

# ViewSonic®



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## **PJD7822HDL** **DLP Projector** **User Guide**

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IMPORTANT: Please read this User Guide to obtain important information on installing and using your product in a safe manner, as well as registering your product for future service. Warranty information contained in this User Guide will describe your limited coverage from ViewSonic Corporation, which is also found on our web site at <http://www.viewsonic.com> in English, or in specific languages using the Regional selection box in the upper right corner of our website. "Antes de operar su equipo lea cuidadosamente las instrucciones en este manual"

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Model No. VS16000

## 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 !



# 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

 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 <sup>6+</sup> ) | 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 ( $\leq 500$  mm): maximum 3.5 mg per lamp.
  - (2) Medium length ( $> 500$  mm and  $\leq 1,500$  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

|                         |                                       |
|-------------------------|---------------------------------------|
| <b>Product Name:</b>    | PJD7822HDL<br>ViewSonic DLP Projector |
| <b>Model Number:</b>    | VS16000                               |
| <b>Document Number:</b> | PJD7822HDL_UG_ENG Rev. 1A 08-25-14    |
| <b>Serial Number:</b>   | _____                                 |
| <b>Purchase Date:</b>   | _____                                 |

### 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*

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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  $\pm 10$  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 recommends that you also purchase a separate Kensington lock compatible security cable and attach it securely to both the Kensington 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.

# Introduction

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## 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.

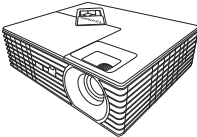
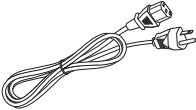
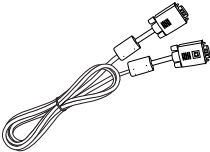
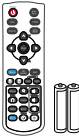
- Dynamic PC and Dynamic Movie functions adjusting the power consumption of the lamp according to the brightness of the image being projected
  - DynamicEco Timer function decreasing the power consumption of the lamp by up to 30% when no input signal can be detected for a set period of time.
  - Presentation 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 and Reference 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 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 (YPbPr)
  - HDMI CEC (Consumer Electronics Control) function allows synchronized power ON/OFF operation between the projector and a CEC-compatible device connected to the HDMI input of the projector
-  • **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.

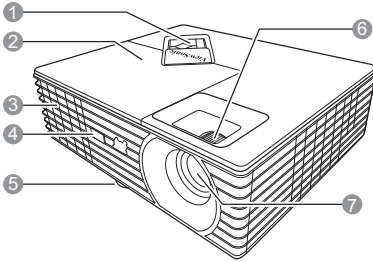
|                                                                                   |                                                                                   |                                                                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |  |  |
| Projector                                                                         | Power Cord                                                                        | VGA Cable                                                                         |
|  |  |  |
| Multi-language user manual DVD                                                    | Quick Start Guide                                                                 | Remote Control & Batteries                                                        |

## Optional accessories

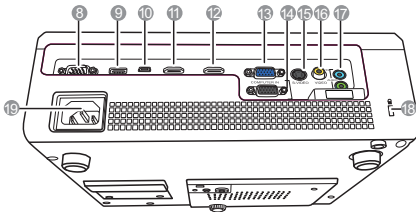
- 1. Replacement lamp
- 2. Soft carry case
- 3. VGA-Component adapter

# Projector exterior view

## Front/upper side



## Rear/lower side



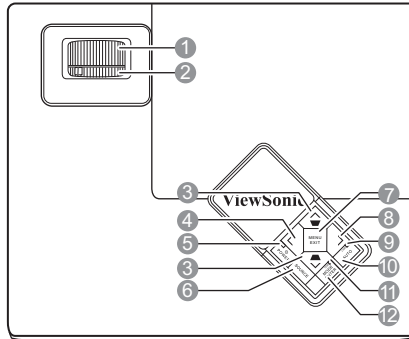
1. External control panel  
(See "Projector" on page 7 for details.)
2. Lamp cover
3. Vent (heated air exhaust)
4. Front IR remote sensor
5. Adjuster foot
6. Focus and Zoom rings
7. Projection lens
8. RS-232 control port
9. Type A USB port (for 5V power)
10. Type B USB port
11. HDMI 1 port
12. HDMI 2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

## ⚠ 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.**

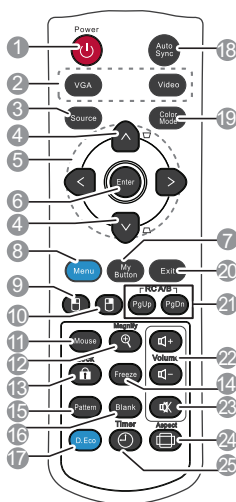
# Controls and functions

## Projector



1. **Focus ring**  
Adjusts the focus of the projected image.
2. **Zoom ring**  
Adjusts the size of the image.
3. **Keystone/Arrow keys** ( ▽ / ^ Up, ▴ / ▾ Down)  
Manually corrects distorted images resulting from an angled projection.
4. **< Left/Blank**  
Hides the screen picture.
5. **POWER indicator light**  
Lights up or flashes when the projector is under operation.  
 **POWER**  
Toggles the projector between standby mode and on.
6. **SOURCE**  
Displays the source selection bar.
7. **MENU/EXIT**  
Turns on the On-Screen Display (OSD) menu. Goes back to previous OSD menu, exits and saves menu settings.
8. **> Right**  
Activates panel key lock.  
When the On-Screen Display (OSD) menu is activated, the #3, #4, and #8 keys are used as directional arrows to select the desired menu items and to make adjustments.
9. **LAMP indicator light**  
Indicates the status of the lamp. Lights up or flashes when the lamp has developed a problem.
10. **AUTO**  
Automatically determines the best picture timings for the displayed image.
11. **TEMPERature indicator light**  
Lights up red if the projector's temperature becomes too high.
12. **MODE/ENTER**  
Selects an available picture setup mode. Enacts the selected On-Screen Display (OSD) menu item.

# 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 on.

## 2. **Source selection keys (VGA/Video)**

Selects an input source for display.

### **VGA**

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

### **Video**

Selects **Video (HDMI-1/HDMI-2/ Video/S-Video)** source for display.

## 3. **Source**

Displays the source selection bar.

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

Manually corrects distorted images resulting from an angled projection.

## 5. / / /

Selects the desired menu items and makes adjustments.

## 6. **Enter**

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

## 7. **My Button**

Allows user to define a short cut key on the remote control, and the function item is selected in OSD menu.

## 8. **Menu**

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

## 9.

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

## 10.

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

## 11. **Mouse**

Switches between the normal and mouse modes.

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

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>12. Magnify</b><br/>Displays the zoom bar that magnifies or reduces the projected picture size.</p> <p><b>13. Lock </b><br/>Activates or deactivates panel key lock.</p> <p><b>14. Freeze</b><br/>Freezes the projected image.</p> <p><b>15. Pattern</b><br/>Displays embedded test pattern.</p> <p><b>16. Blank</b><br/>Hides the screen picture.</p> <p><b>17. DynamicEco™</b><br/>Decreases the power consumption of the lamp by up to 30%.</p> <p> <b>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.</b></p> <p><b>18. Auto Sync</b><br/>Automatically determines the best picture timings for the displayed image.</p> | <p><b>19. Color Mode</b><br/>Selects an available picture setup mode.</p> <p><b>20. Exit</b><br/>Goes back to previous OSD menu, exits and saves menu settings.</p> <p><b>21. PgUp (Page Up)/PgDn (Page Down)</b><br/>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.</p> <p><b>22. Volume keys (+, -)</b><br/>Magnifies or reduces the volume level.</p> <p><b>23. </b><br/>Toggles the projector audio between on and off.</p> <p><b>24. Aspect</b><br/>Selects the display aspect ratio.</p> <p><b>25. Timer</b><br/>Displays the presentation timer settings menu.</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Remote control code

The projector can be assigned to two different remote control codes, A or B. 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 **A** or **B** in the **SYSTEM SETTING: ADVANCED > Remote Control Code** menu.

To switch the code for the remote control, press **PgUp** and **PgDn** buttons on the remote control together for 5 seconds or more. The initial code is set to A.

 **If different codes are set on the projector and remote control, there will be no response from the remote control. When that happens, switch the code for the remote control again.**

## Using the remote mouse control

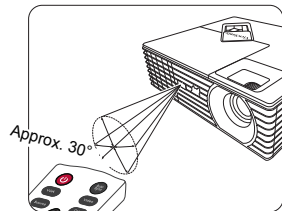
The capability of operating your computer with the remote control gives you more flexibility when delivering presentations.

1. Connect the projector to your PC or notebook with a USB cable prior to using the remote control in place of your computer's mouse. See ["Connecting a computer" on page 15](#) 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  $\angle / \wedge / \vee / \triangleright$ .
  - To left-click, press  $\blacksquare$ .
  - To right-click, press  $\blacksquare$ .
  - 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

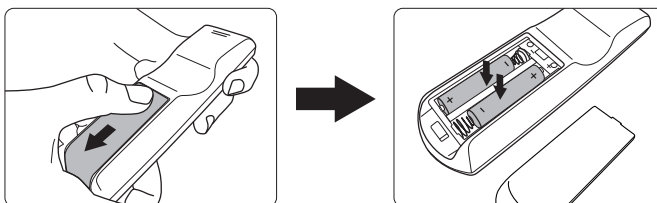
The Infra-Red (IR) remote control is located on the front of the projector. The remote control must be held at an angle within 30 degrees perpendicular to the projector's IR remote control sensor to function correctly. The distance between the remote control and the sensor should not exceed 8 meters (~ 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, push on the finger grip on the cover and slide it in the direction of the arrow as illustrated. The cover will slide off.
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 sliding it back down into position. Stop when it clicks into place.



- **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 dead 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

---

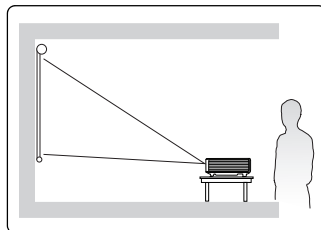
## Choosing a location

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 four 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.

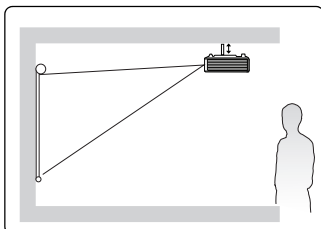


### 2. Front Ceiling

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.

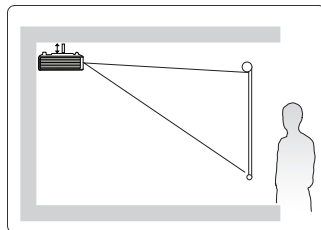


### 3. Rear Ceiling

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.

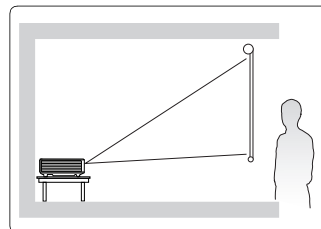


### 4. Rear Table

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.

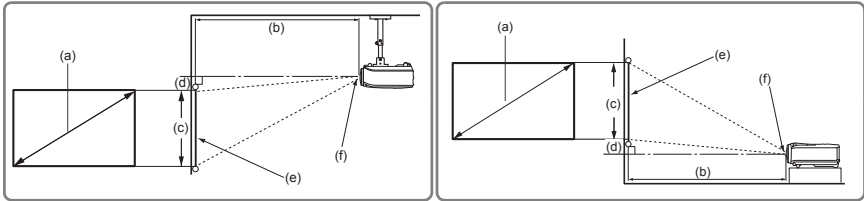


# Projection dimensions

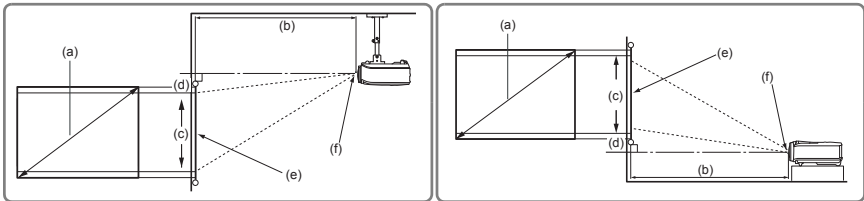
Refer to **"Dimensions"** on [page 58](#) for the center of lens dimensions of this projector before calculating the appropriate position.

 The **"screen"** mentioned below refers to the projection screen usually consisting of a 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<br>[inch (m)] | 16:9 image on a 16:9 Screen           |            |                                 |                                    | 16:9 image on a 4:3 Screen            |            |                                 |                                    |
|-------------------------------|---------------------------------------|------------|---------------------------------|------------------------------------|---------------------------------------|------------|---------------------------------|------------------------------------|
|                               | (b) Projection distance<br>[m (inch)] |            | (c) Image height<br>[cm (inch)] | (d) Vertical offset<br>[cm (inch)] | (b) Projection distance<br>[m (inch)] |            | (c) Image height<br>[cm (inch)] | (d) Vertical offset<br>[cm (inch)] |
|                               | min.                                  | max.       |                                 |                                    | min.                                  | max.       |                                 |                                    |
| 30 (0.8)                      | 0.77 (30)                             | 1.00 (39)  | 37.4 (15)                       | 2 (0.7)                            | 0.70 (28)                             | 0.91 (36)  | 34.3 (14)                       | 5.7 (2.3)                          |
| 40 (1.0)                      | 1.02 (40)                             | 1.33 (52)  | 49.8 (20)                       | 2 (1.0)                            | 0.94 (37)                             | 1.22 (48)  | 45.7 (18)                       | 7.6 (3.0)                          |
| 50 (1.3)                      | 1.28 (50)                             | 1.66 (65)  | 62.3 (25)                       | 3 (1.2)                            | 1.17 (46)                             | 1.52 (60)  | 57.2 (23)                       | 9.5 (3.8)                          |
| 60 (1.5)                      | 1.53 (60)                             | 1.99 (78)  | 74.7 (29)                       | 4 (1.5)                            | 1.41 (55)                             | 1.83 (72)  | 68.6 (27)                       | 11.4 (4.5)                         |
| 70 (1.8)                      | 1.79 (70)                             | 2.32 (92)  | 87.2 (34)                       | 4 (1.7)                            | 1.64 (65)                             | 2.13 (84)  | 80.0 (32)                       | 13.3 (5.3)                         |
| 80 (2.0)                      | 2.04 (80)                             | 2.66 (105) | 99.6 (39)                       | 5 (2.0)                            | 1.88 (74)                             | 2.44 (96)  | 91.4 (36)                       | 15.2 (6.0)                         |
| 90 (2.3)                      | 2.30 (91)                             | 2.99 (118) | 112.1 (44)                      | 6 (2.2)                            | 2.11 (83)                             | 2.74 (108) | 102.9 (41)                      | 17.1 (6.8)                         |
| 100 (2.5)                     | 2.55 (101)                            | 3.32 (131) | 124.5 (49)                      | 6 (2.5)                            | 2.34 (92)                             | 3.05 (120) | 114.3 (45)                      | 19.1 (7.5)                         |
| 120 (3.0)                     | 3.07 (121)                            | 3.98 (157) | 149.4 (59)                      | 7 (2.9)                            | 2.81 (111)                            | 3.66 (144) | 137.2 (54)                      | 22.9 (9.0)                         |
| 150 (3.8)                     | 3.83 (151)                            | 4.98 (196) | 186.8 (74)                      | 9 (3.7)                            | 3.52 (138)                            | 4.57 (180) | 171.5 (68)                      | 28.6 (11.3)                        |
| 200 (5.1)                     | 5.11 (201)                            | 6.64 (261) | 249.1 (98)                      | 12 (4.9)                           | 4.69 (185)                            | 6.10 (240) | 228.6 (90)                      | 38.1 (15.0)                        |
| 250 (6.4)                     | 6.39 (251)                            | 8.30 (327) | 311.3 (123)                     | 16 (6.1)                           | 5.86 (231)                            | 7.62 (300) | 285.8 (113)                     | 47.6 (18.8)                        |
| 300 (7.6)                     | 7.66 (302)                            | 9.96 (392) | 373.6 (147)                     | 19 (7.4)                           | 7.03 (277)                            | 9.14 (360) | 342.9 (135)                     | 57.2 (22.5)                        |

 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.

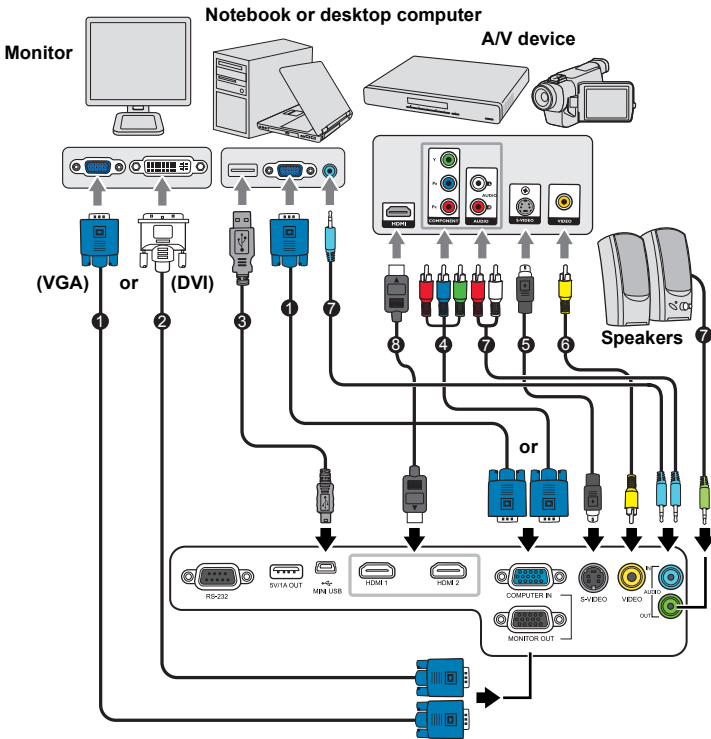
# Connection

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 15-18.



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

# Connecting a computer or monitor

## Connecting a computer

The projector provides two VGA input sockets that allow you to connect them to both IBM® compatibles and Macintosh® computers. A Mac adapter is needed if you are connecting legacy version Macintosh computers.

### To connect the projector to a notebook or desktop 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 paging 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:

### To connect the projector to a monitor:

1. Connect the projector to a computer as described in ["Connecting a computer" on page 15](#).
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 SYSTEM SETTING: BASIC > 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 a HDMI socket, you can enjoy uncompressed digital video quality.

See ["Connecting an HDMI device" on page 17](#) for how to connect the projector to a 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 17](#) 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 18](#) 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 18](#) for how to connect the projector to a composite Video device.

## Connecting audio

The projector has one built-in mono speaker 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.

### To connect the projector to an HDMI device:

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 1** or **HDMI 2** 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 24 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 16 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.

### To connect the projector to a Component Video source 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 16 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 adaptor  
(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.

### To connect the projector to an S-Video source 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 16 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 16 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.

### To connect the projector to a composite Video source 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.

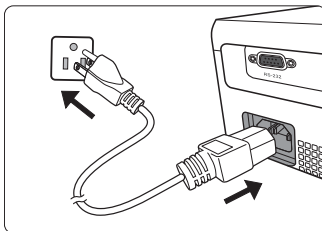


- **The projector is only capable of playing mixed mono audio, even if a stereo audio input is connected. See "Connecting audio" on page 16 for details.**
- **If the selected video image is not displayed after the projector is turned on and the correct video source has been selected, check that the Video 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 16 for details.**

# Operation

## 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. Press  **POWER** on the projector or remote control to start the projector. 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.**
3. If the projector is activated for the first time, select your OSD language following the on-screen instructions.
  4. Switch all of the connected equipment on.
  5. 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** on the projector or remote control to select your desired input signal. See "[Switching input signal](#)" on page 24 for details.

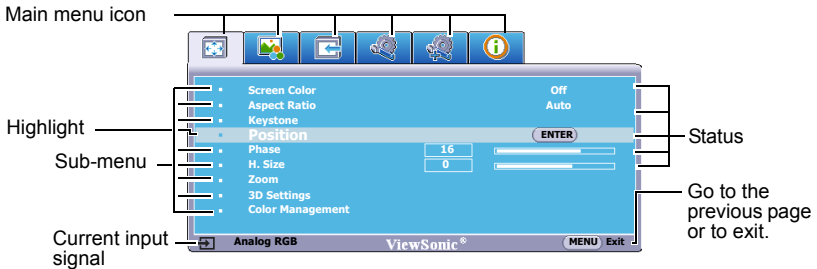
-  • **If the frequency/resolution of the input signal exceeds the projector's operating range, you will see the message 'Out of Range' displayed on a blank screen. Please change to an input signal which is compatible with the projector's resolution or set the input signal to a lower setting. See "[Timing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

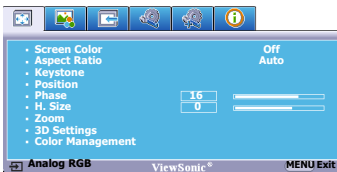
 The OSD screenshots below are for reference only, and may differ from the actual design.

Below is the overview of the OSD menu.

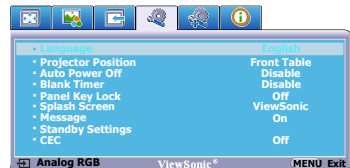


To use the OSD menus, please set them to your familiar language first.

1. Press **MENU/EXIT** on the projector or **Menu** on the remote control to turn the OSD menu on.



3. Press **✓** to highlight **Language** and press **</>** to select a preferred language.



2. Use **</>** to highlight the **SYSTEM SETTING: BASIC** menu.



4. Press **MENU/EXIT** twice\* on the projector or **Exit** on the remote control 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              |

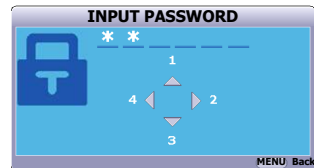
# Utilizing the password function

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 20](#).

 **You will be inconvenienced if you activate the password functionality and subsequently forget the password. Print this user manual (if necessary) and write the password you used in this manual, and keep it in a safe place for later use.**

## Setting a password

1. Open the OSD menu and go to the **SYSTEM SETTING: ADVANCED > Security Settings** menu. Press **MODE/ENTER** on the projector or **Enter** on the remote control. The **Security Settings** page is displayed.
2. Highlight **Power On Lock** and select **On** by pressing **</>**.
3. As pictured to the right, the four arrow keys (**<**, **^**, **v**, **>**) 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.
4. Confirm the new password by re-entering the new password.  
Once the password is set, the OSD menu returns to the **Security Settings** page.
5. To leave the OSD menu, press **MENU/EXIT** on the projector or **Exit** on the remote control.

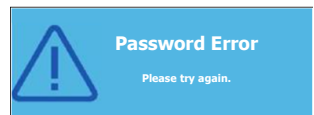


-  • **Once a password has been set, the projector cannot be used unless the correct password is entered every time the projector is started.**
- **The digits being input will be displayed as asterisks on-screen. Write your selected password down here in this user manual in advance or right after the password is entered so that it is available to you should you ever forget it.**
- Password:** \_ \_ \_ \_ \_ \_
- Keep this user manual in a safe place.**

## If you forget the password

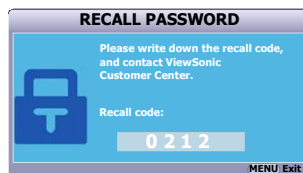
If the password function is activated, you will be asked to enter the six-digit password every time you turn on the projector. If you enter the wrong password, the password error message as pictured to the right is displayed lasting for three seconds, and the message 'INPUT PASSWORD' follows. You can 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 22](#) 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. Open the OSD menu and go to the **SYSTEM SETTING: ADVANCED > Security Settings > Change Password** menu.
2. Press **MODE/ENTER** on the projector or **Enter** on the remote control. The message **'INPUT CURRENT PASSWORD'** is displayed.
3. Press and hold **AUTO** on the projector or **Auto Sync** on the remote control for 3 seconds. The projector will display a coded number on the screen.
4. Write down the number and turn off your projector.
5. 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.



## Changing the password

1. Open the OSD menu and go to the **SYSTEM SETTING: ADVANCED > Security Settings > Change Password** menu.
2. Press **MODE/ENTER** on the projector or **Enter** on the remote control. 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 three seconds, and the message **'INPUT CURRENT PASSWORD'** is displayed for your retry. You can press **MENU/EXIT** on the projector or **Exit** on the remote control to cancel the change 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 **MENU/EXIT** on the projector or **Exit** on the remote control.

 The digits being input will be displayed as asterisks on-screen. Write your selected password down here in this user manual in advance or right after the password is entered so that it is available to you should you ever forget it.

Password: \_ \_ \_ \_ \_

Keep this user manual in a safe place.

## Disabling the password function

To disable password protection, go back to the **SYSTEM SETTING: ADVANCED > Security Settings > Power On Lock** menu after opening the OSD menu system. Select **Off** by pressing **</>**. 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 three seconds, and the message '**INPUT PASSWORD**' is displayed for your retry. You can press **MENU/EXIT** on the projector or **Exit** on the remote control to cancel the change 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.**

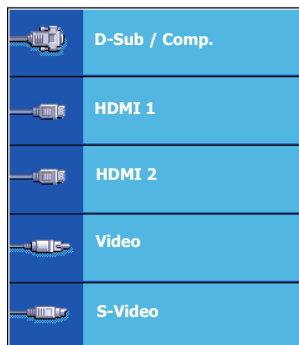
# Switching input signal

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** on the projector or remote control. A source selection bar is displayed.
2. Press **^** / **∨** until your desired signal is selected and press **MODE/ENTER** on the projector or **Enter** on the remote control. 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.



- The brightness level of the projected image will change accordingly when you switch between different input signals. Data (graphic) "PC" presentations using mostly static images are generally brighter than "Video" using mostly moving images (movies).
- The input signal type effects the options available for the Color Mode. See ["Selecting a picture mode" on page 29](#) for details.
- 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 27](#) 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 **SOURCE** menu.
2. Press **∨** to 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.

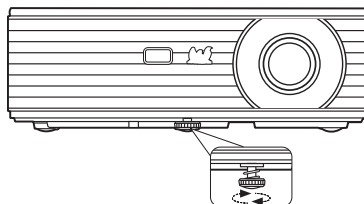
- **Auto:** Sets the projector to detect the color space setting of input signal automatically.
3. Press **✓** to highlight **HDMI Range** and press **</>** to select a suitable HDMI color range according to the color range setting of the output device connected.
    - **Enhanced:** Sets the HDMI color range as 0 - 255.
    - **Normal:** Sets the HDMI color range as 15 - 235.
- ☞ • **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 setting.**

## 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 26](#) 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

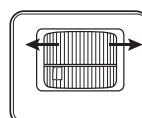
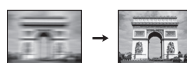
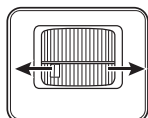
In some cases, you may need to optimize the picture quality. To do this, press **AUTO** on the projector or **Auto Sync** on the remote control. Within 3 seconds, the built-in Intelligent Auto Adjustment function will re-adjust the values of Frequency and Clock to provide the best picture quality.

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 is functioning.**
- **This function is only available when PC 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 is noticeably wider at either the top or bottom. It occurs when the projector is not perpendicular to the screen.

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

Press **▼/▲** on the projector or remote control to display the Keystone correction page. Press **▼** to correct keystoning at the top of the image. Press **▲** to correct keystoning at the bottom of the image.



- Using the OSD menu

- Press **MENU/EXIT** on the projector or **Menu** on the remote control and then press **</>** until the **DISPLAY** menu is highlighted.
- Press **▼** to highlight **Keystone** and press **MODE/ENTER** on the projector or **Enter** on the remote control. The **Keystone** correction page is displayed.
- Press **▲** to correct keystoning at the top of the image or press **▼** to correct keystoning at the bottom of the image.

## 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

- Press **Magnify** on the remote control to display the Zoom bar.
- Press **▲** repeatedly to magnify the picture to a desired size.
- To navigate the picture, press **MODE/ENTER** on the projector or **Enter** on the remote control to switch to the panning mode and press the directional arrows (**<**, **▲**, **▼**, **>**) to navigate the picture.
- To reduce size of the picture, press **MODE/ENTER** on the projector or **Enter** on the remote control to switch back to the zoom in/out functionality, and press **AUTO/Auto Sync** to restore the picture to its original size. You can also press **▼** repeatedly until it is restored to the original size.

- Using the OSD menu

- Press **MENU/EXIT** on the projector or **Menu** on the remote control and then press **</>** until the **DISPLAY** menu is highlighted.
- Press **▼** to highlight **Zoom** and press **MODE/ENTER** on the projector or **Enter** on the remote control. The Zoom bar is displayed.
- Repeat steps 2-4 in the section of Using the remote control above.



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

- Images can only be magnified up to 120% when the aspect ratio is Wide.**

# 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.

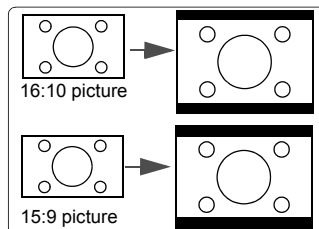
To change the projected image ratio (no matter what aspect the source is):

- Using the remote control
  1. Press **Aspect** to show the current setting.
  2. Press **Aspect** repeatedly to select an aspect ratio to suit the format of the video signal and your display requirements.
- Using the OSD menu
  1. Press **MENU/EXIT** on the projector or **Menu** on the remote control and then press **</>** until the **DISPLAY** menu is highlighted.
  2. Press **∨** to highlight **Aspect Ratio**.
  3. Press **</>** to select an aspect ratio to suit the format of the video signal and your display requirements.

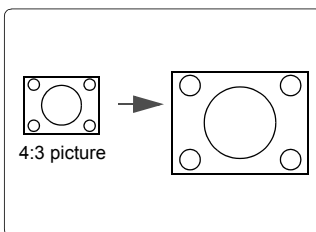
## About the aspect ratio

 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.

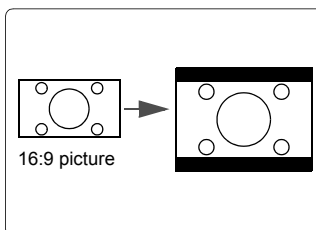
1. **Auto:** Scales an image proportionally to fit the projector's native resolution in its horizontal width. This is suitable for the incoming image which is neither in 4:3 nor 16:9 and you want to make most use of the screen without altering the image's aspect ratio.



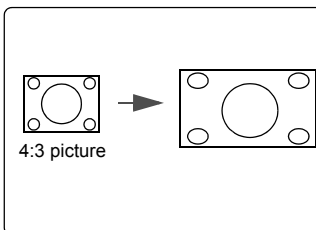
2. **4:3:** Scales an image so that it is displayed in the center of the screen with a 4:3 aspect ratio. This is most suitable for 4:3 images like computer monitors, standard definition TV and 4:3 aspect DVD movies, as it displays them without aspect alteration.



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. **Wide:** Scales a 4:3 aspect image vertically and horizontally in a non-linear manner so that it fills the screen with a 16:9 aspect ratio.



# 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 **MODE/ENTER** on the projector or **Color Mode** on the remote control 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.

#### PC input signals: D-Sub / Comp. (analog RGB)

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. **PC mode:** Is designed for presentations under daylight environment to match PC and notebook coloring.
3. **ViewMatch mode:** Switches between high brightness performance and accurate color performance.
4. **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.
5. **Dynamic PC 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.



**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.**

6. **Dynamic 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. In addition, the projector will optimize the image quality using the dynamic Movie function in accordance with the projected contents.



**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.**

7. **User 1/User 2 mode:** Recalls the settings customized based on the current available picture modes. See ["Setting the User 1/User 2 mode" on page 30](#) for details.

#### Video input signals: S-Video, Video, D-Sub / Comp. (YPbPr) / HDMI 1 / HDMI 2

1. **Brightest mode:** Optimized for daylight viewing, with living room level ambient brightness.
2. **Gaming mode:** Suitable for all types of entertainment media, including gaming and movies.
3. **ViewMatch mode:** Switches between high brightness performance and accurate color performance.

4. **Movie mode:** Is suitable for enjoying dark movies or DVD movies best viewed in a blackened (little light) home cinema or lounge room environment.
5. **Dynamic Movie mode:** Is suitable for enjoying dark movies or DVD movies best viewed in a blackened (little light) home cinema or lounge room environment. In addition, the projector will optimize the image quality using the dynamic Movie function in accordance with the projected contents.



**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.**

6. **User 1/User 2 mode:** Recalls the settings customized based on the current available picture modes. See "[Setting the User 1/User 2 mode](#)" on [page 30](#) for details.

## Setting the User 1/User 2 mode

There are two user-definable modes if the current available picture modes are not suitable for your need. You can use one of the picture modes (except the **User 1/User 2**) as a starting point and customize the settings.

1. Press **MENU/EXIT** on the projector or **Menu** on the remote control to open the On-Screen Display (OSD) menu.
2. Go to the **PICTURE > Color Mode** menu.
3. Press **</>** to select **User 1** or **User 2**.
4. Press **✓** to highlight **Reference Mode**.



**This function is only available when User 1 or User 2 mode is selected up in the Color Mode sub-menu item.**

5. Press **</>** to select a picture mode that is closest to your need.
6. Press **✓** to select a sub-menu item to be changed and adjust the value with **</>**.  
See [Fine-tuning the image quality in user modes](#) below for details.
7. When all settings have been done, highlight **Save Settings** and press **MODE/ENTER** on the projector or **Enter** on the remote control to store the settings.
8. The confirmation message '**Setting Saved**' is displayed.

## 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**.



**This function is only available when a PC type 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 when **User 1** or **User 2** mode is selected. You can make adjustments to these functions based on your needs.

When you are done making adjustments, remember to go to the **PICTURE > Save Settings** menu and press **MODE/ENTER** to save your settings.

## Adjusting Brightness

Highlight 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

Highlight 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

Highlight the **PICTURE** > **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.

## Adjusting Tint

Highlight the **PICTURE** > **Tint** menu and press </>.

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

## Adjusting Sharpness

Highlight the **PICTURE** > **Sharpness** menu and press </>.

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

## Adjusting Brilliant Color

Highlight the **PICTURE** > **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 **On**. If you don't need it, select **Off**.

When **Off** is selected, the **Color Temperature** function is not available.

## Reducing image noise

Highlight 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.

## Selecting a gamma setting

Highlight 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

Highlight the **PICTURE > Advanced > Color Temperature** menu and press **</>**.

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

1. **T1:** With the highest color temperature, T1 makes the image appear the most bluish white than other settings.
2. **T2:** Makes images appear bluish white.
3. **T3:** Maintains normal colorings for white.
4. **T4:** Makes images appear reddish white.

### \*About color temperatures:

There are many different shades that are considered to be "white" for various purposes. One of the common methods of representing white color is known as the "color temperature". A white color with a low color temperature appears to be reddish white. A white color with a high color temperature appears to have more blue in it.

## Setting a preferred color temperature

1. Highlight the **PICTURE > Advanced > Color Temperature** menu and select **T1**, **T2**, **T3** or **T4** and press **MODE/ENTER**.
2. Press **^** / **v** 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.

## 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.

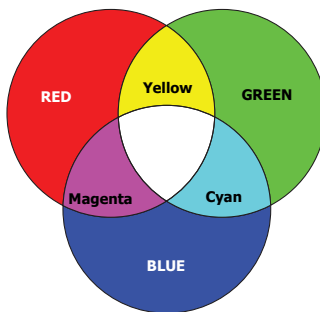
If you have purchased a test disc which contains various color test patterns and can be used to test the color presentation on monitors, TVs, projectors, etc., you can project any image from the disc on the screen and enter the **Color Management** menu to make adjustments.

### To adjust the settings:

1. Go to the **DISPLAY** menu and highlight **Color Management**.
2. Press **MODE/ENTER** on the projector or **Enter** on the remote control 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 **v** 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 **MENU/EXIT** on the projector or **Exit** on the remote control 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 **Timer** on the remote control to access the **Presentation Timer** menu or go to the **SYSTEM SETTING: ADVANCED > Presentation Timer** menu and press **MODE/ENTER** to display the **Presentation Timer** page.
2. 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.

3. 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.              |

4. Press **✓** to highlight **Timer Position** and set the timer position by pressing **</>**.

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

5. 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. |

6. 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.
7. To activate the presentation timer, press **✓** and press **</>** to highlight **Start Counting** and press **MODE/ENTER**.
8. A confirmation message displays. Highlight **Yes** and press **MODE/ENTER** on the projector or remote control 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: ADVANCED > Presentation Timer** menu and highlight **Off**. Press **MODE/ENTER**. A confirmation message displays.
2. Highlight **Yes** and press **MODE/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 use **<** on the projector or **Blank** on the remote control 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 **Economic 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 **>** on the projector or **Lock**  on the remote control, or go to the **SYSTEM SETTING: BASIC > Panel Key Lock** menu, and select **On** by pressing **</>** on the projector or remote control.
2. A confirmation message is displayed. Select **Yes** to confirm.

To release panel key lock, press and hold **>** on the projector or **Lock**  on the remote control for 3 seconds.

You can also use the remote control to enter the **SYSTEM SETTING: BASIC > 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.**

## Freezing the image

Press **Freeze** on the remote control to freeze the image. The word '**FREEZE**' will be displayed in the upper left corner of the screen. To release the function, press any key on the projector or remote control.

Even if an image is frozen on the screen, the pictures are running on the video or other device. If the connected devices have active audio output, you will still hear the audio even though the image is frozen on screen.

## 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.

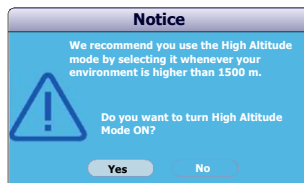


### CAUTION

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. Press **MENU/EXIT** on the projector or **Menu** on the remote control and then press **</>** until the **SYSTEM SETTING: ADVANCED** menu is highlighted.
2. Press **✓** to highlight **High Altitude Mode** and press **</>** to select **On**. A confirmation message is displayed.
3. Highlight **Yes** and press **MODE/ENTER** on the projector or **Enter** on the remote control.



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. Press **MENU/EXIT** on the projector or **Menu** on the remote control to open the On-Screen Display (OSD) menu.
2. Go to the **SYSTEM SETTING: BASIC > CEC** menu.
3. Press **</>** to select **On**.



- 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 a 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 **MENU/EXIT** on the projector or **Menu** on the remote control and then press **</>** until the **DISPLAY** menu is highlighted.
2. Press **✓** to highlight **3D Settings** and press **MODE/ENTER** on the projector or **Enter** on the remote control.
3. Press **✓** to highlight **3D Sync** and press **MODE/ENTER** on the projector or **Enter** on the remote control.
4. Press **✓** to select a **3D Sync** setting according to the table below and then press **MODE/ENTER** on the projector or **Enter** on the remote control 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 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 **SYSTEM SETTING: BASIC > Standby Settings**, and the cable connections are correctly made. For the connection methods, see the Connection chapter.

## Power Saving

Less than 0.5W power consumption when **Power Saving** mode is turned on.

 **When Off is selected, the projector is able to provide 5V/1A power in standby mode.**

## 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** and **AUDIO OUT** sockets are correctly connected to devices.

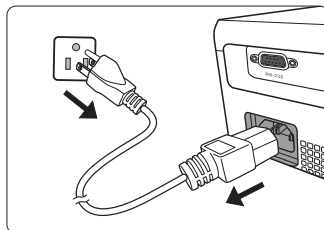
## Quick Power Off

Selecting **On** enables the function and the projector will not enter the cooling process after being shut down. Selecting **Off** disables the function and the projector will enter normal cooling process after being shut down.

- 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.
- When Off is selected, the Smart Restart function will be automatically turned off.

## 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. Disconnect the power cord from the wall socket if the projector will not be used in an extended period of time.



### 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 37](#) 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.<br>DISPLAY | Screen Color     |                                                                                                                                                              | Off/Blackboard/Greenboard/Whiteboard                                                                                             |
|               | Aspect Ratio     |                                                                                                                                                              | Auto/4:3/16:9/Wide                                                                                                               |
|               | Keystone         |                                                                                                                                                              |                                                                                                                                  |
|               | Position         |                                                                                                                                                              |                                                                                                                                  |
|               | Phase            |                                                                                                                                                              |                                                                                                                                  |
|               | H. Size          |                                                                                                                                                              |                                                                                                                                  |
|               | Zoom             |                                                                                                                                                              |                                                                                                                                  |
|               | 3D Settings      | 3D Sync                                                                                                                                                      | Auto/Off/Frame Sequential/Frame Packing/Top-Bottom/Side-by-Side                                                                  |
|               |                  | 3D Sync Invert                                                                                                                                               | Disable/Invert                                                                                                                   |
|               | Color Management | Primary Color                                                                                                                                                | R/G/B/C/M/Y                                                                                                                      |
| Hue           |                  |                                                                                                                                                              |                                                                                                                                  |
| Saturation    |                  |                                                                                                                                                              |                                                                                                                                  |
| Gain          |                  |                                                                                                                                                              |                                                                                                                                  |
| 2.<br>PICTURE | Color Mode       | PC source: Brightest/PC/ViewMatch/Movie/Dynamic PC/Dynamic Movie/User 1/User 2<br>Video source: Brightest/Gaming/ViewMatch/Movie/Dynamic Movie/User 1/User 2 |                                                                                                                                  |
|               |                  | Reference Mode                                                                                                                                               | PC source: Brightest/PC/ViewMatch/Movie/Dynamic PC/Dynamic Movie<br>Video source: Brightest/Gaming/ViewMatch/Movie/Dynamic Movie |
|               | Brightness       |                                                                                                                                                              |                                                                                                                                  |
|               | Contrast         |                                                                                                                                                              |                                                                                                                                  |
|               | Color            |                                                                                                                                                              |                                                                                                                                  |
|               | Tint             |                                                                                                                                                              |                                                                                                                                  |
|               | Sharpness        |                                                                                                                                                              |                                                                                                                                  |
|               | Brilliant Color  |                                                                                                                                                              | On/Off                                                                                                                           |
|               | Advanced         | Noise Reduction                                                                                                                                              |                                                                                                                                  |
|               |                  | Gamma                                                                                                                                                        | 1/2/3/4/5/6/7/8                                                                                                                  |
|               |                  | Color Temperature                                                                                                                                            | T1/T2/T3/T4                                                                                                                      |
|               | Save Settings    |                                                                                                                                                              |                                                                                                                                  |

| Main menu                                   | Sub-menu           |                                                                                                                                                                                | Options                                                            |
|---------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>3. SOURCE</b>                            | Quick Auto Search  |                                                                                                                                                                                | Off/On                                                             |
|                                             | HDMI Format        |                                                                                                                                                                                | RGB/YUV/Auto                                                       |
|                                             | HDMI Range         |                                                                                                                                                                                | Enhanced/Normal                                                    |
|                                             | DynamicEco Timer   |                                                                                                                                                                                | Disable/5 min/10 min/15 min/<br>30 min                             |
|                                             | Smart Restart      |                                                                                                                                                                                | Off/On                                                             |
|                                             | Pattern            |                                                                                                                                                                                | Off/01/02/03/04                                                    |
|                                             | My Button          | Projection (Projector Position)/3D Sync/Lamp Mode/<br>DCR/Closed Caption/Auto Off (Auto Power Off)/<br>Message/Screen Color/CEC/Auto Search (Quick Auto<br>Search)/Information |                                                                    |
| <b>4.<br/>SYSTEM<br/>SETTING:<br/>BASIC</b> | Language           |                                                                                                                                                                                | Multi-language OSD selection                                       |
|                                             | Projector Position |                                                                                                                                                                                | Front Table/Rear Table/Rear<br>Ceiling/Front Ceiling               |
|                                             | Auto Power Off     |                                                                                                                                                                                | Disable/5 min/10 min/20 min/<br>30 min/40 min/50 min/60 min        |
|                                             | Timer              | Blank Timer                                                                                                                                                                    | Disable/5 min/10 min/15 min/<br>20 min/25 min/30 min               |
|                                             |                    | Sleep Timer                                                                                                                                                                    | Off/30 min/1 hour/2 hours/<br>3 hours/4 hours/8 hours/<br>12 hours |
|                                             | Panel Key Lock     |                                                                                                                                                                                | On/Off                                                             |
|                                             | Splash Screen      |                                                                                                                                                                                | Black/Blue/ViewSonic/Off                                           |
|                                             | Message            |                                                                                                                                                                                | On/Off                                                             |
|                                             | Standby Settings   | Power Saving                                                                                                                                                                   | On/Off                                                             |
|                                             |                    | Active VGA Out                                                                                                                                                                 | On/Off                                                             |
|                                             |                    | Active Audio Out                                                                                                                                                               | On/Off                                                             |
|                                             |                    | Quick Power Off                                                                                                                                                                | On/Off                                                             |
|                                             | CEC                |                                                                                                                                                                                | On/Off                                                             |

| Main menu                                      | Sub-menu              | Options                                                                                                                                                        |
|------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>5.<br/>SYSTEM<br/>SETTING:<br/>ADVANCED</b> | High Altitude Mode    | On/Off                                                                                                                                                         |
|                                                | DCR                   | On/Off                                                                                                                                                         |
|                                                | Audio Settings        | Mute<br>Volume                                                                                                                                                 |
|                                                | Menu Settings         | Menu Display Time<br>5 sec/10 sec/15 sec/<br>20 sec/25 sec/30 sec                                                                                              |
|                                                |                       | Menu Position<br>Center/Top-Left/<br>Top-Right/Bottom-Left/<br>Bottom-Right                                                                                    |
|                                                | Closed Caption        | Closed Caption Enable<br>Caption Version                                                                                                                       |
|                                                |                       | On/Off<br>CC1/CC2/CC3/CC4                                                                                                                                      |
|                                                | Lamp Settings         | Lamp Mode<br>Reset Lamp Timer<br>Equivalent Lamp Hour                                                                                                          |
|                                                |                       | Normal/Economic                                                                                                                                                |
|                                                |                       |                                                                                                                                                                |
|                                                | Presentation Timer    | Timer Period<br>1~240 minutes                                                                                                                                  |
|                                                |                       | Timer Display<br>Always/1 min/2 min/3 min/<br>Never                                                                                                            |
|                                                |                       | Timer Position<br>Top-Left/Bottom-Left/<br>Top-Right/Bottom-Right                                                                                              |
|                                                |                       | Timer Counting<br>Direction<br>Count Down/Count Up                                                                                                             |
|                                                |                       | Sound Reminder<br>Start Counting/Off                                                                                                                           |
|                                                |                       |                                                                                                                                                                |
|                                                | Security Settings     | Change Password                                                                                                                                                |
|                                                |                       | Power On Lock<br>On/Off                                                                                                                                        |
|                                                | Remote Control Code   | A/B                                                                                                                                                            |
|                                                | Reset Settings        | Reset All Settings<br>Reset Color Settings                                                                                                                     |
|                                                |                       | Reset/Cancel                                                                                                                                                   |
| <b>6.<br/>INFORMATION</b>                      | Current System Status | <ul style="list-style-type: none"> <li>• Source</li> <li>• Color Mode</li> <li>• Resolution</li> <li>• Color System</li> <li>• Equivalent Lamp Hour</li> </ul> |
|                                                |                       |                                                                                                                                                                |

# Description of each menu

| Function        | Description      |                                                                                                                                                                                                                                        |
|-----------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. DISPLAY menu | Screen Color     | Corrects the projected picture's color when the projection surface is not white. See <a href="#">"Using Screen Color" on page 30</a> for details.                                                                                      |
|                 | Aspect Ratio     | There are several options to set the image's aspect ratio depending on your input signal source. See <a href="#">"Selecting the aspect ratio" on page 27</a> for details.                                                              |
|                 | Keystone         | Corrects any keystoneing of the image. See <a href="#">"Correcting keystone" on page 26</a> 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. |
|                 | Phase            | Adjusts the clock phase to reduce image distortion. <div>  </div>                                                                                     |
|                 | H. Size          | Adjusts the horizontal width of the image.                                                                                                                                                                                             |
|                 | Zoom             | Magnifies or reduces the projected image. See <a href="#">"Magnifying and searching for details" on page 26</a> for details.                                                                                                           |
|                 | 3D Settings      | See <a href="#">"Using the 3D functions" on page 37</a> for details.                                                                                                                                                                   |
|                 | Color Management | See <a href="#">"Color Management" on page 32</a> for details.                                                                                                                                                                         |

| Function        |                        | Description                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2. PICTURE menu | <b>Color Mode</b>      | Pre-defined picture modes are provided so you can optimize your projector image set-up to suit your program type. See <a href="#">"Selecting a picture mode" on page 29</a> for details.                                                                                                                                                                                  |
|                 | <b>Reference Mode</b>  | Selects a picture mode that most suits your need for the image quality and further fine-tune the image based on the selections listed on the same page below. See <a href="#">"Setting the User 1/User 2 mode" on page 30</a> for details.                                                                                                                                |
|                 | <b>Brightness</b>      | Adjusts the brightness of the image. See <a href="#">"Adjusting Brightness" on page 31</a> for details.                                                                                                                                                                                                                                                                   |
|                 | <b>Contrast</b>        | Adjusts the degree of difference between dark and light in the image. See <a href="#">"Adjusting Contrast" on page 31</a> for details.                                                                                                                                                                                                                                    |
|                 | <b>Color</b>           | Adjusts the color saturation level -- the amount of each color in a video image. See <a href="#">"Adjusting Color" on page 31</a> for details.                                                                                                                                                                                                                            |
|                 | <b>Tint</b>            | Adjusts the red and green color tones of the image. See <a href="#">"Adjusting Tint" on page 31</a> for details.<br> <b>The function is only available when Video or S-Video with NTSC system is selected.</b>                                                                           |
|                 | <b>Sharpness</b>       | Adjusts the image to make it look sharper or softer. See <a href="#">"Adjusting Sharpness" on page 31</a> for details.                                                                                                                                                                                                                                                    |
|                 | <b>Brilliant Color</b> | Adjusts white peaking while maintaining correct color presentation. See <a href="#">"Adjusting Brilliant Color" on page 31</a> for details.                                                                                                                                                                                                                               |
|                 | <b>Advanced</b>        | <b>Noise Reduction</b><br>See <a href="#">"Reducing image noise" on page 31</a> for details.<br><b>Gamma</b><br>See <a href="#">"Selecting a gamma setting" on page 31</a> for details.<br><b>Color Temperature</b><br>See <a href="#">"Selecting a Color Temperature" on page 32</a> and <a href="#">"Setting a preferred color temperature" on page 32</a> for details. |
|                 | <b>Save Settings</b>   | Saves the settings made for the <b>User 1</b> or <b>User 2</b> mode.                                                                                                                                                                                                                                                                                                      |

|                |  | Function                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------|--|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3. SOURCE menu |  | <b>Quick Auto Search</b> | See <a href="#">"Switching input signal" on page 24</a> for details.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                |  | <b>HDMI Format</b>       | See <a href="#">"Changing HDMI input settings" on page 24</a> for details.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                |  | <b>HDMI Range</b>        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                |  | <b>DynamicEco Timer</b>  | Allows the projector to decrease the power consumption automatically if no input signal is detected after a set period of time.<br> <b>It takes some time to initiate this function. Make sure the projector has been turned on for more than 4 minutes.</b>                                                                                                                                                                                                                                                                                                |
|                |  | <b>Smart Restart</b>     | Selecting <b>On</b> enables you to restart the projector immediately within 150 seconds after turning it off. After 150 seconds, if the projector is not turned on again, it will directly enter the standby mode.<br> <b>•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.</b><br><b>•When On is selected, the Quick Power Off function will be automatically set to "On".</b> |
|                |  | <b>Pattern</b>           | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                |  | <b>My Button</b>         | Sets a hotkey on remote control.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

|                               |  | Function                  | Description                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------|--|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4. SYSTEM SETTING: BASIC menu |  | <b>Language</b>           | Sets the language for the On-Screen Display (OSD) menus. See <a href="#">"Using the menus" on page 20</a> for details.                                                                                                                                                                                                                                          |
|                               |  | <b>Projector Position</b> | The projector can be installed on a ceiling or behind a screen, or with one or more mirrors. See <a href="#">"Choosing a location" on page 12</a> for details.                                                                                                                                                                                                  |
|                               |  | <b>Auto Power Off</b>     | Allows the projector to turn off automatically if no input signal is detected after a set period of time. See <a href="#">"Setting Auto Power Off" on page 49</a> for details.                                                                                                                                                                                  |
|                               |  | <b>Timer</b>              | <p><b>Blank Timer</b><br/>Sets the image blank time when the Blank feature is activated, once elapsed the image will return to the screen. See <a href="#">"Hiding the image" on page 35</a> for details.</p> <p><b>Sleep Timer</b><br/>Allows the projector to turn off automatically after a set period of time if the incoming signal is present or not.</p> |
|                               |  | <b>Panel Key Lock</b>     | Disables or enables all panel key functions except  <b>POWER</b> on the projector and keys on the remote control. See <a href="#">"Locking control keys" on page 35</a> for details.                                                                                           |
|                               |  | <b>Splash Screen</b>      | Allows you to select which logo screen will be displayed during projector start-up.                                                                                                                                                                                                                                                                             |
|                               |  | <b>Message</b>            | Selecting <b>On</b> displays the current information on the screen when the projector is detecting or searching for a signal.                                                                                                                                                                                                                                   |
|                               |  | <b>Standby Settings</b>   | See <a href="#">"Using the projector in standby mode" on page 37</a> for details.                                                                                                                                                                                                                                                                               |
|                               |  | <b>CEC</b>                | See <a href="#">"Using the CEC function" on page 36</a> for details.                                                                                                                                                                                                                                                                                            |

|                                  |  | Function                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------|--|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5. SYSTEM SETTING: ADVANCED menu |  | <b>High Altitude Mode</b> | A mode for operation in high altitude areas. See <a href="#">"Operating in a high altitude environment" on page 35</a> for details.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                  |  | <b>DCR</b>                | <p>Enables or disables the DCR (Dynamic Contrast Ratio) function. Selecting <b>On</b> enables the function and the projector will automatically switch the lamp mode between normal and economic modes according to the input image detected.</p> <p> <b>This function is only available when a PC source is in use.</b></p> <p> <b>After enabling DCR, frequent lamp mode switching may shorten lamp life and noise level will vary during operation.</b></p>                                                                                                                                                                 |
|                                  |  | <b>Audio Settings</b>     | <p>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 <a href="#">"Connection" on page 14</a> for more details.</p> <p><b>Mute</b><br/>Mutes the sound received from <b>AUDIO IN</b>.</p> <p><b>Volume</b><br/>Adjusts the sound level received from <b>AUDIO IN</b>.</p>                                                                                                                                                                                                                                                                                                                                                                                               |
|                                  |  | <b>Menu Settings</b>      | <p><b>Menu Display Time</b><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.</p> <p><b>Menu Position</b><br/>Sets the On-Screen Display (OSD) menu position.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                  |  | <b>Closed Caption</b>     | <p><b>Closed Caption Enable</b><br/>Activates the function by selecting <b>On</b> when the selected input signal carries closed captions.</p> <ul style="list-style-type: none"> <li>Captions: An on-screen display of the dialogue, narration, and sound effects of TV programs and videos that are closed captioned (usually marked as "CC" in TV listings).</li> </ul> <p> <b>This function is only available when a Composite video or S-Video input signal is selected and its system format is NTSC.</b></p> <p><b>Caption Version</b><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).</p> |
|                                  |  | <b>Lamp Settings</b>      | <p><b>Lamp Mode</b><br/>See <a href="#">"Setting Lamp Mode as Economic" on page 49</a> for details.</p> <p><b>Reset Lamp Timer</b><br/>See <a href="#">"Resetting the lamp timer" on page 53</a> for details.</p> <p><b>Equivalent Lamp Hour</b><br/>See <a href="#">"Getting to know the lamp hour" on page 49</a> for details on how the total lamp hour is calculated.</p>                                                                                                                                                                                                                                                                                                                                                                                                                    |

|                                  | Function                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5. SYSTEM SETTING: ADVANCED menu | <b>Presentation Timer</b>    | Reminds the presenter to finish the presentation within a certain time frame. See <a href="#">"Setting the presentation timer" on page 34</a> for details.                                                                                                                                                                                                                                                                            |
|                                  | <b>Security Settings</b>     | See <a href="#">"Utilizing the password function" on page 21</a> for details.                                                                                                                                                                                                                                                                                                                                                         |
|                                  | <b>Remote Control Code</b>   | See <a href="#">"Remote control code" on page 9</a> for details.                                                                                                                                                                                                                                                                                                                                                                      |
|                                  | <b>Reset Settings</b>        | <p><b>Reset All Settings</b><br/>Returns all settings to the factory preset values.</p> <p> <b>The following settings will still remain: Keystone, Language, Projector Position, High Altitude Mode, Security Settings, Remote Control Code.</b></p> <p><b>Reset Color Settings</b><br/>Returns all color settings to the factory preset values.</p> |
| 6. INFORMATION menu              | <b>Current System Status</b> | <p><b>Source</b><br/>Shows the current signal source.</p> <p><b>Color Mode</b><br/>Shows the selected mode in the <b>PICTURE</b> menu.</p> <p><b>Resolution</b><br/>Shows the native resolution of the input signal.</p> <p><b>Color System</b><br/>Shows input system format, NTSC, PAL, SECAM, or RGB.</p> <p><b>Equivalent Lamp Hour</b><br/>Displays the number of hours the lamp has been used.</p>                              |

# Maintenance

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## Care of the projector

Your projector needs little maintenance. The only thing you need to do on a regular basis is to keep the lens clean.

Never remove any parts of the projector except the lamp. Contact your dealer if other parts need 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 38](#) 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 feet.
- 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.

# 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. Press **MENU/EXIT** on the projector or **Menu** on the remote control and then press **</>** until the **SYSTEM SETTING: ADVANCED** menu is highlighted.
2. Press **✓** to highlight **Lamp Settings** and press **MODE/ENTER** on the projector or **ENTER** on the remote control. The **Lamp Settings** page is displayed.
3. You will see the **Equivalent lamp hour** information on the menu.
4. To leave the menu, press **MENU/EXIT** on the projector or **Exit** on the remote control.

You can also get the lamp hour information on the **INFORMATION** menu.

## 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 Economic

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

Setting the projector in **Economic** mode also extends the lamp operation life. To set **Economic** mode, go into the **SYSTEM SETTING: ADVANCED > Lamp Settings > Lamp Mode** menu and press **</>**.

### Setting Auto Power Off

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

To set **Auto Power Off**, go into the **SYSTEM SETTING: BASIC > Auto Power Off** menu and press **</>**. If the preset time lengths are not suitable for your presentation, select **Disable**. The projector will not automatically shut down in a certain time period.

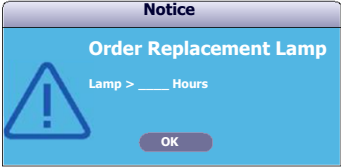
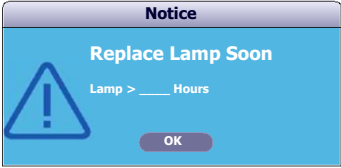
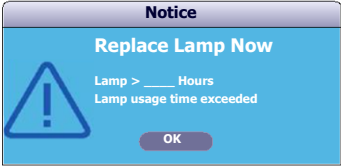
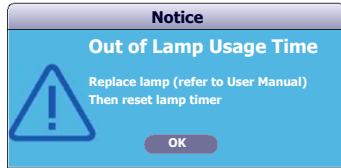
# Timing of replacing the lamp

When the **LAMP indicator light** lights up red or a message appears suggesting it is time to replace the lamp, please install a new lamp or consult your dealer. 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** or **TEMP** indicator still lights up after turning the power back on, please contact your dealer. See ["Indicators" on page 54](#) for details.

The following lamp warning displays will remind you to change the lamp.

| Status                                                                                                                                                                                                                                                                                                                                                              | Message                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Install a new lamp for optimal performance. If the projector is normally run with <b>Economic</b> selected (See <a href="#">"Setting Lamp Mode as Economic" on page 49</a> ), you may continue to operate the projector until the next hour lamp warning appears.                                                                                                   |    |
| A new lamp should be fitted to avoid the inconvenience when the projector runs out of lamp time.                                                                                                                                                                                                                                                                    |    |
| It is strongly recommended that you replace the lamp at this age. The lamp is a consumable item. The lamp brightness diminishes with use. This is normal lamp behavior. You can replace the lamp whenever you notice that the brightness level has significantly diminished. If the lamp is not replaced beforehand, it must be replaced when you see this message. |   |
| The lamp <b>MUST</b> be replaced before the projector will operate normally.                                                                                                                                                                                                                                                                                        |  |

# Replacing the lamp

To prepare a new lamp, contact your dealer and tell the lamp type number.

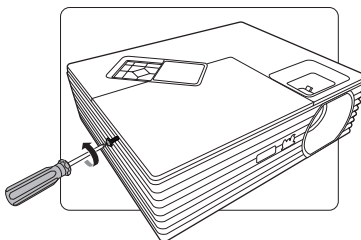
Type number: RLC-079

## WARNING

**Hg - Lamp contains mercury. Manage in accordance with local disposal laws. See [www.lamprecycle.org](http://www.lamprecycle.org)**

- Be careful of broken glass when replacing the lamp.
- Please wear eye protection and gloves when performing overhead installation.
- To reduce the risk of electrical shock, always turn the projector off and disconnect the power cord before changing the lamp.
- To reduce the risk of severe burns, allow the projector to cool for at least 45 minutes before replacing the lamp.
- To reduce the risk of injuries to fingers and damage to internal components, use caution when removing lamp glass that has shattered into sharp pieces. Before replacing the lamp, clean the lamp compartment and dispose of cleaning materials. Be careful of sharp edges in the lamp compartment. Wash hands after lamp replacement.
- Only ViewSonic certified lamps are tested with this projector. Use of other lamps may cause electrical shock and fire.

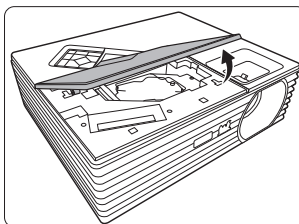
1. Turn the power off and disconnect the projector from the wall socket. If the lamp is hot, avoid burns by waiting for approximately 45 minutes until the lamp has cooled.
2. Loosen the screws that secure the lamp cover on the both sides of the projector until the lamp cover loosens.



3. Remove the lamp cover from the projector.

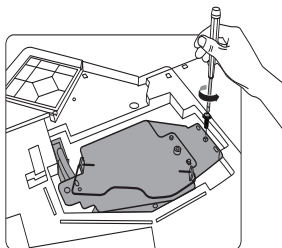
## WARNING

- Do not turn the power on with the lamp cover removed.
- Do not insert your fingers between the lamp and the projector. The sharp edges inside the projector may cause injuries.



Remove and dispose of the lamp protection film.

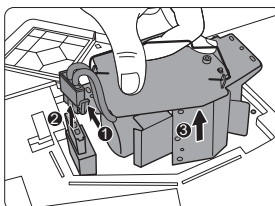
- 
4. Loosen the screw that secures the lamp.



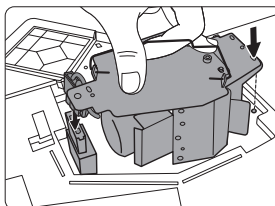
5. Disconnect the lamp's wire connector from the projector, and then lift the handle so that it stands up. Use the handle to slowly pull the lamp out of the projector.

 **CAUTION**

- Pulling it too quickly may cause the lamp to break and scatter broken glass in the projector.
- Do not place the lamp in locations where water might splash on it, children can reach it, or near flammable materials.
- Do not insert your hands into the projector after the lamp is removed. If you touch the optical components inside, it could cause color unevenness and distortion of the projected images.



6. Insert the new lamp into the lamp compartment and make sure it fits in the projector. Connect the new lamp's wire connector to the projector.

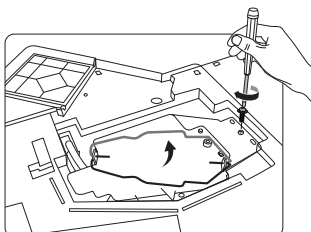


7. Tighten the screw that secures the lamp.

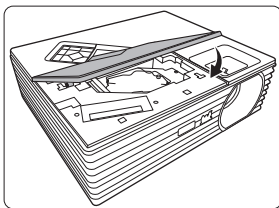
 **CAUTION**

- Loose screw may cause a bad connection, which could result in malfunction.
- Do not over tighten the screw.

8. Ensure the handle is fully laid flat and locked in place.



9. Place the lamp protection film supplied with the new lamp on the lamp compartment.
10. Replace the lamp cover on the projector.

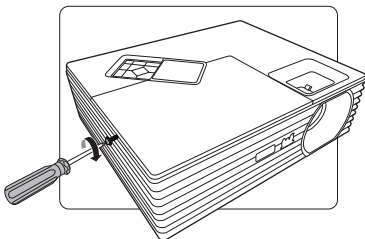


11. Tighten the screws that secure the lamp cover.



#### CAUTION

- **Loose screw may cause a bad connection, which could result in malfunction.**
- **Do not over tighten the screws.**



12. Restart the projector.

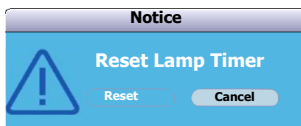


#### CAUTION

**Do not turn the power on with the lamp cover removed.**

### Resetting the lamp timer

13. After the startup logo, open the On-Screen Display (OSD) menu.
14. Go to the **SYSTEM SETTING: ADVANCED > Lamp Settings** menu. Press **MODE/ENTER** on the projector or **ENTER** on the remote control. The **Lamp Settings** page is displayed.
15. Press **✓** to highlight **Reset lamp timer** and press **MODE/ENTER** on the projector or **ENTER** on the remote control. A warning message is displayed asking if you want to reset the lamp timer.
16. Highlight **Reset** and press **MODE/ENTER** on the projector or **ENTER** on the remote control. The lamp time will be reset to '0'.



#### CAUTION

**Do not reset if the lamp is not new or replaced as this could cause damage.**

# Indicators

| Light          |      |      | Status & Description                                                                                                                                 |
|----------------|------|------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| POWER          | TEMP | LAMP |                                                                                                                                                      |
| 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                                                                                                                            |
| Lamp events    |      |      |                                                                                                                                                      |
| Blue Flashing  | Off  | Red  | The projector needs <b>60</b> seconds to cool down.                                                                                                  |
| Off            | Off  | Red  | The projector has shut down automatically. If you try to re-start the projector, it will shut down again. Please contact your dealer for assistance. |
| Blue           | Off  | Red  | CW start fail (30sec)                                                                                                                                |
| Thermal events |      |      |                                                                                                                                                      |
| Off            | Red  | Off  | The projector has shut down automatically. If you try to re-start the projector, it will shut down again. Please contact your dealer for assistance. |
| Off            | Red  | Red  |                                                                                                                                                      |
| Purple         | Red  | Red  |                                                                                                                                                      |

# Troubleshooting

---

## ⑦ 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.                                                                                                                         |

## ⑦ 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 <b>SOURCE</b> key on the projector or remote control. |

## ⑦ 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. |

## ⑦ 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) of the projector. |

# Specifications

---

## Projector specifications

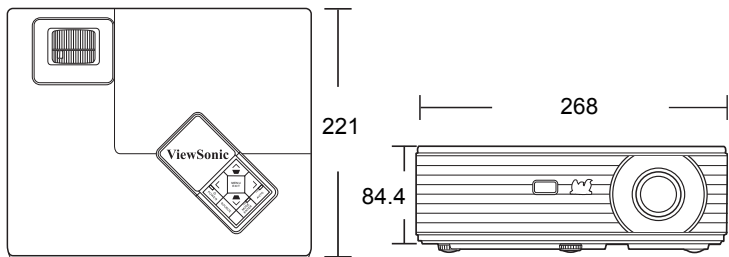
-  All specifications are subject to change without notice.
- Not all models can be purchased in your region.

|                       |                                                          |
|-----------------------|----------------------------------------------------------|
| <b>General</b>        |                                                          |
| Product name          | DLP Projector                                            |
| <b>Optical</b>        |                                                          |
| Resolution            | 1920 x 1080                                              |
| Display system        | 1-CHIP DMD                                               |
| Lamp                  | 210 W lamp                                               |
| <b>Electrical</b>     |                                                          |
| Power supply          | AC100–240V, 50–60 Hz (Automatic)                         |
| Power consumption     | 285 W (Max); < 0.5 W (Standby)                           |
| <b>Mechanical</b>     |                                                          |
| Weight                | 2.1 Kg (4.63 lbs)                                        |
| <b>Input terminal</b> |                                                          |
| 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  | D-Sub <--> Component RCA jack x 3<br>(through RGB input) |
|                       |                                                          |
| Analog –              |                                                          |
| Digital –             | HDMI V1.4a x 2                                           |
| Audio signal input    | PC audio jack x 1                                        |

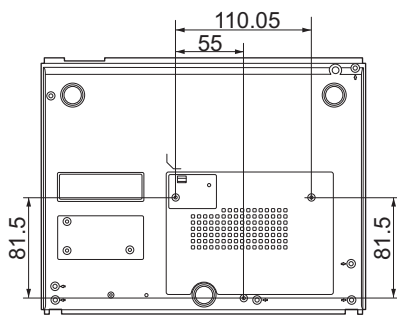
|                                   |                                                                                                                                             |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Output terminal</b>            |                                                                                                                                             |
| RGB output                        | D-Sub 15-pin (female) x 1                                                                                                                   |
| Audio signal output               | PC audio jack x 1                                                                                                                           |
| USB port                          | Type A x 1 (for 5V power)                                                                                                                   |
| Speaker                           | 2 watt x 1                                                                                                                                  |
| <b>Control terminal</b>           |                                                                                                                                             |
| RS-232 serial control             | 9 pin x 1                                                                                                                                   |
| LAN                               | N/A                                                                                                                                         |
| USB serial control                | Type mini B                                                                                                                                 |
| IR receiver                       | x 1 (Front)                                                                                                                                 |
| <b>Environmental Requirements</b> |                                                                                                                                             |
| Operating temperature             | 0°C–40°C at sea level                                                                                                                       |
| Operating relative humidity       | 10%–90% (without condensation)                                                                                                              |
| Operating altitude                | <ul style="list-style-type: none"> <li>0–1499 m at 5°C–35°C</li> <li>1500–3000 m at 5°C–25°C (with <b>High Altitude Mode</b> on)</li> </ul> |

# Dimensions

268 mm (W) x 84.4 mm (H) x 221 mm (D) (Excluding extrusions)



# Ceiling mount installation



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

Unit: mm

# Timing chart

## Supported timing for PC input

| Resolution      | Mode                           | Vertical Frequency (Hz) | Horizontal Frequency (kHz) | Pixel Frequency (MHz) |
|-----------------|--------------------------------|-------------------------|----------------------------|-----------------------|
| 720 x 400       | 720x400_70                     | 70.087                  | 31.469                     | 28.3221               |
| 640 x 480       | VGA_60**                       | 59.940                  | 31.469                     | 25.175                |
|                 | VGA_72                         | 72.809                  | 37.861                     | 31.500                |
|                 | VGA_75                         | 75.000                  | 37.500                     | 31.500                |
|                 | VGA_85                         | 85.008                  | 43.269                     | 36.000                |
| 800 x 600       | SVGA_60**                      | 60.317                  | 37.879                     | 40.000                |
|                 | SVGA_72                        | 72.188                  | 48.077                     | 50.000                |
|                 | SVGA_75                        | 75.000                  | 46.875                     | 49.500                |
|                 | SVGA_85                        | 85.061                  | 53.674                     | 56.250                |
|                 | SVGA_120*<br>(Reduce Blanking) | 119.854                 | 77.425                     | 83.000                |
| 1024 x 768      | XGA_60**                       | 60.004                  | 48.363                     | 65.000                |
|                 | XGA_70                         | 70.069                  | 56.476                     | 75.000                |
|                 | XGA_75                         | 75.029                  | 60.023                     | 78.750                |
|                 | XGA_85                         | 84.997                  | 68.667                     | 94.500                |
|                 | XGA_120*<br>(Reduce Blanking)  | 119.989                 | 97.551                     | 115.500               |
| 1280 x 720      | 1280x720_120*                  | 120                     | 90.000                     | 148.500               |
| 1280 x 800      | WXGA_60**                      | 59.810                  | 49.702                     | 83.500                |
|                 | WXGA_75                        | 74.934                  | 62.795                     | 106.500               |
|                 | WXGA_85                        | 84.880                  | 71.554                     | 122.500               |
| 1280 x 1024     | SXGA_60**                      | 60.020                  | 63.981                     | 108.000               |
|                 | SXGA_75                        | 75.025                  | 79.976                     | 135.000               |
|                 | SXGA_85                        | 85.024                  | 91.146                     | 157.500               |
| 1280 x 960      | 1280 x 960_60**                | 60.000                  | 60.000                     | 108                   |
| 1400 x 1050     | SXGA+ 60**                     | 59.978                  | 65.317                     | 121.750               |
| 1600 x 1200     | UXGA**                         | 60.000                  | 75.000                     | 162.000               |
| 640 x 480@67Hz  | MAC13                          | 66.667                  | 35.000                     | 30.240                |
| 832 x 624@75Hz  | MAC16                          | 74.546                  | 49.722                     | 57.280                |
| 1152 x 870@75Hz | MAC21                          | 75.06                   | 68.68                      | 100.00                |



• \*Supported timing for 3D signal with Frame Sequential format.

- \*\*Supported timing for 3D signal with Frame Sequential, Top-Bottom, and Side-by-Side formats.

## Supported timing for Component-YPbPr input

| Timing   | Resolution  | Horizontal frequency (KHz) | Vertical Frequency (Hz) | Dot Clock Frequency (MHz) |
|----------|-------------|----------------------------|-------------------------|---------------------------|
| 480i*    | 720 x 480   | 15.73                      | 59.94                   | 13.5                      |
| 480p*    | 720 x 480   | 31.47                      | 59.94                   | 27                        |
| 576i*    | 720 x 576   | 15.63                      | 50                      | 13.5                      |
| 576p*    | 720 x 576   | 31.25                      | 50                      | 27                        |
| 720/50p  | 1280 x 720  | 37.5                       | 50                      | 74.25                     |
| 720/60p  | 1280 x 720  | 45.00                      | 60                      | 74.25                     |
| 1080/50i | 1920 x 1080 | 28.13                      | 50                      | 74.25                     |
| 1080/60i | 1920 x 1080 | 33.75                      | 60                      | 74.25                     |
| 1080/50P | 1920 x 1080 | 56.25                      | 50                      | 148.5                     |
| 1080/60P | 1920 x 1080 | 67.5                       | 60                      | 148.5                     |

 \*Supported timing for 3D signal with Frame Sequential format.

## Supported timing for Video and S-Video inputs

| Video mode | Horizontal Frequency (kHz) | Vertical Frequency (Hz) | Color sub-carrier Frequency (MHz) |
|------------|----------------------------|-------------------------|-----------------------------------|
| NTSC*      | 15.73                      | 60                      | 3.58                              |
| PAL*       | 15.63                      | 50                      | 4.43                              |
| SECAM*     | 15.63                      | 50                      | 4.25 or 4.41                      |
| PAL-M*     | 15.73                      | 60                      | 3.58                              |
| PAL-N*     | 15.63                      | 50                      | 3.58                              |
| PAL-60*    | 15.73                      | 60                      | 4.43                              |
| NTSC4.43*  | 15.73                      | 60                      | 4.43                              |

 \*Supported timing for 3D signal with Frame Sequential format.

## Supported timing for HDMI input

| Video Mode   | Resolution      | Horizontal frequency (KHz) | Vertical Frequency (Hz) | Dot Clock Frequency (MHz) |
|--------------|-----------------|----------------------------|-------------------------|---------------------------|
| 480i*        | 720(1440) x 480 | 15.73                      | 59.94                   | 27                        |
| 480p****     | 720 x 480       | 31.47                      | 59.94                   | 27                        |
| 576i*        | 720(1440) x 576 | 15.63                      | 50                      | 27                        |
| 576p****     | 720 x 576       | 31.25                      | 50                      | 27                        |
| 720/50p***   | 1280 x 720      | 37.5                       | 50                      | 74.25                     |
| 720/60p***   | 1280 x 720      | 45.00                      | 60                      | 74.25                     |
| 1080/50i**** | 1920 x 1080     | 28.13                      | 50                      | 74.25                     |
| 1080/60i**** | 1920 x 1080     | 33.75                      | 60                      | 74.25                     |
| 1080/24P**   | 1920 x 1080     | 27                         | 24                      | 74.25                     |
| 1080/50P     | 1920 x 1080     | 56.25                      | 50                      | 148.5                     |
| 1080/60P     | 1920 x 1080     | 67.5                       | 60                      | 148.5                     |



- **\*Supported timing for 3D signal with Frame Sequential format.**
- **\*\*Supported timing for 3D signal with Frame Packing and Top-Bottom formats.**
- **\*\*\*Supported timing for 3D signal with Frame Sequential, Frame Packing, and Top-Bottom formats.**
- **\*\*\*\*Supported timing for 3D signal with Side-by-Side format.**
- **\*\*\*\*\*Supported timing for 3D signal with Frame Sequential and Top-Bottom formats.**

| Resolution  | Mode                           | Vertical Frequency (Hz) | Horizontal Frequency (kHz) | Pixel Frequency (MHz) |
|-------------|--------------------------------|-------------------------|----------------------------|-----------------------|
| 720 x 400   | 720x400_70                     | 70.087                  | 31.469                     | 28.3221               |
| 640 x 480   | VGA_60**                       | 59.940                  | 31.469                     | 25.175                |
|             | VGA_72                         | 72.809                  | 37.861                     | 31.500                |
|             | VGA_75                         | 75.000                  | 37.500                     | 31.500                |
|             | VGA_85                         | 85.008                  | 43.269                     | 36.000                |
| 800 x 600   | SVGA_60**                      | 60.317                  | 37.879                     | 40.000                |
|             | SVGA_72                        | 72.188                  | 48.077                     | 50.000                |
|             | SVGA_75                        | 75.000                  | 46.875                     | 49.500                |
|             | SVGA_85                        | 85.061                  | 53.674                     | 56.250                |
|             | SVGA_120*<br>(Reduce Blanking) | 119.854                 | 77.425                     | 83.000                |
| 1024 x 768  | XGA_60**                       | 60.004                  | 48.363                     | 65.000                |
|             | XGA_70                         | 70.069                  | 56.476                     | 75.000                |
|             | XGA_75                         | 75.029                  | 60.023                     | 78.750                |
|             | XGA_85                         | 84.997                  | 68.667                     | 94.500                |
|             | XGA_120*<br>(Reduce Blanking)  | 119.989                 | 97.551                     | 115.500               |
| 1280 x 720  | 1280x720_120*                  | 120                     | 90.000                     | 148.500               |
| 1280 x 800  | WXGA_60**                      | 59.810                  | 49.702                     | 83.500                |
|             | WXGA_75                        | 74.934                  | 62.795                     | 106.500               |
|             | WXGA_85                        | 84.880                  | 71.554                     | 122.500               |
| 1280 x 1024 | SXGA_60**                      | 60.020                  | 63.981                     | 108.000               |
|             | SXGA_75                        | 75.025                  | 79.976                     | 135.000               |
|             | SXGA_85                        | 85.024                  | 91.146                     | 157.500               |
| 1280 x 960  | 1280 x 960_60**                | 60.000                  | 60.000                     | 108                   |

|                 |            |        |        |         |
|-----------------|------------|--------|--------|---------|
| 1400 x1050      | SXGA+ 60** | 59.978 | 65.317 | 121.750 |
| 1600 x1200      | UXGA**     | 60.000 | 75.000 | 162.000 |
| 640 x 480@67Hz  | MAC13      | 66.667 | 35.000 | 30.240  |
| 832 x 624@75Hz  | MAC16      | 74.546 | 49.722 | 57.280  |
| 1152 x 870@75Hz | MAC21      | 75.06  | 68.68  | 100.00  |

- ☞ • **\*Supported timing for 3D signal with Frame Sequential format.**
- **\*\*Supported timing for 3D signal with Frame Sequential, Top-Bottom, and Side-by-Side formats.**

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## IR control table

### Code A

| Key            | Format | Byte1 | Byte2 | Byte3 | Byte4 |
|----------------|--------|-------|-------|-------|-------|
| Power          | NEC    | 83    | F4    | 17    | E8    |
| Auto Sync      | NEC    | 83    | F4    | 08    | F7    |
| VGA            | NEC    | 83    | F4    | 41    | BE    |
| Video          | NEC    | 83    | F4    | 52    | AD    |
| Source         | NEC    | 83    | F4    | 04    | FB    |
| Color Mode     | NEC    | 83    | F4    | 10    | EF    |
| Up / KeyS +    | NEC    | 83    | F4    | 0B    | F4    |
| Left           | NEC    | 83    | F4    | 0E    | F1    |
| Enter          | NEC    | 83    | F4    | 15    | EA    |
| Right          | NEC    | 83    | F4    | 0F    | F0    |
| Down / KeyS -  | NEC    | 83    | F4    | 0C    | F3    |
| Menu           | NEC    | 83    | F4    | 30    | CF    |
| My Button      | NEC    | 83    | F4    | 56    | A9    |
| Exit           | NEC    | 83    | F4    | 28    | D7    |
| Mouse L key    | NEC    | 83    | F4    | 36    | C9    |
| Mouse R key    | NEC    | 83    | F4    | 37    | C8    |
| PgUp           | NEC    | 83    | F4    | 05    | FA    |
| PgDn           | NEC    | 83    | F4    | 06    | F9    |
| Mouse          | NEC    | 83    | F4    | 31    | CE    |
| Magnify        | NEC    | 83    | F4    | 32    | CD    |
| Volume +       | NEC    | 83    | F4    | 82    | 7D    |
| Volume -       | NEC    | 83    | F4    | 83    | 7C    |
| Panel Key Lock | NEC    | 83    | F4    | 57    | A8    |
| Freeze         | NEC    | 83    | F4    | 03    | FC    |
| Pattern        | NEC    | 83    | F4    | 55    | AA    |
| Blank          | NEC    | 83    | F4    | 07    | F8    |
| Mute           | NEC    | 83    | F4    | 14    | EB    |
| DynamicEco™    | NEC    | 83    | F4    | 2B    | D4    |
| Timer          | NEC    | 83    | F4    | 27    | D8    |
| Aspect         | NEC    | 83    | F4    | 13    | EC    |



# Code B

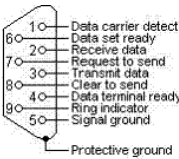
| Key            | Format | Byte1 | Byte2 | Byte3 | Byte4 |
|----------------|--------|-------|-------|-------|-------|
| Power          | NEC    | 83    | F4    | 60    | 9F    |
| Auto Sync      | NEC    | 83    | F4    | 63    | 9C    |
| VGA            | NEC    | 83    | F4    | 64    | 9B    |
| Video          | NEC    | 83    | F4    | 66    | 99    |
| Source         | NEC    | 83    | F4    | 7D    | 82    |
| Color Mode     | NEC    | 83    | F4    | 9E    | 61    |
| Up / KeyS +    | NEC    | 83    | F4    | 67    | 98    |
| Left           | NEC    | 83    | F4    | 69    | 96    |
| Enter          | NEC    | 83    | F4    | 6B    | 94    |
| Right          | NEC    | 83    | F4    | 6A    | 95    |
| Down / KeyS -  | NEC    | 83    | F4    | 68    | 97    |
| Menu           | NEC    | 83    | F4    | 6C    | 93    |
| My Button      | NEC    | 83    | F4    | 6D    | 92    |
| Exit           | NEC    | 83    | F4    | 6E    | 91    |
| Mouse L key    | NEC    | 83    | F4    | 38    | C7    |
| Mouse R key    | NEC    | 83    | F4    | 39    | C6    |
| PgUp           | NEC    | 83    | F4    | 5C    | A3    |
| PgDn           | NEC    | 83    | F4    | 5D    | A2    |
| Mouse          | NEC    | 83    | F4    | 9B    | 64    |
| Magnify        | NEC    | 83    | F4    | 99    | 66    |
| Volume +       | NEC    | 83    | F4    | 5A    | A5    |
| Volume -       | NEC    | 83    | F4    | 5B    | A4    |
| Panel Key Lock | NEC    | 83    | F4    | 5E    | A1    |
| Freeze         | NEC    | 83    | F4    | 61    | 9E    |
| Pattern        | NEC    | 83    | F4    | 7E    | 81    |
| Blank          | NEC    | 83    | F4    | 62    | 9D    |
| Mute           | NEC    | 83    | F4    | 9D    | 62    |
| DynamicEco™    | NEC    | 83    | F4    | 7F    | 80    |
| Timer          | NEC    | 83    | F4    | 9C    | 63    |
| Aspect         | NEC    | 83    | F4    | 9A    | 65    |



# 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   | CTSΖ        |
| 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 |
| 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   | Lamp Mode Normal             | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x10 0x00 0x6D      |
|                      |         | Lamp Mode Economic           | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x10 0x01 0x6E      |
|                      | 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 Wide               | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x06 0x68      |
|                     | Read   | Aspect ratio                    | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x04 0x63 |
| Auto Adjust         | Excute |                                 | 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 temperatureT1             | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x08 0x00 0x66      |
|                     |        | color temperatureT2             | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x08 0x01 0x67      |
|                     |        | color temperatureT3             | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x08 0x02 0x68      |
|                     |        | color temperatureT4             | 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 |

|               |       |                      |                                                        |
|---------------|-------|----------------------|--------------------------------------------------------|
| 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      |
|               |       | User 1               | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x02 0x6B      |
|               |       | User 2               | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x03 0x6C      |
|               |       | PC / Gaming          | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x04 0x6D      |
|               |       | ViewMatch            | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x05 0x6E      |
|               |       | Dynamic PC           | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x06 0x6F      |
|               |       | Dynamic Movie        | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x07 0x70      |
|               | 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 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      |
|           |       | தமிழ்                 | 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      |
| Lamp Time | Read  | Language              | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x15 0x00 0x62 |
|           | 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       |
|                     | 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  |
| Quick Power Off     | Write | Quick Power Off set Off    | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x0B 0x00 0x68       |
|                     |       | Quick Power Off set 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  |
| Brilliant Color     | Write | Brilliant Color Off        | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x00 0x6D       |
|                     |       | Brilliant Color On         | 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x01 0x6E       |
|                     | Read  | Brilliant Color status     | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x0F 0x6E  |
| Remote control code | Write | Remote control code A      | 0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x00 0xA0       |
|                     |       | Remote control code B      | 0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x01 0xA1       |
|                     | Read  | Remote control code status | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x0C 0x048 0xA1 |

|       |       |              |                                                        |
|-------|-------|--------------|--------------------------------------------------------|
| Gamma | Write | Gamma 1      | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x2C 0x01 0x8A      |
|       |       | Gamma 2      | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x2C 0x02 0x8B      |
|       |       | Gamma 3      | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x2C 0x03 0x8C      |
|       |       | Gamma 4      | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x2C 0x04 0x8D      |
|       |       | Gamma 5      | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x2C 0x05 0x8E      |
|       |       | Gamma 6      | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x2C 0x06 0x8F      |
|       |       | Gamma 7      | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x2C 0x07 0x90      |
|       |       | Gamma 8      | 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x2C 0x08 0x91      |
|       | Read  | Gamma status | 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x2C 0x8A |

# 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                                                                                                                                                                                                                                                                   | <a href="http://www.viewsonic.com.au">www.viewsonic.com.au</a>       | AUS= 1800 880 818<br>NZ= 0800 008 822                                                                                                                     | <a href="mailto:service@au.viewsonic.com">service@au.viewsonic.com</a>                                                                     |
| Canada                                                                                                                                                                                                                                                                                     | <a href="http://www.viewsonic.com">www.viewsonic.com</a>             | T (Toll-Free)= 1-866-463-4775<br>T (Toll)= 1-424-233-2533                                                                                                 | <a href="mailto:service.ca@viewsonic.com">service.ca@viewsonic.com</a>                                                                     |
| Europe                                                                                                                                                                                                                                                                                     | <a href="http://www.viewsoniceurope.com">www.viewsoniceurope.com</a> | <a href="http://www.viewsoniceurope.com/uk/support/call-desk/">www.viewsoniceurope.com/uk/support/call-desk/</a>                                          |                                                                                                                                            |
| Hong Kong                                                                                                                                                                                                                                                                                  | <a href="http://www.hk.viewsonic.com">www.hk.viewsonic.com</a>       | T= 852 3102 2900                                                                                                                                          | <a href="mailto:service@hk.viewsonic.com">service@hk.viewsonic.com</a>                                                                     |
| India                                                                                                                                                                                                                                                                                      | <a href="http://www.in.viewsonic.com">www.in.viewsonic.com</a>       | T= 1800 266 0101                                                                                                                                          | <a href="mailto:service@in.viewsonic.com">service@in.viewsonic.com</a>                                                                     |
| Korea                                                                                                                                                                                                                                                                                      | <a href="http://ap.viewsonic.com/kr/">ap.viewsonic.com/kr/</a>       | T= 080 333 2131                                                                                                                                           | <a href="mailto:service@kr.viewsonic.com">service@kr.viewsonic.com</a>                                                                     |
| Latin America<br>(Argentina)                                                                                                                                                                                                                                                               | <a href="http://www.viewsonic.com/la/">www.viewsonic.com/la/</a>     | C= <a href="http://www.viewsonic.com/la/soporte/servicio-tecnico">http://www.viewsonic.com/la/soporte/servicio-tecnico</a>                                | <a href="mailto:soporte@viewsonic.com">soporte@viewsonic.com</a>                                                                           |
| Latin America<br>(Chile)                                                                                                                                                                                                                                                                   | <a href="http://www.viewsonic.com/la/">www.viewsonic.com/la/</a>     | C= <a href="http://www.viewsonic.com/la/soporte/servicio-tecnico">http://www.viewsonic.com/la/soporte/servicio-tecnico</a>                                | <a href="mailto:soporte@viewsonic.com">soporte@viewsonic.com</a>                                                                           |
| Latin America<br>(Columbia)                                                                                                                                                                                                                                                                | <a href="http://www.viewsonic.com/la/">www.viewsonic.com/la/</a>     | C= <a href="http://www.viewsonic.com/la/soporte/servicio-tecnico">http://www.viewsonic.com/la/soporte/servicio-tecnico</a>                                | <a href="mailto:soporte@viewsonic.com">soporte@viewsonic.com</a>                                                                           |
| Latin America<br>(Mexico)                                                                                                                                                                                                                                                                  | <a href="http://www.viewsonic.com/la/">www.viewsonic.com/la/</a>     | C= <a href="http://www.viewsonic.com/la/soporte/servicio-tecnico">http://www.viewsonic.com/la/soporte/servicio-tecnico</a>                                | <a href="mailto:soporte@viewsonic.com">soporte@viewsonic.com</a>                                                                           |
| 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 <a href="http://www.viewsonic.com/la/soporte/servicio-tecnico#mexico">http://www.viewsonic.com/la/soporte/servicio-tecnico#mexico</a> |                                                                      |                                                                                                                                                           |                                                                                                                                            |
| Latin America<br>(Peru)                                                                                                                                                                                                                                                                    | <a href="http://www.viewsonic.com/la/">www.viewsonic.com/la/</a>     | C= <a href="http://www.viewsonic.com/la/soporte/servicio-tecnico">http://www.viewsonic.com/la/soporte/servicio-tecnico</a>                                | <a href="mailto:soporte@viewsonic.com">soporte@viewsonic.com</a>                                                                           |
| Macau                                                                                                                                                                                                                                                                                      | <a href="http://www.hk.viewsonic.com">www.hk.viewsonic.com</a>       | T= 853 2870 0303                                                                                                                                          | <a href="mailto:service@hk.viewsonic.com">service@hk.viewsonic.com</a>                                                                     |
| Middle East                                                                                                                                                                                                                                                                                | <a href="http://ap.viewsonic.com/me/">ap.viewsonic.com/me/</a>       | Contact your reseller                                                                                                                                     | <a href="mailto:service@ap.viewsonic.com">service@ap.viewsonic.com</a>                                                                     |
| Puerto Rico &<br>Virgin Islands                                                                                                                                                                                                                                                            | <a href="http://www.viewsonic.com">www.viewsonic.com</a>             | T= 1-800-688-6688 (English)<br>C= <a href="http://www.viewsonic.com/la/soporte/servicio-tecnico">http://www.viewsonic.com/la/soporte/servicio-tecnico</a> | <a href="mailto:service.us@viewsonic.com">service.us@viewsonic.com</a><br><a href="mailto:soporte@viewsonic.com">soporte@viewsonic.com</a> |
| Singapore/<br>Malaysia/Thailand                                                                                                                                                                                                                                                            | <a href="http://www.ap.viewsonic.com">www.ap.viewsonic.com</a>       | T= 65 6461 6044                                                                                                                                           | <a href="mailto:service@sg.viewsonic.com">service@sg.viewsonic.com</a>                                                                     |
| South Africa                                                                                                                                                                                                                                                                               | <a href="http://ap.viewsonic.com/za/">ap.viewsonic.com/za/</a>       | Contact your reseller                                                                                                                                     | <a href="mailto:service@ap.viewsonic.com">service@ap.viewsonic.com</a>                                                                     |
| United States                                                                                                                                                                                                                                                                              | <a href="http://www.viewsonic.com">www.viewsonic.com</a>             | T (Toll-Free)= 1-800-688-6688<br>T (Toll)= 1-424-233-2530                                                                                                 | <a href="mailto:service.us@viewsonic.com">service.us@viewsonic.com</a>                                                                     |

# Limited Warranty

## ViewSonic® Projector

### What the warranty covers:

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

### Limited Three (3) year General Warranty

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

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

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

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

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

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

### Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

### What the warranty does not cover:

1. Any product on which the serial number has been defaced, modified or removed.
2. Damage, deterioration 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](http://www.viewsoniceurope.com) under Support/Warranty Information.

# Mexico Limited Warranty

## ViewSonic® Projector

### What the warranty covers:

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

### How long the warranty is effective:

3 years for all parts excluding the lamp, 3 years for labor, 1 year for the original lamp from the date of the first consumer purchase.

Lamp warranty subject to terms and conditions, verification and approval. Applies to manufacturer's installed lamp only.

All accessory lamps purchased separately are warranted for 90 days.

### Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

### What the warranty does not cover:

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

### How to get service:

For information about receiving service under warranty, contact ViewSonic Customer Support (Please refer to the attached Customer Support page). You will need to provide your product's serial number, so please record the product information in the space provided below on your purchase for your future use. Please retain your receipt of proof of purchase to support your warranty claim.

For Your Records

|                        |                                              |
|------------------------|----------------------------------------------|
| Product Name: _____    | Model Number: _____                          |
| Document Number: _____ | Serial Number: _____                         |
| Purchase Date: _____   | Extended Warranty Purchase? _____ (Y/N)      |
|                        | If so, what date does warranty expire? _____ |

1. To obtain warranty service, you will be required to provide (a) the original dated sales slip, (b) your name, (c) your address, (d) a description of the problem, and (e) the serial number of the product.
2. Take or ship the product in the original container packaging to an authorized ViewSonic service center.
3. Round trip transportation costs for in-warranty products will be paid by ViewSonic.

### Limitation of implied warranties:

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

### Exclusion of damages:

ViewSonic's liability is limited to the cost of repair or replacement of the product. ViewSonic shall not be liable for:

1. Damage to other property caused by any defects in the product, damages based upon inconvenience, loss of use of the product, loss of time, loss of profits, loss of business opportunity, loss of goodwill, interference with business relationships, or other commercial loss, even if advised of the possibility of such damages.
2. Any other damages, whether incidental, consequential or otherwise.
3. Any claim against the customer by any other party.
4. Repair or attempted repair by anyone not authorized by ViewSonic.

| <b>Contact Information for Sales &amp; Authorized Service (Centro Autorizado de Servicio) within Mexico:</b>                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name, address, of manufacturer and importers:</b><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 <a href="http://www.viewsonic.com/la/soporte/index.htm">http://www.viewsonic.com/la/soporte/index.htm</a> |                                                                                                                                                                                                                                                                                         |
| <b>NÚMERO GRATIS DE ASISTENCIA TÉCNICA PARA TODO MÉXICO: 001.866.823.2004</b>                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                         |
| <b>Hermosillo:</b><br>Distribuciones y Servicios Computacionales SA de CV.<br>Calle Juárez 284 local 2<br>Col. Bugambillas C.P: 83140<br>Tel: 01-66-22-14-9005<br>E-Mail: <a href="mailto:disc2@hmo.megared.net.mx">disc2@hmo.megared.net.mx</a>                                                                      | <b>Villahermosa:</b><br>Compumantenimientos 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: <a href="mailto:compumantenimientos@prodigy.net.mx">compumantenimientos@prodigy.net.mx</a> |
| <b>Puebla, Pue. (Matriz):</b><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: <a href="mailto:datos@puebla.megared.net.mx">datos@puebla.megared.net.mx</a>                                                            | <b>Veracruz, Ver.:</b><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: <a href="mailto:gacosta@qplus.com.mx">gacosta@qplus.com.mx</a>                                             |
| <b>Chihuahua</b><br>Soluciones Globales en Computación<br>C. Magisterio # 3321 Col. Magisterial<br>Chihuahua, Chih.<br>Tel: 4136954<br>E-Mail: <a href="mailto:Cefeo@soluglobales.com">Cefeo@soluglobales.com</a>                                                                                                     | <b>Cuernavaca</b><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: <a href="mailto:aquevedo@compusupportcva.com">aquevedo@compusupportcva.com</a>               |
| <b>Distrito Federal:</b><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 : <a href="mailto:gacosta@qplus.com.mx">gacosta@qplus.com.mx</a>                                                                                                     | <b>Guadalajara, Jal.:</b><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: <a href="mailto:mmiranda@servicrece.com">mmiranda@servicrece.com</a>                           |
| <b>Guerrero Acapulco</b><br>GS Computación (Grupo Sesicomp)<br>Progreso #6-A, Colo Centro<br>39300 Acapulco, Guerrero<br>Tel: 744-48-32627                                                                                                                                                                            | <b>Monterrey:</b><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: <a href="mailto:aydeem@gps1.com.mx">aydeem@gps1.com.mx</a>                                        |
| <b>MÉRIDA:</b><br>ELECTROSER<br>Av Reforma No. 403Gx39 y 41<br>Mérida, Yucatán, México CP97000<br>Tel: (52) 999-925-1916<br>E-Mail: <a href="mailto:rrrb@sureste.com">rrrb@sureste.com</a>                                                                                                                            | <b>Oaxaca, Oax.:</b><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: <a href="mailto:gpotai2001@hotmail.com">gpotai2001@hotmail.com</a>                    |
| <b>Tijuana:</b><br>STD<br>Av Ferrocarril Sonora #3780 L-C<br>Col 20 de Noviembre<br>Tijuana, Mexico                                                                                                                                                                                                                   | <b>FOR USA SUPPORT:</b><br>ViewSonic Corporation<br>14035 Pipeline Ave. Chino, CA 91710, USA<br>Tel: 800-688-6688 (English); 866-323-8056 (Spanish);<br>E-Mail: <a href="http://www.viewsonic.com">http://www.viewsonic.com</a>                                                         |

