ViewSonic®

# PRO7827HD
# DLP 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 cu idadosamente las instrucciones en este manual”

Model No. VS16232

# Thank you for choosing ViewSonic

With over 25 years 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 !

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# Compliance Information

## 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

CE The device complies with the EMC Directive 2004/108/EC and Low Voltage Directive 2006/95/EC.

**Following information is only for EU-member states:**
The mark is in compliance with the Waste Electrical and Electronic Equipment Directive 2012/19/EC (WEEE).
The mark indicates the requirement NOT to dispose the equipment including any spent or discarded batteries or accumulators as unsorted municipal waste, but use the return and collection systems available.
If the batteries, accumulators and button cells included with this equipment, display the chemical symbol Hg, Cd, or Pb, then it means that the battery has a heavy metal content of more than 0.0005% Mercury or more than, 0.002% Cadmium, or more than 0.004% Lead.

# Declaration of RoHS2 Compliance

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

| Substance | Proposed Maximum Concentration | Actual Concentration |
|---|---|---|
| Lead (Pb) | 0.1% | < 0.1% |
| Mercury (Hg) | 0.1% | < 0.1% |
| Cadmium (Cd) | 0.01% | < 0.01% |
| Hexavalent Chromium ($Cr^{6+}$) | 0.1% | < 0.1% |
| Polybrominated biphenyls (PBB) | 0.1% | < 0.1% |
| Polybrominated diphenyl ethers (PBDE) | 0.1% | < 0.1% |

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

Examples of exempted components are:

1. Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp):
   (1) Short length (≦500 mm): maximum 3.5 mg per lamp.
   (2) Medium length (＞500 mm and ≦1,500 mm): maximum 5 mg per lamp.
   (3) Long length (＞1,500 mm): maximum 13 mg per lamp.
2. Lead in glass of cathode ray tubes.
3. Lead in glass of fluorescent tubes not exceeding 0.2% by weight.
4. Lead as an alloying element in aluminium containing up to 0.4% lead by weight.
5. Copper alloy containing up to 4% lead by weight.
6. Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead).
7. 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.

## Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this unit near water.
6. Clean with a soft, dry cloth.
7. Do not block any ventilation openings. Install the unit in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other devices (including amplifiers) that produce heat.
9. Do not defeat the safety purpose 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 blade and the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs. Convenience receptacles and the point where they exit from the unit. Be sure that the power outlet is located near the unit so that it is easily accessible.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the unit. When a cart is used, use caution when moving the cart/unit combination to avoid injury from tipping over.

13. Unplug this unit when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the unit has been damaged in any way, such as: if the power-supply cord or plug is damaged, if liquid is spilled onto or objects fall into the unit, if the unit is exposed to rain or moisture, or if the unit does not operate normally or has been dropped.

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## Product Registration

To fulfill possible future product needs, and to receive additional product information as it becomes available, please visit your region section on ViewSonic's website to register your product online.
The ViewSonic CD also provides an opportunity for you to print the product registration form. Upon completion, please mail or fax to a respective ViewSonic office. To find your registration form, use the directory ":\CD\Registration".
Registering your product will best prepare you for future customer service needs.
Please print this user guide and fill the information in the "For Your Records" section.
For additional information, please see the "Customer Support" section in this guide.

### For Your Records

| | |
|---|---|
| **Product Name:** | PRO7827HD<br>ViewSonic DLP Projector |
| **Model Number:** | VS16232 |
| **Document Number:** | PRO7827HD_UG_ENG Rev. 1A 12-18-15 |
| **Serial Number:** | _____ |
| **Purchase Date:** | _____ |

**Product disposal at end of product life**
The lamp in this product contains mercury which can be dangerous to you and the environment. Please use care and dispose of in accordance with local, state or federal laws.
ViewSonic respects the environment and is committed to working and living green.
Thank you for being part of Smarter, Greener Computing.
Please visit ViewSonic website to learn more.
USA & Canada: http://www.viewsonic.com/company/green/recycle-program/
Europe: http://www.viewsoniceurope.com/uk/support/recycling-information/
Taiwan: http://recycle.epa.gov.tw/recycle/index2.aspx

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# *Important safety instructions*

Your projector is designed and tested to meet the latest standards for safety of information technology equipment. However, to ensure safe use of this product, it is important that you follow the instructions mentioned in this manual and marked on the product.

## Safety Instructions

1. **Please read this manual before you operate your projector.** Save it for future reference.
2. **Do not look straight at the projector lens during operation.** The intense light beam may damage your eyes.
3. **Refer servicing to qualified service personnel.**
4. **Always open the lens shutter or remove the lens cap when the projector lamp is on.**
5. In some countries, the line voltage is NOT stable. This projector is designed to operate safely within a mains voltage between 100 to 240 volts AC, but could fail if power cuts or surges of ±10 volts occur. **In areas where the mains voltage may fluctuate or cut out, it is recommended that you connect your projector through a power stabilizer, surge protector or uninterruptible power supply (UPS).**
6. Do not block the projection lens with any objects when the projector is under operation as this could cause the objects to become heated and deformed or even cause a fire. To temporarily turn off the lamp, press BLANK on the projector or remote control.
7. The lamp becomes extremely hot during operation. Allow the projector to cool for approximately 45 minutes prior to removing the lamp assembly for replacement.
8. Do not operate lamps beyond the rated lamp life. Excessive operation of lamps beyond the rated life could cause them to break on rare occasions.
9. Never replace the lamp assembly or any electronic components unless the projector is unplugged.
10. Do not place this product on an unstable cart, stand, or table. The product may fall, sustaining serious damage.
11. Do not attempt to disassemble this projector. There are dangerous high voltages inside which may cause death if you should come into contact with live parts. The only user serviceable part is the lamp which has its own removable cover.

    Under no circumstances should you ever undo or remove any other covers. Refer servicing only to suitably qualified professional service personnel.
12. Do not place this projector in any of the following environments.
    - Space that is poorly ventilated or confined. Allow at least 50 cm clearance from walls and free flow of air around the projector.
    - Locations where temperatures may become excessively high, such as the inside of a car with all windows rolled up.
    - Locations where excessive humidity, dust, or cigarette smoke may contaminate optical components, shortening the projector's life span and darkening the picture.
    - Locations near fire alarms
    - Locations with an ambient temperature above 40°C / 104°F
    - Locations where the altitudes are higher than 3000 m (10000 feet).

13. Do not block the ventilation holes. If the ventilation holes are seriously obstructed, overheating inside the projector may result in a fire.
    - Do not place this projector on a blanket, bedding or any other soft surface.
    - Do not cover this projector with a cloth or any other item.
    - Do not place inflammables near the projector.
14. Always place the projector on a level, horizontal surface during operation.
    - Do not use if tilted at an angle of more than 10 degrees left to right, nor at angle of more than 15 degrees front to back. Using the projector when it is not fully horizontal may cause a malfunction of, or damage to, the lamp.
15. Do not stand the projector on end vertically. Doing so may cause the projector to fall over, causing injury or resulting in damage to the projector.
16. Do not step on the projector or place any objects upon it. Besides probable physical damage to the projector, doing so may result in accidents and possible injury.
17. 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's wall socket and call your local service center to have the projector serviced.
18. This product is capable of displaying inverted pictures for ceiling mount installation.

    ⚠ **Use only qualified ceiling mount kit for mounting the projector and ensure it is securely installed.**

19. When the projector is under operation, you may sense some heated air and odor from its ventilation grill. It is a normal phenomenon and not a product defect.
20. Do not use the Security bar for transporting or installation. It should be used with a commercially available theft prevention cable.

# Safety instructions for ceiling mounting of the projector

We want you to have a pleasant experience using your projector, so we need to bring this safety matter to your attention to prevent damage to person and property.

If you intend to mount your 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.

# Projector features

The projector integrates high-performance optical engine projection and a user-friendly design to deliver high reliability and ease of use.

The projector offers the following features.

- Dynamic mode adjusting the power consumption of the lamp according to the brightness of the image being projected
- Power saving function decreasing the power consumption of the lamp by up to 70% when no input signal can be detected for a set period of time.
- Presentation timer for better control of time during presentations
- Supports 3D display
- Color Management allowing color adjustments to your liking
- Less than 0.5W power consumption when power saving mode is turned on
- Screen Color correction allowing projection on surfaces of several predefined colors
- Quick auto search speeding up the signal detecting process
- Color modes providing choices for different projection purposes
- Selectable quick power off function
- One-key auto-adjustment to display the best picture quality
- Digital keystone correction and 4 corner adjustment to correct distorted images
- Adjustable color management control for data/video display
- Ability to display 1.07 billion colors
- Multi-language On-Screen Display (OSD) menus
- Switchable normal and economic modes to reduce the power consumption
- Component HDTV compatibility ($YP_bP_r$)
- HDMI CEC (Consumer Electronics Control) function allows synchronized power ON/OFF operation between the projector and a CEC-compatible DVD player device connected to the HDMI input of the projector
- ISF certified professional image tools with Day/Night modes to optimize color performance

**The apparent brightness of the projected image will vary depending on the ambient lighting conditions, selected input signal contrast/brightness settings, and is directly proportional to projection distance.**

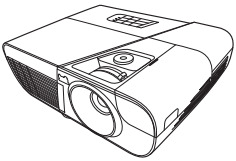
**The lamp brightness will decline over time and may vary within the lamp manufacturers specifications. This is normal and expected behavior.**

# Shipping contents

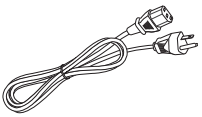
Carefully unpack and verify that you have all of the items shown below. If any of these items are missing, please contact your place of purchase.

## Standard accessories

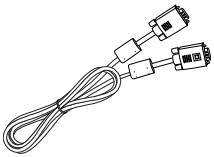
**The supplied accessories will be suitable for your region, and may differ from those illustrated.**



Projector



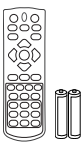
Power Cord



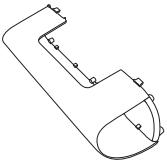
VGA Cable

Multi-language User Manual CD

Quick Start Guide



Remote Control & Batteries



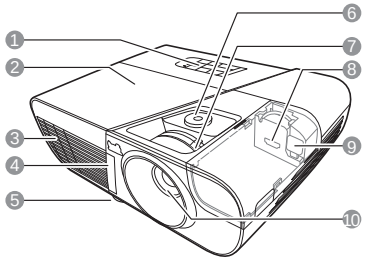
Cable management cover

## Optional accessories

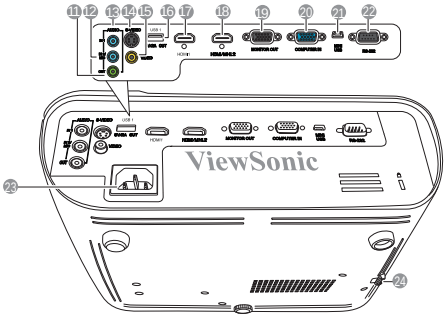
1. Replacement lamp (RLC-101)
2. Soft carry case
3. VGA-Component adapter
4. Dust filter

# Projector exterior view

**Front/upper side**




**Rear/lower side**



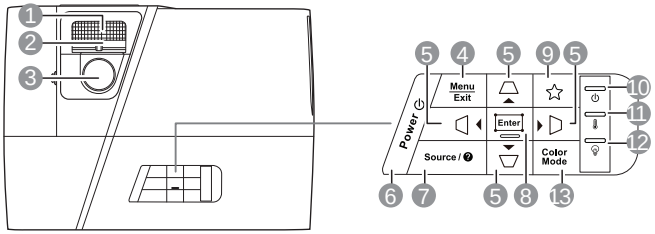

1. External control panel (See "Projector" on page 7 for details.)
2. Lamp cover
3. Vent (heated air exhaust)
4. Front IR remote sensor
5. Adjuster foot
6. Lens shift wheel
7. Focus and Zoom rings
8. HDMI/MHL-3 port
9. Micro-USB cable
10. Projection lens
11. Audio signal output socket
12. Audio signal input socket 2/ Microphone
13. Audio signal input socket 1
14. S-Video input socket
15. Video input socket
16. USB port-1 (5V/2A out)
17. HDMI-1 port
18. HDMI/MHL-2 port
19. RGB signal output socket
20. RGB (PC)/Component video (YPbPr/YCbCr) signal input socket
21. Mini USB port
22. RS-232 control port
23. AC power cord inlet
24. Security bar for anti-theft lock slot

**Warning**

- **THIS APPARATUS MUST BE EARTHED.**
- **When installing the unit, incorporate a readily accessible disconnect device in the fixed wiring, or connect the power plug to an easily accessible socket-outlet near the unit. If a fault should occur during operation of the unit, operate the disconnect device to switch the power supply off, or disconnect the power plug.**

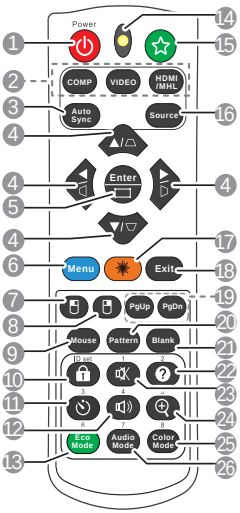
# Controls and functions

## Projector




1. **Focus ring**
   Adjusts the focus of the projected image.
2. **Zoom ring**
   Adjusts the size of the projected image.
3. **Lens shift wheel**
   Shifts the projection lens vertically.
4. **Menu**
   Turns on the On-Screen Display (OSD) menu.
   **Exit**
   Goes back to previous OSD menu, exits and saves menu settings.
5. **(Keystone keys)**
   Manually corrects distorted images resulting from an angled projection.
   **◀ Left/ ▶ Right/ ▲ Up/ ▼ Down**
   Selects the desired menu items and makes adjustments.
6. **Power**
   Toggles the projector between standby mode and Power ON.
7. **Source**
   Displays the source selection bar.
   **(Help)**
   Displays the HELP menu by a long press for 3 seconds.
8. **Enter**
   Enacts the selected On-Screen Display (OSD) menu item.
   Displays the **Corner Adj.** page.
9. **(My Button)**
   Allows user to define a short cut key on this button, and the function item is selected in OSD menu.
10. **(Power indicator light)**
    Lights up or flashes when the projector is under operation.
11. **(Temperature indicator light)**
    Lights up red if the projector's temperature becomes too high.
12. **(Lamp indicator light)**
    Indicates the status of the lamp. Lights up or flashes when the lamp has developed a problem.
13. **Color Mode**
    Selects an available picture setup mode.

# Remote control




**To use the remote mouse control keys (Page Up, Page Down, , and ), see "Using the remote mouse control" on page 10 for details.**

1. **Power**

   Toggles the projector between standby mode and Power ON.

2. **Source selection keys**

   - **COMP**

     Selects **D-Sub / Comp.** source for display.

   - **VIDEO**

     Selects **Video** source for display.

   - **HDMI/MHL**

     Selects **HDMI/MHL** source for display.

3. **Auto Sync**

   Automatically determines the best picture timings for the displayed image.

4. **/ / / (Keystone keys)**

   Manually corrects distorted images resulting from an angled projection.

   **◀ Left/ ▶ Right/ ▲ Up/ ▼ Down**

   Selects the desired menu items and makes adjustments.

5. **Enter**

   Enacts the selected On-Screen Display (OSD) menu item.

   Displays the **Corner Adj.** page.

6. **Menu**

   Turns on the On-Screen Display (OSD) menu.

7. **(Left mouse button)**

   Performs the same function as the left mouse button when the mouse mode is activated.

**Only available when a PC input signal is selected.**

8. **(Right mouse button)**
   Performs the same function as the right mouse button when the mouse mode is activated.

**Only available when a PC input signal is selected.**

9. **Mouse**
   Switches between the normal and mouse modes.

   **PgUp**, **PgDn**, , : active after pressing **Mouse**. An icon appears on the screen to indicate the activation of the mouse mode.

**Only available when a PC input signal is selected.**

10. **(Panel Key Lock)**
    Activates panel key lock. To unlock the panel keys, press .

11. **(Presentation Timer)**
    Displays the presentation timer settings menu.

12. **(Volume)**
    Displays the volume adjustment bar.

13. **Eco Mode**
    Selects a lamp mode.

14. **LED indicator**

15. **(My Button)**
    Allows user to define a short cut key on the remote control, and the function item is selected in OSD menu.

16. **Source**
    Displays the source selection bar.

17. **Laser**
    Emits visible laser pointer light for presentation purposes.

18. **Exit**
    Goes back to previous OSD menu, exits and saves menu settings.

19. **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) when the mouse mode is activated.

**Only available when a PC input signal is selected.**

20. **Pattern**
    Displays embedded test pattern.

21. **Blank**
    Hides the screen picture.

22. **(Help)**
    Displays the HELP menu.

23. **(Mute)**
    Toggles the projector audio between on and off.

24. **(Zoom)**
    Displays the zoom bar that magnifies or reduces the projected picture size.

25. **Color Mode**
    Selects an available picture setup mode.

26. **Audio Mode**
    Selects an audio mode.

### Operating the LASER pointer

The Laser Pointer is a presentation aid for professionals. It emits colored light when you press it. The laser beam is visible. It is necessary to press and hold **Laser** for continuous output.

**Do not look into the laser light window or shine the laser light beam on yourself or others. See the warning messages on the back of the remote control prior to using it.**

The laser pointer is not a toy. Parents should be mindful of the dangers of laser energy and keep this remote control out of the reach of children.

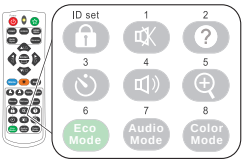
## Remote control code

The projector can be assigned to 8 different remote control codes, 1 to 8. When several adjacent projectors are in operation at the same time, switching the remote control codes

can prevent interference from other remote controls. Set the remote control code for the projector first before changing that for the remote control.

To switch the code for the projector, select from among 1 to 8 in the **SYSTEM SETTING: ADVANCED** > **Remote Control Code** menu.

To switch the code for the remote control, press **ID set** and the number button corresponding to the remote control code set in the projector OSD 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.




**If different codes are set on the projector and remote control, there will be no response from the remote control. When that happens, a messgae will display to remind you to switch the code for the remote control.**

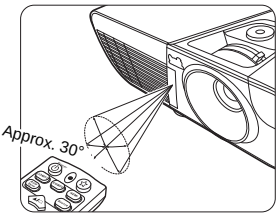
## Using the remote mouse control

The capability of operating your computer with the remote control gives you more flexibility when delivering presentations.

1. Take a USB cable and connect one end to the the Mini USB port on the projector and other end to your PC or notebook prior to using the remote control in place of your computer's mouse. See "Connecting a computer" on page 17 for details.
2. Set the input signal to **D-Sub / Comp.**.
3. Press **Mouse** on the remote control to switch from the normal mode to the mouse mode. An icon appears on the screen to indicate the activation of the mouse mode.
4. Perform the desired mouse controls on your remote control.
   - To move the cursor on the screen, press ◀ / ▲ / ▼ / ▶.
   - To left-click, press .
   - To right-click, press .
   - To operate your display software program (on a connected PC) which responds to page up/down commands (like Microsoft PowerPoint), press **PgUp**/**PgDn**.
   - To return to the normal mode, press **Mouse** again or other keys except for the mouse related multi-function keys.

## Remote control effective range

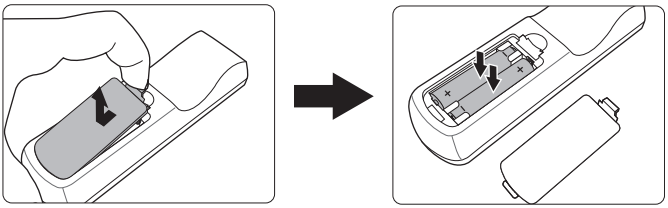
The Infra-Red (IR) remote control is located on the front of the projector. The remote control must be held at an angle within 30 degrees perpendicular to the projector's IR remote control sensor to function correctly. The distance between the remote control and the sensor should not exceed 8 meters (~ 26 feet).




Make sure that there are no obstacles between the remote control and the IR sensor on the projector that might obstruct the infra-red beam.

## Replacing the remote control batteries

1. To open the battery cover, turn the remote control over to view its back, press on the finger grip on the cover and pull it up in the direction of the arrow as illustrated.
2. Remove any existing batteries (if necessary) and install two AAA batteries observing the battery polarities as indicated in the base of the battery compartment. Positive (+) goes to positive and negative (-) goes to negative.
3. Refit the cover by aligning it with the base and pushing it back down into position. Stop when it clicks into place.



**WARNING**

- **Avoid leaving the remote control and batteries in an excessive heat or humid environment like the kitchen, bathroom, sauna, sunroom or in a closed car.**
- **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.**
- **Never throw the batteries into a fire. There may be danger of an explosion.**
- **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 from possible battery leakage.**

# *Positioning your projector*

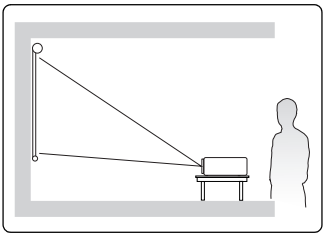
## Choosing a location

Your room layout or personal preference will dictate which installation location you select. Take into consideration the size and position of your screen, the location of a suitable power outlet, as well as the location and distance between the projector and the rest of your equipment.

Your projector is designed to be installed in one of the following 4 possible installation locations:

**1. Front Table**

Select this location with the projector placed near the floor in front of the screen. This is the most common way to position the projector for quick setup and portability.

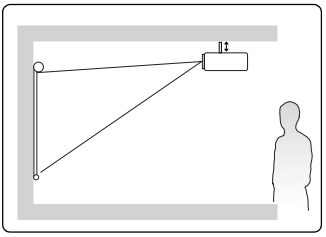


**2. Front Ceiling**

Select this location with the projector suspended upside-down from the ceiling in front of the screen.

Purchase the projector ceiling mount kit from your dealer to mount your projector on the ceiling.

Set **Front Ceiling** in the **SYSTEM SETTING: BASIC** > **Projector Position** menu after you turn the projector on.

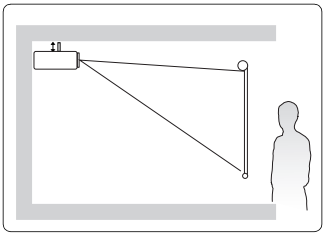


**3. Rear Ceiling**

Select this location with the projector suspended upside-down from the ceiling behind the screen.

Note that a special rear projection screen and the projector ceiling mounting kit are required for this installation location.

Set **Rear Ceiling** in the **SYSTEM SETTING: BASIC** > **Projector Position** menu after you turn the projector on.

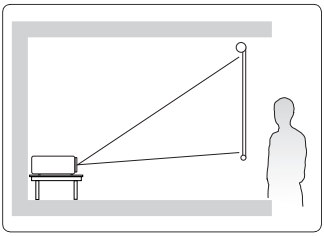


**4. Rear Table**

Select this location with the projector placed near the floor behind the screen.

Note that a special rear projection screen is required.

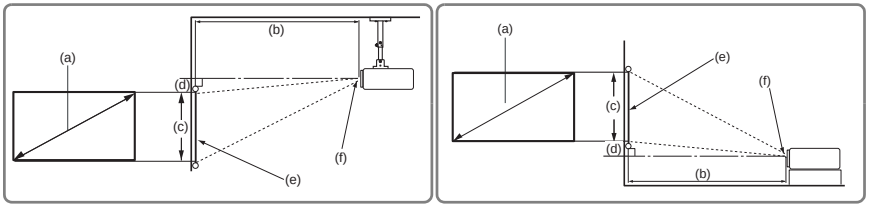
Set **Rear Table** in the **SYSTEM SETTING: BASIC** > **Projector Position** menu after you turn the projector on.



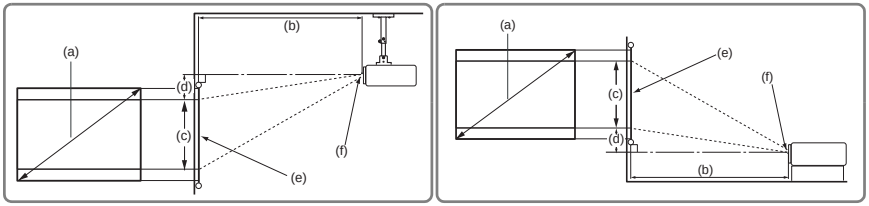
# Projection dimensions

**The "screen" mentioned below refers to the projection screen usually consisting of a screen surface and a support structure.**

- 16:9 image on a 16:9 screen




- 16:9 image on a 4:3 screen




(e): Screen (f): Center of lens

| (a) Screen Size [inch (m)] | | 16:9 image on a 16:9 Screen | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (b) Projection distance [m (inch)] | | | | (c) Image height [cm (inch)] | | (d) Vertical offset [cm (inch)] | | | |
| | | min. | | max. | | | | min. | | max. | |
| 30 | (0.8) | 0.8 | (30) | 1.0 | (39) | 37 | (15) | 1.9 | (0.7) | 5.6 | (2.2) |
| 40 | (1.0) | 1.0 | (40) | 1.3 | (52) | 50 | (20) | 2.5 | (1.0) | 7.5 | (2.9) |
| 50 | (1.3) | 1.3 | (50) | 1.7 | (65) | 62 | (25) | 3.1 | (1.2) | 9.3 | (3.7) |
| 60 | (1.5) | 1.5 | (60) | 2.0 | (79) | 75 | (29) | 3.7 | (1.5) | 11.2 | (4.4) |
| 70 | (1.8) | 1.8 | (70) | 2.3 | (92) | 87 | (34) | 4.4 | (1.7) | 13.1 | (5.1) |
| 80 | (2.0) | 2.0 | (81) | 2.7 | (105) | 100 | (39) | 5.0 | (2.0) | 14.9 | (5.9) |
| 90 | (2.3) | 2.3 | (91) | 3.0 | (118) | 112 | (44) | 5.6 | (2.2) | 16.8 | (6.6) |
| 100 | (2.5) | 2.6 | (101) | 3.3 | (131) | 125 | (49) | 6.2 | (2.5) | 18.7 | (7.4) |
| 120 | (3.0) | 3.1 | (121) | 4.0 | (157) | 149 | (59) | 7.5 | (2.9) | 22.4 | (8.8) |
| 150 | (3.8) | 3.8 | (151) | 5.0 | (196) | 187 | (74) | 9.3 | (3.7) | 28.0 | (11.0) |
| 200 | (5.1) | 5.1 | (201) | 6.7 | (262) | 249 | (98) | 12.5 | (4.9) | 37.4 | (14.7) |
| 250 | (6.4) | 6.4 | (252) | 8.3 | (327) | 311 | (123) | 15.6 | (6.1) | 46.7 | (18.4) |
| 300 | (7.6) | 7.7 | (302) | 10.0 | (393) | 374 | (147) | 18.7 | (7.4) | 56.0 | (22.1) |

| (a) Screen Size [inch (m)] | | 16:9 image on a 4:3 Screen | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (b) Projection distance [m (inch)] | | | | (c) Image height [cm (inch)] | | (d) Vertical offset [cm (inch)] | | | |
| | | min. | | max. | | | | min. | | max. | |
| 30 | (0.8) | 0.7 | (28) | 0.9 | (36) | 34 | (14) | 1.7 | (0.7) | 5.1 | (2.0) |
| 40 | (1.0) | 0.9 | (37) | 1.2 | (48) | 46 | (18) | 2.3 | (0.9) | 6.9 | (2.7) |
| 50 | (1.3) | 1.2 | (46) | 1.5 | (60) | 57 | (23) | 2.9 | (1.1) | 8.6 | (3.4) |
| 60 | (1.5) | 1.4 | (55) | 1.8 | (72) | 69 | (27) | 3.4 | (1.4) | 10.3 | (4.1) |
| 70 | (1.8) | 1.6 | (65) | 2.1 | (84) | 80 | (32) | 4.0 | (1.6) | 12.0 | (4.7) |
| 80 | (2.0) | 1.9 | (74) | 2.4 | (96) | 91 | (36) | 4.6 | (1.8) | 13.7 | (5.4) |
| 90 | (2.3) | 2.1 | (83) | 2.7 | (108) | 103 | (41) | 5.1 | (2.0) | 15.4 | (6.1) |
| 100 | (2.5) | 2.3 | (92) | 3.1 | (120) | 114 | (45) | 5.7 | (2.3) | 17.1 | (6.8) |
| 120 | (3.0) | 2.8 | (111) | 3.7 | (144) | 137 | (54) | 6.9 | (2.7) | 20.6 | (8.1) |
| 150 | (3.8) | 3.5 | (139) | 4.6 | (180) | 171 | (68) | 8.6 | (3.4) | 25.7 | (10.1) |
| 200 | (5.1) | 4.7 | (185) | 6.1 | (240) | 229 | (90) | 11.4 | (4.5) | 34.3 | (13.5) |
| 250 | (6.4) | 5.9 | (231) | 7.6 | (300) | 286 | (113) | 14.3 | (5.6) | 42.9 | (16.9) |
| 300 | (7.6) | 7.0 | (277) | 9.2 | (360) | 343 | (135) | 17.1 | (6.8) | 51.4 | (20.3) |

☞ **There is 3% tolerance among these numbers due to optical component variations. It is recommended that if you intend to permanently install the projector, you should physically test the projection size and distance using the actual projector in situ before you permanently install it, so as to make allowance for this projector's optical characteristics. This will help you determine the exact mounting position so that it best suits your installation location.**

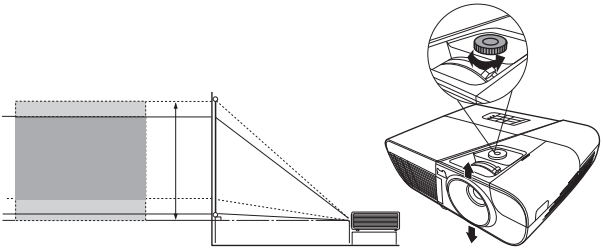
# Shifting the projection lens vertically

The vertical lens shift control provides flexibility for installing your projector. It allows the projector to be positioned slightly above or below the top level of the projected images.

Use the wheel to shift the projection lens upwards or downwards within the allowable range depending on your desired image position.

### To use the lens shift wheel:

Turn the wheel to adjust the projected image position.



**Do not over-tighten the wheel.**

**Lens shift adjustment does not result in a degraded picture quality.**

# Connection

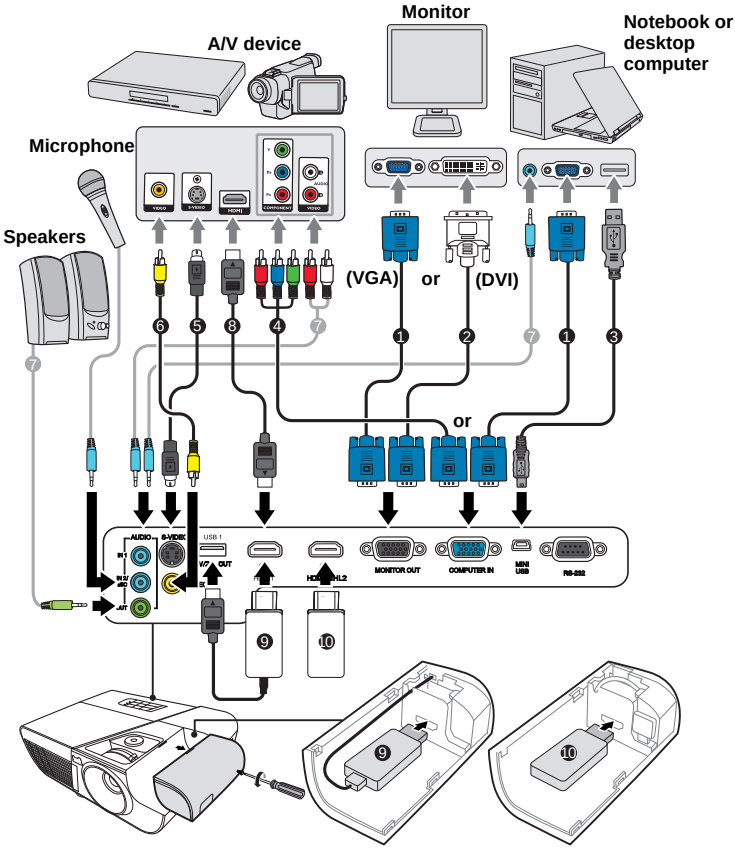
When connecting a signal source to the projector, be sure to:

1. Turn all equipment off before making any connections.
2. Use the correct signal cables for each source.
3. Ensure the cables are firmly inserted.

**In the connections shown below, some cables may not be included with the projector (see "Shipping contents" on page 5). They are commercially available from electronics stores.**

**The connection illustrations below are for reference only. The rear connecting jacks available on the projector vary with each projector model.**

**For detailed connection methods, see pages 17-20.**




| | |
|---|---|
| 1. VGA cable | 6. Video cable |
| 2. VGA to DVI-A cable | 7. Audio cable |
| 3. USB cable | 8. HDMI cable |
| 4. Component Video to VGA (D-Sub) adapter cable | 9. HDMI dongle |
| 5. S-Video cable | 10. MHL dongle |

# Connecting a computer or a monitor

## Connecting a computer

1. Take the supplied VGA cable and connect one end to the D-Sub output socket of the computer.
2. Connect the other end of the VGA cable to the **COMPUTER IN** signal input socket on the projector.
3. If you wish to use the remote mouse control function, take a USB cable and connect the larger end to the USB port of the computer, and smaller end to the **MINI USB** socket on the projector. See "Using the remote mouse control" on page 10 for details.

☞ **Many notebooks do not turn on their external video ports when connected to a projector. Usually a key combo like FN + F3 or CRT/LCD key turns the external display on/off. Locate a function key labeled CRT/LCD or a function key with a monitor symbol on the notebook. Press FN and the labeled function key simultaneously. Refer to your notebook's documentation to find your notebook's key combination.**

## Connecting a monitor

If you want to view your presentation close-up on a monitor as well as on the screen, you can connect the **MONITOR OUT** signal output socket on the projector to an external monitor with a VGA cable following the instructions below:

1. Connect the projector to a computer as described in "Connecting a computer" on page 17.
2. Take a suitable VGA cable (only one supplied) and connect one end of the cable to the D-Sub input socket of the video monitor.

   Or if your monitor is equipped with a DVI input socket, take a VGA to DVI-A cable and connect the DVI end of the cable to the DVI input socket of the video monitor.
3. Connect the other end of the cable to the **MONITOR OUT** socket on the projector.

☞ **The MONITOR OUT output only works when COMPUTER IN connection is made to the projector.**

☞ **To use this connection method when the projector is in standby mode, turn on the Active VGA Out function under the SOURCE > Standby Settings menu.**

# Connecting Video source devices

You can connect your projector to various Video source devices that provide any one of the following output sockets:

- HDMI
- Component Video
- S-Video
- Video (composite)

You need only connect the projector to a Video source device using just one of the above connecting methods, however each provides a different level of video quality. The method you choose will most likely depend upon the availability of matching terminals on both the projector and the Video source device as described below:

### Best video quality

The best available video connection method is HDMI. If your source device is equipped with an HDMI socket, you can enjoy uncompressed digital video quality.

See "Connecting an HDMI device" on page 19 for how to connect the projector to an HDMI source device and other details.

If no **HDMI** source is available, the next best video signal is Component video (not to be confused with composite video). Digital TV tuner and DVD players output Component video natively, so if available on your devices, this should be your connection method of choice in preference to (composite) video.

See "Connecting a Component Video source device" on page 19 for how to connect the projector to a component video device.

### Better video quality

The S-Video method provides a better quality analog video than standard composite Video. If you have both composite Video and S-Video output terminals on your Video source device, you should elect to use the S-Video option.

See "Connecting an S-Video source device" on page 20 for how to connect the projector to an S-Video device.

### Least video quality

Composite Video is an analog video and will result in a perfectly acceptable, but less than optimal result from your projector, being the least video quality of the available methods described here.

See "Connecting a composite Video source device" on page 20 for how to connect the projector to a composite Video device.

### Connecting audio

The projector has built-in mono speaker(s) which is designed to provide basic audio functionality accompanying data presentations for business purposes only. It is not designed for, nor intended for stereo audio reproduction use as might be expected in home theater or home cinema applications. Any stereo audio input (if provided), is mixed into a common mono audio output through the projector speaker.

If you wish, you can make use of the projector (mixed mono) speaker in your presentations, and also connect separate amplified speakers to the Audio Out socket of the projector. The audio output is a mixed mono signal and controlled by the projector Volume and Mute settings.

If you have a separate sound system, you will most likely want to connect the audio output of your Video source device to that sound system, instead of to the mono audio projector.

# Connecting an HDMI device

You should use an HDMI cable when making connection between the projector and HDMI devices.

1. Take an HDMI cable and connect one end to the HDMI output port of the video device.
2. Connect the other end of the cable to the **HDMI** input port on the projector.

**In the unlikely event that you connect the projector to a DVD player via the projector's HDMI input and the projected picture displays wrong colors, please change the color space to YUV. See "Changing HDMI input settings" on page 27 for details.**

**The projector is only capable of playing mixed mono audio, even if a stereo audio input is connected. See "Connecting audio" on page 18 for details.**

# Connecting a Component Video source device

Examine your Video source device to determine if it has a set of unused Component Video output sockets available:

- If so, you can continue with this procedure.
- If not, you will need to reassess which method you can use to connect to the device.

1. Take a VGA (D-Sub)-Component adaptor cable and connect the end with 3 RCA type connectors to the Component Video output sockets of the Video source device. Match the color of the plugs to the color of the sockets; green to green, blue to blue, and red to red.
2. Connect the other end of the VGA (D-Sub)-Component adaptor cable (with a D-Sub type connector) to the **COMPUTER IN** socket on the projector.

**The projector is only capable of playing mixed mono audio, even if a stereo audio input is connected. See "Connecting audio" on page 18 for details.**

**If the selected video image is not displayed after the projector is turned on and the correct video source has been selected, check that the Video source device is turned on and operating correctly. Also check that the signal cables have been connected correctly.**

**VGA-Component adapter**
**(ViewSonic P/N: CB-00008906)**

## Connecting an S-Video source device

Examine your Video source device to determine if it has an unused S-Video output socket available:

- If so, you can continue with this procedure.
- If not, you will need to reassess which method you can use to connect to the device.

1. Take an S-Video cable and connect one end to the S-Video output socket of the Video source device.
2. Connect the other end of the S-Video cable to the **S-VIDEO** socket on the projector.

☞ **The projector is only capable of playing mixed mono audio, even if a stereo audio input is connected. See "Connecting audio" on page 18 for details.**

☞ **If the selected video image is not displayed after the projector is turned on and the correct video source has been selected, check that the Video source device is turned on and operating correctly. Also check that the signal cables have been connected correctly.**

☞ **If you have already made a Component Video connection between the projector and this S-Video source device using Component Video connections, you need not connect to this device using an S-Video connection as this makes an unnecessary second connection of poorer picture quality. See "Connecting Video source devices" on page 18 for details.**

## Connecting a composite Video source device

Examine your Video source device to determine if it has a set of unused composite Video output sockets available:

- If so, you can continue with this procedure.
- If not, you will need to reassess which method you can use to connect to the device.

1. Take a Video cable and connect one end to the composite Video output socket of the Video source device.
2. Connect the other end of the Video cable to the **VIDEO** socket on the projector.

☞ **The projector is only capable of playing mixed mono audio, even if a stereo audio input is connected. See "Connecting audio" on page 18 for details.**

☞ **If the selected video image is not displayed after the projector is turned on and the correct video source has been selected, check that the Video source device is turned on and operating correctly. Also check that the signal cables have been connected correctly.**

☞ **You need only connect to this device using a composite Video connection if Component Video and S-Video inputs are unavailable for use. See "Connecting Video source devices" on page 18 for details.**

# Playing sound through the projector

You can make use of the projector (mixed mono) speaker in your presentations, and also connect separate amplified speakers to the **AUDIO OUT** socket of the projector.

If you have a separate sound system, you will most likely want to connect the audio output of your Video source device to that sound system, instead of to the mono audio projector.

You can also use a microphone to output the sound through the projector speaker when the **SYSTEM SETTING: ADVANCED** > **Audio Settings** > **Audio In 2** menu is set to **Microphone**. See "Adjusting the Audio In 2 setting" on page 40 for details.

Once connected, the audio can be controlled by the projector On-Screen Display (OSD) menus. See "Adjusting the sound" on page 39 for details.

### About the microphone input

- If you wish to use a microphone, connect a 3.5 mini jack cable microphone to the projector.
- You can use a wireless microphone as long as a wireless module is attached to the projector's microphone input jack and it works well with the associated devices. To ensure a quality use of the wireless microphone, it is recommended that your microphone conforms to the specifications listed in the table below.

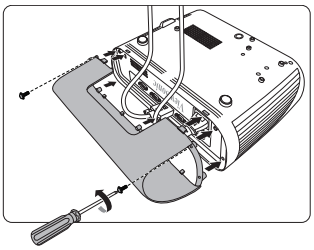
| Signal | Parameter | Min | Type | Max | |
|---|---|---|---|---|---|
| Microphone | Transducer Principle | | | | Dynamic |
| | Impedance | 300 | | 1K | ohm |
| | Frequency response | 600 | | 16k | Hz |

- There are two ways to adjust microphone volumes.
  - Directly set microphone volume levels in the **SYSTEM SETTING: ADVANCED** > **Audio Settings** > **Microphone Volume** menu.
  - Set projector volume levels in the **SYSTEM SETTING: ADVANCED** > **Audio Settings** > **Audio Settings** > **Audio Volume** menu, or press **(Volume)** on the remote control. (The projector volume setting will affect the microphone volume.)
- If the microphone is not working, check the volume setting and cable connection.
- You might get feedback noise from the microphone when you are too close to the speaker of the projector. Move the microphone away from the speaker of the projector. The greater volume you require, the greater distance you need to be away from the speaker to prevent the noise.

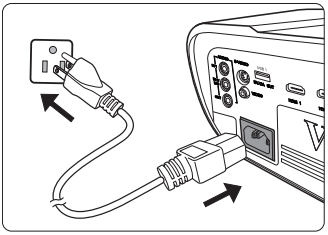
# Using the cable management cover

This cable management cover helps you to conceal and organize the cables connected to the back of the projector. It is especially useful when the projector is ceiling-mounted or wall-mounted.

1. Make sure that all the cables are properly connected to the projector.
2. Attach the cable management cover to the back of the projector.
3. Tighten the screws that secure the cable management cover.



# Starting up the projector



1. Plug the power cord into the projector and into a wall socket. Turn on the wall socket switch (where fitted).
2. (If available) Remove the lens cap.
3. Press **Power** to start the projector. As soon as the lamp lights up, a "Power On Ring Tone" will be heard. The **Power indicator light** stays blue when the projector is on.

   (If necessary) Rotate the focus ring to adjust the image clearness.

**If the projector is still hot from previous activity, it will run the cooling fan for approximately 60 seconds before energizing the lamp.**

**To maintain the lamp life, once you turn the projector on, wait at least 5 minutes before turning it off.**

**To turn off the ring tone, see "Turning off the Power On/Off Ring Tone" on page 39 for details.**

4. If the projector is activated for the first time, select your OSD language following the on-screen instructions.
5. Switch all of the connected equipment on.
6. The projector will start to search for input signals. The current input signal being scanned appears in the upper left corner of the screen. If the projector doesn't detect a valid signal, the message '**No Signal**' will continue to be displayed until an input signal is found.

   You can also press **Source** to select your desired input signal. See "Switching input signal" on page 26 for details.

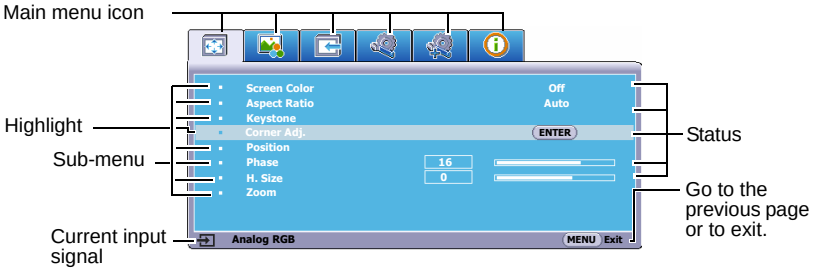
**If the frequency/resolution of the input signal exceeds the projector's operating range, you will see the message 'Out of Range' displayed on a blank screen. Please change to an input signal which is compatible with the projector's resolution or set the input signal to a lower setting. See "Timing chart" on page 59 for details.**

# Using the menus

The projector is equipped with On-Screen Display (OSD) menus for making various adjustments and settings.

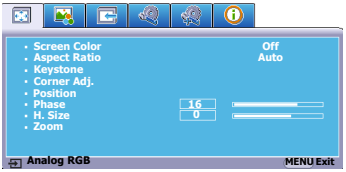
**The OSD screenshots below are for reference only, and may differ from the actual design.**

Below is the overview of the OSD menu.



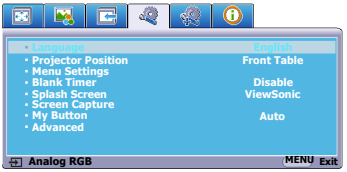

To use the OSD menus, please select your language first.

1. Press **Menu** to turn the OSD menu on.




2. Use ◀/▶ to highlight the **SYSTEM SETTING: BASIC** menu.

3. Press ▼ to highlight **Language** and press ◀/▶ to select a preferred language**.**




4. Press **Exit** twice* to leave and save the settings.

***The first press leads you back to the main menu and the second press closes the OSD menu.**

| | |
|---|---|
| : **DISPLAY** | : **SYSTEM SETTING: BASIC** |
| : **PICTURE** | : **SYSTEM SETTING: ADVANCED** |
| : **SOURCE** | : **INFORMATION** |

# Utilizing the password function

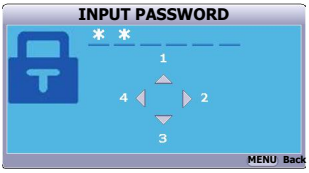
For security purposes and to help prevent unauthorized use, the projector includes an option for setting up password security. The password can be set through the On-Screen Display (OSD) menu. For details of the OSD menu operation, please refer to "Using the menus" on page 23.

**You will be inconvenienced if you enable the password function yet forget the password somehow. Do make a note of your password, and keep the note in a safe place for later recall.**

## Setting a password

**Once a password has been set and the power on lock is enabled, the projector cannot be used unless the correct password is entered every time the projector is started.**

1. Open the OSD menu and go to the **SYSTEM SETTING: ADVANCED** > **Advanced** > **Security Settings** menu.
2. Press **Enter** and the **Security Settings** page is displayed.
3. Highlight **Power On Lock** and select **On** by pressing ◀/▶.
4. As pictured to the right, the four arrow keys (◀, ▲, ▼, ▶) respectively represent 4 digits (1, 2, 3, 4). According to the password you desire to set, press the arrow keys to enter six digits for the password.

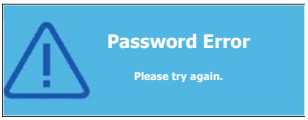



5. Confirm the new password by re-entering the new password.

   Once the password is set, the OSD menu returns to the **Security Settings** page.
6. To leave the OSD menu, press **Exit.**

## If you forget the password

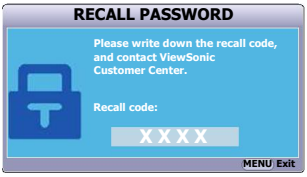
If the password function is activated, you will be asked to enter the six-digit password every time you turn on the projector. If you enter the wrong password, the password error message as pictured to the right is displayed lasting for 5 seconds, and the message **'INPUT PASSWORD'** follows. You can retry by entering another six-digit password, or if you did not record the password in this user manual, and you absolutely do not remember it, you can use the password recall procedure. See "Entering the password recall procedure" on page 25 for details.




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

# Entering the password recall procedure

1. Press and hold **Auto Sync** on the remote control 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.




**The "XXX" shown in the above screenshot are numbers that vary depending on different projector models.**

# Changing the password

1. Open the OSD menu and go to the **SYSTEM SETTING: ADVANCED** > **Advanced** > **Security Settings** > **Change Password** menu.
2. Press **Enter**. The message **'INPUT CURRENT PASSWORD'** is displayed.
3. Enter the old password.
   - If the password is correct, another message **'INPUT NEW PASSWORD'** is displayed.
   - If the password is incorrect, the password error message is displayed lasting for 5 seconds, and the message **'INPUT CURRENT PASSWORD'** is displayed for your retry. You can press **Exit** to cancel or try another password.
4. Enter a new password.
5. Confirm the new password by re-entering the new password.
6. You have successfully assigned a new password to the projector. Remember to enter the new password next time the projector is started.
7. To leave the OSD menu, press **Exit.**

**The digits being input will be displayed as asterisks on-screen. Do make a note of your password, and then keep the note in a safe place for later recall.**

# Disabling the password function

1. Open the OSD menu and go to the **SYSTEM SETTING: ADVANCED** > **Advanced** > **Security Settings > Power On Lock** menu.
2. Press ◀ / ▶ to select **Off**.
3. The message **'INPUT PASSWORD'** is displayed. Enter the current password.
   - If the password is correct, the OSD menu returns to the **Security Settings** page with **'Off'** shown in the row of **Power On Lock**. You will not have to enter the password next time you turn on the projector.
   - If the password is incorrect, the password error message is displayed lasting for 5 seconds, and the message **'INPUT PASSWORD'** is displayed for your retry. You can press **Exit** to cancel or try another password.

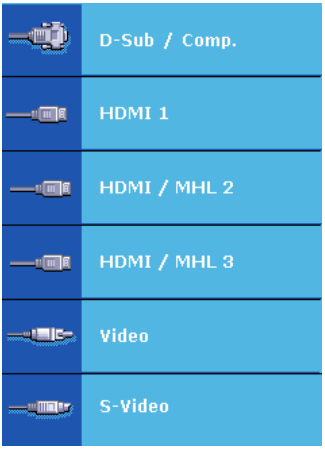
**Though the password function is disabled, you need to keep the old password in hand should you ever need to re-activate the password function by entering the old password.**

# Switching input signal

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

Be sure the **Quick Auto Search** function in the **SOURCE** menu is **On** if you want the projector to automatically search for the signals.

You can also manually select the desired signal by pressing one of the source selection keys on the remote control, or cycle through the available input signals.




1. Press **Source**. A source selection bar is displayed.
2. Press ▲/▼ until your desired signal is selected and press **Enter**.

   Once detected, the selected source information will be displayed on the screen for seconds. If there are multiple devices connected to the projector, repeat steps 1-2 to search for another signal.

**Please see "Projector specifications" on page 56 for the native display resolution of this projector. For best display picture results, you should select and use an input signal which outputs at this resolution. Any other resolutions will be scaled by the projector depending upon the 'aspect ratio' setting, which may cause some image distortion or loss of picture clarity. See "Selecting the aspect ratio" on page 30 for details.**

## Changing HDMI input settings

In the unlikely event that you connect the projector to a device (like a DVD or Blu-ray player) via the projector's **HDMI** input and the projected picture displays wrong colors, please change the color space to an appropriate one that fits the color space setting of the output device.

To do this:

1. Open the OSD menu and go to the **PICTURE** > **HDMI Settings** menu.
2. Press **Enter**.
3. Highlight **HDMI Format** and press ◀/▶ to select a suitable color space according to the color space setting of the output device connected.
   - **RGB**: Sets the color space as RGB.
   - **YUV**: Sets the color space as YUV.
   - **Auto**: Sets the projector to detect the color space setting of the input signal automatically.
4. Highlight **HDMI Range** and press ◀/▶ to select a suitable HDMI color range according to the color range setting of the output device connected.
   - **Enhanced**: Sets the HDMI color range as 0 - 255.
   - **Normal**: Sets the HDMI color range as 15 - 235.

- **Auto**: Sets the projector to detect the HDMI range of the input signal automatically.

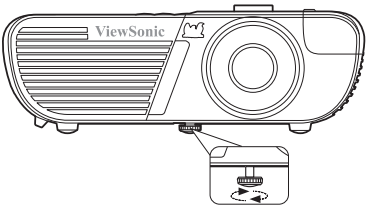
**This function is only available when the HDMI input port is in use.**

**Refer to the documentation of the device for information on the color space and HDMI range settings.**

# Adjusting the projected image

## Adjusting the projection angle

The projector is equipped with an adjuster foot. It changes the image height and vertical projection angle. Screw the adjuster foot to fine tune the angle until the image is positioned where you want it.




If the projector is not placed on a flat surface or the screen and the projector are not perpendicular to each other, the projected image becomes trapezoidal. To correct this situation, see "Correcting keystone" on page 28 for details.

**Do not look into the lens while the lamp is on. The strong light from the lamp may cause damage to your eyes.**

## Auto-adjusting the image

In some cases, you may need to optimize the picture quality. To do this, press **Auto Sync** on the remote control. Within 5 seconds, the built-in Intelligent Auto Adjustment function will re-adjust the values of Frequency and Clock to provide the best picture quality.

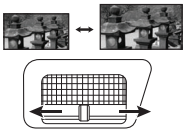
The current source information will be displayed in the upper left corner of the screen for 3 seconds.

**The screen will be blank while auto adjustment is functioning.**

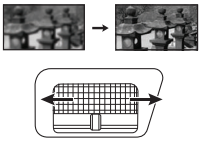
**This function is only available when PC D-Sub input signal (analog RGB) is selected.**

# Fine-tuning the image clarity

1. Adjust the projected image to the size that you need using the zoom ring.



2. If necessary, sharpen the image by rotating the focus ring.



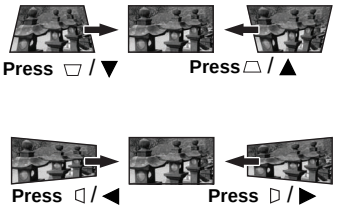
# Correcting keystone

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 will need to manually correct it following one of these steps.

- Using the remote control

1. Press ▱ / ▽ / ▷ / ◁ to display the Keystone correction page.
2. Press ▱ to correct keystoning at the top of the image. Press ▽ to correct keystoning at the bottom of the image. Press ▷ to correct keystoning at the right side of the image. Press ◁ to correct keystoning at the left side of the image.



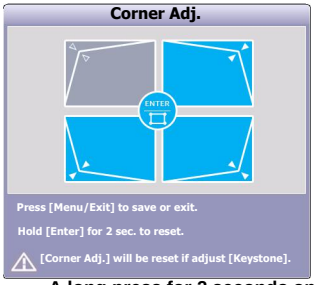

- Using the OSD menu

1. Open the OSD menu and go to the **DISPLAY > Keystone** menu.
2. Press **Enter**. The **Keystone** correction page is displayed.
3. Highlight **Vertical** and press ▱ to correct keystoning at the top of the image or press ▽ to correct keystoning at the bottom of the image.
4. You can also highlight **Horizontal** and press ▷ to correct keystoning at the right side of the image. Press ◁ to correct keystoning at the left side of the image.

# Adjusting 4 corners

You can manually adjusts the shape and size of an image that is unevenly rectangular on all sides.

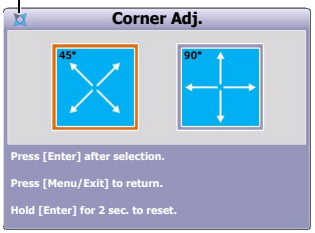
1. To display the **Corner Adj.** page, you can do one of the followings:
   i. Press **Enter**.
   ii. Open the OSD menu and go to the **DISPLAY > Corner Adj.** menu and press **Enter**. The **Corner Adj.** page is displayed.
2. Press ◀ / ▲ / ▼ / ▶ to select the corner you wish to adjust and press **Enter**.




**A long press for 2 seconds on Enter when this page displays will reset the settings on all 4 corners.**

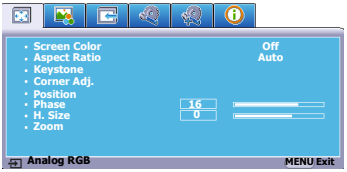
3. Press ◀ / ▶ to select an adjustment method that suits your need and press **Enter**.
4. As indicated on the screen ( ▲ / ▼ for a 45-degree angle adjustment and ◀ / ▲ / ▼ / ▶ for a 90-degree angle adjustment), press ◀ / ▲ / ▼ / ▶ to adjust its shape and size. You can press **Menu** or **Exit** to go back to a previous step. A long press for 2 seconds on **Enter** will reset the settings on the corner that you chose.

**Indicates the corner that you selected.**




**Adjusting keystone will reset the Corner Adj. settings.**

**After the Corner Adj. settings have been modified, some aspect ratios or timings are not available. When that happens, reset the settings on all 4 corners.**
**The following messages will appear:**




# Magnifying and searching for details

If you need to find the details on the projected picture, magnify the picture. Use the direction arrow keys for navigating the picture.

- Using the remote control

1. Press ⊕ on the remote control to display the Zoom bar.
2. Press ▲ repeatedly to magnify the picture to a desired size.
3. To navigate the picture, press **Enter** to switch to the paning mode and press the directional arrows ( ◀ , ▲ , ▼ , ▶ ) to navigate the picture.

4. To reduce size of the picture, press **Enter** to switch back to the zoom in/out functionality, and press ▼ repeatedly until it is restored to the original size. You can also press **Auto Sync** on the remote control to restore the picture to its original size.

- Using the OSD menu

1. Open the OSD menu and go to the **DISPLAY > Zoom** menu.
2. Press **Enter**. The Zoom bar is displayed.
3. Repeat steps 2-4 in the section of Using the remote control above.

**The picture can only be navigated after it is magnified. You can further magnify the picture while searching for details.**

# Selecting the aspect ratio

The 'aspect ratio' is the ratio of the image width to the image height. Most analog TV and computers are in 4:3 ratio, and digital TV and DVDs are usually in 16:9 ratio.

With the advent of digital signal processing, digital display devices like this projector can dynamically stretch and scale the image output to a different aspect than that of the image input signal.

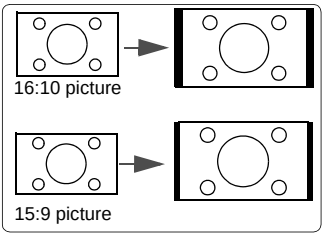
To change the projected image ratio (no matter what aspect the source is):

1. Open the OSD menu and go to the **DISPLAY > Aspect Ratio** menu.
2. Press ◀ /▶ to select an aspect ratio to suit the format of the video signal and your display requirements.

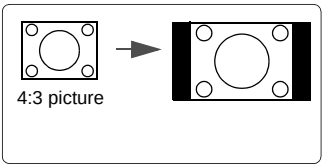
## About the aspect ratio

**In the pictures below, the black portions are inactive areas and the white portions are active areas. OSD menus can be displayed on those unused black areas.**

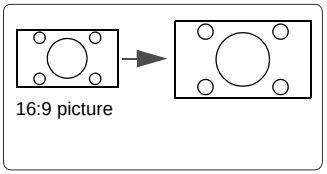
1. **Auto**: Scales an image proportionally to fit the projector's native resolution in its horizontal width. This is suitable for the incoming image which is neither in 4:3 nor 16:9 and you want to make most use of the screen without altering the image's aspect ratio.



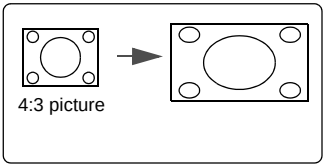

2. **4:3**: Scales an image so that it is displayed in the center of the screen with a 4:3 aspect ratio. This is most suitable for 4:3 images like computer monitors, standard definition TV and 4:3 aspect DVD movies, as it displays them without aspect alteration.



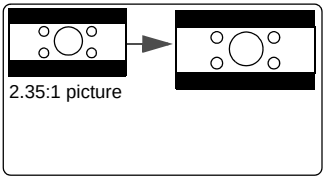

3. **16:9**: Scales an image so that it is displayed in the center of the screen with a 16:9 aspect ratio. This is most suitable for images which are already in a 16:9 aspect, like high definition TV, as it displays them without aspect alteration.



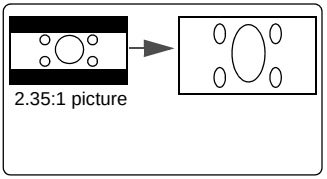
4. **Panorama**: Scales a 4:3 image vertically and horizontally in a non-linear manner so that it fills the screen.




5. **2.35:1**: Scales an image so that it is displayed in the center of the screen with a 2.35:1 aspect ratio without aspect alteration.




6. **Anamorphic**: Scales a 2.35:1 aspect image so that it fills the screen.




# Optimizing the image

## Selecting a picture mode

The projector is preset with several predefined picture modes so that you can choose one to suit your operating environment and input signal picture type.

To select an operation mode that suits your need, you can follow one of the following steps.

- Press **Color Mode** repeatedly until your desired mode is selected.
- Go to the **PICTURE > Color Mode** menu and press ◀ /▶ to select a desired mode.

### Picture modes for different types of signals

The picture modes available for different types of signals are listed below.

1. **Brightest mode**: 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.
2. **Dynamic mode**: Is designed for presentations under daylight environment to match PC and notebook coloring. In addition, the projector will optimize the image quality using the dynamic PC function in accordance with the projected contents.
3. **Standard mode**: Is designed for presentations under daylight environment to match PC and notebook coloring.
4. **ViewMatch sRGB mode**: Switches between high brightness performance and accurate color performance.
5. **Movie mode**: Is appropriate for playing colorful movies, video clips from digital cameras or DVs through the PC input for best viewing in a blackened (little light) environment.
6. **ISF Day/ISF Night mode**: Only available when **ISF Mode** is **On**.

☞ **Selectable lamp modes may vary depending on the Color Mode selected.**

# Using Screen Color

In the situation where you are projecting onto a colored surface such as a painted wall which may not be white, the **Screen Color** feature can help correct the projected picture's colors to prevent possible color difference between the source and projected pictures.

To use this function, go to the **DISPLAY** > **Screen Color** menu and press ◀ / ▶ to select a color which is closest to the color of the projection surface. There are several precalibrated colors to choose from: **Whiteboard**, **Greenboard**, and **Blackboard**. The effects of these settings may vary depending on different models.

☞ **This function is only available when a PC or HDMI input signal is selected.**

# Fine-tuning the image quality in user modes

According to the detected signal type, there are some user-definable functions available. You can make adjustments to these functions based on your needs.

## Adjusting Brightness

Go to the **PICTURE** > **Brightness** menu and press ◀ / ▶.

The higher the value, the brighter the image. And the lower the setting, the darker the image. Adjust this control so the black areas of the image appear just as black and that detail in the dark areas is visible.

## Adjusting Contrast

Go to the **PICTURE** > **Contrast** menu and press ◀ / ▶.

The higher the value, the greater the contrast. Use this to set the peak white level after you have previously adjusted the **Brightness** setting to suit your selected input and viewing environment.

## Adjusting Color

Go to the **PICTURE** > **Advanced** > **Color** menu and press ◀ / ▶.

Lower setting produces less saturated colors. If the setting is too high, colors on the image will be overpowering, which makes the image unrealistic.

☞ **This function is only available when the input signal is S-Video, Video, YPbPr (digital) or YCbCr (digital).**

## Adjusting Tint

Go to the **PICTURE** > **Advanced** > **Tint** menu and press ◀ / ▶.

The higher the value, the more reddish the picture becomes. The lower the value, the more greenish the picture becomes.

☞ **This function is only available when the input signal is S-Video, Video, YPbPr (digital) or YCbCr (digital).**

## Adjusting Sharpness

Go to the **PICTURE** > **Advanced** > **Sharpness** menu and press ◀ / ▶.

The higher the value, the sharper the picture becomes. The lower the value, the softer the picture becomes.

☞ **This function is only available when the input signal is S-Video, Video, YPbPr (digital) or YCbCr (digital).**

### Adjusting Brilliant Color

Go to the **PICTURE** > **Advanced** > **Brilliant Color** menu and press ◀/▶.

This feature utilizes a new color-processing algorithm and system level enhancements to enable higher brightness while providing truer, more vibrant colors in the projected picture. It enables a greater than 50% brightness increase in mid-tone images, which are common in video and natural scenes, so the projector reproduces images in realistic and true colors. If you prefer images with that quality, select a level that suits your need. If you don't need it, select **Off**.

### Reducing image noise

Go to the **PICTURE** > **Advanced** > **Noise Reduction** menu and press ◀/▶.

This function reduces electrical image noise caused by different media players. The higher the setting, the less the noise.

☞ **This function is only available when a PC, Video or S-Video input signal is selected.**

### Selecting a gamma setting

Go to the **PICTURE** > **Advanced** > **Gamma** menu and select a preferred setting by pressing ◀/▶.

Gamma refers to the relationship between input source and picture brightness.

### Selecting a Color Temperature

Go to the **PICTURE** > **Color Temp.** menu and press ◀/▶.

The options available for color temperature settings vary according to the signal type selected.

1. **Cool:** With the highest color temperature, **Cool** makes the image appear the most bluish white than other settings.
2. **Neutral:** Makes images appear bluish white.
3. **Normal:** Maintains normal colorings for white.
4. **Warm:** Makes images appear reddish white.

### Setting a preferred color temperature

1. Go to the **PICTURE** > **Color Temp.** menu.
2. Press ◀/▶ to select **Cool**, **Neutral**, **Normal** or **Warm** and press **Enter**.
3. Press ▲/▼ to highlight the item you want to change and adjust the values by pressing ◀/▶.
   - **Red Gain**/**Green Gain**/**Blue Gain**: Adjusts the contrast levels of Red, Green, and Blue.
   - **Red Offset**/**Green Offset**/**Blue Offset**: Adjusts the brightness levels of Red, Green, and Blue.

☞ **This function is only available when a PC input signal is selected.**

### Color Management

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, should you require it.

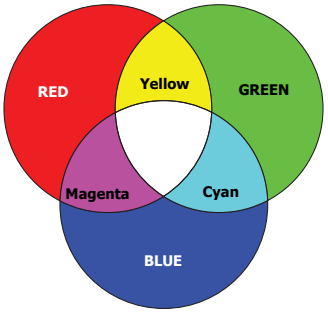
If you have purchased a test disc which contains various color test patterns and can be used to test the color presentation on monitors, TVs, projectors, etc., you can project any image from the disc on the screen and enter the **Color Management** menu to make adjustments.

**To adjust the settings:**

1. Open the OSD menu and go to the **PICTURE** > **Advanced** > **Color Management** menu.
2. Press **Enter** and the **Color Management** page is displayed.
3. Highlight **Primary Color** and press ◀/▶ to select a color from among Red, Yellow, Green, Cyan, Blue, or Magenta.
4. Press ▼ to highlight **Hue** and press ◀/▶ to select its range. Increase in the range will include colors consisted of more proportions of its two adjacent colors.

   Please refer to the illustration to the right for how the colors relate to each other.

   For example, if you select Red and set its range at 0, only pure red in the projected picture will be selected. Increasing its range will include red close to yellow and red close to magenta.




5. Press ▼ to highlight **Saturation** and adjust its values to your preference by pressing ◀/▶. Every adjustment made will reflect to the image immediately.

   For example, if you select Red and set its value at 0, only the saturation of pure red will be affected.

☞ **Saturation is the amount of that color in a video picture. Lower settings produce less saturated colors; a setting of "0" removes that color from the image entirely. If the saturation is too high, that color will be overpowering and unrealistic.**

6. Press ▼ to highlight **Gain** and adjust its values to your preference by pressing ◀/▶. The contrast level of the primary color you select will be affected. Every adjustment made will reflect to the image immediately.
7. Repeat steps 3 to 6 for other color adjustments.
8. Make sure you have made all of the desired adjustments.
9. Press **Exit** to exit and save the settings.

# Setting the presentation timer

Presentation timer can indicate the presentation time on the screen to help you achieve better time management when giving presentations. Follow these steps to utilize this function:

1. Press ⏲ on the remote control to access the **Presentation Timer** menu or go to the **SYSTEM SETTING: BASIC** > **Advanced** > **Presentation Timer** menu.
2. Press **Enter** to display the **Presentation Timer** page.
3. Highlight **Timer Period** and decide the time period by pressing ◀/▶. The length of time can be set from 1 to 5 minutes in 1-minute increments and 5 to 240 minutes in 5-minute increments.

☞ **If the timer is already on, the timer will restart whenever the Timer Period is reset.**

4. Press ▼ to highlight **Timer Display** and choose if you want the timer to show up on the screen by pressing ◀/▶.

| Selection | Description |
|---|---|
| Always | Displays the timer on screen throughout the presentation time. |
| 1 min/2 min/3 min | Displays the timer on screen in the last 1/2/3 minute(s). |
| Never | Hides the timer throughout the presentation time. |

5. Press ▼ to highlight **Timer Position** and set the timer position by pressing ◀/▶.

**Top-Left → Bottom-Left → Top-Right → Bottom-Right**

6. Press ▼ to highlight **Timer Counting Direction** and select your desired counting direction by pressing ◀/▶.

| Selection | Description |
|---|---|
| **Count Up** | Increases from 0 to the preset time. |
| **Count Down** | Decreases from the preset time to 0. |

7. Press ▼ to highlight **Sound Reminder** and decide if you want to activate sound reminder by pressing ◀/▶. If you select **On**, 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.
8. To activate the presentation timer, press ▼ and press ◀/▶ to highlight **Start Counting** and press **Enter**.
9. A confirmation message displays. Highlight **Yes** and press **Enter** to confirm. You will see the message "**Timer is On**" displaying on the screen. The timer starts counting when the timer is on.

### To cancel the timer, perform the following steps:

1. Go to the **SYSTEM SETTING: BASIC** > **Advanced** > **Presentation Timer** menu.
2. Highlight **Off**. Press **Enter**. A confirmation message displays.
3. Highlight **Yes** and press **Enter** to confirm. You will see the message "**Timer is Off**" displaying on the screen.

# Hiding the image

In order to draw the audience's full attention to the presenter, you can press **BLANK** to hide the screen image. Press any key on the projector or remote control to restore the image. The word '**BLANK**' appears at the lower right corner of the screen while the image is hidden.

You can set the blank time in the **SYSTEM SETTING: BASIC > Blank Timer** menu to let the projector return the image automatically after a period of time when there is no action taken on the blank screen.

**Once Blank is pressed, the projector enters Eco mode automatically.**

**CAUTION**

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

# Locking control keys

With the control keys on the projector locked, you can prevent your projector settings from being changed accidentally (by children, for example). When the **Panel Key Lock** is on, no control keys on the projector will operate except **Power**.

1. Press (**Panel Key Lock**), or go to the **SYSTEM SETTING: ADVANCED > Advanced > Panel Key Lock** menu
2. Press ◀ / ▶ to select **On.**
3. A confirmation message is displayed. Select **Yes** to confirm.

To release panel key lock, press and hold on the projector for 3 seconds.

You can also use the remote control to enter the **SYSTEM SETTING: ADVANCED > Advanced > Panel Key Lock** menu and press ◀ / ▶ to select **Off**.

**Keys on the remote control are still functional when panel key lock is enabled.**

**If you press Power to turn off the projector without disabling panel key lock, the projector will still be in locked status the next time it is turned on.**

# Creating your own startup screen

In addition to selecting the projector preset startup screen from among **Black**, **Blue**, or **ViewSonic** screen, you can make your own startup screen that is a picture projected from your computer or video source.

To create your own startup screen:

1. Project the picture you want to use as your startup screen from either a computer or video source.
2. Open the OSD menu and go to the **SYSTEM SETTING: BASIC** > **Screen Capture** menu.
3. Press **Enter.**
4. A confirmation message displays. Press **Enter** again.
5. The message 'Screen Capturing...' displays while the projector is processing the picture. Please wait.
6. If the action is successful, you see the message 'Captured Succeeded' on the screen. The captured picture is saved as **Screen Capture** and have been set as your current startup screen.

In the unlikely event that the capturing action fails, change your target picture. When the resolution of the input signal is higher than the projector's native display resolution (See "Projector specifications" on page 56 for details.), the capture action may fail. When it happens, please set the resolution of the input signal under native resolution and try again.

# Operating in a high altitude environment

We recommend you use the **High Altitude Mode** when your environment is between 1500 m–3000 m above sea level, and temperature is between 5°C–25°C.

**CAUTION**

**Do not use the High Altitude Mode if your altitude is between 0 m and 1500 m and temperature is between 5°C and 35°C. The projector will be over cooled, if you turn the mode on under such a condition.**

To activate the **High Altitude Mode**:

1. Open the OSD menu and go to the **SYSTEM SETTING: ADVANCED** > **High Altitude Mode** menu.
2. Press ◀ / ▶ to select **On**. A confirmation message is displayed.
3. Highlight **Yes** and press **Enter**.

Operation under "**High Altitude Mode**" may cause a higher decibel operating noise level because of increased fan speed necessary to improve overall system cooling and performance.

If you use this projector under other extreme conditions excluding the above, it may display auto shut-down symptoms, which is designed to protect your projector from over-heating. In cases like this, you should switch to **High Altitude Mode** to solve these symptoms. However, this is not to state that this projector can operate under any and all harsh or extreme conditions.

# Using the CEC function

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.

To turn on the CEC function:

1. Open the OSD menu and go to the **SOURCE** > **Auto Power On** > **CEC** menu.
2. Press ◀ / ▶ to select **Enable**.

**In order for the CEC function to work properly, make sure that the device is correctly connected to the HDMI input of the projector via an HDMI cable, and its CEC function is turned on.**

**Depending on the connected device, the CEC function may not work.**

# Using the 3D functions

This projector features 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.

If the 3D signal is input from an HDMI 1.4a compatible device, the projector detects the signal for **3D Sync** information and once detected, it projects images in 3D format automatically. In other cases, you may need to manually select a **3D Sync** format for the projector to project 3D images correctly.

To select a **3D Sync** format:

1. Press **3D** on the remote control to access the **3D Settings** menu or go to the **SOURCE** > **3D Settings** menu.
2. Press **Enter**. The **3D Settings** page is displayed.
3. Highlight **3D Sync** and press **Enter**.
4. Press ▼ to select a **3D Sync** setting and then press **Enter** to confirm.

☞ **When the 3D Sync function is on:**

- **The brightness level of the projected image will decrease.**
- **The Color Mode cannot be adjusted.**
- **The Zoom function can only magnify the pictures to limited sizes.**

**If you discover the inversion of the 3D image depth, set the 3D Sync Invert function to "Invert" to correct the problem.**

# Using the projector in standby mode

Some of the projector functions are available in standby mode (plugged in but not turned on). To use these functions, be sure you have turned on the corresponding menus under **SOURCE** > **Standby Settings**, and the cable connections are correctly made. For the connection methods, see the Connection chapter.

**Active VGA Out**

Selecting **On** outputs a VGA signal when the **COMPUTER IN** and **COMPUTER OUT** sockets are correctly connected to devices. The projector outputs the signal received only from **COMPUTER IN**.

**Active Audio Out**

Selecting **On** outputs an audio signal when the **AUDIO IN 1** socket is correctly connected to a proper device.

# Adjusting the sound

The sound adjustments made as below will have an effect on the projector speaker. Be sure you have made a correct connection to the projector audio input/output jacks. See "Connection" on page 16 for more details.

## Adjusting the audio mode

1. Open the OSD menu and go to the **SYSTEM SETTING: ADVANCED** > **Audio Settings** > **Audio Mode** menu.
2. Press ◀ / ▶ to select a preferred audio mode.

☞ **If available, you can press Audio Mode on the remote control to select a preferred audio mode.**

## Muting the sound

1. Open the OSD menu and go to the **SYSTEM SETTING: ADVANCED** > **Audio Settings** > **Mute** menu.
2. Press ◀ / ▶ to select **On**.

☞ **If available, you can press on the remote control to toggle the projector audio between on and off.**

## Adjusting the sound level

1. Open the OSD menu and go to the **SYSTEM SETTING: ADVANCED** > **Audio Settings** > **Audio Volume** menu.
2. Press ◀ /▶ to select a desired sound level.

**If available, you can press 🔊 on the remote control to adjust the projector's sound level.**

## Adjusting the Audio In 2 setting

1. Open the OSD menu and go to the **SYSTEM SETTING: ADVANCED** > **Audio Settings** > **Audio In 2** menu.
2. Press ◀ /▶ to decide the audio input source for the **AUDIO IN 2**/**MIC** port. This will affect the connection method for different devices, and where the sound is from.

   - When **Audio** is selected:

| Device | COMPUTER IN | Video/S-Video |
|---|---|---|
| Audio input port | AUDIO IN 1 | AUDIO IN 2 |
| The projector can play the sound from... | AUDIO IN 1 | AUDIO IN 2 |
| Audio output port | AUDIO OUT | AUDIO OUT |

**The selected input signal determines which sound will be played by the projector speaker, and which sound will be output from the projector when AUDIO OUT is connected. For instance, if you select a D-Sub / Comp. 1 source, the projector can play the sound received from AUDIO IN 1.**

   - When **Microphone** is selected:

| Device | COMPUTER IN | Video/S-Video |
|---|---|---|
| Audio input port | AUDIO IN 1 | AUDIO IN 1 |
| The projector can play the sound from... | • AUDIO IN 1<br>• MIC | • AUDIO IN 1<br>• MIC |
| Audio output port | AUDIO OUT | AUDIO OUT |

## Adjusting the microphone sound level

1. Open the OSD menu and go to the **SYSTEM SETTING: ADVANCED** > **Audio Settings** > **Microphone Volume** menu.
2. Press ◀ /▶ to select a desired sound level.

**This function is only available when the SYSTEM SETTING: ADVANCED > Audio Settings > Audio In 2 menu is set to Microphone.**

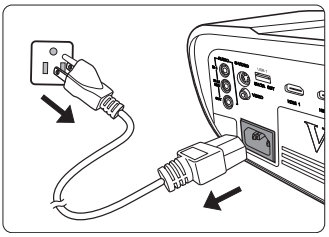
## Turning off the Power On/Off Ring Tone

1. Open the OSD menu and go to the **SYSTEM SETTING: ADVANCED** > **Audio Settings** > **Power On/Off Ring Tone** menu.
2. Press ◀ /▶ to select **Off**.

**The only way to change Power On/Off Ring Tone is setting On or Off here. Setting the sound mute or changing the sound level will not affect the Power On/Off Ring Tone.**

# Shutting down the projector

1. Press **Power** and a confirmation message is displayed prompting you.
   If you don't respond in a few seconds, the message will disappear.
2. Press **Power** a second time.
3. Once the cooling process finishes, a "Power Off Ring Tone" will be heard. Disconnect the power cord from the wall socket if the projector will not be used in an extended period of time.



**To turn off the ring tone, see "Turning off the Power On/Off Ring Tone" on page 39 for details.**

**CAUTION**

- **To protect the lamp, the projector will not respond to any commands during the cooling process.**
- **To shorten the cooling time, you can also activate the Quick Power Off function. See "Quick Power Off" on page 46 for details.**
- **Do not unplug the power cord before the projector shutdown sequence is complete.**

# Menu operation

## Menu system

Please note that the on-screen display (OSD) menus vary according to the signal type selected.

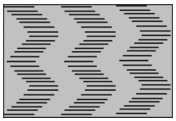
The menu items are available when the projector detects at least one valid signal. If there is no equipment connected to the projector or no signal detected, limited menu items are accessible.

| Main menu | Sub-menu | | Options |
|---|---|---|---|
| 1. DISPLAY | Screen Color | | Off/Blackboard/Greenboard/Whiteboard |
| | Aspect Ratio | | Auto/4:3/16:9/Panorama/2.35:1/ Anamorphic |
| | Keystone | | |
| | Corner Adj. | | |
| | Position | | |
| | Phase | | |
| | H. Size | | |
| | Zoom | | |
| 2. PICTURE | Color Mode | | Brightest/Dynamic/Standard/ViewMatch sRGB/Movie/ ISF Day/ISF Night |
| | Brightness | | |
| | Contrast | | |
| | Color Temp. | Warm | Red Gain/Green Gain/ Blue Gain/Red Offset/ Green Offset/Blue Offset |
| | | Normal | |
| | | Neutral | |
| | | Cool | |
| | OverScan | | Off/1/2/3/4/5 |
| | HDMI Settings | HDMI Format | Auto/RGB/YUV |
| | | HDMI Range | Auto/Enhanced/Normal |
| | Advanced | Color | |
| | | Tint | |
| | | Sharpness | |
| | | Gamma | 1/2/3/4/5/6/7/8 |
| | | Brilliant Color | Off/1/2/3/4/5/6/7/8/9/10 |
| | | Noise Reduction | |
| | | Color Management | Primary Color |
| | | | Hue |
| | | | Saturation |
| | | | Gain |
| | Reset Color Settings | | Reset/Cancel |
| | ISF Mode | | (input password) |

| Main menu | Sub-menu | | Options |
|---|---|---|---|
| 3. SOURCE | Quick Auto Search | | Off/On |
| | 3D Settings | 3D Sync | Auto/Off/Frame Sequential/ Frame Packing/Top-Bottom/ Side-by-Side |
| | | 3D Sync Invert | Disable/Invert |
| | Standby Settings | Active VGA Out | Off/On |
| | | Active Audio Out | Off/On |
| | Auto Power On | Computer | Disable/Enable |
| | | CEC | Disable/Enable |
| | | Direct Power On | Off/On |
| | Smart Energy | Auto Power Off | Disable/10 min/20 min/30 min |
| | | Sleep Timer | Disable/30 min/1 hr /2 hr/3 hr/ 4 hr/8 hr/12 hr |
| | | Power Saving | Enable/Disable |
| | Smart Restart | | Disable/Enable |
| | Quick Power Off | | Disable/Enable |
| | Lamp SPA Mode | | Disable/Enable |
| | MHL Settings | Power Out | HDMI/MHL 2/HDMI/MHL 3/ USB 1/USB 2 |
| | | MHL Reset | Reset/Cancel |
| 4. SYSTEM SETTING: BASIC | 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 |
| | Blank Timer | | Disable/5 min/10 min/15 min/ 20 min/25 min/30 min |
| | Splash Screen | | Black/Blue/ViewSonic/ Screen Capture/Off |
| | Screen Capture | | |
| | My Button | Auto/Projection (Projector Position)/Menu Position/Color Temp./Brightness/Contrast/3D Settings/Screen Color/Splash Screen/Message/ Quick Auto Search/CEC/DCR/Closed Caption/ Power Saving/Freeze/INFORMATION/Aspect Ratio/ Power Out | |

| Main menu | Sub-menu | | Options |
|---|---|---|---|
| 4. SYSTEM SETTING: BASIC | Advanced | Pattern | Off/Test Card |
| | | Message | On/Off |
| | | Presentation Timer | Timer Period |
| | | | Timer Display |
| | | | Timer Position |
| | | | Timer Counting Direction |
| | | | Sound Reminder |
| | | | Start Counting/Off |
| 5. SYSTEM SETTING: ADVANCED | High Altitude Mode | | On/Off |
| | DCR | | On/Off |
| | Audio Settings | Audio Mode | Standard/Speech/ Entertainment |
| | | Mute | On/Off |
| | | Audio Volume | |
| | | Audio In 2 | Audio/Microphone |
| | | Microphone Volume | |
| | | Power On/Off Ring Tone | On/Off |
| | Closed Caption | Closed Caption Enable | On/Off |
| | | Caption Version | CC1/CC2/CC3/CC4 |
| | Lamp Settings | Lamp Mode | Normal/Eco/Dynamic/ SuperEco |
| | | Reset Lamp Hours | |
| | | Lamp Hours | |
| | Filter Settings | Filter Mode | On/Off |
| | | Reset Filter Hours | |
| | | Filter Hours | |
| | Remote Control Code | | 1/2/3/4/5/6/7/8 |
| | Advanced | Security Settings | Change Password |
| | | | Power On Lock |
| | | Panel Key Lock | Off/On |
| | Reset Settings | | Reset/Cancel |
| 6. INFORMATION | Current System Status | | • Source<br>• Color Mode<br>• Resolution<br>• Color System<br>• Firmware Version |

# Description of each menu

| | Function | Description |
|---|---|---|
| 1. DISPLAY menu | **Screen Color** | See "Using Screen Color" on page 32 for details.<br>☞ **This function is only available when a PC input signal is selected.** |
| | **Aspect Ratio** | See "Selecting the aspect ratio" on page 30 for details. |
| | **Keystone** | See "Correcting keystone" on page 28 for details. |
| | **Corner Adj.** | See "Adjusting 4 corners" on page 29 for details. |
| | **Position** | Displays the position adjustment page. To move the projected image, use the directional arrow keys. The values shown on the lower position of the page change with every key press you made until they reach their maximum or minimum.<br>☞ **This function is only available when a PC input signal is selected.**<br>☞ **The adjustment range may vary under different timings.** |
| | **Phase** | Adjusts the clock phase to reduce image distortion.<br>  <br>☞ **This function is only available when a PC input signal is selected.** |
| | **H. Size** | Adjusts the horizontal width of the image.<br>☞ **This function is only available when a PC input signal is selected.** |
| | **Zoom** | See "Magnifying and searching for details" on page 29 for details. |
| 2. PICTURE menu | **Color Mode** | See "Selecting a picture mode" on page 31 for details. |
| | **Brightness** | See "Adjusting Brightness" on page 32 for details. |
| | **Contrast** | See "Adjusting Contrast" on page 32 for details. |
| | **Color Temp.** | See "Selecting a Color Temperature" on page 33 and "Setting a preferred color temperature" on page 33 for details. |
| | **OverScan** | Adjusts the overscan rate from 0% to 5%.<br>☞ **This function is only available when a Composite Video, S-Video or HDMI input signal is selected.** |
| | **HDMI Settings** | See "Changing HDMI input settings" on page 26 for details. |

| Function | | Description |
|---|---|---|
| 2. PICTURE menu | Advanced | **Color**<br>See "Adjusting Color" on page 32 for details.<br>**Tint**<br>See "Adjusting Tint" on page 32 for details.<br>**The function is only available when Video or S-Video input with NTSC system is selected.**<br>**Sharpness**<br>See "Adjusting Sharpness" on page 32 for details.<br>**Gamma**<br>See "Selecting a gamma setting" on page 33 for details.<br>**Brilliant Color**<br>See "Adjusting Brilliant Color" on page 33 for details.<br>**Noise Reduction**<br>See "Reducing image noise" on page 33 for details.<br>**Color Management**<br>See "Color Management" on page 33 for details. |
| | Reset Color Settings | Returns all color settings to the factory preset values. |
| | ISF Mode | The ISF calibration menu is password protected and only accessible by authorized ISF calibrators. The ISF (Imaging Science Foundation) has developed carefully crafted, industry-recognized standards for optimal video performance and has implemented a training program for technicians and installers to use these standards to obtain optimal picture quality from ISF certified display devices. Accordingly, we recommend that setup and calibration be performed by an ISF certified installation technician.<br>**The default password is: ▲, ▼, ▲, ▼, ◄, ►.**<br>**For more information, go to www.imagingscience.com or contact the dealer or retailer from whom you purchased the projector.** |
| 3. SOURCE menu | Quick Auto Search | See "Switching input signal" on page 26 for details. |
| | 3D Settings | See "Using the 3D functions" on page 37 for details. |
| | Standby Settings | See "Using the projector in standby mode" on page 38 for details. |

| Function | | Description |
|---|---|---|
| 3. SOURCE menu | Auto Power On | **Computer**<br>Selecting **Enable** allows the projector to turn on automatically once the VGA signal is fed through the VGA cable.<br>**CEC**<br>See "Using the CEC function" on page 37 for details.<br>**Direct Power On**<br>Selecting **On** allows the projector to turn on automatically once the power is fed through the power cord. |
| | Smart Energy | **Auto Power Off**<br>See "Setting Auto Power Off" on page 52 for details.<br>**Sleep Timer**<br>See "Setting Sleep Timer" on page 52 for details.<br>**Power Saving**<br>See "Setting Power Saving" on page 52 for details. |
| | Smart Restart | Selecting **Enable** enables you to restart the projector immediately within 120 seconds after turning it off. After 120 seconds, if the projector is not turned on again, it will directly enter the standby mode.<br>**It takes some time to initiate this function. Make sure the projector has been turned on for more than 4 minutes. If the projector is resumed by using the Smart Restart feature, this function can be executed immediately.**<br>**When Enable is selected, the Quick Power Off function will be automatically set to "Enable".** |
| | Quick Power Off | Selecting **Enable** enables the function and the projector will not enter the cooling process after being shut down. Selecting **Disable** disables the function and the projector will enter normal cooling process after being shut down.<br>**If you attempt to restart the projector right after it's been turned off, it may not be turned on successfully and will rerun its cooling procedure.**<br>**When Disable is selected, the Smart Restart function will be automatically turned off.** |
| | Lamp SPA Mode | Selecting **Enable** sets the projector's cooling time after being shut down to 180 seconds. If **Disable** is selected, the cooling procedure will depend on the **Smart Restart** and **Quick Power Off** settings.<br>**When Enable is selected, the Smart Restart and Quick Power Off functions will be automatically turned off.** |
| | MHL Settings | **Power Out**<br>Sets the MHL power output port. If the MHL/HDMI input can't be detected. Reset **Power Out**.<br>**MHL Reset**<br>Selecting **Reset** to reapply power after a power outage. |

| | Function | Description |
|---|---|---|
| 4. SYSTEM SETTING: BASIC menu | **Language** | Sets the language for the On-Screen Display (OSD) menus. See "Using the menus" on page 23 for details. |
| | **Projector Position** | See "Choosing a location" on page 12 for details. |
| | **Menu Settings** | **Menu Display Time**<br>Sets the length of time the OSD will remain active after your last key press. The range is from 5 to 30 seconds in 5-second increments.<br>**Menu Position**<br>Sets the On-Screen Display (OSD) menu position. |
| | **Blank Timer** | See "Hiding the image" on page 36 for details. |
| | **Splash Screen** | Allows you to select which logo screen will be displayed during projector start-up. |
| | **Screen Capture** | See "Creating your own startup screen" on page 36 for details. |
| | **My Button** | Sets a hotkey on remote control. |
| | **Advanced** | **Pattern**<br>The projector can display several test patterns. It helps you adjust the image size and focus and check that the projected image is free from distortion.<br>**Message**<br>Selecting **On** displays the current information on the screen when the projector is detecting or searching for a signal.<br>**Presentation Timer**<br>See "Setting the presentation timer" on page 35 for details. |
| 5. SYSTEM SETTING: ADVANCED menu | **High Altitude Mode** | A mode for operation in high altitude areas. See "Creating your own startup screen" on page 36 for details. |
| | **DCR** | Enables or disables the DCR (Dynamic Contrast Ratio) function. Selecting **On** enables the function and the projector will automatically switch the lamp mode between normal and economic modes according to the input image detected.<br>**This function is only available when a PC input signal is selected.**<br>**After enabling DCR, frequent lamp mode switching may shorten lamp life and noise level will vary during operation.** |
| | **Audio Settings** | See "Adjusting the sound" on page 38 for details. |

| | Function | Description |
|---|---|---|
| 5. SYSTEM SETTING: ADVANCED menu | Closed Caption | **Closed Caption Enable**<br>Activates the function by selecting **On** when the selected input signal carries closed captions.<br>• 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).<br>☞ **This function is only available when a Composite video or S-Video input signal is selected and its system format is NTSC.**<br>**Caption Version**<br>Selects a preferred closed captioning mode. To view captions, select CC1, CC2, CC3, or CC4 (CC1 displays captions in the primary language in your area). |
| | Lamp Settings | **Lamp Mode**<br>See "Setting Lamp Mode as Eco" on page 52 for details.<br>**Reset Lamp Hours**<br>Resets the lamp timer after new lamp is installed. For changing the lamp, please contact qualified service personnel.<br>**Lamp Hours**<br>See "Getting to know the lamp hour" on page 52 for details on how the total lamp hour is calculated. |
| | Filter Settings | See "Using the dust filter (optional accessory)" on page 50 for details. |
| 5. SYSTEM SETTING: ADVANCED menu | Remote Control Code | See "Remote control code" on page 9 for details. |
| | Advanced | **Security Settings**<br>See "Utilizing the password function" on page 24 for details.<br>**Panel Key Lock**<br>See "Locking control keys" on page 36 for details. |
| | Reset Settings | Returns all settings to the factory preset values.<br>☞ **The following settings will still remain: Keystone, OverScan, Language, Projector Position, High Altitude Mode, Security Settings, Remote Control Code, Corner Adj., 3D Settings, ISF Mode.** |

| Function | | Description |
|---|---|---|
| 6. INFORMATION menu | Current System Status | **Source**<br>Shows the current signal source.<br>**Color Mode**<br>Shows the selected mode in the **PICTURE** menu.<br>**Resolution**<br>Shows the native resolution of the input signal.<br>**Color System**<br>Shows input system format.<br>**Firmware Version**<br>Shows the current firmware version. |

# *Maintenance*

## Care of the projector

You need to keep the lens and/or filter (optional accessory) clean on a regular basis.

Never remove any parts of the projector. Contact your dealer when any part of the projector needs replacing.

### Cleaning the lens

Clean the lens whenever you notice dirt or dust on the surface.

- Use a canister of compressed air to remove dust.
- If there is dirt or smears, use lens-cleaning paper or moisten a soft cloth with lens cleaner and gently wipe the lens surface.

**CAUTION**

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

### Cleaning the projector case

Before you clean the case, turn the projector off using the proper shutdown procedure as described in "Shutting down the projector" on page 40 and unplug the power cord.

- To remove dirt or dust, wipe the case with a soft, lint-free cloth.
- To remove stubborn dirt or stains, moisten a soft cloth with water and a neutral pH detergent. Then wipe the case.

**CAUTION**

**Never use wax, alcohol, benzene, thinner or other chemical detergents. These can damage the case.**

### Storing the projector

If you need to store the projector for an extended time, please follow the instructions below:

- Make sure the temperature and humidity of the storage area are within the recommended range for the projector. Please refer to "Specifications" on page 56 or consult your dealer about the range.
- Retract the adjuster foot.
- Remove the battery from the remote control.
- Pack the projector in its original packing or equivalent.

### Transporting the projector

It is recommended that you ship the projector with its original packing or equivalent.

## Using the dust filter (optional accessory)

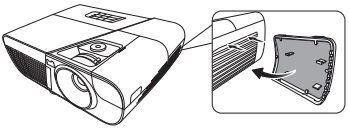
**CAUTION**

- **It is recommended to clean the dust filter every 100 hours after the dust filter is installed.**
- **Be sure to turn off the projector and unplug it from power source before installing or detaching the filter.**

- **If your projector is ceiling-mounted or is not easily accessible, pay special attention to your personal safety when replacing the dust filter.**

## Installing the dust filter

1. Be sure to turn off the projector and unplug it from power source.
2. As the arrows shown to the right, fit the filter by aligning and inserting it into the projector slots. Make sure it clicks into place.



**For first time installation:**

3. Open the OSD menu and go to the **SYSTEM SETTING: ADVANCED** > **Filter Settings** menu.
4. Press **Enter** and the **Filter Settings** page is displayed.
5. Highlight **Filter Mode** and press ◀/▶ to select **On**. The filter timer starts counting.

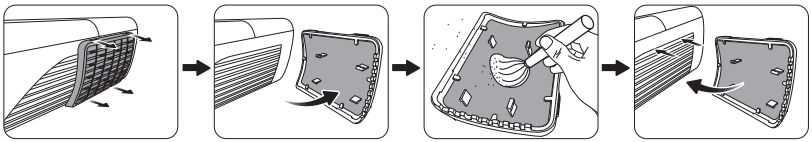
⚠ **Set Filter Mode to On only when using the projector after the dust filer (optional accessory) is properly attached. Failing to do so will result in a shorter lamp life.**

## Obtaining the filter hour information

1. Open the OSD menu and go to the **SYSTEM SETTING: ADVANCED** > **Filter Settings** menu.
2. Press **Enter**. The **Filter Settings** page is displayed.
3. You will see the **Filter Hours** information on the menu.

## Cleaning the dust filter

1. Be sure to turn off the projector and unplug it from power source.
2. Press the latches on the dust filter and remove the filter from the projector.
3. Use a small vacuum cleaner or a soft brush to sweep the dust on the filter away.
4. Re-install the dust filter.



**Resetting the filter timer**

5. Open the OSD menu and go to the **SYSTEM SETTING: ADVANCED** > **Filter Settings** menu.
6. Press **Enter** and the **Filter Settings** page is displayed.
7. Highlight **Reset Filter Hours** and press **Enter**. A warning message is displayed asking if you want to reset the filter timer.
8. Highlight **Reset** and press **Enter**. The lamp time will be reset to '0'.

⚠ **CAUTION**

**Remember to set Filter Mode to Off in the SYSTEM SETTING: ADVANCED > Filter Settings menu when using the projector with the dust filter removed. Setting Filter Mode to Off does not reset the filter timer. The timer will continue counting the next time you fit the filter back on and set Filter Mode to On.**

# Lamp information

## Getting to know the lamp hour

When the projector is in operation, the duration (in hours) of lamp usage is automatically calculated by the built-in timer.

To obtain the lamp hour information:

1. Open the OSD menu and go to the **SYSTEM SETTING: ADVANCED > Lamp Settings** menu.
2. Press **Enter** and the **Lamp Settings** page is displayed.
3. You will see the **Lamp Hours** information on the menu.
4. To leave the menu, press **Exit**.

## Extending lamp life

The projection lamp is a consumable item. To keep the lamp life as long as possible, you can do the following settings via the OSD menu.

### Setting Lamp Mode as Eco

Using **Eco** mode reduces system noise and power consumption by 20%. If the **Eco** mode is selected, the light output will be reduced and result in darker projected pictures.

Setting the projector in **Eco** mode also extends the lamp operation life. To set **Eco** mode, go to the **SYSTEM SETTING: ADVANCED > Lamp Settings** > **Lamp Mode** menu and press ◀ / ▶ to select **Eco**.

### Setting Auto Power Off

This function allows the projector to turn off automatically after a set period of time once no input source is detected to prevent unnecessary waste of lamp life.

1. Open the OSD menu and go to the **SOURCE** > **Smart Energy** menu.
2. Press **Enter** and the **Smart Energy** page is displayed.
3. Highlight **Auto Power Off** and press ◀ / ▶.
4. If the preset time lengths are not suitable for your need, select **Disable**. The projector will not automatically shut down in a certain time period.

### Setting Sleep Timer

This function allows the projector to turn off automatically after a set period of time to prevent unnecessary waste of lamp life.

1. Open the OSD menu and go to the **SOURCE** > **Smart Energy** menu.
2. Press **Enter** and the **Smart Energy** page is displayed.
3. Highlight **Sleep Timer** and press ◀ / ▶.
4. If the preset time lengths are not suitable for your need, select **Disable**. The projector will not automatically shut down in a certain time period.

### Setting Power Saving

The projector lowers the power consumption if no input source is detected after 5 minutes to prevent unnecessary waste of lamp life. You can further decide if you would like the projector to turn off automatically after a set period of time.

1. Open the OSD menu and go to the **SOURCE** > **Smart Energy** menu.
2. Press **Enter** and the **Smart Energy** page is displayed.

3. Highlight **Power Saving** and press ◄/►.
4. When **Enable** is selected, the projector lamp will be changed to **Eco** mode after no signal is detected for 5 minutes.

   The lamp power will be changed to **SuperEco** mode after no signal is detected for 20 minutes.

# Timing of replacing the lamp

Please install a new lamp or consult your dealer when the Lamp indicator light lights up. An old lamp may cause a malfunction in the projector and in some instances the lamp may explode.

**CAUTION**

**The Lamp indicator light and Temperature indicator light will light up if the lamp becomes too hot. Turn the power off and let the projector cool for 45 minutes. If the Lamp indicator light or Temperature indicator light still lights up after turning the power back on, please contact your dealer. See "Indicators" on page 54 for details.**

# Replacing the lamp

**Turn the power off and disconnect the projector from the power outlet. Please contact qualified service personnel for changing the lamp.**

**Type number:**

- **RLC-101**

# Indicators

| Light | | | Status & Description |
|---|---|---|---|
| ⏻ | 🌡 | 💡 | |
| **Power events** | | | |
| **Blue Flashing** | **Off** | **Off** | Stand-by mode |
| **Blue** | **Off** | **Off** | Powering up |
| **Blue** | **Off** | **Off** | Normal operation |
| **Blue Flashing** | **Off** | **Off** | Normal power-down cooling (3 sec) |
| **Red** | **Off** | **Off** | Downloading |
| **Blue** | **Blue** | **Blue** | Burn in off |
| **Lamp events** | | | |
| **Blue Flashing** | **Off** | **Red** | First Lamp-Lit error cooling (60 sec) |
| **Off** | **Off** | **Red** | Lamp error in normal operation (30 sec) |
| **Blue** | **Off** | **Red** | CW start fail (30 sec) |
| **Thermal events** | | | |
| **Off** | **Red** | **Off** | Fan 1 error (the actual fan speed is ±25% outside the desired speed.) |
| **Off** | **Red** | **Red** | Fan 2 error (the actual fan speed is ±25% outside the desired speed.) |
| **Off** | **Red** | **Blue** | Fan 3 error (the actual fan speed is ±25% outside the desired speed.) |
| **Off** | **Red** | **Purple** | Fan 4 error (the actual fan speed is ±25% outside the desired speed.) |
| **Red** | **Red** | **Red** | Thermal sensor 1 open error (the remote diode has an open-circuit condition.) |
| **Red** | **Red** | **Blue** | Thermal sensor 2 open error (the remote diode has an open-circuit condition.) |
| **Blue** | **Red** | **Red** | Thermal sensor 1 short error (the remote diode has an short-circuit condition.) |
| **Off** | **Red** | **Blue** | Thermal sensor 2 short error (the remote diode has an short-circuit condition.) |
| **Purple** | **Red** | **Red** | Temperature 1 error (over limited temperature) |
| **Purple** | **Red** | **Blue** | Temperature 2 error (over limited temperature) |
| **Off** | **Blue** | **Red** | Fan IC #1 I2C connection error |

# *Troubleshooting*

### ⓘ The projector does not turn on.

| Cause | Remedy |
|---|---|
| There is no power from the power cord. | Plug the power cord into the AC inlet on the projector, and plug the power cord into the power outlet. If the power outlet has a switch, make sure that it is switched on. |
| Attempting to turn the projector on again during the cooling process. | Wait until the cooling down process has completed. |

### ⓘ No picture

| Cause | Remedy |
|---|---|
| The video source is not turned on or connected correctly. | Turn the video source on and check that the signal cable is connected correctly. |
| The projector is not correctly connected to the input signal device. | Check the connection. |
| The input signal has not been correctly selected. | Select the correct input signal with the **Source** key on the projector or remote control. |

### ⓘ Blurred image

| Cause | Remedy |
|---|---|
| The projection lens is not correctly focused. | Adjust the focus of the lens using the focus ring. |
| The projector and the screen are not aligned properly. | Adjust the projection angle and direction as well as the height of the projector if necessary. |

### ⓘ Remote control does not work

| Cause | Remedy |
|---|---|
| The battery is out of power. | Replace the battery with a new one. |
| There is an obstacle between the remote control and the projector. | Remove the obstacle. |
| You are too far away from the projector. | Stand within 8 meters (26 feet) from the projector. |
| The remote control code on the projector and that on the remote control are not consistent. | Adjust the remote control code. |

# *Specifications*

## Projector specifications

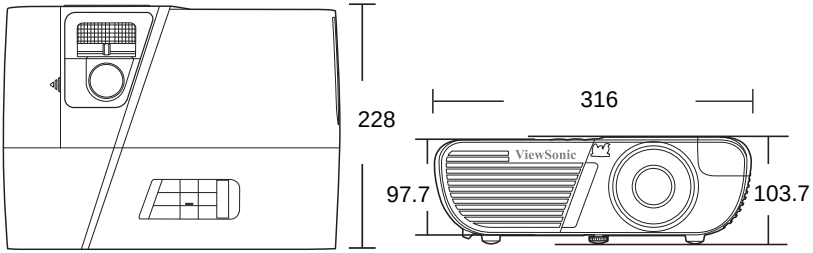
- **All specifications are subject to change without notice.**
- **Not all models can be purchased in your region.**

| | |
|---|---|
| **General** | |
| Product name | DLP Projector |
| **Optical** | |
| Resolution | 1920 x 1080 1080p |
| Display system | 1-CHIP DMD |
| Lamp | 240 W lamp |
| **Electrical** | |
| Power supply | AC100–240V, 50–60 Hz (Automatic) |
| Power consumption | 365 W (Max); < 0.5 W (Standby) |
| **Mechanical** | |
| Weight | 2.6 Kg (5.73 lbs) |
| **Input terminal** | |
| Computer input | |
| RGB input | D-Sub 15-pin (female) x 1 |
| Video signal input | |
| S-VIDEO | Mini DIN 4-pin port x 1 |
| VIDEO | RCA jack x 1 |
| SD/HDTV signal input | |
| Analog – | D-Sub <–> Component RCA jack x 3 (through RGB input) |
| Digital – | HDMI V1.4a x 1 |
| Audio signal input | Audio in jack x 1<br>Audio in jack/Microphone in x 1 |
| HDMI/MHL input | x 2 |

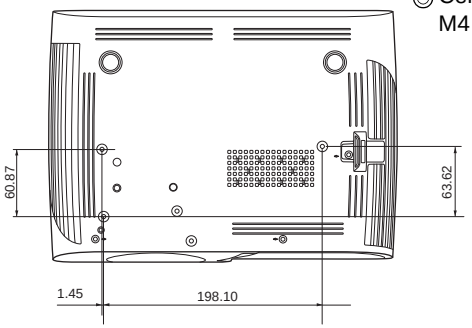
| | |
|---|---|
| **Output terminal** | |
| RGB output | D-Sub 15-pin (female) x 1 |
| Audio signal output | Audio jack x 1 |
| Speaker | 10 watt x 1 |
| **Control terminal** | |
| RS-232 serial control | 9 pin x 1 |
| USB serial control | Type mini B |
| IR receiver | x 1 (Front) |
| **Environmental Requirements** | |
| Operating temperature | 0°C–40°C at sea level |
| Operating relative humidity | 10%–90% (without condensation) |
| Operating altitude | • 0–1499 m at 5°C–35°C<br>• 1500–3000 m at 5°C–25°C (with **High Altitude Mode** on) |

# Dimensions

316 mm (W) x 97.7 mm (H) x 228 mm (D) (Excluding extrusions)



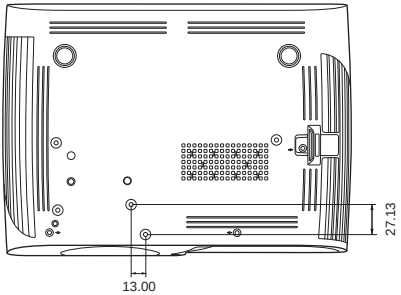

# Ceiling mount installation




◎ Ceiling mount screws:
M4 x 8 (Max. L = 8 mm)

Unit: mm

# Tripod mount installation




Unit: mm

# Timing chart

| Analog RGB | | | |
|---|---|---|---|
| Signal | Resolution (dots) | Aspect Ratio | Refresh Rate (Hz) |
| VGA | 640 x 480 | 4:3 | 60/72/75/85 |
| SVGA | 800 x 600 | 4:3 | 60/72/75/85 |
| XGA | 1024 x 768 | 4:3 | 60/70/75/85 |
| | 1152 x 864 | 4:3 | 75 |
| WXGA | 1280 x 768 | 15:9 | 60 |
| | 1280 x 800 | 16:10 | 60/75/85 |
| | 1360 x 768 | 16:9 | 60 |
| Quad-VGA | 1280 x 960 | 4:3 | 60/85 |
| SXGA | 1280 x 1024 | 5:4 | 60 |
| SXGA+ | 1400 x 1050 | 4:3 | 60 |
| WXGA+ | 1440 x 900 | 16:10 | 60 |
| UXGA | 1600 x 1200 | 4:3 | 60 |
| WSXGA+ | 1680 x 1050 | 16:10 | 60 |
| HD | 1280 x 720 | 16:9 | 60 |
| MAC 13" | 640 x 480 | 4:3 | 67 |
| MAC 16" | 832 x 624 | 4:3 | 75 |
| MAC 19" | 1024 x 768 | 4:3 | 75 |
| MAC 21" | 1152 x 870 | 4:3 | 75 |
| HDTV (1080p) | 1920 x 1080 | 16:9 | 60 |

| HDMI | | | |
|---|---|---|---|
| Signal | Resolution (dots) | Aspect Ratio | Refresh Rate (Hz) |
| VGA | 640 x 480 | 4:3 | 60 |
| SVGA | 800 x 600 | 4:3 | 60 |
| XGA | 1024 x 768 | 4:3 | 60 |
| WXGA | 1280 x 768 | 15:9 | 60 |
| | 1280 x 800 | 16:10 | 60 |
| | 1360 x 768 | 16:9 | 60 |
| Quad-VGA | 1280 x 960 | 4:3 | 60 |
| SXGA | 1280 x 1024 | 5:4 | 60 |
| SXGA+ | 1400 x 1050 | 4:3 | 60 |
| WXGA+ | 1440 x 900 | 16:10 | 60 |
| WSXGA+ | 1680 x 1050 | 16:10 | 60 |
| HDTV (1080p) | 1920 x 1080 | 16:9 | 50 / 60 |
| HDTV (1080i) | 1920 x 1080 | 16:9 | 50 / 60 |
| HDTV (720p) | 1280 x 720 | 16:9 | 50 / 60 |
| SDTV (480p) | 720 x 480 | 4:3 / 16:9 | 60 |
| SDTV (576p) | 720 x 576 | 4:3 / 16:9 | 50 |
| SDTV (480i) | 720 x 480 | 4:3 / 16:9 | 60 |
| SDTV (576i) | 720 x 576 | 4:3 / 16:9 | 50 |

| 3D (HDMI signal included) | | | |
|---|---|---|---|
| Signal | Resolution (dots) | Aspect Ratio | Refresh Rate (Hz) |
| SVGA | 800 x 600 | 4:3 | 60* / 120** |
| XGA | 1024 x 768 | 4:3 | 60* / 120** |
| HD | 1280 x 720 | 16:9 | 60* / 120** |
| WXGA | 1280 x 800 | 16:9 | 60* / 120** |
| for Video Signal | | | |
| Signal | Resolution (dots) | Aspect Ratio | Refresh Rate (Hz) |
| SDTV (480i)*** | 720 x 480 | 4:3 / 16:9 | 60 |

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

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

***** Video signal (SDTV 480i) is supported for Frame Sequential format only.**

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

| Component video | | | |
|---|---|---|---|
| Signal | Resolution (dots) | Aspect Ratio | Refresh Rate (Hz) |
| HDTV (1080p) | 1920 x 1080 | 16:9 | 50 / 60 |
| HDTV (1080i) | 1920 x 1080 | 16:9 | 50 / 60 |
| HDTV (720p) | 1280 x 720 | 16:9 | 50 / 60 |
| SDTV (480p) | 720 x 480 | 4:3 / 16:9 | 60 |
| SDTV (576p) | 720 x 576 | 4:3 / 16:9 | 50 |
| SDTV (480i) | 720 x 480 | 4:3 / 16:9 | 60 |
| SDTV (576i) | 720 x 576 | 4:3 / 16:9 | 50 |

| Composite video | | |
|---|---|---|
| Signal | Aspect Ratio | Refresh Rate (Hz) |
| NTSC | 4:3 | 60 |
| PAL | 4:3 | 50 |
| PAL60 | 4:3 | 60 |
| SECAM | 4:3 | 50 |

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# *Appendix*

## IR control table

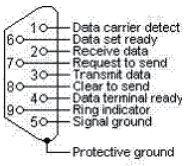
| Key | Format | Byte1 | Byte2 | Byte3 | Byte4 |
|---|---|---|---|---|---|
| PgDn | NEC | X3 | F4 | 05 | FA |
| PgUp | NEC | X3 | F4 | 06 | F9 |
| Blank | NEC | X3 | F4 | 07 | F8 |
| Auto sync | NEC | X3 | F4 | 08 | F7 |
| Up | NEC | X3 | F4 | 0B | F4 |
| Down | NEC | X3 | F4 | 0C | F3 |
| Left | NEC | X3 | F4 | 0E | F1 |
| Right | NEC | X3 | F4 | 0F | F0 |
| Color Mode | NEC | X3 | F4 | 10 | EF |
| Mute | NEC | X3 | F4 | 14 | EB |
| Enter | NEC | X3 | F4 | 15 | EA |
| Power ON | NEC | X3 | F4 | 17 | E8 |
| Presentation Timer | NEC | X3 | F4 | 27 | D8 |
| Exit | NEC | X3 | F4 | 28 | D7 |
| D. ECO<br>(Eco mode) | NEC | X3 | F4 | 2B | D4 |
| Menu | NEC | X3 | F4 | 30 | CF |
| Mouse | NEC | X3 | F4 | 31 | CE |
| Mouse Left | NEC | X3 | F4 | 36 | C9 |
| Mouse Right | NEC | X3 | F4 | 37 | C8 |
| Source | NEC | X3 | F4 | 40 | BF |
| Pattern | NEC | X3 | F4 | 55 | AA |
| My button | NEC | X3 | F4 | 56 | A9 |
| HDMI/MHL | NEC | X3 | F4 | 58 | A7 |
| COMP | NEC | X3 | F4 | 41 | be |
| VIDEO | NEC | X3 | F4 | 9F | 60 |
| Panel Key Lock | NEC | X3 | F4 | 8E | 71 |
| Volume | NEC | X3 | F4 | 2E | D1 |
| Help | NEC | X3 | F4 | 21 | DE |
| Magnify | NEC | X3 | F4 | 32 | CD |
| Audio Mode | NEC | X3 | F4 | 9E | 61 |

## 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 |

# RS232 command table

**<Pin assignment for this two end>**

| 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 |

**<RS232 command table>**

| Function | Status | Action | cmd |
|---|---|---|---|
| Power | Write | Turn on | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x00 0x00 0x5D |
| | | Turn off | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x01 0x00 0x5E |
| | Read | Power status (on/off) | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x00 0x5E |
| Reset all settings | Execute | | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x02 0x00 0x5F |
| Reset Color Settings | Execute | | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x2A 0x00 0x87 |
| Splash Screen | Write | Splash Screen Black | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x0A 0x00 0x67 |
| | | Splash Screen Blue | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x0A 0x01 0x68 |
| | | Splash Screen ViewSonic | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x0A 0x02 0x69 |
| | | Splash Screen Screen Capture | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x0A 0x03 0x6A |
| | | Splash Screen Off | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x0A 0x04 0x6B |
| | Read | Splash Screen status | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x0A 0x68 |
| Quick Power Off | Write | Quick Power Off Off | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x0B 0x00 0x68 |
| | | Quick Power Off On | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x0B 0x01 0x69 |
| | Read | Quick Power Off status | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x0B 0x69 |
| High Altitude Mode | Write | High Altitude Mode Off | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x0C 0x00 0x69 |
| | | High Altitude Mode On | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x0C 0x01 0x6A |
| | Read | High Altitude Mode status | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x0C 0x6A |
| Lamp Mode | Write | Normal | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x10 0x00 0x6D |
| | | Economic | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x10 0x01 0x6E |
| | | Dynamic | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x10 0x02 0x6F |
| | | Sleep Mode | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x10 0x03 0x70 |
| | Read | Lamp Mode status | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x10 0x6E |

| | | | |
|---|---|---|---|
| Message | Write | Message Off | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x27 0x00 0x84 |
| | | Message On | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x27 0x01 0x85 |
| | Read | Message 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 |
| | | Rear Table | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x00 0x01 0x5F |
| | | Rear Ceiling | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x00 0x02 0x60 |
| | | Front Ceiling | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x00 0x03 0x61 |
| | Read | projector position 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 |
| | | Auto | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x20 0x01 0x7F |
| | | Frame Sequential | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x20 0x02 0x80 |
| | | Frame Packing | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x20 0x03 0x81 |
| | | Top-Bottom | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x20 0x04 0x82 |
| | | Side-by-Side | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x20 0x05 0x83 |
| | Read | 3D Sync 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 |
| | | On | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x21 0x01 0x80 |
| | Read | 3D Sync Invert Status | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x21 0x80 |
| Contrast | Write | Contrast decrease | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x02 0x00 0x60 |
| | | Contrast increase | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x02 0x01 0x61 |
| | Read | Contrast ratio | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x02 0x61 |
| Brightness | Write | Brightness decrease | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x03 0x00 0x61 |
| | | Brightness increase | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x03 0x01 0x62 |
| | Read | Brightness | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x03 0x62 |

| | | | |
|---|---|---|---|
| Aspect ratio | Write | Aspect ratio Auto | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x00 0x62 |
| | | Aspect ratio 4:3 | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x02 0x64 |
| | | Aspect ratio 16:9 | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x03 0x65 |
| | | Aspect ratio 16:10 | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x04 0x66 |
| | | Aspect ratio Anamorphic | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x05 0x67 |
| | | Aspect ratio Wide | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x06 0x68 |
| | | Aspect ratio 2.35:1 | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x07 0x69 |
| | | Aspect ratio Panorama | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x08 0x6A |
| | Read | Aspect ratio | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x04 0x63 |
| Auto Adjust | Execute | | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x05 0x00 0x63 |
| Horizontal position | Write | Horizontal position shift right | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x06 0x01 0x65 |
| | | Horizontal position shift left | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x06 0x00 0x64 |
| | Read | Horizontal position | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x06 0x65 |
| Vertical position | Write | Vertical position shift up | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x07 0x00 0x65 |
| | | Vertical position shift down | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x07 0x01 0x66 |
| | Read | read Vertical position | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x07 0x66 |
| Color temperature | Write | color temperature Warm | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x08 0x00 0x66 |
| | | color temperature Normal | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x08 0x01 0x67 |
| | | color temperature Neutral | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x08 0x02 0x68 |
| | | color temperature Cool | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x08 0x03 0x69 |
| | Read | color temperature status | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x08 0x67 |

| | | | |
|---|---|---|---|
| Blank | Write | Blank on | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x09 0x01 0x68 |
| | | Blank off | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x09 0x00 0x67 |
| | Read | Blank 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 |
| | | Increase | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0A 0x01 0x69 |
| | Read | Keystone status | 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 |
| | | Increase | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x31 0x01 0x8F |
| | Read | Keystone status | 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 |
| | | Movie | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x01 0x6A |
| | | Standard | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x04 0x6D |
| | | ViewMatch | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x05 0x6E |
| | | Dynamic | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x08 0x71 |
| | Read | Preset mode status | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x0B 0x6A |
| Primary Color | Write | Primary color R | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x10 0x00 0x6E |
| | | Primary color G | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x10 0x01 0x6F |
| | | Primary color B | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x10 0x02 0x70 |
| | | Primary color C | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x10 0x03 0x71 |
| | | Primary color M | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x10 0x04 0x72 |
| | | Primary color Y | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x10 0x05 0x73 |
| | Read | Primary color status | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x10 0x6F |
| Hue | Write | Hue decrease | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x11 0x00 0x6F |
| | | Hue increase | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x11 0x01 0x70 |
| | Read | Hue | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x11 0x70 |

| | | | |
|---|---|---|---|
| Saturation | Write | Saturation decrease | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x12 0x00 0x70 |
| | | Saturation increase | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x12 0x01 0x71 |
| | Read | Saturation | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x12 0x71 |
| Gain | Write | Gain decrease | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x13 0x00 0x71 |
| | | Gain increase | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x13 0x01 0x72 |
| | Read | Gain | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x13 0x72 |
| Freeze | Write | Freeze on | 0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x00 0x01 0x60 |
| | | Freeze off | 0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x00 0x00 0x5F |
| | Read | Freeze status | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x13 0x00 0x60 |
| Source input | Write | Input source VGA | 0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x01 0x00 0x60 |
| | | Input source VGA2 | 0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x01 0x08 0x68 |
| | | Input source HDMI | 0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x01 0x03 0x63 |
| | | Input source HDMI/MHL | 0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x01 0x07 0x67 |
| | | Input source Composite | 0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x01 0x05 0x65 |
| | | Input source SVIDEO | 0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x01 0x06 0x66 |
| | Read | Source | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x13 0x01 0x61 |
| Quick Auto Search | Write | Quick Auto Search on | 0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x02 0x01 0x62 |
| | | Quick Auto Search off | 0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x02 0x00 0x61 |
| | Read | Quick Auto Search status | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x13 0x02 0x62 |
| Mute | Write | Mute on | 0x06 0x14 0x00 0x04 0x00 0x34 0x14 0x00 0x01 0x61 |
| | | Mute off | 0x06 0x14 0x00 0x04 0x00 0x34 0x14 0x00 0x00 0x60 |
| | Read | Mute status | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x14 0x00 0x61 |
| Volume | Write | Increase Volume | 0x06 0x14 0x00 0x04 0x00 0x34 0x14 0x01 0x00 0x61 |
| | | Decrease Volume | 0x06 0x14 0x00 0x04 0x00 0x34 0x14 0x02 0x00 0x62 |
| | Read | Volume | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x14 0x03 0x64 |

| | | | |
|---|---|---|---|
| Language | Write | ENGLISH | 0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x00 0x61 |
| | | FRANÇAIS | 0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x01 0x62 |
| | | DEUTSCH | 0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x02 0x63 |
| | | ITALIANO | 0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x03 0x64 |
| | | ESPAÑOL | 0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x04 0x65 |
| | | РУССКИЙ | 0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x05 0x66 |
| | | 繁體中文 | 0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x06 0x67 |
| | | 简体中文 | 0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x07 0x68 |
| | | 日本語 | 0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x08 0x69 |
| | | 한국어 | 0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x09 0x6A |
| | | Svenska | 0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x0a 0x6B |
| | | Nederlands | 0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x0b 0x6C |
| | | Türkçe | 0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x0c 0x6D |
| | | Čeština | 0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x0d 0x6E |
| | | Português | 0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x0e 0x6F |
| | | โปรตุเกส | 0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x0f 0x70 |
| | | Polski | 0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x10 0x71 |
| | | Suomi | 0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x11 0x72 |
| | | العربية | 0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x12 0x73 |
| | | Indonesian | 0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x13 0x74 |
| | | हिन्दी | 0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x14 0x75 |
| | Read | Language | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x15 0x00 0x62 |
| Lamp Time | Write | Reset Lamp usage hour | 0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x01 0x00 0x62 |
| | Read | Lamp usage hour | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x15 0x01 0x63 |

| | | | |
|---|---|---|---|
| HDMI Format | Write | RGB | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x28 0x00 0x85 |
| | | YUV | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x28 0x01 0x86 |
| | | Auto | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x28 0x02 0x87 |
| | Read | HDMI Format status | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x28 0x86 |
| HDMI Range | Write | Enhanced | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x29 0x00 0x86 |
| | | Normal | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x29 0x01 0x87 |
| | | Auto | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x29 0x02 0x88 |
| | Read | HDMI Range 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 |
| | | On | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x2B 0x01 0x89 |
| | Read | CEC status | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x2B 0x89 |
| Error status | Read | Read error status | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x0C 0x0D 0x66 |
| Brilliant Color | Write | Brilliant Color 0 | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x00 0x6D |
| | | Brilliant Color 1 | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x01 0x6E |
| | | Brilliant Color 2 | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x02 0x6F |
| | | Brilliant Color 3 | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x03 0x70 |
| | | Brilliant Color 4 | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x04 0x71 |
| | | Brilliant Color 5 | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x05 0x72 |
| | | Brilliant Color 6 | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x06 0x73 |
| | | Brilliant Color 7 | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x07 0x74 |
| | | Brilliant Color 8 | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x08 0x75 |
| | | Brilliant Color 9 | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x09 0x76 |
| | | Brilliant Color 10 | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x0A 0x77 |
| | Read | Brilliant Color status | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x0F 0x6E |

| | | | |
|---|---|---|---|
| Remote Control code | Write | code 1 | 0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x00 0xA0 |
| | | code 2 | 0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x01 0xA1 |
| | | code 3 | 0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x02 0xA2 |
| | | code 4 | 0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x03 0xA3 |
| | | code 5 | 0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x04 0xA4 |
| | | code 6 | 0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x05 0xA5 |
| | | code 7 | 0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x06 0xA6 |
| | | code 8 | 0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x07 0xA7 |
| | Read | Remote Control code status | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x0C 0x048 0xA1 |
| Screen Color | Write | Screen color Off | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x32 0x00 0x8F |
| | | Blackboard | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x32 0x01 0x90 |
| | | Greenboard | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x32 0x02 0x91 |
| | | Whiteboard | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x32 0x03 0x92 |
| | Read | Screen Color status | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x32 0x90 |
| Over Scan | Write | Overscan Off | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x00 0x90 |
| | | Overscan 1 | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x01 0x91 |
| | | Overscan 2 | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x02 0x92 |
| | | Overscan 3 | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x03 0x93 |
| | | Overscan 4 | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x04 0x94 |
| | | Overscan 5 | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x05 0x95 |
| | Read | Overscan status | 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 |
| | | Exit | 0x02 0x14 0x00 0x04 0x00 0x34 0x02 0x04 0x13 0x65 |
| | | Up | 0x02 0x14 0x00 0x04 0x00 0x34 0x02 0x04 0x0B 0x5D |
| | | Down | 0x02 0x14 0x00 0x04 0x00 0x34 0x02 0x04 0x0C 0x5E |
| | | Left | 0x02 0x14 0x00 0x04 0x00 0x34 0x02 0x04 0x0D 0x5F |
| | | Right | 0x02 0x14 0x00 0x04 0x00 0x34 0x02 0x04 0x0E 0x60 |
| | | Source | 0x02 0x14 0x00 0x04 0x00 0x34 0x02 0x04 0x04 0x56 |
| | | Enter | 0x02 0x14 0x00 0x04 0x00 0x34 0x02 0x04 0x15 0x67 |
| | | Auto | 0x02 0x14 0x00 0x04 0x00 0x34 0x02 0x04 0x08 0x5A |
| | | My Button | 0x02 0x14 0x00 0x04 0x00 0x34 0x02 0x04 0x11 0x63 |

# Customer Support

For technical support or product service, see the table below or contact your reseller.
**NOTE:** You will need the product serial number.

| Country/Region | Website | T= Telephone<br>C = CHAT ONLINE | Email |
|---|---|---|---|
| Australia<br>New Zealand | www.viewsonic.com.au | AUS= 1800 880 818<br>NZ= 0800 008 822 | service@au.viewsonic.com |
| Canada | www.viewsonic.com | T (Toll-Free)= 1-866-463-4775<br>T (Toll)= 1-424-233-2533 | service.ca@viewsonic.com |
| Europe | www.viewsoniceurope.com | www.viewsoniceurope.com/uk/support/call-desk/ | |
| Hong Kong | www.hk.viewsonic.com | T= 852 3102 2900 | service@hk.viewsonic.com |
| India | www.in.viewsonic.com | T= 1800 419 0959 | service@in.viewsonic.com |
| Korea | ap.viewsonic.com/kr/ | T= 080 333 2131 | service@kr.viewsonic.com |
| Latin America (Argentina) | www.viewsonic.com/la/ | C= http://www.viewsonic.com/la/soporte/servicio-tecnico | soporte@viewsonic.com |
| Latin America (Chile) | www.viewsonic.com/la/ | C= http://www.viewsonic.com/la/soporte/servicio-tecnico | soporte@viewsonic.com |
| Latin America (Columbia) | www.viewsonic.com/la/ | C= http://www.viewsonic.com/la/soporte/servicio-tecnico | soporte@viewsonic.com |
| Latin America (Mexico) | www.viewsonic.com/la/ | C= http://www.viewsonic.com/la/soporte/servicio-tecnico | soporte@viewsonic.com |
| Nexus Hightech Solutions, Cincinnati #40 Desp. 1 Col. De los Deportes Mexico D.F.<br>Tel: 55) 6547-6454 55)6547-6484<br>Other places please refer to http://www.viewsonic.com/la/soporte/servicio-tecnico#mexico | | | |
| Latin America (Peru) | www.viewsonic.com/la/ | C= http://www.viewsonic.com/la/soporte/servicio-tecnico | soporte@viewsonic.com |
| Macau | www.hk.viewsonic.com | T= 853 2870 0303 | service@hk.viewsonic.com |
| Middle East | ap.viewsonic.com/me/ | Contact your reseller | service@ap.viewsonic.com |
| Puerto Rico & Virgin Islands | www.viewsonic.com | T= 1-800-688-6688 (English)<br>C= http://www.viewsonic.com/la/soporte/servicio-tecnico | service.us@viewsonic.com<br>soporte@viewsonic.com |
| Singapore/ Malaysia/Thailand | www.ap.viewsonic.com | T= 65 6461 6044 | service@sg.viewsonic.com |
| South Africa | ap.viewsonic.com/za/ | Contact your reseller | service@ap.viewsonic.com |
| United States | www.viewsonic.com | T (Toll-Free)= 1-800-688-6688<br>T (Toll)= 1-424-233-2530 | service.us@viewsonic.com |

# Limited Warranty

## ViewSonic® Projector

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

**Limited Three (3) year General Warranty**
Subject to the more limited one (1) year warranty set out below, North and South America: Three (3) years warranty for all parts excluding the lamp, three (3) years for labor, and one (1) year for the original lamp from the date of the first consumer purchase.
Other regions or countries: Please check with your local dealer or local ViewSonic office for the warranty information.

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

**Who the warranty protects:**
This warranty is valid only for the first consumer purchaser.

**What the warranty does not cover:**
1. Any product on which the serial number has been defaced, modified or removed.
2. Damage, deterioration or malfunction resulting from:
    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, one way transportation, insurance, 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 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.
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.
4. Repair or attempted repair by anyone not authorized by ViewSonic.

**Effect of state law:**

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on implied warranties and/or do not allow the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

**Sales outside the U.S.A. and Canada:**

For warranty information and service on ViewSonic products sold outside of the U.S.A. and Canada, contact ViewSonic or your local ViewSonic dealer.
The warranty period for this product in mainland China (Hong Kong, Macao and Taiwan Excluded) is subject to the terms and conditions of the Maintenance Guarantee Card.
For users in Europe and Russia, full details of warranty provided can be found in www.viewsoniceurope.com under Support/Warranty Information.

# Mexico Limited Warranty

## ViewSonic® Projector

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

**How long the warranty is effective:**
3 years for all parts excluding the lamp, 3 years for labor, 1 year for the original lamp from the date of the first consumer purchase.
Lamp warranty subject to terms and conditions, verification and approval. Applies to manufacturer's installed lamp only.
All accessory lamps purchased separately are warranted for 90 days.

**Who the warranty protects:**
This warranty is valid only for the first consumer purchaser.

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

**How to get service:**
For information about receiving service under warranty, contact ViewSonic Customer Support (Please refer to the attached Customer Support page). You will need to provide your product's serial number, so please record the product information in the space provided below on your purchase for your future use. Please retain your receipt of proof of purchase to support your warranty claim.
For Your Records
Product Name: _____ Model Number: _____
Document Number: _____ Serial Number: _____
Purchase Date: _____ Extended Warranty Purchase? _____(Y/N)
If so, what date does warranty expire? _____
1. To obtain warranty service, you will be required to provide (a) the original dated sales slip, (b) your name, (c) your address, (d) a description of the problem, and (e) the serial number of the product.
2. Take or ship the product in the original container packaging to an authorized ViewSonic service center.
3. Round trip transportation costs for in-warranty products will be paid by ViewSonic.

**Limitation of implied warranties:**
There are no warranties, express or implied, which extend beyond the description contained herein including the implied warranty of merchantability and fitness for a particular purpose.

**Exclusion of damages:**
ViewSonic's liability is limited to the cost of repair or replacement of the product. ViewSonic shall not be liable for:
1. Damage to other property caused by any defects in the product, damages based upon inconvenience, loss of use of the product, loss of time, loss of profits, loss of business opportunity, loss of goodwill, interference with business relationships, or other commercial loss, even if advised of the possibility of such damages.
2. Any other damages, whether incidental, consequential or otherwise.
3. Any claim against the customer by any other party.
4. Repair or attempted repair by anyone not authorized by ViewSonic.

| Contact Information for Sales & Authorized Service (Centro Autorizado de Servicio) within Mexico: | |
|---|---|
| ***Name, address, of manufacturer and importers:***<br>México, Av. de la Palma #8 Piso 2 Despacho 203, Corporativo Interpalmas,<br>Col. San Fernando Huixquilucan, Estado de México<br>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:***<br>Distribuciones y Servicios Computacionales SA de CV.<br>Calle Juarez 284 local 2<br>Col. Bugambilias C.P: 83140<br>Tel: 01-66-22-14-9005<br>E-Mail: disc2@hmo.megared.net.mx | ***Villahermosa:***<br>Compumantenimietnos Garantizados, S.A. de C.V.<br>AV. GREGORIO MENDEZ #1504<br>COL, FLORIDA C.P. 86040<br>Tel: 01 (993) 3 52 00 47 / 3522074 / 3 52 20 09<br>E-Mail: compumantenimientos@prodigy.net.mx |
| ***Puebla, Pue. (Matriz):***<br>RENTA Y DATOS, S.A. DE C.V. Domicilio:<br>29 SUR 721 COL. LA PAZ<br>72160 PUEBLA, PUE.<br>Tel: 01(52).222.891.55.77 CON 10 LINEAS<br>E-Mail: datos@puebla.megared.net.mx | ***Veracruz, Ver.:***<br>CONEXION Y DESARROLLO, S.A DE C.V. Av. Americas # 419<br>ENTRE PINZÓN Y ALVARADO<br>Fracc. Reforma C.P. 91919<br>Tel: 01-22-91-00-31-67<br>E-Mail: gacosta@qplus.com.mx |
| ***Chihuahua***<br>Soluciones Globales en Computación<br>C. Magisterio # 3321 Col. Magisterial<br>Chihuahua, Chih.<br>Tel: 4136954<br>E-Mail: Cefeo@soluglobales.com | ***Cuernavaca***<br>Compusupport de Cuernavaca SA de CV<br>Francisco Leyva # 178 Col. Miguel Hidalgo<br>C.P. 62040, Cuernavaca Morelos<br>Tel: 01 777 3180579 / 01 777 3124014<br>E-Mail: aquevedo@compusupportcva.com |
| ***Distrito Federal:***<br>QPLUS, S.A. de C.V.<br>Av. Coyoacán 931<br>Col. Del Valle 03100, México, D.F.<br>Tel: 01(52)55-50-00-27-35<br>E-Mail : gacosta@qplus.com.mx | ***Guadalajara, Jal.:***<br>SERVICRECE, S.A. de C.V.<br>Av. Niños Héroes # 2281<br>Col. Arcos Sur, Sector Juárez<br>44170, Guadalajara, Jalisco<br>Tel: 01(52)33-36-15-15-43<br>E-Mail: mmiranda@servicrece.com |
| ***Guerrero Acapulco***<br>GS Computación (Grupo Sesicomp)<br>Progreso #6-A, Colo Centro<br>39300 Acapulco, Guerrero<br>Tel: 744-48-32627 | ***Monterrey:***<br>Global Product Services<br>Mar Caribe # 1987, Esquina con Golfo Pérsico<br>Fracc. Bernardo Reyes, CP 64280<br>Monterrey N.L. México<br>Tel: 8129-5103<br>E-Mail: aydeem@gps1.com.mx |
| ***MERIDA:***<br>ELECTROSER<br>Av Reforma No. 403Gx39 y 41<br>Mérida, Yucatán, México CP97000<br>Tel: (52) 999-925-1916<br>E-Mail: rrrb@sureste.com | ***Oaxaca, Oax.:***<br>CENTRO DE DISTRIBUCION Y<br>SERVICIO, S.A. de C.V.<br>Murguía # 708 P.A., Col. Centro, 68000, Oaxaca<br>Tel: 01(52)95-15-15-22-22<br>Fax: 01(52)95-15-13-67-00<br>E-Mail. gpotai2001@hotmail.com |
| ***Tijuana:***<br>STD<br>Av Ferrocarril Sonora #3780 L-C<br>Col 20 de Noviembre<br>Tijuana, Mexico | ***FOR USA SUPPORT:***<br>ViewSonic Corporation<br>14035 Pipeline Ave. Chino, CA 91710, USA<br>Tel: 800-688-6688 (English); 866-323-8056 (Spanish);<br>E-Mail: http://www.viewsonic.com |

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