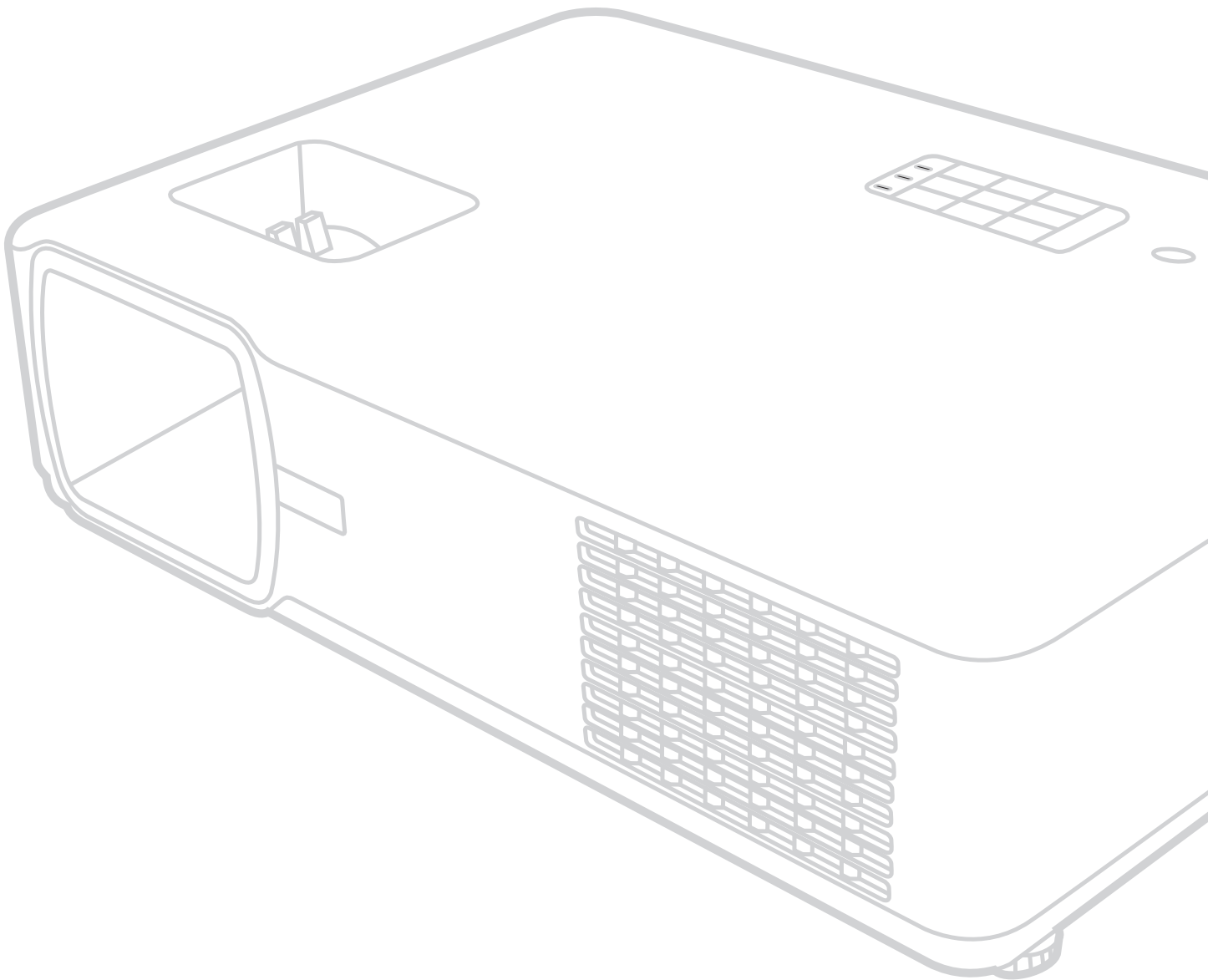


## > LS600W

### 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"

## **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  $\pm 10$  volts occur. In areas where voltage may fluctuate or cut out, it is recommended that you connect your projector through a power stabilizer, surge protector, or uninterruptable power supply (UPS).
- If smoke, an abnormal noise, or a strange odor is present, immediately switch the projector off and call your dealer or ViewSonic®. It is dangerous to continue using the projector.
- Use only attachments/accessories specified by the manufacturer.
- Disconnect the power cord from the AC outlet if the projector is not being used for a long period of time.
- Refer all servicing to qualified service personnel.



**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.

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# > Introduction

The LS600W is a 3,000 ANSI Lumens, high brightness WXGA Lamp Free Projector for business and education. Adopting 2nd generation LED technology, it frees users from frequent lamp replacement and toxic mercury, offers an amazing 30,000 hours long lifespan, true-to-life colors with 125% Rec.709, as well as instant power on/off for efficient power saving. Its comprehensive LAN control eases multiple device management and is compatible with Crestron, AMX, Extron, PJ Link, ATEN, and ViewSonic's vController. Enjoy all the amazing features this projector has to offer with hassle-free setup, 360° tilt angle projection, 1.2x zoom lens, H/V Keystone, and 4 Corner adjustment.

## Features

- Lamp free, Mercury free, Maintenance free
- 2nd generation LED Technology with 30,000 hours lifespan
- Instant power on/off
- 3,000 ANSI Lumens offering bright images in any environment
- 360° projection and H/V keystone for easy installation
- Cinema SuperColor+™ Technology with 125% Rec.709
- H/V Keystone enabling side projections
- Comprehensive LAN control for efficient management\*

## Package Contents

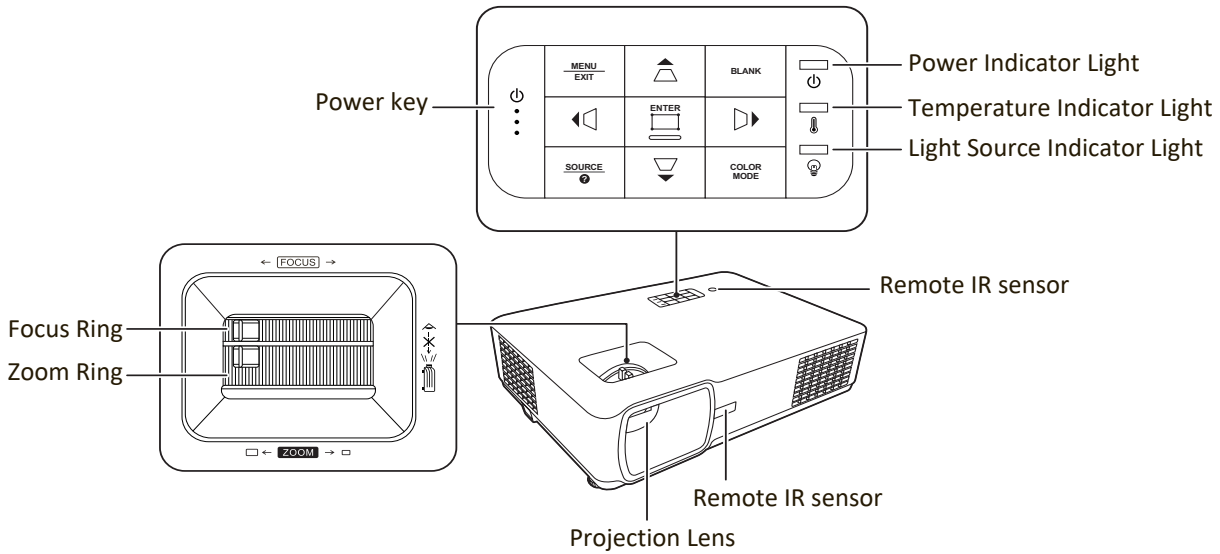
- Projector
- Remote Control & Batteries
- Power Cord
- Quick Start Guide
- Video Cable

**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

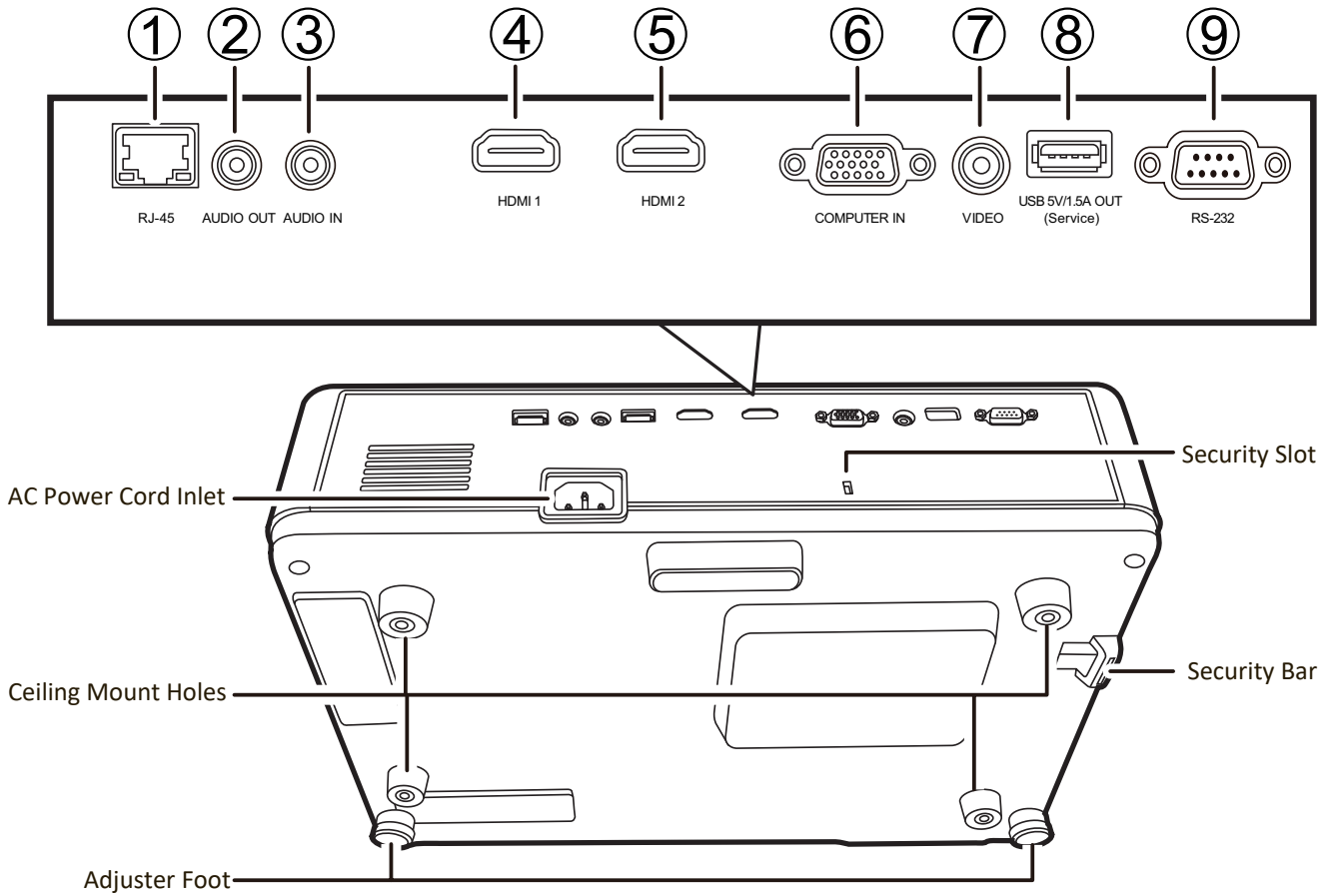
## Projector

### 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.  |
| 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.   |

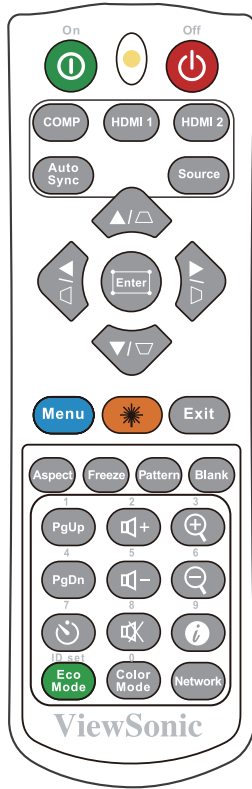
## Connection Ports



| Port                          | Description                                   |
|-------------------------------|---|
| [1] RJ-45                     | LAN port.                                     |
| [2] AUDIO OUT                 | Audio signal output socket.                   |
| [3] AUDIO IN                  | Audio signal input socket.                    |
| [4] HDMI 1                    | HDMI port.                                    |
| [5] HDMI 2                    | HDMI port.                                    |
| [6] COMPUTER IN               | RGB (PC) signal input socket.                 |
| [7] VIDEO                     | Composite video port.                         |
| [8] USB 5V/1.5A OUT (Service) | USB Type A port for power supply and service. |
| [9] RS-232                    | RS-232 control port.                          |

# Remote Control

## Controls and Functions



| Button                  | Description  |
|-------------------------|--|
| ⏻ On/⏻ Off              | Toggles between standby mode and Power On.                                 |
| COMP                    | Selects the source from the <b>COMPUTER IN</b> port for display.           |
| HDMI 1                  | Selects the source from the <b>HDMI 1</b> port for display.                |
| HDMI 2                  | Selects the source from the <b>HDMI 2</b> 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.          |

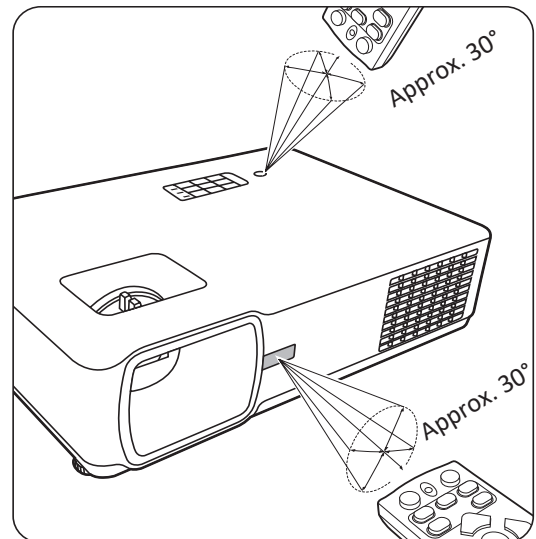
| Button                          | Description  |
|---------------------------------|--|
| ◀ Left/▶ Right<br>▲ Up/ ▼ Down  | Selects the desired menu items and makes adjustments.  |
| Menu                            | Turns on/off the On-Screen Display (OSD) Menu or goes back to previous OSD Menu.   |
| ★ (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).<br><b>NOTE:</b> Only available when a PC input signal is selected. |
| ⌚ (Presentation Timer)          | Displays the <b>Presentation Timer</b> menu.   |
| Eco Mode                        | Selects the <b>Eco</b> 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.  |
| ℹ (INFORMATION)                 | Displays the <b>INFORMATION</b> menu.  |
| Network                         | Displays the <b>LAN Control Settings</b> 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).

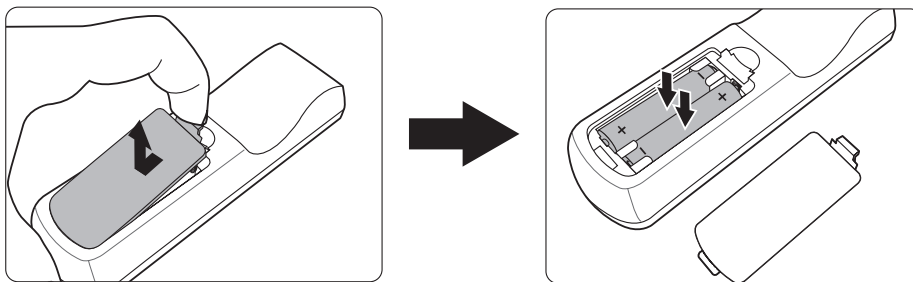


## Replacing the Remote Control Batteries

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

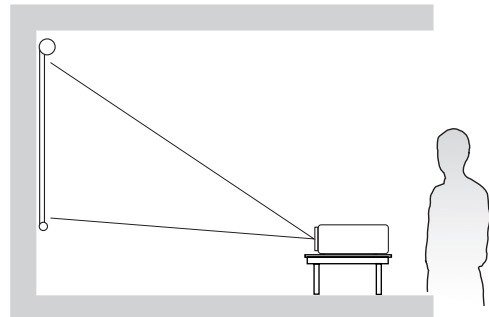
Personal preference and room layout will decide the installation location. Consider the following:

- 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:

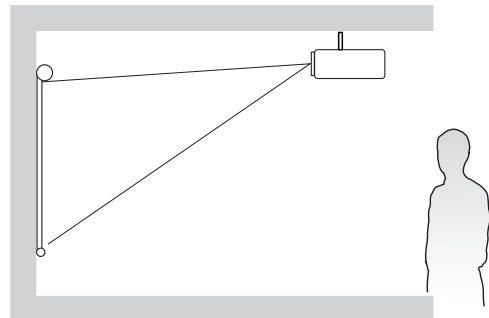
### 1. Front

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



### 2. Front Ceiling

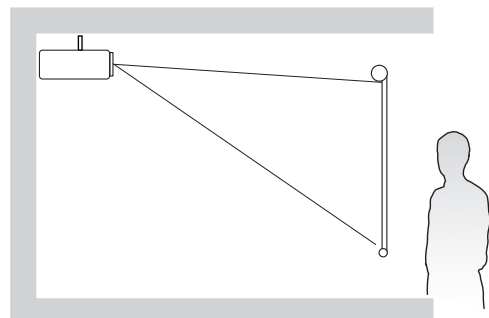
The projector is suspended upside-down from the ceiling in front of the screen.



### 3. Rear Ceiling

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

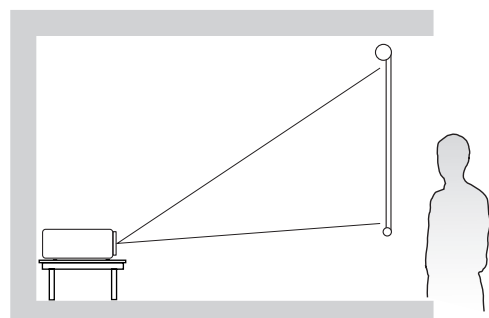
**NOTE:** A special rear projection screen is required.



### 4. Rear

The projector is placed near the floor behind the screen.

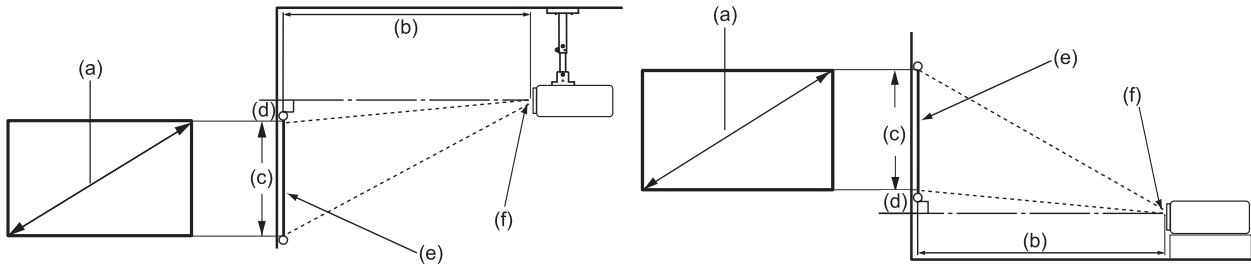
**NOTE:** A special rear projection screen is required.



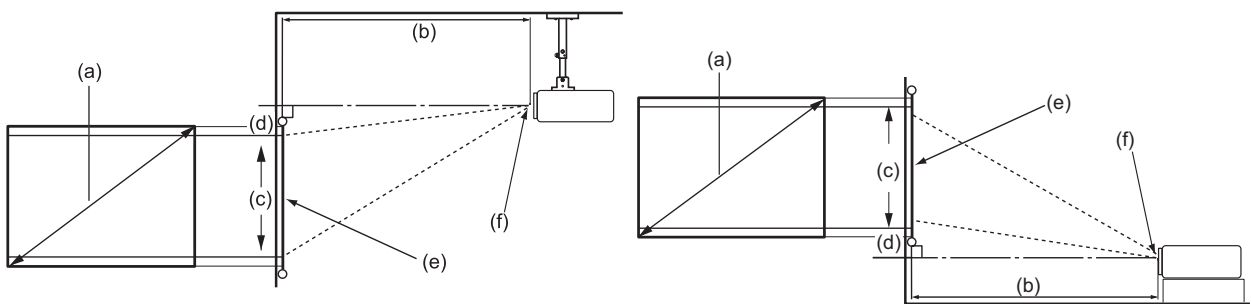
# Projection Dimensions

**NOTE:** See “Specifications” on page 70 for the native display resolution of this projector.

- **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  | 35                      | 883  | 42      | 1059  | 16               | 404  | 13                  | 319  | 12.6    | 319  |
| 40              | 1016 | 46                      | 1177 | 56      | 1412  | 21               | 538  | 17                  | 425  | 16.7    | 425  |
| 50              | 1270 | 58                      | 1471 | 70      | 1766  | 26               | 673  | 21                  | 532  | 20.9    | 532  |
| 60              | 1524 | 70                      | 1766 | 83      | 2119  | 32               | 808  | 25                  | 638  | 25.1    | 638  |
| 70              | 1778 | 81                      | 2060 | 97      | 2472  | 37               | 942  | 29                  | 744  | 29.3    | 744  |
| 80              | 2032 | 93                      | 2354 | 111     | 2825  | 42               | 1077 | 33                  | 851  | 33.5    | 851  |
| 90              | 2286 | 104                     | 2648 | 125     | 3178  | 48               | 1212 | 38                  | 957  | 37.7    | 957  |
| 100             | 2540 | 116                     | 2943 | 139     | 3531  | 53               | 1346 | 42                  | 1063 | 41.9    | 1063 |
| 120             | 3048 | 139                     | 3531 | 167     | 4237  | 64               | 1615 | 50                  | 1276 | 50.2    | 1276 |
| 150             | 3810 | 174                     | 4414 | 209     | 5297  | 79               | 2019 | 63                  | 1595 | 62.8    | 1595 |
| 200             | 5080 | 232                     | 5885 | 278     | 7062  | 106              | 2692 | 84                  | 2127 | 83.7    | 2127 |
| 250             | 6350 | 290                     | 7356 | 348     | 8828  | 132              | 3365 | 105                 | 2659 | 104.7   | 2659 |
| 300             | 7620 | 348                     | 8828 | 417     | 10593 | 159              | 4039 | 126                 | 3190 | 125.6   | 3190 |



## 16:10 Image on a 4:3 Screen

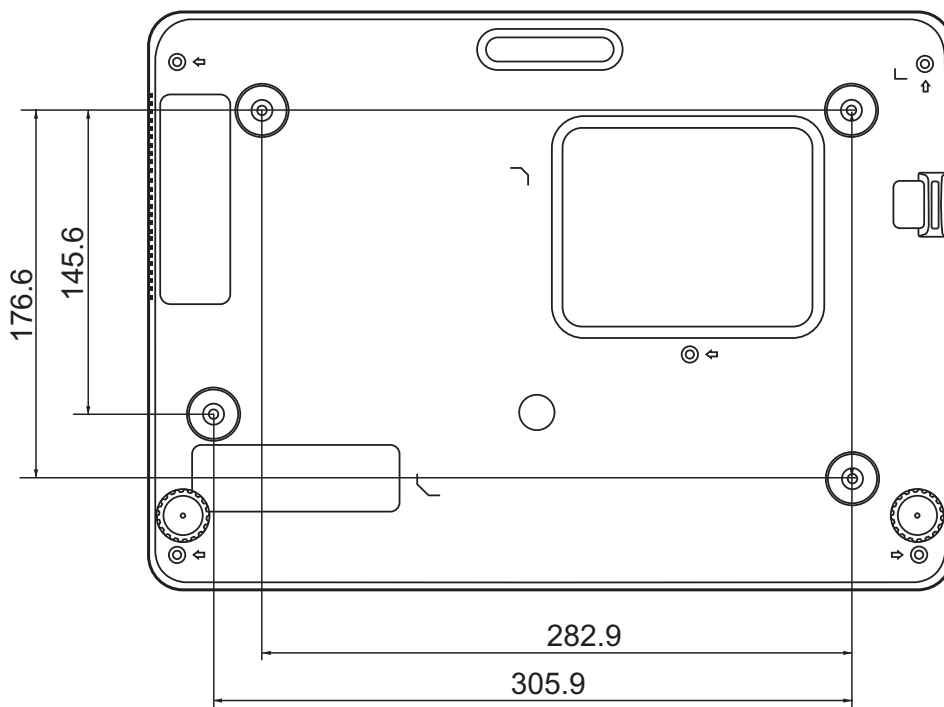
| (a) Screen Size |      | (b) Projection Distance |      |         |      | (c) Image Height |      | (d) Vertical Offset |      |         |      |
|-----------------|------|-------------------------|------|---------|------|------------------|------|---------------------|------|---------|------|
|                 |      | minimum                 |      | maximum |      |                  |      | minimum             |      | maximum |      |
| in.             | mm   | in.                     | mm   | in.     | mm   | in.              | mm   | in.                 | mm   | in.     | mm   |
| 30              | 762  | 33                      | 833  | 39      | 999  | 15               | 381  | 12                  | 301  | 12      | 301  |
| 40              | 1016 | 44                      | 1110 | 52      | 1332 | 20               | 508  | 16                  | 401  | 16      | 401  |
| 50              | 1270 | 55                      | 1388 | 66      | 1666 | 25               | 635  | 20                  | 502  | 20      | 502  |
| 60              | 1524 | 66                      | 1666 | 79      | 1999 | 30               | 762  | 24                  | 602  | 24      | 602  |
| 70              | 1778 | 77                      | 1943 | 92      | 2332 | 35               | 889  | 28                  | 702  | 28      | 702  |
| 80              | 2032 | 87                      | 2221 | 105     | 2665 | 40               | 1016 | 32                  | 803  | 32      | 803  |
| 90              | 2286 | 98                      | 2498 | 118     | 2998 | 45               | 1143 | 36                  | 903  | 36      | 903  |
| 100             | 2540 | 109                     | 2776 | 131     | 3331 | 50               | 1270 | 40                  | 1003 | 40      | 1003 |
| 120             | 3048 | 131                     | 3331 | 157     | 3997 | 60               | 1524 | 47                  | 1204 | 47      | 1204 |
| 150             | 3810 | 164                     | 4164 | 197     | 4997 | 75               | 1905 | 59                  | 1505 | 59      | 1505 |
| 200             | 5080 | 219                     | 5552 | 262     | 6662 | 100              | 2540 | 79                  | 2007 | 79      | 2007 |
| 250             | 6350 | 273                     | 6940 | 328     | 8328 | 125              | 3175 | 99                  | 2508 | 99      | 2508 |
| 300             | 7620 | 328                     | 8328 | 393     | 9994 | 150              | 3810 | 119                 | 3010 | 119     | 3010 |

**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.

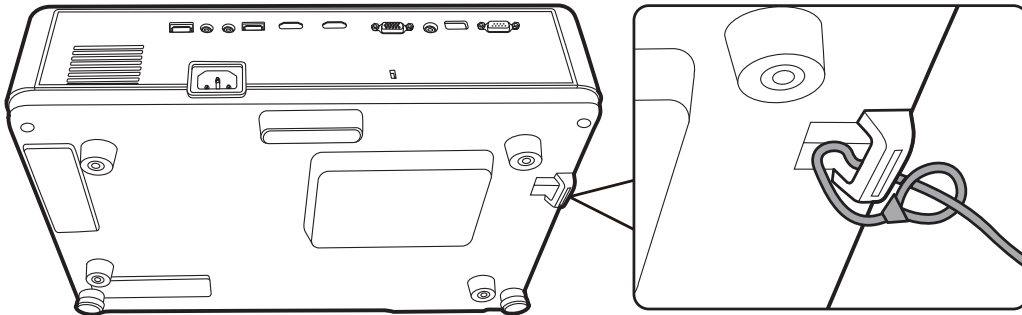
## Preventing Unauthorized Use

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 (\*).

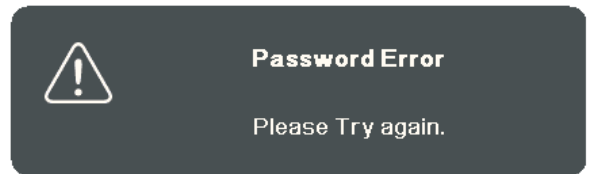
## Disabling the Password Function

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.

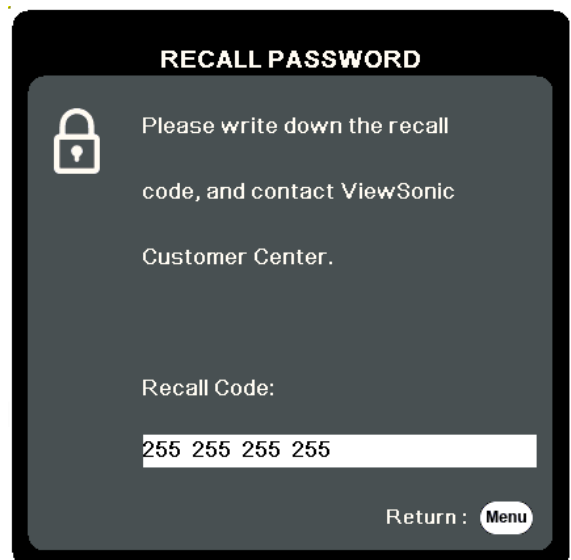


You can retry or if you do not remember, you can use the "Password Recall Procedure".

**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.

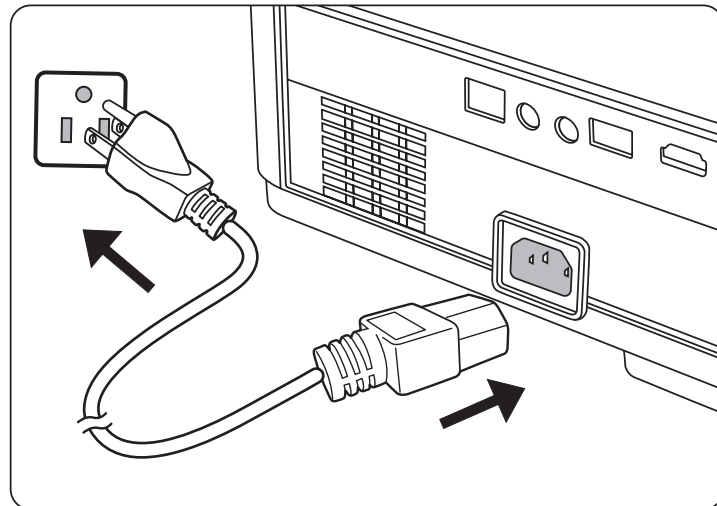
**NOTE:** You can also use the remote control to enter the **SYSTEM > Panel Key Lock** menu and select **Off**.

## > 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.

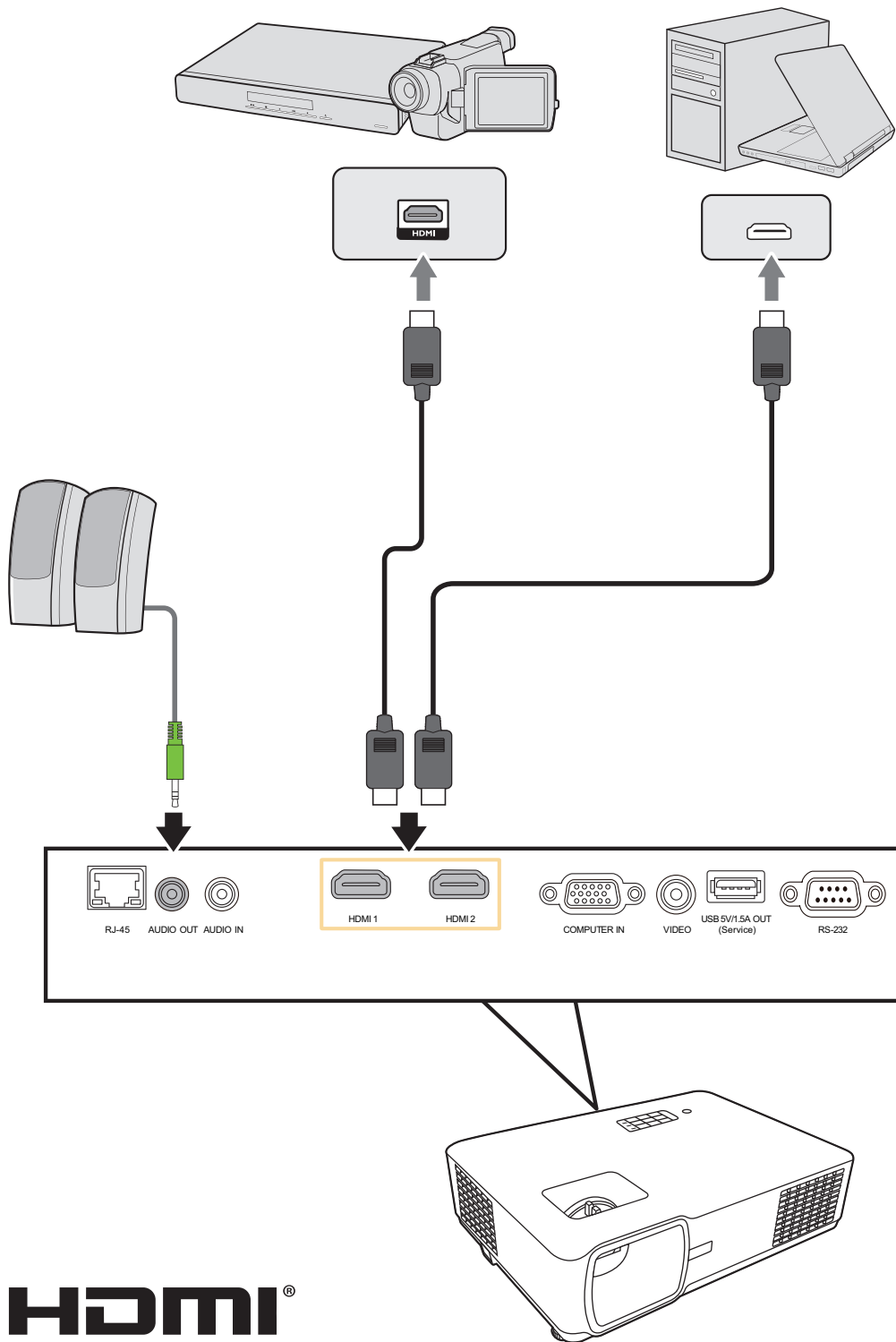


**NOTE:** When installing the projector, incorporate a readily accessible disconnect device in the fixed wiring, or connect the power plug to an easily accessible outlet near the unit. If a fault should occur during operation of the projector, use the disconnect device to switch off the power supply,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

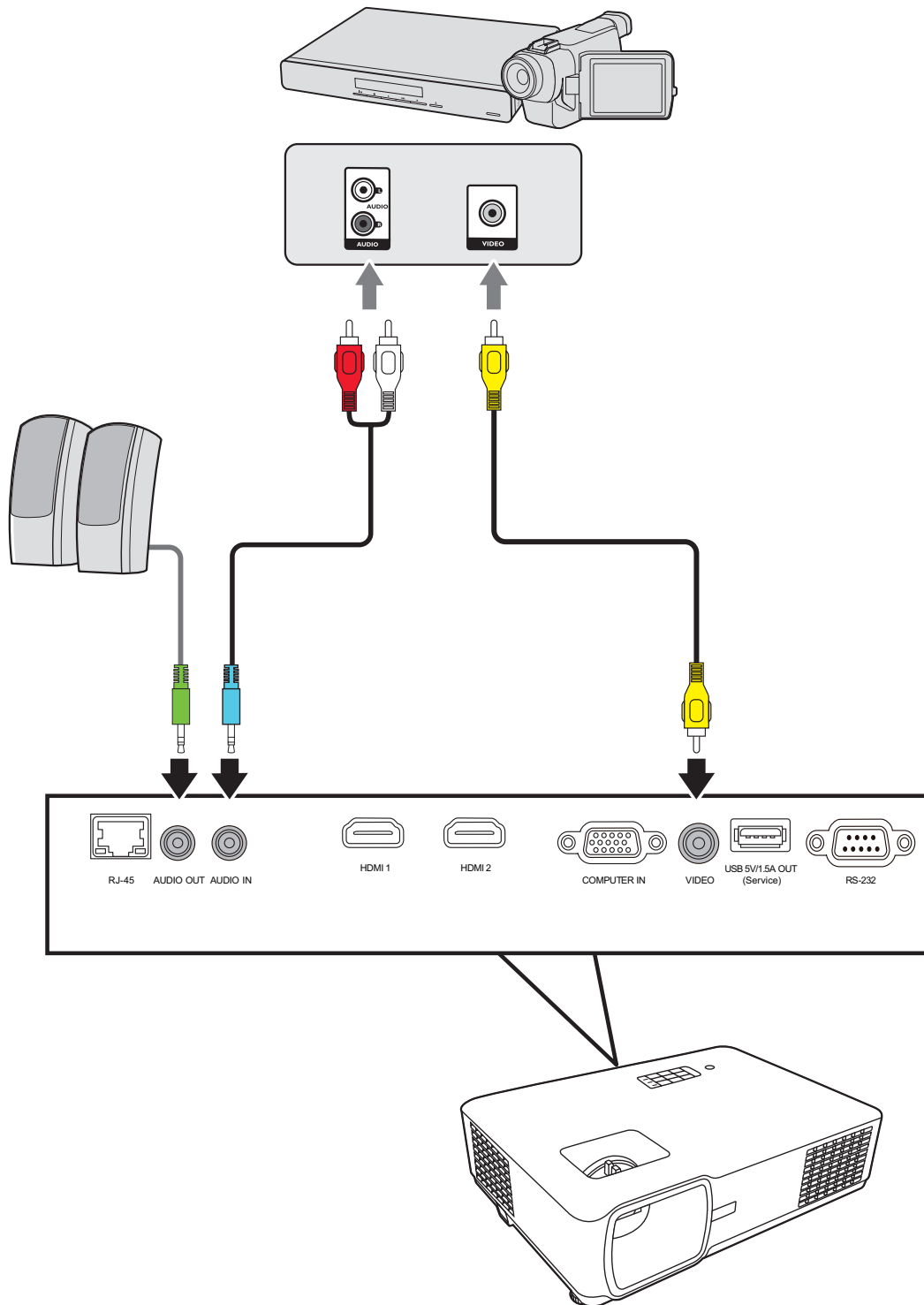


**HDMI**<sup>®</sup>  
HIGH-DEFINITION MULTIMEDIA INTERFACE



## 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

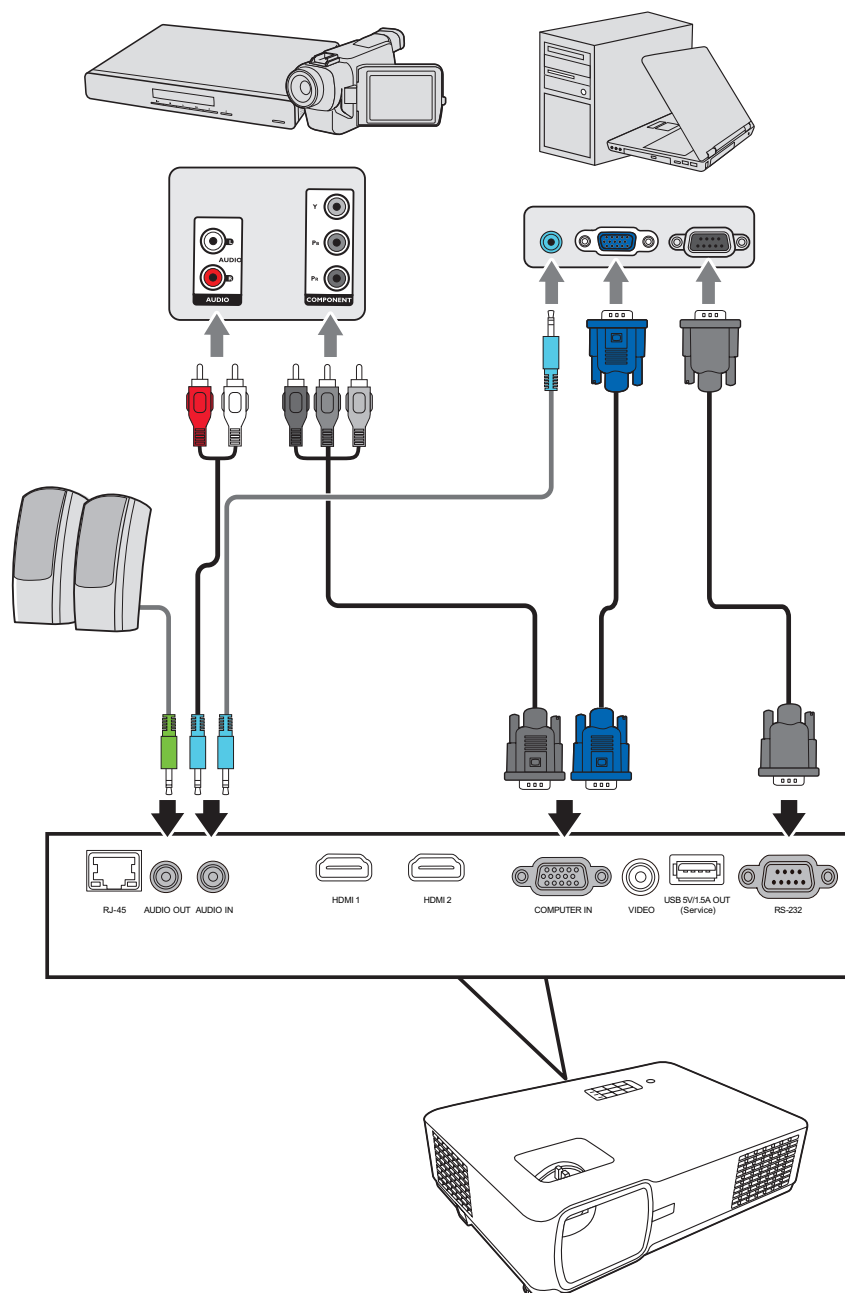
## VGA Connection

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.

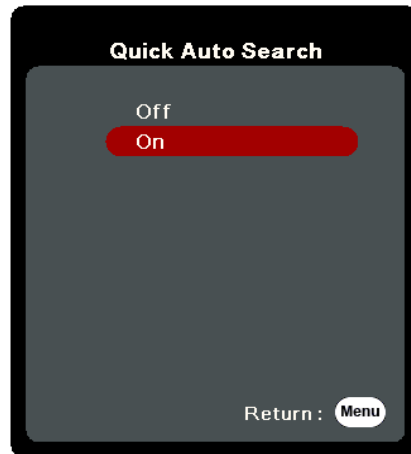
### **NOTE:**

- 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.

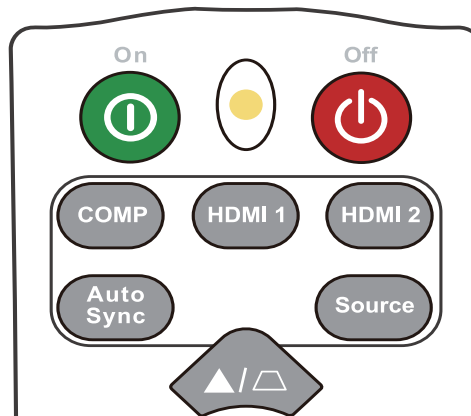
## Selecting an Input Source

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

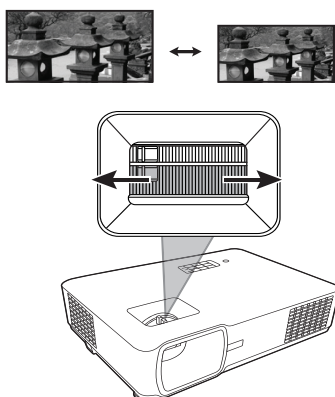
Sometimes, you may need to improve the picture quality. To do this, press **Auto Sync** on the remote control. Within five (5) seconds, the built-in Intelligent Auto Adjustment function will re-adjust the Frequency and Clock values to provide the best picture quality.

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

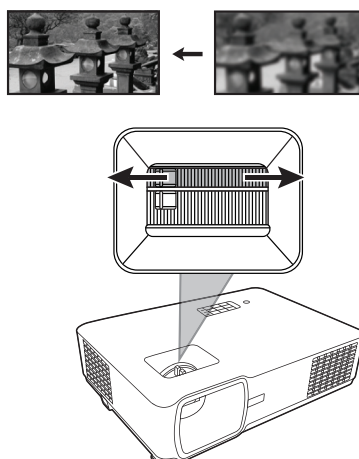
**NOTE:** This function is only available when the PC D-Sub input source (analog RGB/ COMPUTER IN) is selected.

## 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.

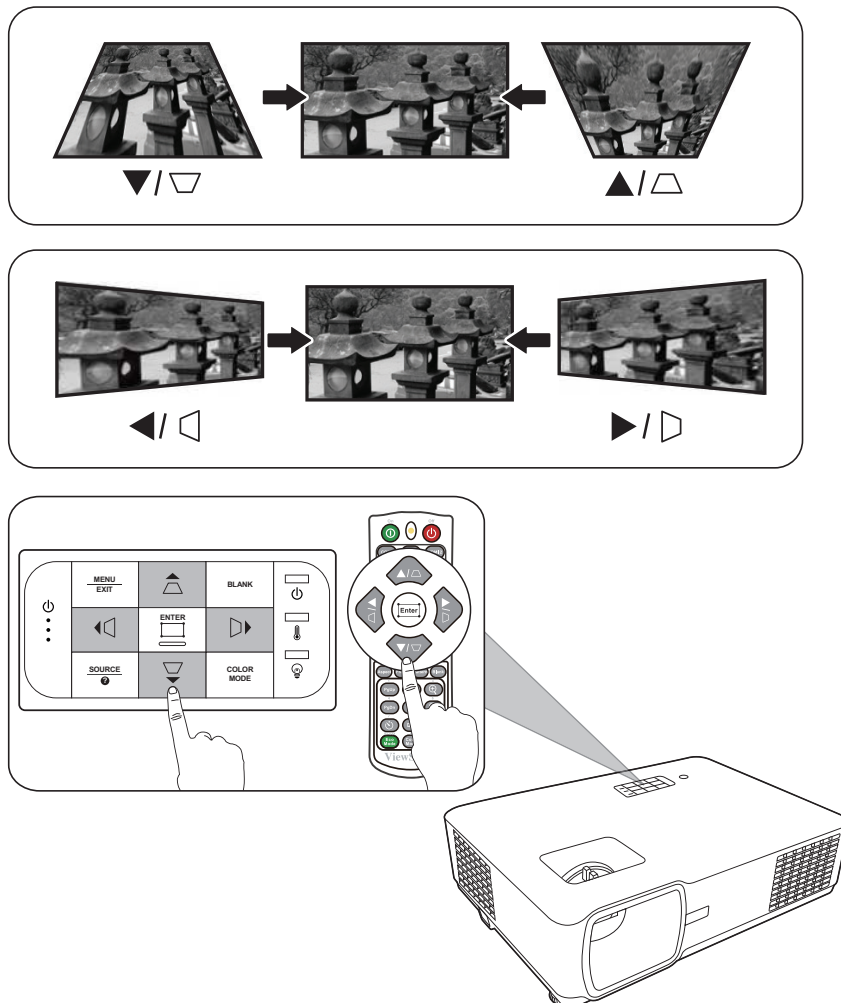


## Correcting Keystone

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.





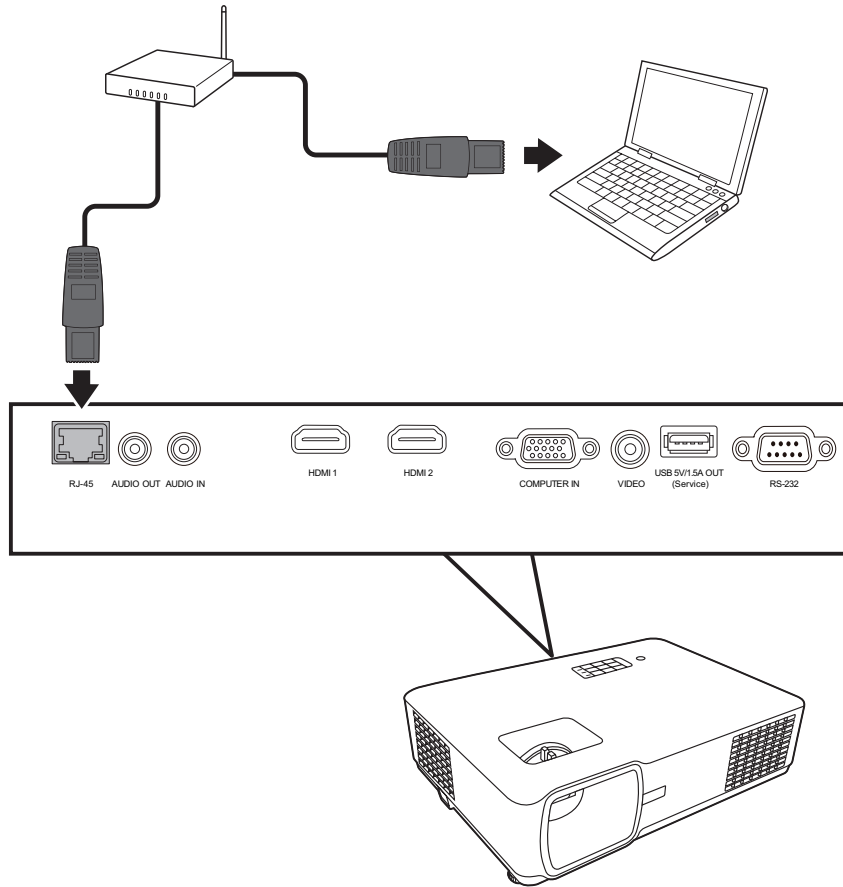
## Hiding the Image

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.

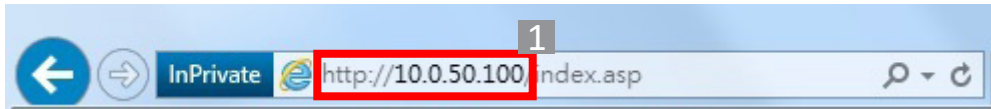
**NOTE:**

- 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:

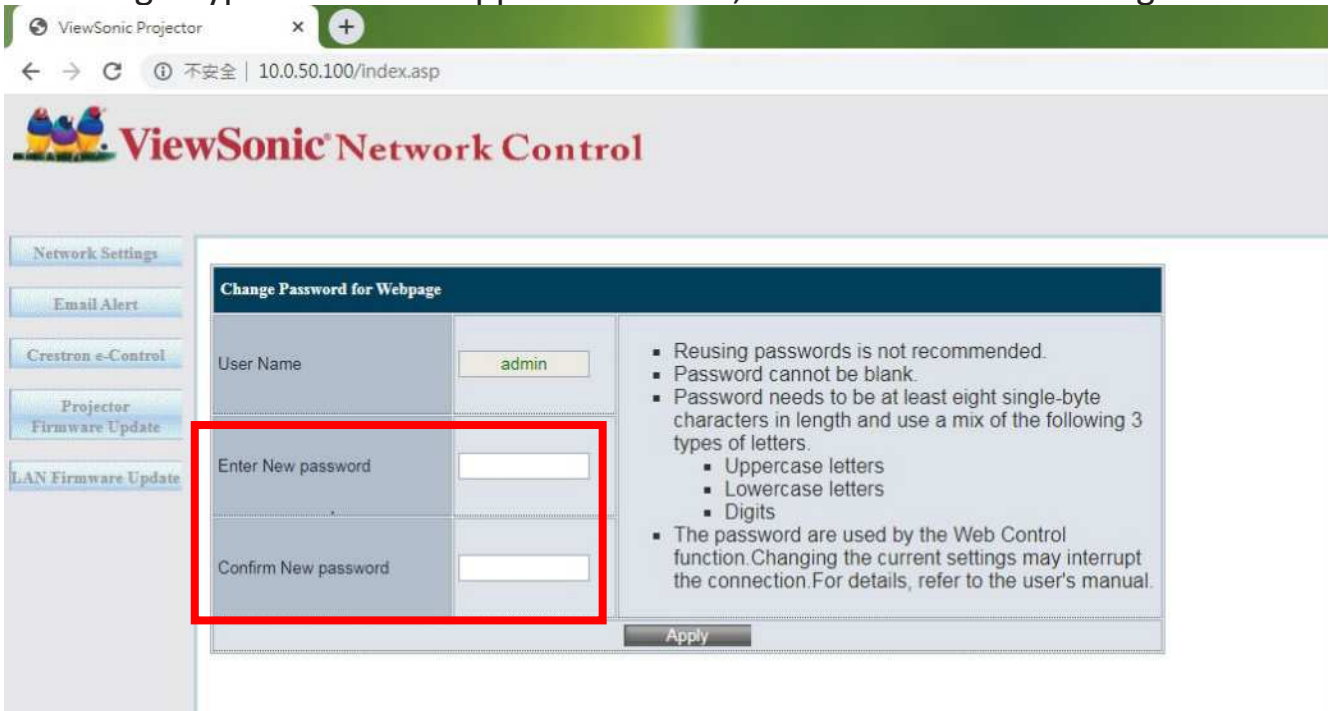
| Category Item    |                 | Input Length        | Maximum Number of Characters |
|------------------|-----------------|---------------------|------------------------------|
| Network Settings | Network         | DHCP/Manual         | (N/A)                        |
|                  |                 | IP Address          | 15                           |
|                  |                 | Subnet Mask         | 15                           |
|                  |                 | Gateway             | 15                           |
|                  |                 | DNS Server          | 15                           |
|                  |                 | AMX device discover | (N/A)                        |
|                  | Password        | Administrator       | (N/A)                        |
|                  |                 | New Password        | 8                            |
|                  |                 | Confirm Password    | 8                            |
|                  | 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.



2. The main page of the Network Control will appear. Set a password. Password needs to be at least eight single byte characters in length and use a mix of the following 3 types of letters: uppercase letters, lowercase letters and digits.



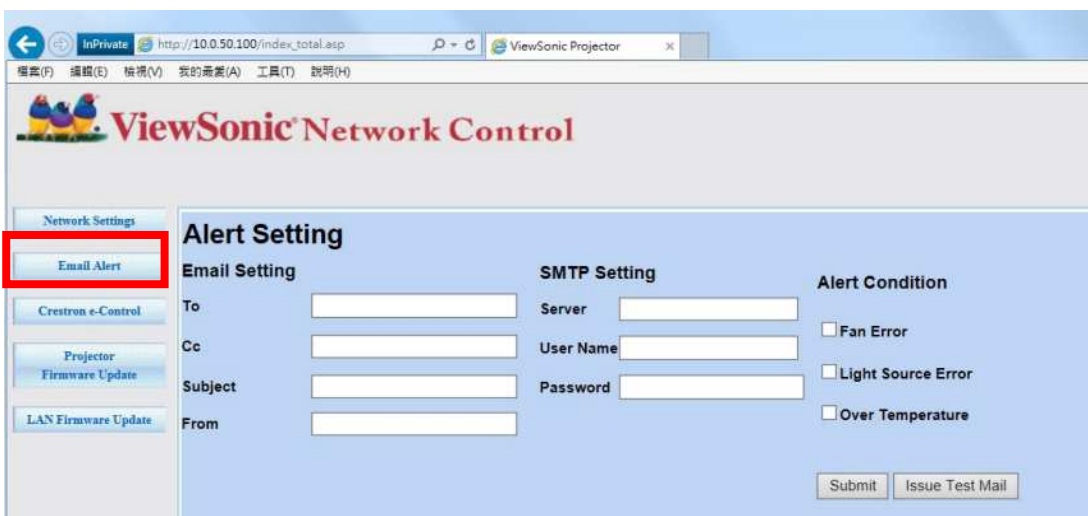
3. Enter the password.



4. 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 Discover**, visit the AMX web site at <http://www.amx.com/>.



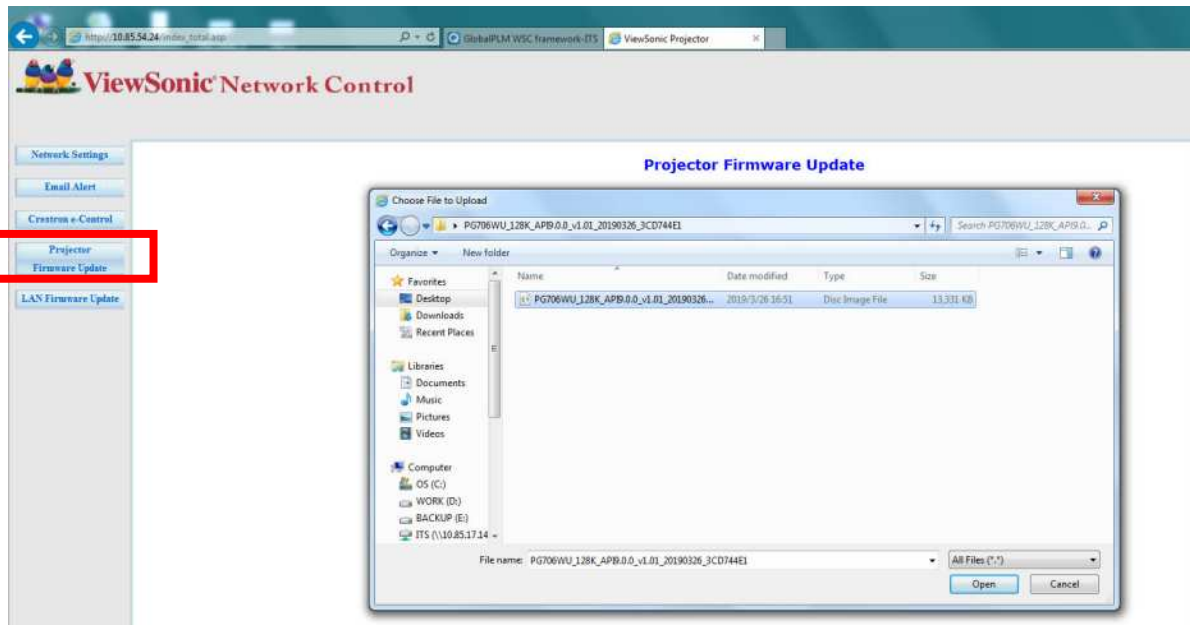
5. If your projector is connected to a network which supports Simple Mail Transfer Protocol (SMTP), you can configure it to alert you via email on significant events.



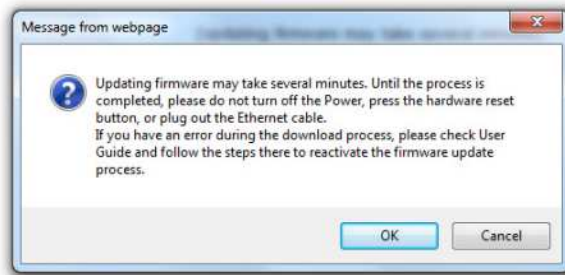
6. The **Crestron (e-Control)**<sup>®</sup> page displays the Crestron e-Control user interface.

7. 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.

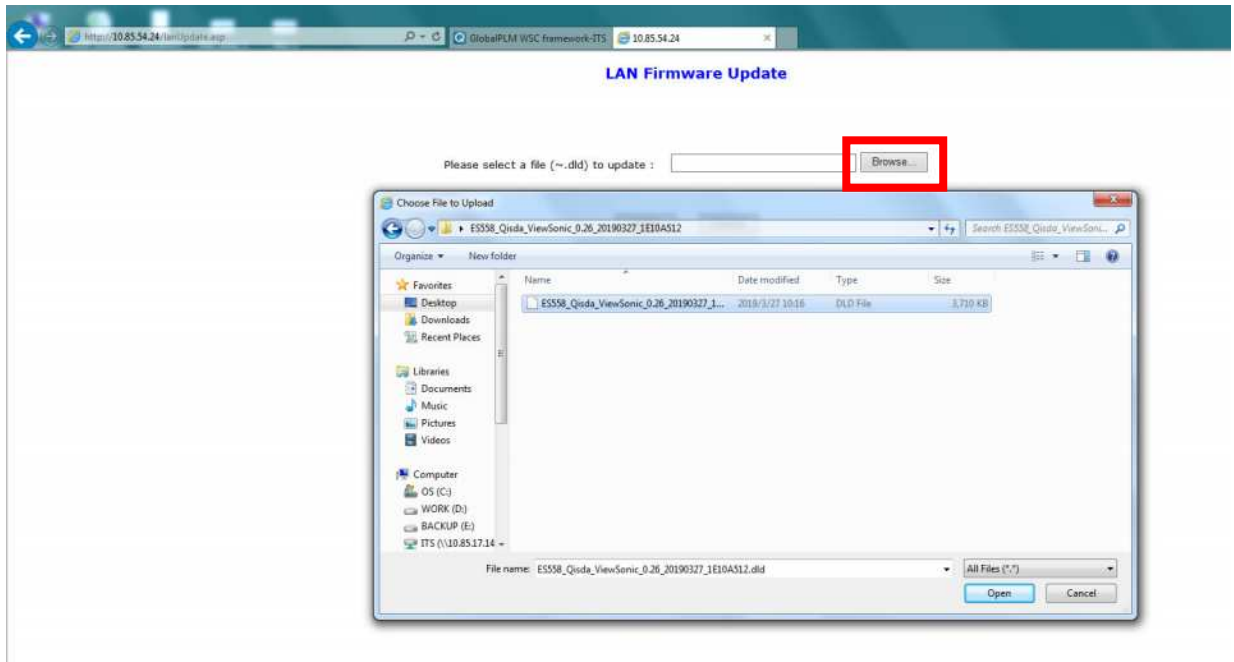
- vi. Click “Exit” once the update has finished.

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

## 8. 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.

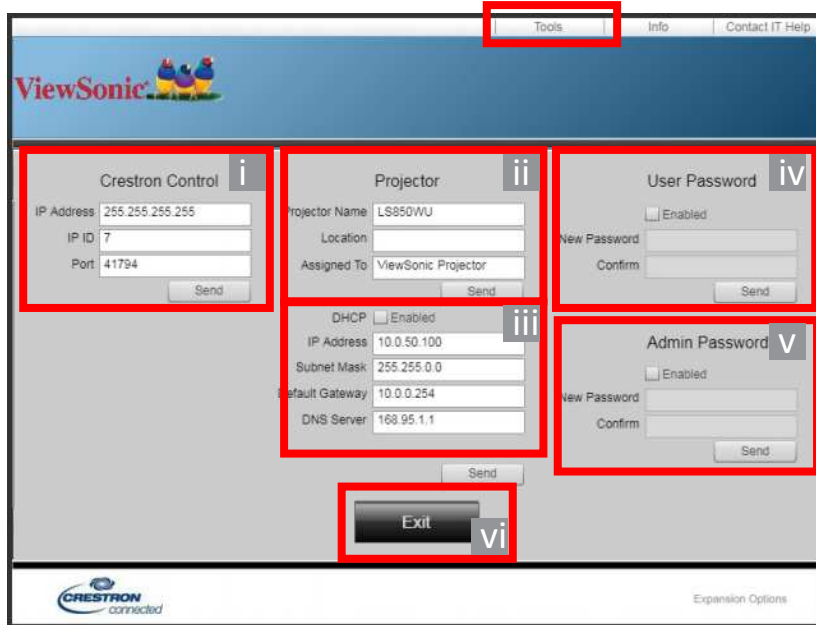
### NOTE:

- 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.



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

**NOTE:**

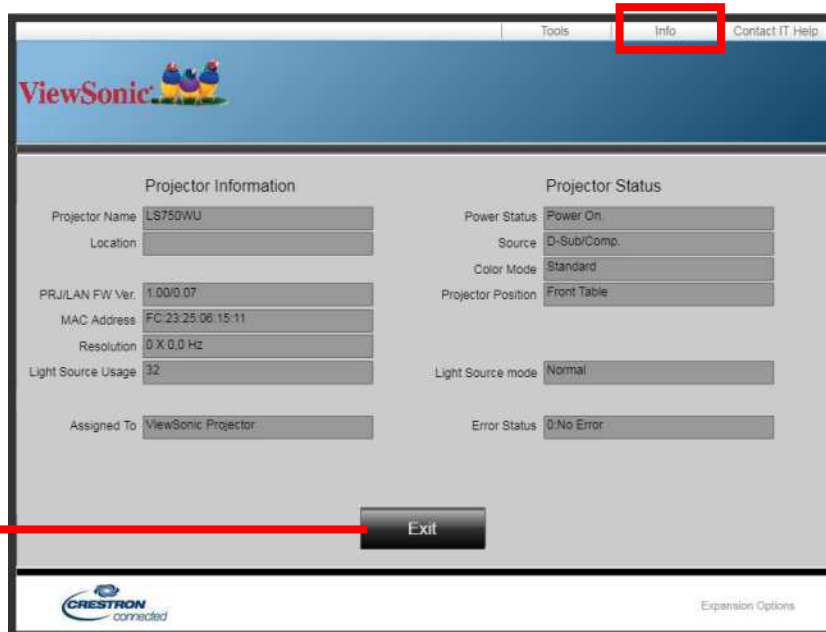
- To prevent errors, only input the English alphabet and digits on the **Tools** page.
  - After making the adjustments, press the “Send” button and the data will be saved for the projector.
- vi. Press “Exit” to go back to the Remote Network Operation page.

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      | 16                           |
|                       | IP ID           | 4                            |
|                       | Port            | 5                            |
| Projector             | Projector Name  | 22                           |
|                       | Location        | 22                           |
|                       | Assigned To     | 22                           |
| Network Configuration | DHCP (Enabled)  | (N/A)                        |
|                       | IP Address      | 15                           |
|                       | Subnet Mask     | 15                           |
|                       | Default Gateway | 15                           |
| User Password         | DNS Server      | 15                           |
|                       | Enabled         | (N/A)                        |
|                       | New Password    | 15                           |
| Admin Password        | Confirm         | 15                           |
|                       | 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.

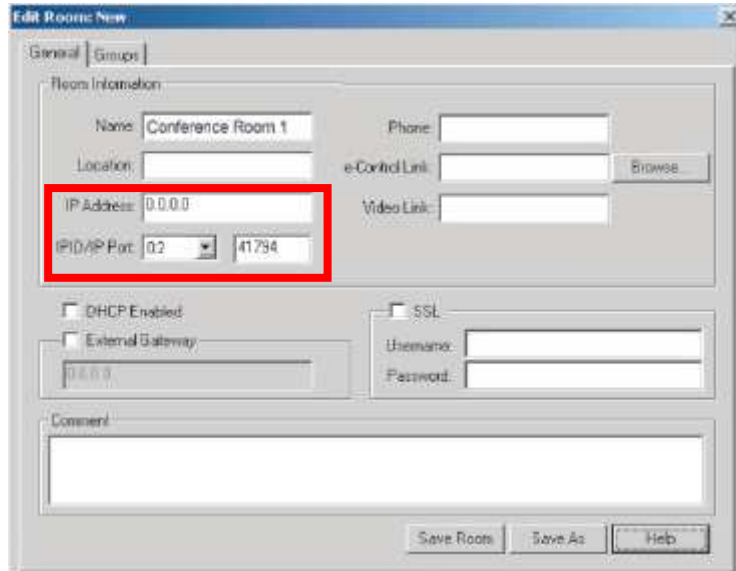


4. After selecting the “**Contact IT Help**”, the HELP DESK window will appear in the upper right corner of the screen. You will be able to deliver messages to RoomView™ software administrators/users who are connected to the same local area network.

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

**NOTE:** PJLink™ can only be used when the password for Network Control has been set.

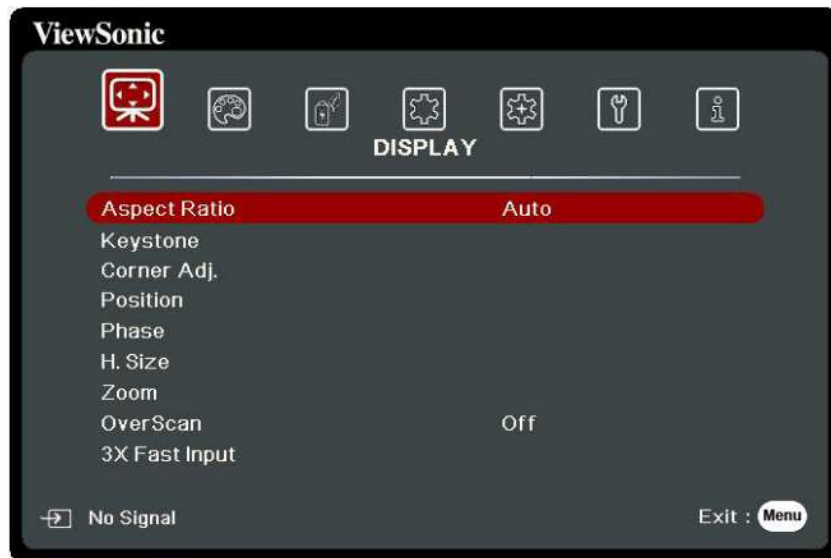
# > Menu Functions

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

## General On-Screen Display (OSD) Menu Operation

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

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



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

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

## On-Screen Display (OSD) Menu Tree

| Main Menu     | Sub-menu     | Menu Option           |         |
|---------------|--------------|-----------------------|---------|
| DISPLAY       | Aspect Ratio | Auto                  |         |
|               |              | 4:3                   |         |
|               |              | 16:9                  |         |
|               |              | 16:10                 |         |
|               |              | Native                |         |
|               | Keystone     | Vertical              | -40~40  |
|               |              | Horizontal            |         |
|               | Corner Adj.  | Top-Right             | 45°/90° |
|               |              | Top-Left              |         |
|               |              | Bottom-Right          |         |
|               |              | Bottom-Left           |         |
|               | 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        |   |                          |
|------------------|-------------------------|--------------------|---|--------------------------|
| <b>IMAGE</b>     | Color Temp.             | 9300K/7500K/6500K  |   |                          |
|                  |                         | Red Gain           | 0~100   |                          |
|                  |                         | Green Gain         | 0~100   |                          |
|                  |                         | Blue Gain          | 0~100   |                          |
|                  |                         | Red Offset         | -50~+50                                       |                          |
|                  |                         | Green Offset       | -50~+50                                       |                          |
|                  |                         | Blue Offset        | -50~+50                                       |                          |
|                  | Advanced                | Color              | -50~50  |                          |
|                  |                         | Tint               | -50~50  |                          |
|                  |                         | Sharpness          | 0~31  |                          |
|                  |                         | Gamma              | 1.8/2.0/2.2/2.35/<br>2.5/Cubic/sRGB           |                          |
|                  |                         | Noise Reduction    | 0~31  |                          |
|                  |                         | Color Management   | Primary Color                                 |                          |
|                  |                         |                    | Hue   |                          |
|                  | Saturation              |                    |   |                          |
|                  | Gain                    |                    |   |                          |
|                  | Reset Color Settings    | Reset              |   |                          |
|                  |                         | Cancel             |   |                          |
|                  | <b>POWER MANAGEMENT</b> | Auto Power On      | Signal  | Disable/VGA/HDMI/<br>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 |                         | Audio Pass Through | Off/On  |                          |
| USB A Power      |                         | On                 |   |                          |
|                  |                         | Off                |   |                          |

| Main Menu     | Sub-menu           | Menu Option                                      |   |  |
|---------------|--------------------|--|---|--|
| <b>BASIC</b>  | 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  |   |  |
|               | <b>ADVANCED</b>    | 3D Settings                                      |   |  |
|               |                    |  | 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                        |  |

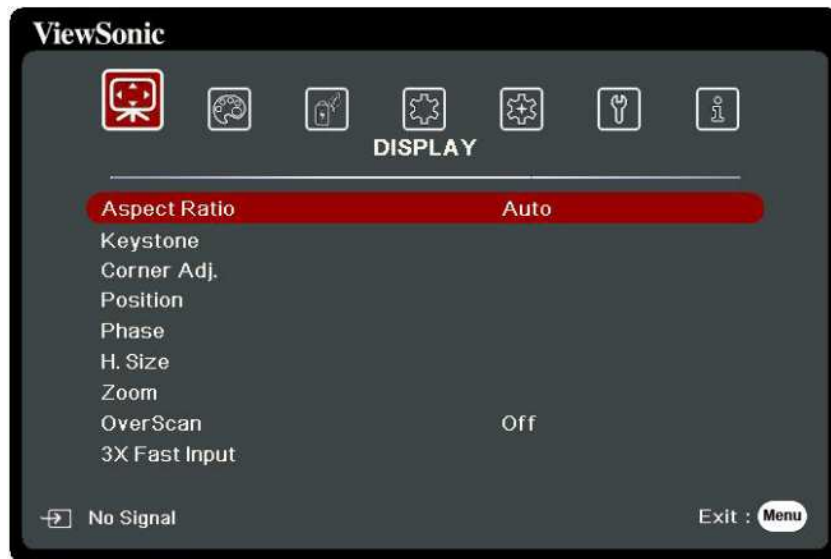
| Main Menu       | Sub-menu              | Menu Option                    |   |        |
|-----------------|-----------------------|--------------------------------|---|--------|
| <b>ADVANCED</b> | LAN Control Settings  | LAN Settings                   | DHCP ON/Static IP   |        |
|                 |                       | Projector IP Address           |   |        |
|                 |                       | Subnet Mask                    |   |        |
|                 |                       | Default Gateway                |   |        |
|                 |                       | DNS Server                     |   |        |
|                 |                       | Standby LAN Control            | Off/On  |        |
|                 |                       | Apply                          |   |        |
|                 | Light Source Settings | Light Source Mode              | Normal/Eco/<br>Dynamic Black 1/<br>Dynamic Black 2/<br>Custom |        |
|                 |                       | Light Source Power             | 20%~100%  |        |
|                 |                       | Reset Light Source Hours       | Reset/Cancel  |        |
|                 |                       | Light Source Hours Information | Light Source Usage Time                                       |        |
|                 |                       |                                | Normal  |        |
|                 |                       |                                | Eco   |        |
|                 |                       |                                | Dynamic Black 1   |        |
|                 |                       |                                | Dynamic Black 2   |        |
|                 |                       |                                | Custom  |        |
|                 |                       | Closed Caption                 | Closed Caption Enable   | Off/On |
|                 | Caption Version       |                                | CC1/CC2/CC3/CC4   |        |
|                 | Reset Settings        | Reset                          |   |        |
|                 |                       | Cancel                         |   |        |



| Main Menu          | Sub-menu                                      | Menu Option                  |  |        |
|--------------------|---|------------------------------|--|--------|
| <b>SYSTEM</b>      | Language                                      | Multi-Language OSD Selection |  |        |
|                    | Projector Position                            | Front Table                  |  |        |
|                    |   | Rear Table                   |  |        |
|                    |   | Rear Ceiling                 |  |        |
|                    |   | Front Ceiling                |  |        |
|                    | Menu Settings                                 | Menu Display Time            | 5 sec/10 sec/15 sec/20 sec/25 sec/30 sec           |        |
|                    |   | Menu Position                | Center/Top-Left/Top-Right/Bottom-Left/Bottom-Right |        |
|                    | High Altitude Mode                            | Off                          |  |        |
|                    |   | On                           |  |        |
|                    | Quick Auto Search                             | Off                          |  |        |
|                    |   | On                           |  |        |
|                    | Security Settings                             | Change Password              |  |        |
|                    |   | Power On Lock                |  | Off/On |
|                    | Panel Key Lock                                | Off                          |  |        |
|                    |   | On                           |  |        |
|                    | Remote Control Code                           | 1/2/3/4/5/6/7/8              |  |        |
| Control Method     | RS-232  |                              |  |        |
|                    | USB   |                              |  |        |
| Baud Rate          | 2400/4800/9600/14400/19200/38400/57600/115200 |                              |  |        |
| <b>INFORMATION</b> | Source  |                              |  |        |
|                    | Color Mode                                    |                              |  |        |
|                    | Resolution                                    |                              |  |        |
|                    | Color System                                  |                              |  |        |
|                    | IP address                                    |                              |  |        |
|                    | MAC address                                   |                              |  |        |
|                    | Firmware Version                              |                              |  |        |
|                    | 3X Fast Input                                 |                              |  |        |
|                    | S/N   |                              |  |        |

## DISPLAY Menu

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



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

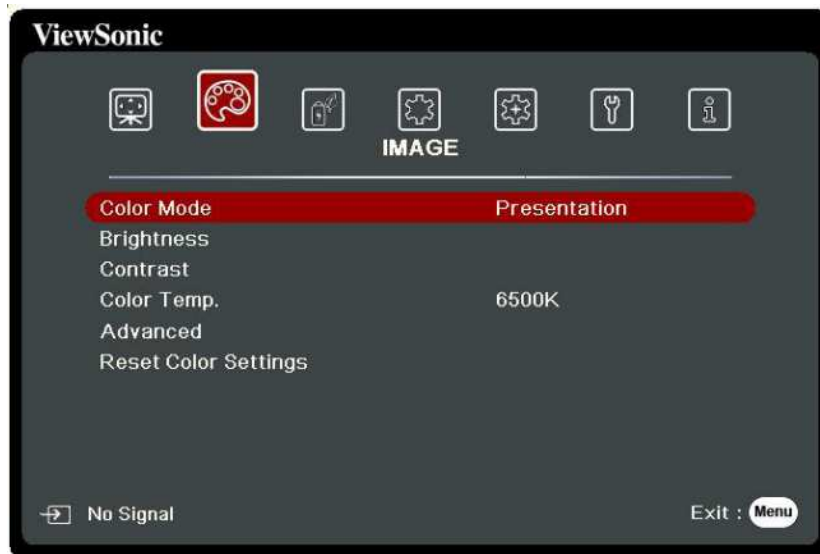
**NOTE:** Some sub-menu options may have another sub-menu. To enter the respective sub-menu, press **Enter**. Use ▲/▼ or ◀/▶ to adjust/select the setting.

| Menu Option  | Description  |
|--------------|--|
| Aspect Ratio | <p><u>Auto</u><br/>Scales an image proportionally to fit the projector's native resolution in its horizontal width. This is suitable for the incoming image which is neither in 4:3 nor 16:9 and you want to make most use of the screen without altering the image's aspect ratio.</p> <p><u>4:3</u><br/>Scales an image so that it is displayed in the center of the screen with a 4:3 aspect ratio. This is most suitable for 4:3 images like computer monitors, standard definition TV, and 4:3 aspect DVD movies, as it displays them without aspect alteration.</p> <p><u>16:9</u><br/>Scales an image so that it is displayed in the center of the screen with a 16:9 aspect ratio. This is most suitable for images which are already in a 16:9 aspect, like high definition TV, as it displays them without aspect alteration.</p> <p><u>16:10</u><br/>Scales an image so that it is displayed in the center of the screen with a 16:10 aspect ratio. This is most suitable for images which are already in a 16:10 aspect, as it displays them without aspect alteration.</p> <p><u>Native</u><br/>Projects an image as its original resolution and resizes it to fit within the display area. For input signals with lower resolutions, the projected image will be displayed in its original size.</p> |
| Keystone     | Adjusts the keystone situation where the projected image becomes a trapezoid due to angled projection.   |
| Corner Adj.  | Adjusts the shape and size of an image that is unevenly rectangular on all sides.  |
| Position     | <p>Adjust the position of the projected image.</p> <p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>• This function is only available when a PC input signal is selected.</li> <li>• The adjustment range may vary under different timings.</li> </ul>   |
| Phase        | <p>Adjusts the clock phase to reduce image distortion.</p> <p><b>NOTE:</b> This function is only available when a PC input signal is selected.</p>   |

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

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

# POWER MANAGEMENT Menu

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



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

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

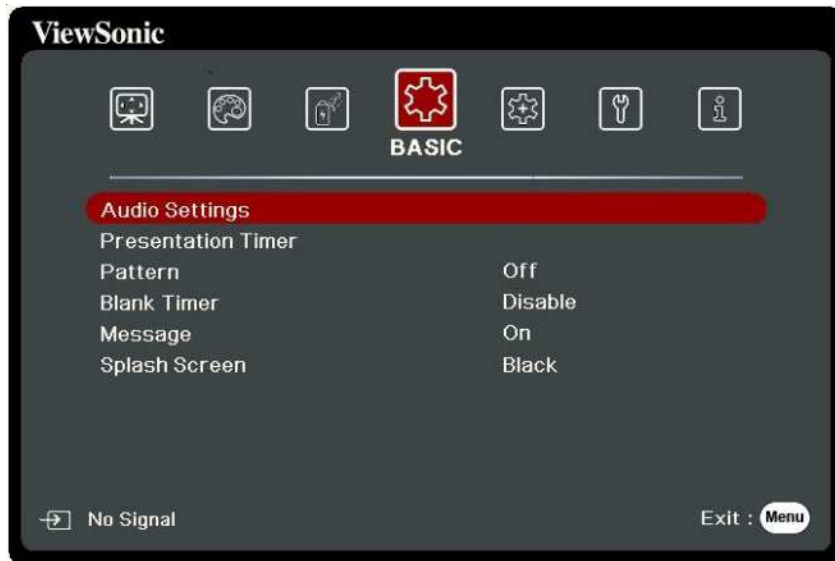


| Menu Option   | Description   |
|---------------|---|
| Auto Power On | <p><u>Signal</u><br/>Selecting VGA/HDMI allows the projector to turn on automatically once the VGA/HDMI signal is fed through the VGA/HDMI cable. You can also select All and the projector will turn on automatically upon receiving either a VGA or HDMI signal.</p> <p><u>CEC</u><br/>This projector supports CEC (Consumer Electronics Control) function for synchronized power on/off operation via HDMI connection. That is, if a device that also supports CEC function is connected to the HDMI input of the projector, when the projector's power is turned off, the power of the connected device will also be turned off automatically. When the power of the connected device is turned on, the projector's power will be turned on automatically.</p> <p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• Depending on the connected device, the CEC function may not work.</li> </ul> <p><u>Direct Power On</u><br/>Allows the projector to turn on automatically once power is fed through the power cord.</p> |
| Smart Energy  | <p><u>Auto Power Off</u><br/>Allows the projector to turn off automatically after a set period of time once no input source is detected to prevent unnecessary waste of light source life.</p> <p><u>Sleep Timer</u><br/>Allows the projector to turn off automatically after a set period of time to prevent unnecessary waste of light source life.</p> <p><u>Power Saving</u><br/>Lowers power consumption if no input source is detected. When Enable is selected, the projector will change to Power Saving mode after no signal is detected for five (5) minutes. This will also help prevent any unnecessary waste of light source life.</p>   |

| Menu Option      | Description  |
|------------------|--|
| Standby Settings | <p>The functions below are available in standby mode (plugged in, but not turned on).</p> <p><u>Audio Pass Through</u></p> <p>When selecting On, the projector outputs an audio signal when the Audio In and Audio Out sockets are correctly connected to a proper device.</p> |
| USB A Power      | <p>When On, the USB Type A port can supply power, and the Control Method will automatically switch to RS-232.</p>  |

# BASIC Menu

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



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

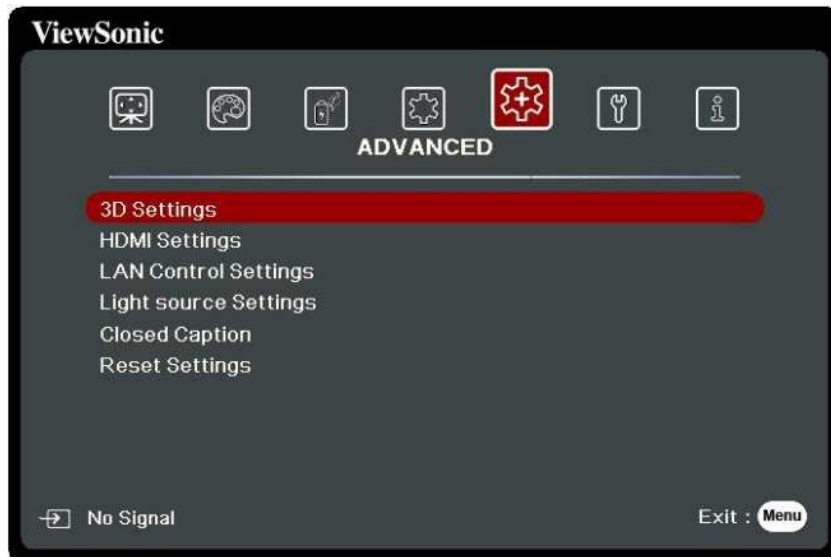
**NOTE:** Some sub-menu options may have another sub-menu. To enter the respective sub-menu, press **Enter**. Use ▲/▼ or ◀/▶ to adjust/select the setting.

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

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

## ADVANCED Menu

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



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

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

| Menu Option   | Description   |
|---------------|---|
| 3D Settings   | <p>This projector features a 3D function which enables you to enjoy 3D movies, videos, and sporting events in a more realistic way by presenting the depth of the images. You need to wear a pair of 3D glasses to view 3D images.</p> <p><u>3D Format</u><br/>The default setting is Auto and the projector automatically chooses an appropriate 3D format when detecting 3D contents. If the projector cannot recognize the 3D format, choose a 3D mode.</p> <p><u>3D Sync Invert</u><br/>When you discover the inversion of the image depth, enable this function to correct the problem.</p> <p><u>Save 3D Settings</u><br/>Saves current 3D settings. 3D settings will automatically be applied if the same resolution and input source are selected.</p> <p><b>NOTE:</b> When the 3D Sync function is on:</p> <ul style="list-style-type: none"> <li>• The brightness level of the projected image will decrease.</li> <li>• The Color Mode, Light Source Mode, Zoom, and OverScan cannot be adjusted.</li> </ul> |
| HDMI Settings | <p><u>HDMI Format</u><br/>Select a suitable color space according to the color space setting of the output device connected.</p> <ul style="list-style-type: none"> <li>» Auto: Sets the projector to detect the color space setting of the input signal automatically.</li> <li>» RGB: Sets the color space as RGB.</li> <li>» YUV: Sets the color space as YUV.</li> </ul> <p><u>HDMI Range</u><br/>Select a suitable HDMI color range according to the color range setting of the output device connected.</p> <ul style="list-style-type: none"> <li>» Auto: Sets the projector to detect the HDMI range of the input signal automatically.</li> <li>» Enhanced: Sets the HDMI color range as 0 - 255.</li> <li>» Normal: Sets the HDMI color range as 16 - 235.</li> </ul>   |

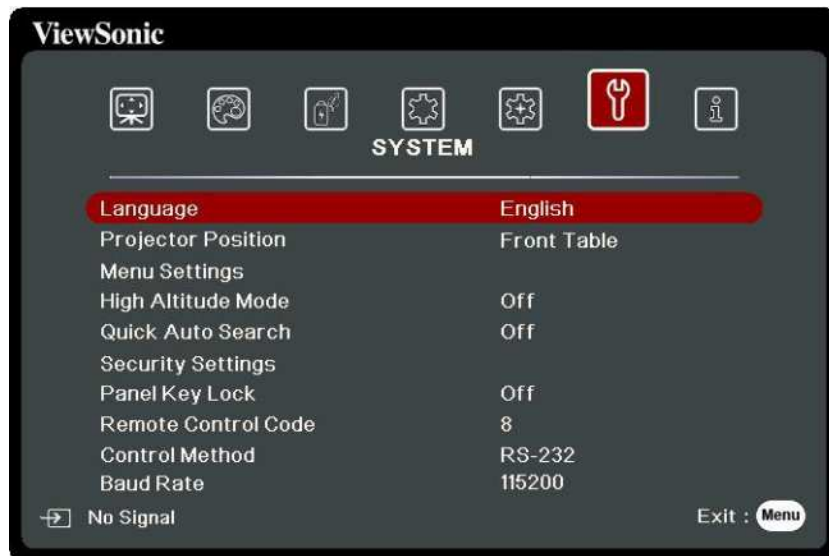
| Menu Option                 | Description   |                             |  |                    |                        |                   |
|-----------------------------|---|-----------------------------|--|--------------------|------------------------|-------------------|
| LAN Control Settings        | <p><u>LAN Settings</u></p> <ul style="list-style-type: none"> <li>» 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.</li> <li>» Static IP: Select this if you are in a non-DHCP environment and make adjustments to below settings.</li> </ul> <table border="1" data-bbox="499 472 1469 685"> <tr> <td data-bbox="499 472 845 517"><u>Projector IP Address</u></td> <td data-bbox="845 472 1469 685" rowspan="4">Only available when <u>LAN Settings</u> is set to Static IP. Use ◀/▶ to select a column and use ▲/▼ to adjust the value.</td> </tr> <tr> <td data-bbox="499 517 845 562"><u>Subnet Mask</u></td> </tr> <tr> <td data-bbox="499 562 845 607"><u>Default Gateway</u></td> </tr> <tr> <td data-bbox="499 607 845 651"><u>DNS Server</u></td> </tr> </table> <p><u>Standby LAN Control</u><br/>Allows the projector to provide the network function in standby mode.</p> <p><u>Apply</u><br/>Enacts the settings.</p> | <u>Projector IP Address</u> | Only available when <u>LAN Settings</u> is set to Static IP. Use ◀/▶ to select a column and use ▲/▼ to adjust the value. | <u>Subnet Mask</u> | <u>Default Gateway</u> | <u>DNS Server</u> |
| <u>Projector IP Address</u> | Only available when <u>LAN Settings</u> is set to Static IP. Use ◀/▶ to select a column and use ▲/▼ to adjust the value.  |                             |  |                    |                        |                   |
| <u>Subnet Mask</u>          |   |                             |  |                    |                        |                   |
| <u>Default Gateway</u>      |   |                             |  |                    |                        |                   |
| <u>DNS Server</u>           |   |                             |  |                    |                        |                   |
| Light Source Settings       | <p><u>Light Source Mode</u></p> <ul style="list-style-type: none"> <li>» Normal: Provides full light source brightness.</li> <li>» Eco: Reduces light source power consumption by 30% and lowers brightness to decrease the fan noise.</li> <li>» Dynamic Black 1: Reduces light source power consumption by up to 95% depending on the content brightness level.</li> <li>» Dynamic Black 2: Reduces light source power consumption by up to 60% depending on the content brightness level.</li> <li>» Custom: Allows you to adjust the light source power.</li> </ul> <p><u>Light Source Power</u><br/>Only available when Light Source Mode is Custom.</p> <p><u>Reset Light Source Hours</u><br/>Resets the light source timer after new light source is installed. For changing the light source, please contact qualified service personnel.</p> <p><u>Light Source Hours Information</u></p> <ul style="list-style-type: none"> <li>» Light Source Usage Time: Displays the number of hours the light source has been used.</li> </ul>         |                             |  |                    |                        |                   |



| Menu Option    | Description   |
|----------------|---|
| Closed Caption | <p><u>Closed Caption Enable</u><br/> Activates the function when the selected input signal carries closed captions.</p> <p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>• 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).</li> <li>• This function is only available when a Composite video input signal is selected and its system format is NTSC.</li> </ul> <p><u>Caption Version</u><br/> To view captions, select CC1, CC2, CC3, or CC4 (CC1 displays captions in the primary language in your area).</p> |
| Reset Settings | Returns all settings to the factory preset values. When using Reset Settings, the following settings will still remain: Language, Projector Position, High Altitude Mode, Security Settings, Remote Control Code, Zoom, Keystone, Control Method, USB A Power, Corner Adj. and Baud Rate.   |

## SYSTEM Menu

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



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

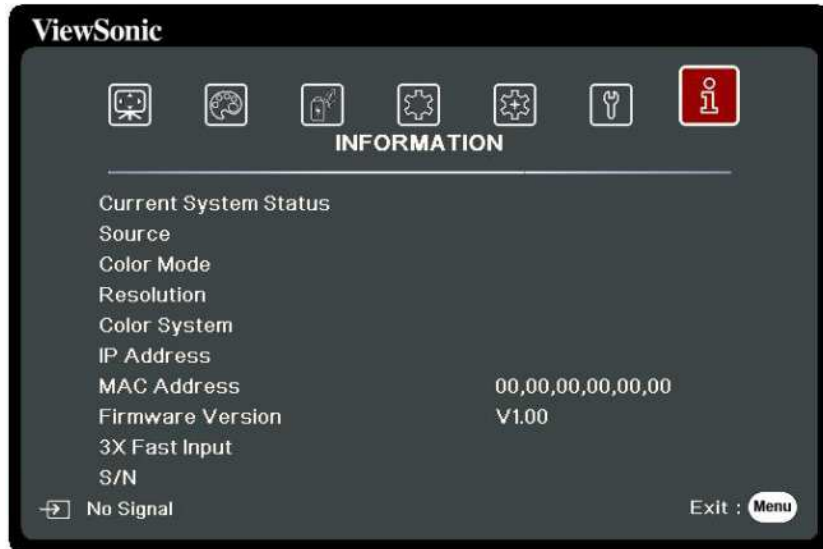
**NOTE:** Some sub-menu options may have another sub-menu. To enter the respective sub-menu, press **Enter**. Use ▲/▼ or ◀/▶ to adjust/select the setting.

| Menu Option         | Description   |
|---------------------|---|
| Language            | Sets the language for the On-Screen Display (OSD) Menu.   |
| Projector Position  | Selects a proper position for the projector.  |
| Menu Settings       | <p><u>Menu Display Time</u><br/>Sets the length of time the OSD Menu will remain active after your last interaction.</p> <p><u>Menu Position</u><br/>Sets the OSD Menu's position.</p>  |
| High Altitude Mode  | <p>We recommend you use the High Altitude Mode when your environment is between 1,501 m to 3,000 m above sea level, and ambient temperature is between 0°C–30°C.</p> <p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>• Do not use High Altitude Mode if your environment is between 0 to 1,500 m, and the temperature is between 0°C to 35°C. If used, the projector will become over cooled.</li> <li>• Using “High Altitude Mode” may cause more operating noise, as the fan speed will be increased to improve cooling and performance.</li> </ul>  |
| Quick Auto Search   | Allows the projector to automatically search for the signals.   |
| Security Settings   | See “Using the Password Function” on page 20.   |
| Panel Key Lock      | Locks the control keys on the projector.  |
| Remote Control Code | <p>Sets the remote control code for this projector (between 1~8). When multiple adjacent projectors are in operation at the same time, switching the codes can prevent interference from other remote controls. After the remote control code is set, switch to the same ID for the remote control to control this projector. To switch the code for the remote control, press <b>ID set</b> and the number button corresponding to the remote control code together for 5 seconds or more. The initial code is set to 1. When the code is switched to 8, the remote control can control every projector.</p> <p><b>NOTE:</b> If different codes are set on the projector and remote control, there will be no response from the remote control. When that happens, a message will display to remind you to switch the code for the remote control.</p> |
| Control Method      | Allows you to select a preferred control port: through the RS-232 port, the USB port or the HDBaseT port. When selecting USB, USB A Power will be switched to Off automatically.  |

| <b>Menu Option</b> | <b>Description</b>  |
|--------------------|---|
| 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

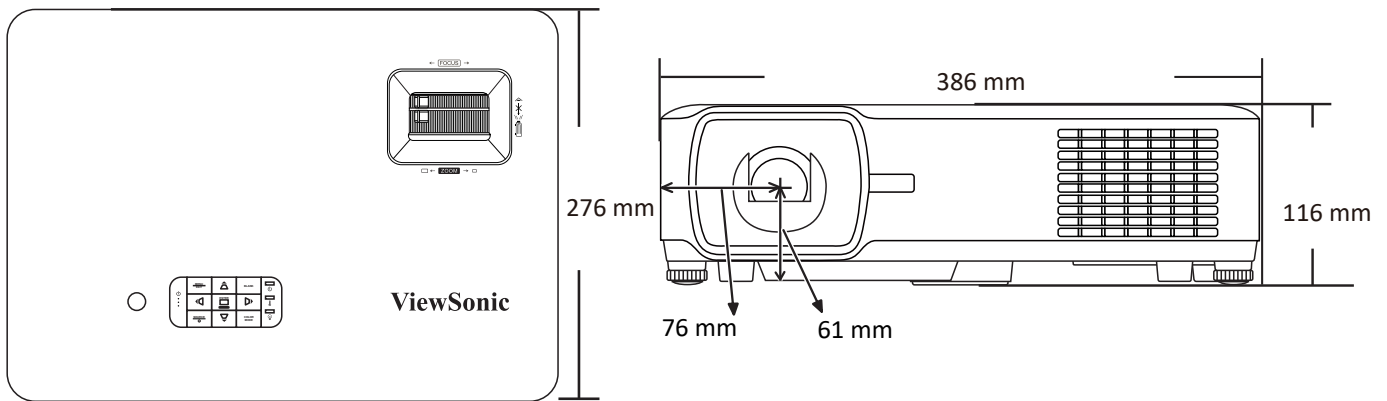
| Item                       | Category             | LS600W   |
|----------------------------|----------------------|--|
| Projector                  | Type                 | LED  |
|                            | Display Size         | 60" ~ 300"   |
|                            | Throw Ratio          | 1.37~1.64 (87"±3%@2.56m)                                       |
|                            | Lens                 | 1.2x±3% Optical Zoom   |
|                            | Light Source Type    | OSRAM LED (RGBB/P2MQ)  |
|                            | 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               | 1280 x 800   |
| Power Adapter <sup>1</sup> | Input Voltage        | AC 100-240V, 50/60 Hz (auto switch)                            |
| Operating conditions       | Temperature          | 0°C to 40°C (32°F to 104°F)                                    |
|                            | Humidity             | 10% to 90% (non-condensing)                                    |
|                            | Altitude             | 0 to 1,500 m at 0°C to 35°C<br>1,501 to 3,000 m at 0°C to 30°C |
| Storage conditions         | Temperature          | -20°C to 60°C (non-condensing)                                 |
|                            | Humidity             | 10% to 90% (non-condensing)                                    |
|                            | Altitude             | 0 to 40,000 ft sea level at -20°C to 30°C                      |
| Dimensions                 | Physical (W x D x H) | 386 mm x 276 mm x 116 mm<br>(15.2" x 10.9" x 4.6" )            |
| Weight                     | Physical             | 5±0.2 kg (11 lbs)  |
| Power Saving Modes         | On <sup>2</sup>      | 400W (Typical)   |
|                            | Off                  | < 0.5W (Standby)   |

<sup>1</sup> Please use the power adapter from ViewSonic® or an authorized source only.

<sup>2</sup> The test condition follows EEI standards.

## Projector Dimensions

386 mm (W) x 276 mm (D) x 116 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  | 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  | 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  | Supported    |
| 1440 x 900         | WXGA+_60                   | 59.887            | 55.935            | 106.5       | Supported        | Supported  | Supported    |
| 1400 x 1050        | SXGA+_60                   | 59.978            | 65.317            | 121.75      | Supported        | Supported  | Supported    |
| 1600 x 1200        | UXGA                       | 60                | 75                | 162         | Supported        | Supported  | Supported    |
| 1680 x 1050        | 1680x1050_60               | 59.954            | 65.29             | 146.25      | Supported        | 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       | Supported        | 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  | 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  | 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  | Supported    |
| 1440 x 900  | WXGA+_60                   | 59.887            | 55.935            | 106.5       | Supported        | Supported  | Supported    |
| 1400 x 1050 | SXGA+_60                   | 59.978            | 65.317            | 121.75      | Supported        | Supported  | Supported    |
| 1600 x 1200 | UXGA                       | 60                | 75                | 162         | Supported        | Supported  | Supported    |

| Resolution         | Mode           | Refresh rate (Hz) | H-frequency (kHz) | Clock (MHz) | 3D Sync          |            |              |
|--------------------|----------------|-------------------|-------------------|-------------|------------------|------------|--------------|
|                    |                |                   |                   |             | Frame Sequential | Top-Bottom | Side-by-Side |
| 1680 x 1050        | 1680 x 1050_60 | 59.954            | 65.29             | 146.25      | Supported        | 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       | Supported        | 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        | Supported     | Supported  | Supported    |
| 720/60p    | 1280 x 720      | 45                         | 60                      | 74.25                     | Supported        | Supported     | Supported  | Supported    |
| 1080/50i   | 1920 x 1080     | 28.13                      | 50                      | 74.25                     | Supported        |               | Supported  | Supported    |
| 1080/60i   | 1920 x 1080     | 33.75                      | 60                      | 74.25                     | Supported        |               | Supported  | Supported    |
| 1080/24P   | 1920 x 1080     | 27                         | 24                      | 74.25                     |                  | Supported     |            |              |
| 1080/50P   | 1920 x 1080     | 56.25                      | 50                      | 148.5                     | Supported        |               | Supported  | Supported    |
| 1080/60P   | 1920 x 1080     | 67.5                       | 60                      | 148.5                     | Supported        |               | 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     |
| <br>(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     |

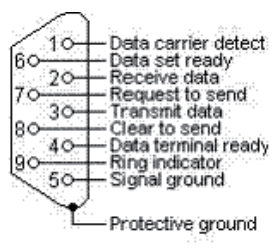
## Address Code

|        |      |
|--------|------|
| 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      |
| Reset to Factory Default | Write | Reset to Factory Default | 0x06 0x14 0x00 0x03 0x00 0x34 0x0C 0x08 0x5F           |
| 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 |
| Quick Power Off          | Write | OFF                      | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x0B 0x00 0x68      |
| Quick Power Off          | Write | ON                       | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x0B 0x01 0x69      |
| Quick Power Off          | Read  | Status                   | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x0B 0x69 |
| 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 |

| Function           | Type  | Action           | Command  |
|--------------------|-------|------------------|--|
| 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      |
| 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  | Write | Dynamic Black 1  | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x10 0x09 0x76      |
| Light source mode  | Write | Dynamic Black 2  | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x10 0x0A 0x77      |
| 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      |

| Function                         | Type  | Action               | Command  |
|----------------------------------|-------|----------------------|--|
| Aspect ratio                     | Write | 16:10                | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x04 0x66      |
| Aspect ratio                     | Write | Anamorphic           | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x05 0x67      |
| Aspect ratio                     | Write | Wide                 | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x06 0x68      |
| Aspect ratio                     | Write | 2.35:1               | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x07 0x69      |
| Aspect ratio                     | Write | Panorama             | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x08 0x6A      |
| 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      |
| 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 | Warm/5500K           | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x08 0x00 0x66      |
| Color temperature                | Write | Normal/6500K         | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x08 0x01 0x67      |
| Color temperature                | Write | Neutral/7500K        | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x08 0x02 0x68      |
| Color temperature                | Write | Cool/8000K/<br>8500K | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x08 0x03 0x69      |
| Color temperature                | Write | 9300K                | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x08 0x04 0x6A      |
| Color temperature                | Write | 9000K                | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x08 0x05 0x6B      |
| Color temperature                | Write | User                 | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x06 0x6C      |
| Color temperature                | Read  | Get Value            | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x08 0x67 |
| Color temperature-<br>Red gain   | Write | Decrease             | 0x06 0x14 0x00 0x05 0x00 0x34 0x12 0x3A 0x00 0x00 0x99 |
| Color temperature-<br>Red gain   | Write | Increase             | 0x06 0x14 0x00 0x05 0x00 0x34 0x12 0x3A 0x00 0x01 0x9A |
| Color temperature-<br>Red gain   | Read  | Get value            | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x3B 0x9A |
| Color temperature-<br>Green gain | Write | Decrease             | 0x06 0x14 0x00 0x05 0x00 0x34 0x12 0x3A 0x01 0x00 0x9A |
| Color temperature-<br>Green gain | Write | Increase             | 0x06 0x14 0x00 0x05 0x00 0x34 0x12 0x3A 0x01 0x01 0x9B |
| Color temperature-<br>Green gain | Read  | Get value            | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x3C 0x9B |
| Color temperature-<br>Blue gain  | Write | Decrease             | 0x06 0x14 0x00 0x05 0x00 0x34 0x12 0x3A 0x02 0x00 0x9B |
| Color temperature-<br>Blue gain  | Write | Increase             | 0x06 0x14 0x00 0x05 0x00 0x34 0x12 0x3A 0x02 0x01 0x9C |



| Function                       | Type  | Action             | Command  |
|--------------------------------|-------|--------------------|--|
| 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 |
| 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 | sRGB/<br>ViewMatch | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x05 0x6E      |
| Color mode                     | Write | Dynamic            | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x08 0x71      |
| Color mode                     | Write | Rec709             | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x09 0x72      |
| Color mode                     | Write | DICOM SIM          | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x0a 0x73      |
| Color mode                     | Write | Sports             | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x11 0x7A      |

| Function                     | Type  | Action        | Command  |
|------------------------------|-------|---------------|--|
| 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 | Gaming        | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x12 0x7B      |
| Color mode                   | Write | Vivid         | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x15 0x7E      |
| Color mode                   | Write | ISF Day       | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x16 0x7F      |
| Color mode                   | Write | ISF Night     | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x17 0x80      |
| 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                   | Write | TV            | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x1A 0x83      |
| Color mode                   | Read  | Status        | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x0B 0x6A |
| Reset current 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      |
| 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 | HDMI 2        | 0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x01 0x07 0x67      |

| Function                | Type  | Action          | Command  |
|-------------------------|-------|-----------------|--|
| 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      |
| 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      |

| Function                | Type  | Action                           | Command  |
|-------------------------|-------|----------------------------------|--|
| Light Source Usage Time | Read  | Get Equivalent light source Hour | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x15 0x01 0x63 |
| Light Source Usage Time | Read  | Get Usage Time                   | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x15 0x0A 0x6C |
| 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/Full                    | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x29 0x00 0x86      |
| HDMI Range              | Write | Normal/Limited                   | 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 |
| 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      |
| 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      |

| Function                | Type  | Action       | Command  |
|-------------------------|-------|--------------|--|
| 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 | Cycle        | 0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x36 0x00 0x95      |
| Audio Mode              | Write | Movie        | 0x06 0x14 0x00 0x04 0x00 0x34 0x14 0x05 0x04 0x69      |
| Audio Mode              | Write | Music        | 0x06 0x14 0x00 0x04 0x00 0x34 0x14 0x05 0x05 0x6A      |
| Audio Mode              | Write | Speech       | 0x06 0x 14 0x00 0x04 0x00 0x34 0x14 0x05 0x01 0x66     |
| Audio Mode              | Write | User         | 0x06 0x14 0x00 0x04 0x00 0x34 0x14 0x05 0x06 0x6B      |
| Audio Mode              | Read  | Status       | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x14 0x05 0x66 |
| S/PDIF                  | Write | On           | 0x06 0x14 0x00 0x04 0x00 0x34 0x14 0x05 0x07 0x6C      |
| S/PDIF                  | Write | Off          | 0x06 0x14 0x00 0x04 0x00 0x34 0x14 0x05 0x08 0x6D      |
| S/PDIF                  | Read  | Status       | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x38 0x96 |
| Frame Interpolation     | Write | Low          | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x2D 0x00 0x8A      |
| Frame Interpolation     | Write | Mid          | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x2D 0x01 0x8B      |
| Frame Interpolation     | Write | High         | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x2D 0x02 0x8C      |
| Frame Interpolation     | Read  | Status       | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x2D 0x8B |
| Gamma                   | Write | 1.8          | 0x02 0x14 0x00 0x04 0x00 0x34 0x05 0xCA 0x00 0x1B      |
| Gamma                   | Write | 2            | 0x02 0x14 0x00 0x04 0x00 0x34 0x05 0xCA 0x01 0x1C      |
| Gamma                   | Write | 2.2          | 0x02 0x14 0x00 0x04 0x00 0x34 0x05 0xCA 0x02 0x1D      |
| Gamma                   | Write | 2.35         | 0x02 0x14 0x00 0x04 0x00 0x34 0x05 0xCA 0x03 0x1E      |
| Gamma                   | Write | 2.5          | 0x02 0x14 0x00 0x04 0x00 0x34 0x05 0xCA 0x04 0x1F      |

| Function   | Type  | Action    | Command   |
|------------|-------|-----------|---|
| Gamma      | Write | sRGB      | 0x02 0x14 0x00 0x04 0x00 0x34 0x05 0xCA 0x05 0x20         |
| Gamma      | Write | Cubic     | 0x02 0x14 0x00 0x04 0x00 0x34 0x05 0xCA 0x06 0x21         |
| Gamma      | Read  | Get Value | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x05 0xCA<br>0x1C |
| Lens Focus | Write | Right     | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x37 0x01 0x95         |
| Lens Focus | Write | Left      | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x37 0x00 0x94         |

# 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  |
|-------------------|--|
| 9300K             | Images appear bluish white.  |
| 7500K             | Default color temperature. Images maintain a normal white appearance. Recommended for general use. |
| 6500K             | 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 via 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   | <ul style="list-style-type: none"><li>• Ensure the power cord is properly attached to the projector and to the power outlet.</li><li>• If the cooling process has not completed, please wait until it has finished then try to turn on the projector again.</li><li>• If the above does not work, try another power outlet or another electrical device with the same power outlet.</li></ul> |
| There is no picture              | <ul style="list-style-type: none"><li>• Ensure the video source cable is connected properly, and that the video source is turned on.</li><li>• If the input source is not selected automatically, select the correct source with the <b>Source</b> key on either the projector or the remote control.</li></ul>   |
| The image is blurred             | <ul style="list-style-type: none"><li>• Adjusting the <b>Focus Ring</b> will help correctly focus the projection lens.</li><li>• Ensure the projector and screen are aligned properly. If necessary, adjust the height of the projector as well as the projection angle and direction.</li></ul>  |
| The remote control does not work | <ul style="list-style-type: none"><li>• Ensure there are no obstacles between the remote control and projector; and that they are within 8 m (26 ft) of each other.</li><li>• The batteries may be out of power, please check and replace if necessary.</li></ul>   |

## LED Indicators

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

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

| Light source Mode      | Description  |
|------------------------|--|
| <b>Normal</b>          | Provides full light source brightness.   |
| <b>Eco</b>             | Reduces light source power consumption by 30% and lowers brightness, and decreases fan noise.            |
| <b>Dynamic Black 1</b> | Reduces light source power consumption by up to 95% depending on the content's brightness level.         |
| <b>Dynamic Black 2</b> | Reduces light source power consumption by up to 60% depending on the content's brightness level.         |
| <b>Custom</b>          | 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

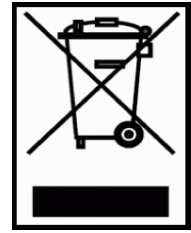
CAN ICES-3 (B)/NMB-3(B)

### 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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## Customer Service

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

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

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

## **Limited Warranty**

### ViewSonic® Projector

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

ViewSonic warrants its products to be free from defects in material and workmanship, under normal use, during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, ViewSonic will, at its sole option, repair or replace the product with a like product. Replacement product or parts may include remanufactured or refurbished parts or components.

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

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

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

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

Under heavy usage settings, where a projector's use includes more than fourteen (14) hours average daily usage, North and South America: One (1) year warranty for all parts excluding the lamp, one (1) year for labor, and ninety (90) days for the original lamp from the date of the first consumer purchase; Europe: One (1) year warranty for all parts excluding the lamp, one (1) year for labor, and ninety (90) days for the original lamp from the date of the first consumer purchase.

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

Lamp warranty subject to terms and conditions, verification and approval. Applies to manufacturer's installed lamp only. All accessory lamps purchased separately are warranted for 90 days.

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

This warranty is valid only for the first consumer purchaser.

**What the warranty does not cover:**

1. Any product on which the serial number has been defaced, modified or removed.
2. Damage, deterioration, 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](http://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 Juarez 284 local 2  
Col. Bugambilias C.P: 83140  
Tel: 01-66-22-14-9005  
E-Mail: [disc2@hmo.megared.net.mx](mailto:disc2@hmo.megared.net.mx)

**Villahermosa:**

Compumantenimietnos 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](mailto: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](mailto: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](mailto:gacosta@qplus.com.mx)

**Chihuahua**

Soluciones Globales en Computación  
C. Magisterio # 3321 Col. Magisterial  
Chihuahua, Chih.  
Tel: 4136954  
E-Mail: [Cefeo@soluglobales.com](mailto:Cefeo@soluglobales.com)

**Cuernavaca**

Compusupport de Cuernavaca SA de CV  
Francisco Leyva # 178 Col. Miguel Hidalgo  
C.P. 62040, Cuernavaca Morelos  
Tel: 01 777 3180579 / 01 777 3124014  
E-Mail: [aquevedo@compusupportcva.com](mailto:aquevedo@compusupportcva.com)

**Distrito Federal:**

QPLUS, S.A. de C.V.  
Av. Coyoacán 931  
Col. Del Valle 03100, México, D.F.  
Tel: 01(52)55-50-00-27-35  
E-Mail : [gacosta@qplus.com.mx](mailto:gacosta@qplus.com.mx)

**Guadalajara, Jal.:**

SERVICRECE, S.A. de C.V.  
Av. Niños Héroes # 2281  
Col. Arcos Sur, Sector Juárez  
44170, Guadalajara, Jalisco  
Tel: 01(52)33-36-15-15-43  
E-Mail: [mmiranda@servicrece.com](mailto:mmiranda@servicrece.com)

**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](mailto:aydeem@gps1.com.mx)

**MERIDA:**

ELECTROSER  
Av Reforma No. 403Gx39 y 41  
Mérida, Yucatán, México CP97000  
Tel: (52) 999-925-1916  
E-Mail: [rrrb@sureste.com](mailto:rrrb@sureste.com)

**Oaxaca, Oax.:**

CENTRO DE DISTRIBUCION Y  
SERVICIO, S.A. de C.V.  
Murguía # 708 P.A., Col. Centro, 68000, Oaxaca  
Tel: 01(52)95-15-15-22-22  
Fax: 01(52)95-15-13-67-00  
E-Mail: [gpotai2001@hotmail.com](mailto:gpotai2001@hotmail.com)

**Tijuana:**

STD  
Av Ferrocarril Sonora #3780 L-C  
Col 20 de Noviembre  
Tijuana, Mexico

**FOR USA SUPPORT:**

ViewSonic Corporation  
14035 Pipeline Ave. Chino, CA 91710, USA  
Tel: 800-688-6688  
E-Mail: <http://www.viewsonic.com>

Projector Mexico Warranty Term Template In UG  
VSC\_TEMP\_2006





**ViewSonic®**