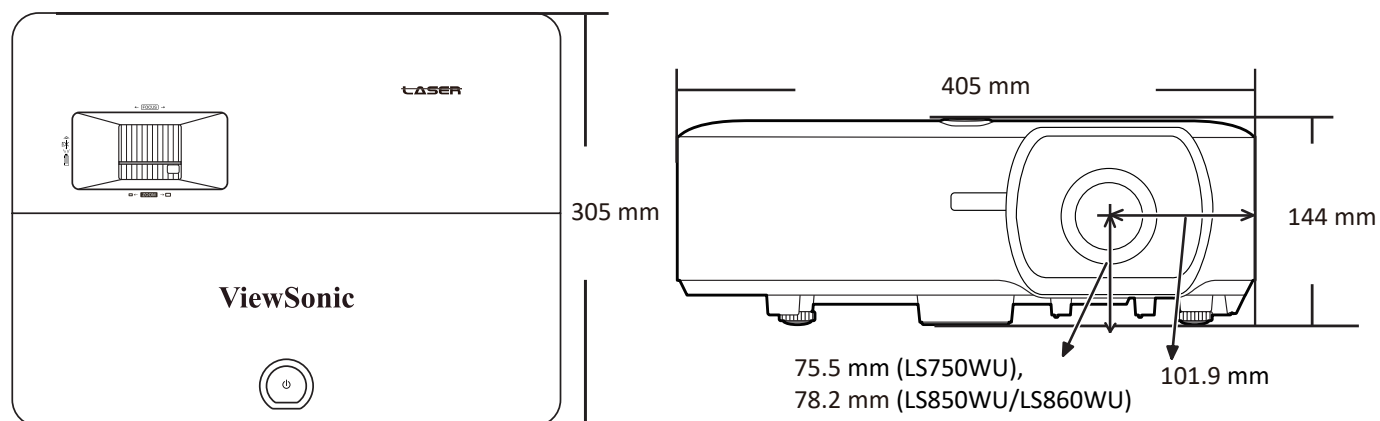
Item	Category	LS750WU	LS850WU	LS860WU
Projector	Type	Laser		
	Display Size	30" ~ 300"		
	Brightness (Lumens)	5,000 ANSI		
	Throw Ratio	1.13~1.47 (100"±3% @2.4m)	1.36~2.18 (100"±3% @2.9m)	0.81-0.89 (100"±3% @1.7m)
	Lens	1.3x±3% Optical Zoom	1.6x±3% Optical Zoom	1.1x±3% Optical Zoom
	Light Source Type	Nichia 67W x2		
	Display System	1-CHIP DMD		
Input Signal	VGA	f_h : 15K~102KHz, f_v :48~120Hz, Pixel rate: 170MHz		
	HDMI	f_h : 15K~102KHz, f_v :23~120Hz, Pixel rate: 170MHz		
Resolution	Native	1920 x 1200		
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 1,499 m at 5°C to 35°C 1,500 to 3,000 m at 5°C to 25°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)	405 mm x 305 mm x 144 mm (15.9" x 12" x 5.7")		
Weight	Physical	5.9 kg (13 lbs)	6.4 kg (14.1 lbs)	6.6 kg (14.6 lbs)
Power Saving Modes	On ²	460W (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

405 mm (W) x 305 mm (D) x 144 mm (H)



Timing Chart

Analog RGB

Resolution	Mode	Refresh rate (Hz)	H-frequency (kHz)	Clock (MHz)	3D Sync		
					Frame Sequential	Top-Bottom	Side-by-Side
720 x 400	720 x 400_70	70.087	31.469	28.3221			
640 x 480	VGA_60	59.94	31.469	25.175	Supported	Supported	Supported
	VGA_72	72.809	37.861	31.5			
	VGA_75	75	37.5	31.5			
	VGA_85	85.008	43.269	36			
800 x 600	SVGA_60	60.317	37.879	40	Supported	Supported	Supported
	SVGA_72	72.188	48.077	50			
	SVGA_75	75	46.875	49.5			
	SVGA_85	85.061	53.674	56.25			
	SVGA_120 (Reduce Blanking)	119.854	77.425	83	Supported		
1024 x 768	XGA_60	60.004	48.363	65	Supported	Supported	Supported
	XGA_70	70.069	56.476	75			
	XGA_75	75.029	60.023	78.75			
	XGA_85	84.997	68.667	94.5			
	XGA_120 (Reduce Blanking)	119.989	97.551	115.5	Supported		
1152 x 864	1152 x 864_75	75	67.5	108			
1024 x 576	NB Timing	60	35.82	46.966			
1024 x 600	NB Timing	64.995	41.467	51.419			
1280 x 720	1280 x 720_60	60	45	74.25	Supported	Supported	Supported
1280 x 768	1280 x 768_60	59.87	47.776	79.5	Supported	Supported	Supported

Resolution	Mode	Refresh rate (Hz)	H-frequency (kHz)	Clock (MHz)	3D Sync		
					Frame Sequential	Top-Bottom	Side-by-Side
1280 x 800	WXGA_60	59.81	49.702	83.5	Supported	Supported	Supported
	WXGA_75	74.934	62.795	106.5			
	WXGA_85	84.88	71.554	122.5			
	WXGA_120 (Reduce Blanking)	119.909	101.563	146.25	Supported		
1280 x 1024	SXGA_60	60.02	63.981	108		Supported	Supported
	SXGA_75	75.025	79.976	135			
	SXGA_85	85.024	91.146	157.5			
1280 x 960	1280 x 960_60	60	60	108		Supported	Supported
	1280 x 960_85	85.002	85.938	148.5			
1360 x 768	1360 x 768_60	60.015	47.712	85.5		Supported	Supported
1440 x 900	WXGA+_60	59.887	55.935	106.5		Supported	Supported
1400 x 1050	SXGA+_60	59.978	65.317	121.75		Supported	Supported
1600 x 1200	UXGA	60	75	162		Supported	Supported
1680 x 1050	1680x1050_60	59.954	65.29	146.25		Supported	Supported
640 x 480@67Hz	MAC13	66.667	35	30.24			
832 x 624@75Hz	MAC16	74.546	49.722	57.28			
1024 x 768@75Hz	MAC19	74.93	60.241	80			
1152 x 870@75Hz	MAC21	75.06	68.68	100			
1920 x 1080 (VESA)	1920 x 1080_60	60	67.5	148.5			
1920 x 1200	1920 x 1200_60 (Reduce Blanking)	59.950	74.038	154.000		Supported	Supported

HDMI (PC)

Resolution	Mode	Refresh rate (Hz)	H-frequency (kHz)	Clock (MHz)	3D Sync		
					Frame Sequential	Top-Bottom	Side-by-Side
640 x 480	VGA_60	59.94	31.469	25.175	Supported	Supported	Supported
	VGA_72	72.809	37.861	31.5			
	VGA_75	75	37.5	31.5			
	VGA_85	85.008	43.269	36			
720 x 400	720 x 400_70	70.087	31.469	28.3221			
800 x 600	SVGA_60	60.317	37.879	40	Supported	Supported	Supported
	SVGA_72	72.188	48.077	50			
	SVGA_75	75	46.875	49.5			
	SVGA_85	85.061	53.674	56.25			
	SVGA_120 (Reduce Blanking)	119.854	77.425	83	Supported		
1024 x 768	XGA_60	60.004	48.363	65	Supported	Supported	Supported
	XGA_70	70.069	56.476	75			
	XGA_75	75.029	60.023	78.75			
	XGA_85	84.997	68.667	94.5			
	XGA_120 (Reduce Blanking)	119.989	97.551	115.5	Supported		
1152 x 864	1152 x 864_75	75	67.5	108			
1024 x 576	NB Timing	60	35.82	46.966			
1024 x 600	NB Timing	64.995	41.467	51.419			
1280 x 720	1280 x 720_60	60	45	74.25	Supported	Supported	Supported
1280 x 768	1280 x 768_60	59.87	47.776	79.5	Supported	Supported	Supported
1280 x 800	WXGA_60	59.81	49.702	83.5	Supported	Supported	Supported
	WXGA_75	74.934	62.795	106.5			
	WXGA_85	84.88	71.554	122.5			
	WXGA_120 (Reduce Blanking)	119.909	101.563	146.25	Supported		
1280 x 1024	SXGA_60	60.02	63.981	108		Supported	Supported
	SXGA_75	75.025	79.976	135			
	SXGA_85	85.024	91.146	157.5			
1280 x 960	1280 x 960_60	60	60	108		Supported	Supported
	1280 x 960_85	85.002	85.938	148.5			
1360 x 768	1360 x 768_60	60.015	47.712	85.5		Supported	Supported
1440 x 900	WXGA+_60	59.887	55.935	106.5		Supported	Supported
1400 x 1050	SXGA+_60	59.978	65.317	121.75		Supported	Supported
1600 x 1200	UXGA	60	75	162		Supported	Supported

Resolution	Mode	Refresh rate (Hz)	H-frequency (kHz)	Clock (MHz)	3D Sync		
					Frame Sequential	Top-Bottom	Side-by-Side
1680 x 1050	1680x1050_60	59.954	65.29	146.25		Supported	Supported
640 x 480@67Hz	MAC13	66.667	35	30.24			
832 x 624@75Hz	MAC16	74.546	49.722	57.28			
1024 x 768@75Hz	MAC19	74.93	60.241	80			
1152 x 870@75Hz	MAC21	75.06	68.68	100			
1920 x 1080 (VESA)	1920 x 1080_60	60	67.5	148.5			
1920 x 1200	1920 x 1200_60 (Reduce Blanking)	59.950	74.038	154.000		Supported	Supported

HDMI (Video)

Video mode	Resolution	Horizontal frequency (KHz)	Vertical frequency (Hz)	Dot Clock frequency (MHz)	3D Sync			
					Frame Sequential	Frame Packing	Top-Bottom	Side-by-Side
480i	720(1440) x 480	15.73	59.94	27	Supported			
480p	720 x 480	31.47	59.94	27	Supported		Supported	Supported
576i	720(1440) x 576	15.63	50	27	Supported			
576p	720 x 576	31.25	50	27	Supported		Supported	Supported
720/50p	1280 x 720	37.5	50	74.25			Supported	
720/60p	1280 x 720	45	60	74.25			Supported	
1080/50i	1920 x 1080	28.13	50	74.25				Supported
1080/60i	1920 x 1080	33.75	60	74.25				Supported
1080/24P	1920 x 1080	27	24	74.25				
1080/50P	1920 x 1080	56.25	50	148.5			Supported	Supported
1080/60P	1920 x 1080	67.5	60	148.5			Supported	Supported

Video/S-Video

Video mode	Horizontal frequency (KHz)	Vertical frequency (Hz)	Sub-carrier Frequency (MHz)
NTSC	15.73	60	3.58
PAL	15.63	50	4.43
SECAM	15.63	50	4.25 or 4.41
PAL-M	15.73	60	3.58
PAL-N	15.63	50	3.58
PAL-60	15.73	60	4.43
NTSC4.43	15.73	60	4.43

Component video

Video mode	Resolution	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock (MHz)	3D Sync
					Frame Sequential
480i	720 x 480	15.73	59.94	13.5	Supported
480p	720 x 480	31.47	59.94	27	Supported
576i	720 x 576	15.63	50	13.5	Supported
576p	720 x 576	31.25	50	27	Supported
720/50p	1280 x 720	37.5	50	74.25	
720/60p	1280 x 720	45	60	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	

IR Control Table

Key	Format	Byte 1	Byte 2	Byte 3	Byte 4
 On	NEC-F2	83	F4	4F	B0
 Off	NEC-F2	83	F4	4E	B1
COMP	NEC-F2	83	F4	41	BE
HDMI/HDMI 1	NEC-F2	83	F4	58	A7
HDMI 2	NEC-F2	83	F4	59	A6
Auto Sync	NEC-F2	83	F4	8	F7
Source	NEC-F2	83	F4	40	BF
 Up/ 	NEC-F2	83	F4	0B	F4
 Left/ 	NEC-F2	83	F4	0E	F1
Enter/ 	NEC-F2	83	F4	15	EA
 Right/ 	NEC-F2	83	F4	0F	F0
 Down/ 	NEC-F2	83	F4	0C	F3
Menu	NEC-F2	83	F4	30	CF
 (INFORMATION)	NEC-F2	83	F4	97	68
Exit	NEC-F2	83	F4	28	D7
Aspect	NEC-F2	83	F4	13	EC
Freeze	NEC-F2	83	F4	03	FC
Pattern	NEC-F2	83	F4	55	AA
Blank	NEC-F2	83	F4	7	F8
PgUp	NEC-F2	83	F4	06	F9
PgDn	NEC-F2	83	F4	05	FA
 (Mute)	NEC-F2	83	F4	14	EB
 -(Volume Down)	NEC-F2	83	F4	83	7C
 +(Volume Up)	NEC-F2	83	F4	82	7D
 (Zoom in)	NEC-F2	83	F4	67	98
 (Zoom out)	NEC-F2	83	F4	68	97
Eco Mode	NEC-F2	83	F4	2B	D4
Color Mode	NEC-F2	83	F4	10	EF
Network	NEC	X3	F4	69	96

Key	Format	Byte 1	Byte 2	Byte 3	Byte 4
🕒 (Presentation Timer)	NEC	X3	F4	27	D8
VIDEO	NEC	83	F4	52	AD

Address Code

Code 1	83F4
Code 2	93F4
Code 3	A3F4
Code 4	B3F4
Code 5	C3F4
Code 6	D3F4
Code 7	E3F4
Code 8	F3F4

RS-232 Command Table

Pin Assignment

Pin	Description	Pin	Description	
1	NC	2	RX	
3	TX	4	NC	
5	GND	6	NC	
7	RTSZ	8	CTSZ	
9	NC			

Interface

RS-232 Protocol	
Baud Rate	115200 bps (default)
Data Length	8 bit
Parity Check	None
Stop Bit	1 bit
Flow Control	None

Command Table

Function	Type	Action	Command
Power	Write	ON	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x00 0x00 0x5D
Power	Write	OFF	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x01 0x00 0x5E
Power	Write	ON/OFF	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x34 0x00 0x91
Power	Read	Status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x00 0x5E
Reset Settings	Write	Reset Settings	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x02 0x00 0x5F
Reset Color Settings	Write	Reset Color Settings	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x2A 0x00 0x87
Splash Screen	Write	Black	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x0A 0x00 0x67
Splash Screen	Write	Blue	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x0A 0x01 0x68
Splash Screen	Write	ViewSonic	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x0A 0x02 0x69
Splash Screen	Read	Status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x0A 0x68
High Altitude Mode	Write	OFF	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x0C 0x00 0x69
High Altitude Mode	Write	ON	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x0C 0x01 0x6A
High Altitude Mode	Read	Status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x0C 0x6A
Light Source Mode	Write	Normal	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x10 0x00 0x6D
Light Source Mode	Write	Eco	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x10 0x01 0x6E
Light Source Mode	Write	Dynamic Eco	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x10 0x02 0x6F
Light Source Mode	Write	Custom 20	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x10 0x04 0x71
Light Source Mode	Write	Custom 40	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x10 0x05 0x72

Function	Type	Action	Command
Light Source Mode	Write	Custom 60	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x10 0x06 0x73
Light Source Mode	Write	Custom 80	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x10 0x07 0x74
Light Source Mode	Write	Custom 100	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x10 0x08 0x75
Light Source Mode	Read	Status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x10 0x6E
Message	Write	OFF	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x27 0x00 0x84
Message	Write	ON	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x27 0x01 0x85
Message	Read	Status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x27 0x85
Projector Position	Write	Front Table	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x00 0x00 0x5E
Projector Position	Write	Rear Table	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x00 0x01 0x5F
Projector Position	Write	Rear Ceiling	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x00 0x02 0x60
Projector Position	Write	Front Ceiling	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x00 0x03 0x61
Projector Position	Read	Status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x00 0x5F
3D Sync	Write	OFF	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x20 0x00 0x7E
3D Sync	Write	Auto	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x20 0x01 0x7F
3D Sync	Write	Frame Sequential	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x20 0x02 0x80
3D Sync	Write	Frame Packing	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x20 0x03 0x81
3D Sync	Write	Top Bottom	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x20 0x04 0x82
3D Sync	Write	Side by Side	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x20 0x05 0x83
3D Sync	Read	Status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x20 0x7F
3D Sync Invert	Write	OFF	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x21 0x00 0x7F
3D Sync Invert	Write	ON	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x21 0x01 0x80
3D Sync Invert	Read	Status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x21 0x80
Contrast	Write	Decrease	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x02 0x00 0x60
Contrast	Write	Increase	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x02 0x01 0x61
Contrast	Read	Get Value	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x02 0x61
Brightness	Write	Decrease	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x03 0x00 0x61
Brightness	Write	Increase	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x03 0x01 0x62
Brightness	Read	Get Value	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x03 0x62
Aspect ratio	Write	Auto	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x00 0x62
Aspect ratio	Write	4:3	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x02 0x64
Aspect ratio	Write	16:9	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x03 0x65
Aspect ratio	Write	16:10	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x04 0x66
Aspect ratio	Write	Native	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x09 0x6B
Aspect ratio	Write	Cycle	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x31 0x00 0x90
Aspect ratio	Read	Get Value	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x04 0x63
Auto Adjust	Write	Execute	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x05 0x00 0x63
Horizontal position	Write	Shift Right	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x06 0x01 0x65
Horizontal position	Write	Shift Left	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x06 0x00 0x64

Function	Type	Action	Command
Horizontal position	Read	Get Value	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x06 0x65
Vertical position	Write	Shift Up	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x07 0x00 0x65
Vertical position	Write	Shift Down	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x07 0x01 0x66
Vertical position	Read	Get Value	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x07 0x66
Color temperature	Write	5500K	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x08 0x00 0x66
Color temperature	Write	6500K	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x08 0x01 0x67
Color temperature	Write	8000K	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x08 0x03 0x69
Color temperature	Read	Get Value	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x08 0x67
Color temperature-Red gain	Write	Decrease	0x06 0x14 0x00 0x05 0x00 0x34 0x12 0x3A 0x00 0x00 0x99
Color temperature-Red gain	Write	Increase	0x06 0x14 0x00 0x05 0x00 0x34 0x12 0x3A 0x00 0x01 0x9A
Color temperature-Red gain	Read	Get value	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x3B 0x9A
Color temperature-Green gain	Write	Decrease	0x06 0x14 0x00 0x05 0x00 0x34 0x12 0x3A 0x01 0x00 0x9A
Color temperature-Green gain	Write	Increase	0x06 0x14 0x00 0x05 0x00 0x34 0x12 0x3A 0x01 0x01 0x9B
Color temperature-Green gain	Read	Get value	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x3C 0x9B
Color temperature-Blue gain	Write	Decrease	0x06 0x14 0x00 0x05 0x00 0x34 0x12 0x3A 0x02 0x00 0x9B
Color temperature-Blue gain	Write	Increase	0x06 0x14 0x00 0x05 0x00 0x34 0x12 0x3A 0x02 0x01 0x9C
Color temperature-Blue gain	Read	Get value	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x3D 0x9C
Color temperature-Red offset	Write	Decrease	0x06 0x14 0x00 0x05 0x00 0x34 0x12 0x3E 0x00 0x00 0x9D
Color temperature-Red offset	Write	Increase	0x06 0x14 0x00 0x05 0x00 0x34 0x12 0x3E 0x00 0x01 0x9E
Color temperature-Red offset	Read	Get value	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x3F 0x9E
Color temperature-Green offset	Write	Decrease	0x06 0x14 0x00 0x05 0x00 0x34 0x12 0x3E 0x01 0x00 0x9E
Color temperature-Green gain	Write	Increase	0x06 0x14 0x00 0x05 0x00 0x34 0x12 0x3E 0x01 0x01 0x9F
Color temperature-Green offset	Read	Get value	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x40 0x9F
Color temperature-Blue offset	Write	Decrease	0x06 0x14 0x00 0x05 0x00 0x34 0x12 0x3E 0x02 0x00 0x9F
Color temperature-Blue offset	Write	Increase	0x06 0x14 0x00 0x05 0x00 0x34 0x12 0x3E 0x02 0x01 0xA0

Function	Type	Action	Command
Color temperature-Blue offset	Read	Get value	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x41 0xA0
Blank	Write	ON	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x09 0x01 0x68
Blank	Write	OFF	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x09 0x00 0x67
Blank	Read	Status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x09 0x68
Keystone-Vertical	Write	Decrease	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0A 0x00 0x68
Keystone-Vertical	Write	Increase	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0A 0x01 0x69
Keystone-Vertical	Read	Get value	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x0A 0x69
Keystone-Horizontal	Write	Decrease	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x31 0x00 0x8E
Keystone-Horizontal	Write	Increase	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x31 0x01 0x8F
Keystone-Horizontal	Read	Get value	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x31 0x8F
Color mode	Write	Brightest	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x00 0x69
Color mode	Write	Movie	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x01 0x6A
Color mode	Write	Standard	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x04 0x6D
Color mode	Write	Photo	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x13 0x7C
Color mode	Write	Presentation	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x14 0x7D
Color mode	Write	Cycle	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x33 0x00 0x92
Color mode	Write	User1	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x18 0x81
Color mode	Write	User2	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x19 0x82
Color mode	Read	Status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x0B 0x6A
Reset color settings	Write	Reset	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x2A 0x00 0x87
Primary Color	Write	R	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x10 0x00 0x6E
Primary Color	Write	G	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x10 0x01 0x6F
Primary Color	Write	B	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x10 0x02 0x70
Primary Color	Write	C	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x10 0x03 0x71
Primary Color	Write	M	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x10 0x04 0x72
Primary Color	Write	Y	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x10 0x05 0x73
Primary Color	Read	Status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x10 0x6F
Hue / Tint	Write	Decrease	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x11 0x00 0x6F
Hue / Tint	Write	Increase	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x11 0x01 0x70
Hue / Tint	Read	Get value	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x11 0x70
Saturation	Write	Decrease	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x12 0x00 0x70
Saturation	Write	Increase	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x12 0x01 0x71
Saturation	Read	Get value	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x12 0x71
Gain	Write	Decrease	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x13 0x00 0x71
Gain	Write	Increase	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x13 0x01 0x72

Function	Type	Action	Command
Gain	Read	Get value	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x13 0x72
Sharpness	Write	Decrease	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0E 0x00 0x6C
Sharpness	Write	Increase	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0E 0x01 0x6D
Sharpness	Read	Get value	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x0E 0x6D
Freeze	Write	ON	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x00 0x01 0x60
Freeze	Write	OFF	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x00 0x00 0x5F
Freeze	Read	Status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x13 0x00 0x60
Source input	Write	D-Sub/Comp. 1	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x01 0x00 0x60
Source input	Write	HDMI 1	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x01 0x03 0x63
Source input	Write	Composite Video	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x01 0x05 0x65
Source input	Read	Status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x13 0x01 0x61
Quick Auto Search	Write	ON	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x02 0x01 0x62
Quick Auto Search	Write	OFF	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x02 0x00 0x61
Quick Auto Search	Read	Status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x13 0x02 0x62
Mute	Write	ON	0x06 0x14 0x00 0x04 0x00 0x34 0x14 0x00 0x01 0x61
Mute	Write	OFF	0x06 0x14 0x00 0x04 0x00 0x34 0x14 0x00 0x00 0x60
Mute	Read	Status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x14 0x00 0x61
Volume	Write	Increase	0x06 0x14 0x00 0x04 0x00 0x34 0x14 0x01 0x00 0x61
Volume	Write	Decrease	0x06 0x14 0x00 0x04 0x00 0x34 0x14 0x02 0x00 0x62
Volume	Write	Write Value	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x2A 0x11 0x9A
Volume	Read	Get Value	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x14 0x03 0x64
Language	Write	English	0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x00 0x61
Language	Write	Français	0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x01 0x62
Language	Write	Deutsch	0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x02 0x63
Language	Write	Italiano	0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x03 0x64
Language	Write	Español	0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x04 0x65
Language	Write	РУССКИЙ	0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x05 0x66
Language	Write	繁體中文	0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x06 0x67
Language	Write	简体中文	0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x07 0x68
Language	Write	日本語	0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x08 0x69
Language	Write	한국어	0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x09 0x6A
Language	Write	Swedish	0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x0a 0x6B
Language	Write	Dutch	0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x0b 0x6C
Language	Write	Turkish	0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x0c 0x6D
Language	Write	Czech	0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x0d 0x6E
Language	Write	Portuguese	0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x0e 0x6F
Language	Write	Thai	0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x0f 0x70
Language	Write	Polish	0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x10 0x71

Function	Type	Action	Command
Language	Write	Finnish	0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x11 0x72
Language	Write	Arabic	0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x12 0x73
Language	Write	Indonesia	0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x13 0x74
Language	Write	Hindi	0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x14 0x75
Language	Write	Vie	0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x15 0x76
Language	Write	Greek	0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x16 0x77
Language	Read	Status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x15 0x00 0x62
Light Source Usage Time	Write	Reset to ZERO	0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x01 0x00 0x62
Light Source Usage Time	Read	Get Usage Time	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x15 0x01 0x63
HDMI Format	Write	RGB	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x28 0x00 0x85
HDMI Format	Write	YUV	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x28 0x01 0x86
HDMI Format	Write	Auto	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x28 0x02 0x87
HDMI Format	Read	Status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x28 0x86
HDMI Range	Write	Enhanced	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x29 0x00 0x86
HDMI Range	Write	Normal	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x29 0x01 0x87
HDMI Range	Write	Auto	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x29 0x02 0x88
HDMI Range	Read	Status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x29 0x87
CEC	Write	OFF	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x2B 0x00 0x88
CEC	Write	ON	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x2B 0x01 0x89
CEC	Read	Status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x2B 0x89
Error status	Read	Status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x0C 0x0D 0x66
Brilliant Color	Write	OFF	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x00 0x6D
Brilliant Color	Write	Color 1	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x01 0x6E
Brilliant Color	Write	Color 2	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x02 0x6F
Brilliant Color	Write	Color 3	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x03 0x70
Brilliant Color	Write	Color 4	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x04 0x71
Brilliant Color	Write	Color 5	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x05 0x72
Brilliant Color	Write	Color 6	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x06 0x73
Brilliant Color	Write	Color 7	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x07 0x74
Brilliant Color	Write	Color 8	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x08 0x75
Brilliant Color	Write	Color 9	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x09 0x76
Brilliant Color	Write	Color 10	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x0A 0x77
Brilliant Color	Read	Status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x0F 0x6E
Remote Control Code	Write	code 1	0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x00 0xA0
Remote Control Code	Write	code 2	0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x01 0xA1

Function	Type	Action	Command
Remote Control Code	Write	code 3	0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x02 0xA2
Remote Control Code	Write	code 4	0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x03 0xA3
Remote Control Code	Write	code 5	0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x04 0xA4
Remote Control Code	Write	code 6	0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x05 0xA5
Remote Control Code	Write	code 7	0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x06 0xA6
Remote Control Code	Write	code 8	0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x07 0xA7
Remote Control Code	Read	Status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x0C 0x48 0xA1
Over Scan	Write	OFF	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x00 0x90
Over Scan	Write	Value 1	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x01 0x91
Over Scan	Write	Value 2	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x02 0x92
Over Scan	Write	Value 3	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x03 0x93
Over Scan	Write	Value 4	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x04 0x94
Over Scan	Write	Value 5	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x05 0x95
Over Scan	Read	Get Value	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x33 0x91
Remote Key	Write	Menu	0x02 0x14 0x00 0x04 0x00 0x34 0x02 0x04 0x0F 0x61
Remote Key	Write	Exit	0x02 0x14 0x00 0x04 0x00 0x34 0x02 0x04 0x13 0x65
Remote Key	Write	Top	0x02 0x14 0x00 0x04 0x00 0x34 0x02 0x04 0x0B 0x5D
Remote Key	Write	Bottom	0x02 0x14 0x00 0x04 0x00 0x34 0x02 0x04 0x0C 0x5E
Remote Key	Write	Left	0x02 0x14 0x00 0x04 0x00 0x34 0x02 0x04 0x0D 0x5F
Remote Key	Write	Right	0x02 0x14 0x00 0x04 0x00 0x34 0x02 0x04 0x0E 0x60
Remote Key	Write	Source	0x02 0x14 0x00 0x04 0x00 0x34 0x02 0x04 0x04 0x56
Remote Key	Write	Enter	0x02 0x14 0x00 0x04 0x00 0x34 0x02 0x04 0x15 0x67
Remote Key	Write	Auto	0x02 0x14 0x00 0x04 0x00 0x34 0x02 0x04 0x08 0x5A
AMX	Write	AMX response	AMX
Operating temperature	Read	Get Value	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x15 0x03 0x65
Light source mode cycle	Write	Light source mode cycle	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x36 0x00 0x95

Glossary

This section describes the standard glossary of terms used in 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.

Auto Sync
Built-in intelligent auto adjustment function that will re-adjust the frequency and clock values to provide the best picture quality.

B **Blank**
Temporarily hide the screen image to maintain audience focus when necessary.

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 **CEC (Consumer Electronics Control)**
Synchronizes 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.

Color
Adjusts the color saturation.

Color Mode
The projector is preset with several predefined color modes to suit operating, environmental, and input source needs.

- C Color Temp.**
Allows users to select specific color temperature settings to further customize their viewing experience.

Projector Default	Projector Original Status
8000K	Images appear bluish white.
6500K	Default color temperature. Images maintain a normal white appearance. Recommended for general use.
5500K	Images appear reddish white.

Contrast

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

- F Focus Ring**
Manually improve the clarity of the projected image.

- G Gamma**
Allows the user to manually select the greyscale curve of the projector.

- H HDMI Range**
Allows the user to select HDMI greyscale range between 0~255 (Enhanced Range) , 16~235 (Normal Range) or Auto by the signal type detected.

High Altitude Mode

Optional mode for users who live in an environment between 1,500 m and 3,000 m above sea level, and the temperature is between 5° C and 25° C. Activating it will improve projector cooling and performance.

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

Input Select

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

- K Keystone**
The distortion of an image caused by projecting it onto an angled surface. It can be adjusted via the  **Keystone Keys**.

L Light Source Settings
The projector's light source information and settings can be viewed and adjusted by viewing the "Light Source Hours Information" or adjusting the "Light source Mode".

Lens Shift

The projector's lens can be shifted vertically by adjusting the "Lens Shift" menu.

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

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

P Pattern
Projects a grid to be used for image adjustment and fine-tuning.

Projector Position

The projected image can be adjusted based on the installation location of the projector, i.e. ceiling or rear projection installation.

R RS-232
A standard code for serial communication transmission of data, used for connection to other devices or controller vis serial port or LAN port.

S Sharpness
Adjusts the picture quality.

Standard Mode

A Color Mode that is designed for normal viewing circumstances in a daylight environment.

Z Zoom Ring
Manually adjust the size of the projected image.

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	• 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	• 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	• 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	• 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	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.

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.

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 Eco**, or **SuperEco+** 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 20% and lowers brightness, and decreases fan noise.
Dynamic Eco	Reduces light source power consumption by up to 30% depending on the content's brightness level.
Custom	Allows you to adjust the light source power to extend the light source life and decreases the fan noise.

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)

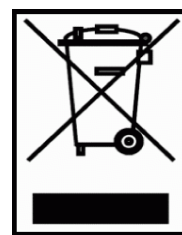
CE Conformity for European Countries



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

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
Cadmium (Cd)	0.01%	< 0.01%
Lead (Pb)	0.1%	< 0.1%
Mercury (Hg)	0.1%	< 0.1%
Hexavalent Chromium (Cr6+)	0.1%	< 0.1%
Polybrominated biphenyls (PBB)	0.1%	< 0.1%
Polybrominated diphenyl esthers (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:

- 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/uk/support/recycling-information/>

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Disclaimer: ViewSonic® Corporation shall not be liable for technical or editorial errors or omissions contained herein; nor for incidental or consequential damages resulting from furnishing this material, or the performance or use of this product.

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

No part of this document may be copied, reproduced, or transmitted by any means, for any purpose without prior written permission from ViewSonic® Corporation.

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, failure, or malfunction resulting from:
 - a. Accident, abuse, misuse, neglect, fire, water, lightning, or other acts of nature, improper maintenance, unauthorized product modification, or failure to follow instructions supplied with the product.
 - b. Operation outside of product specifications.
 - c. Operation of the product for other than the normal intended use or not under normal conditions.
 - d. Repair or attempted repair by anyone not authorized by ViewSonic.
 - e. Any damage of the product due to shipment.
 - f. Removal or installation of the product.
 - g. Causes external to the product, such as electric power fluctuations or failure.
 - h. Use of supplies or parts not meeting ViewSonic's specifications.
 - i. Normal wear and tear.
 - j. 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 "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 local law:

This warranty gives you specific legal rights, and you may also have other rights which vary from local authority. Some local governances 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 in www.viewsoniceurope.com 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 does not cover:

1. Any product on which the serial number has been defaced, modified or removed.
2. Damage, deterioration or malfunction resulting from:
 - a. 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.
 - b. Any damage of the product due to shipment.
 - c. Causes external to the product, such as electrical power fluctuations or failure.
 - d. Use of supplies or parts not meeting ViewSonic's specifications.
 - e. Normal wear and tear.
 - f. 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 Support 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. Bugambillas 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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Guerrero Acapulco GS Computación (Grupo Sesicomp) Progreso #6-A, Colo Centro 39300 Acapulco, Guerrero Tel: 744-48-32627	Monterrey: Global Product Services Mar Caribe # 1987, Esquina con Golfo Pérsico Fracc. Bernardo Reyes, CP 64280 Monterrey N.L. México Tel: 8129-5103 E-Mail: aydeem@gps1.com.mx
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