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**PA502S/PA502SP/PA502X/PA502XP**  
**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. VS16970/VS16971

# Compliance Information

## FCC 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.

## For Canada

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

## CE Conformity for European Countries

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

## Following information is only for EU-member states:

The mark is in compliance with the Waste Electrical and Electronic Equipment Directive 2012/19/EU (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.



## 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.

# 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.

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DPMS and DDC are trademarks of VESA.

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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>	PA502S/PA502SP/PA502X/PA502XP ViewSonic DLP Projector
<b>Model Number:</b>	VS16970/VS16971
<b>Document Number:</b>	PA502S/PA502SP/PA502X/PA502XP_UG_ENG Rev. 1A 05-21-18
<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/eu/support/call-desk/>

Taiwan: <http://recycle.epa.gov.tw/recycle/index2.aspx>

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# **Key safety instructions**

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Design and testing of your projector have been carried out in compliance with the latest safety standards for information technology (IT) devices. However, it is extremely important for you to follow the instructions provided in this manual and product labels during use to ensure user safety.

## **Safety Instructions**

- **Please read through this manual before using the projector.** Save it for future reference.
- **Do not look straight at the projector lens during operation.** The intense light beam may damage your eyes.
- **Refer servicing to qualified service personnel.**
- **Always open the lens shutter or remove the lens cap when the projector light source has been switched on.**
- In some areas there may be line voltage instability. This projector is designed to operate safely within a mains voltage between 100 to 240 volts AC, but could fail if power cuts or surges of ±10 volts occur. **In areas where the mains voltage may fluctuate or cut out, it is recommended that you connect your projector through a power stabilizer, surge protector or uninterruptible power supply (UPS).**
- 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.
- Do not place the projector on an unstable cart, stand, or cable. The product may fall and sustain serious damages.
- Do not attempt to disassemble this projector. The projector contains high voltage parts that may cause electrocution or death when it comes in contact with the human body. Under no circumstances should you ever undo or remove any other covers. Refer servicing to qualified service personnel.
  
- 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 ensure 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 that are too humid, dusty, or smoky may contaminate optical components, shortening the projector's life span and darkening the image.
  - Locations near fire alarms
  - Locations where temperature exceed 35°C/95°F.
  - Locations with altitudes greater than 3000 m (10000 feet).

- 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.
- Do not step on the projector or place any objects upon it. These acts may damage the projector itself as well as cause accidents or personal injury.
- Do not place liquids near or on the projector. Liquids spilled into the projector may cause damage. If the projector does become wet, please unplug the power cable from the power socket and contact your local repair center for repairs.
- This product can be mounted on a ceiling suspension mount for back projection.



**Use only ceiling suspension mounts that meet the relevant requirements and ensure that the installation is safe.**

- 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.
- Do not use the safety lever during transport or installation purposes. The safety lever should only be used with the anti-theft cables sold on the market.

## Safety instructions for ceiling mounting of the projector

We hope you to have a pleasant user experience with our projector. This is why we're bringing these safety reminders to your attention to prevent possible damage to person and property.

If you intend to mount your projector on the ceiling, we strongly recommend that you use a suitable projector ceiling mount kit and ensure it is securely and safely installed.

There may be safety risks if you fail to use an appropriate projector ceiling mounting kit. Use of inappropriate connectors or screws of the wrong specifications or length may cause the projector to fall from the ceiling.

You can purchase a projector ceiling mounting kit from the projector dealer. We recommend buying a safety harness in addition to the mounting kit. The harness should be securely connected to the anti-theft locking groove on the projector as well as the base of the ceiling mounting support. This will provide additional protection in case the connectors of the mounting support becoming 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.

The projector offers the following features.

- The color mode provides different options designed for different projectors.
- Compatible with NTSC, PAL, SECAM and HDTV
- D-Sub 15-pin terminal can be connected to analog video
- Equipped with HDMI connection, supports HDCP (PA501S with no such features)
- Multi-language On-Screen Display (OSD) menus
- Digital keystone correction to correct distorted images
- RS-232 interface supports serial control
- The power saving mode reduces the lamp power consumption by up to 30% when no input signal is detected for a set length of time.
- Presentation timer for better control of time during presentations
- 3D Ready supported
- Select Fast Shutdown
- Color management can be used to adjust the color according to your preferences
- The screen type correction function can be projected on a variety of pre-set color surfaces

### ***Note***

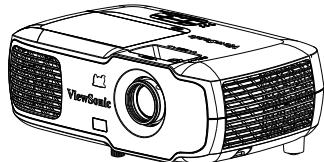
- ***The information in this manual is subject to change without notice.***
- ***Without the express written consent, reproduction, transfer or photocopying of this document in full or in part is prohibited.***

# Shipping contents

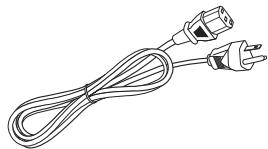
Carefully unpack the product and check that you have all of the items shown below. If any of these items are missing, please contact your place of purchase.

## Standard accessories

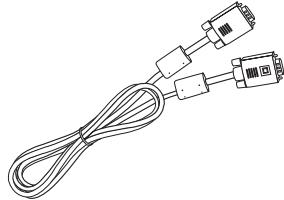
 The supplied accessories will be suitable for your region, and may differ from those illustrated.



Projector



Power cord



VGA cable



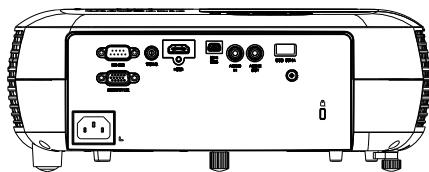
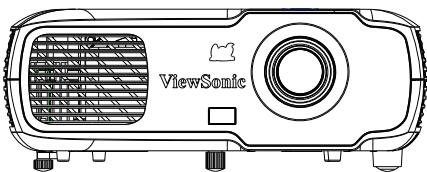
Remote control battery



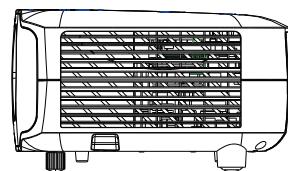
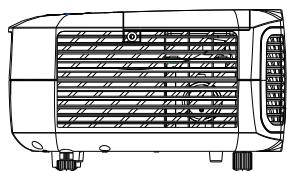
Quick Start Guide

# External appearance of the projector

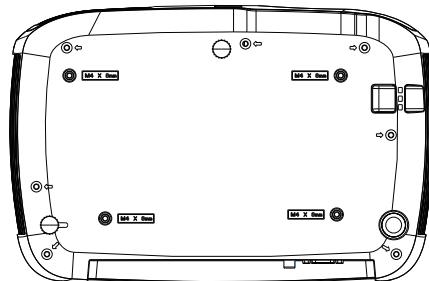
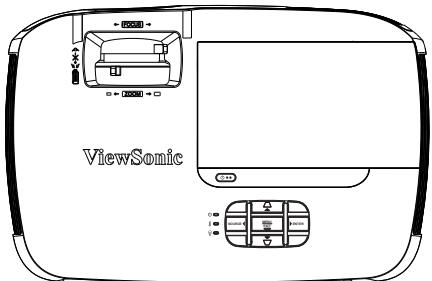
Front / rear



Side



Top / bottom

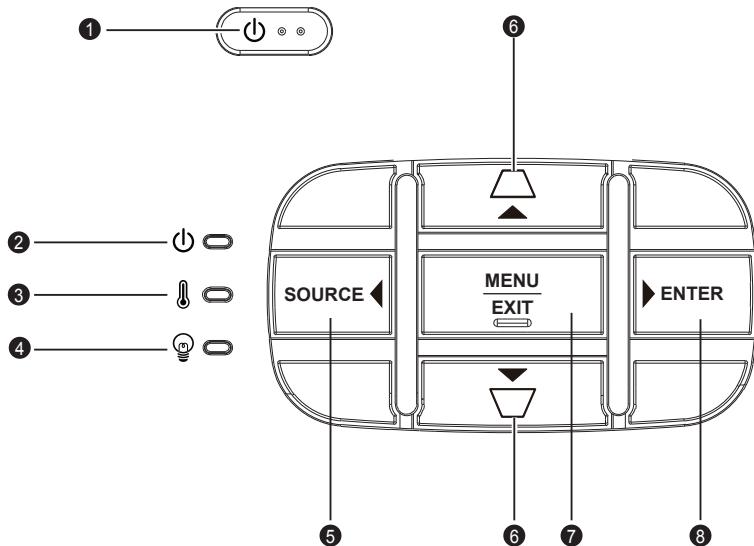


## ⚠ Warning

- This equipment must be connected to ground.
- You may add power interruption devices in the fixed wiring or plug in the power cable to a nearby socket for convenience. If failures or errors occur during equipment operations, use the power interruption device to cut the power or unplug the power cable from the socket.

# Device control and functions

## Projector



### 1. $\odot$

Turn the projector power on or off.

### 2. $\odot$ (POWER LED indicator)

Please refer to "LED indicator message".

### 3. $\text{C}$ (TEMP LED indicator)

Please refer to "LED indicator message".

### 4. $\text{L}$ (LAMP LED indicator)

Please refer to "LED indicator message".

### 5. SOURCE

A source selection bar displays.

### 6. $\triangle/\square$ (Keystone button)

Manually corrects distorted images resulting from an angled projection.

### $\blacktriangleleft/\blacktriangleright$ Left/Right/ $\blacktriangleup/\blacktriangledown$ Up/Down (Navigation button)

Selects the required menu item to make adjustments.

### 7. MENU/EXIT

**Menu:** Displays or exits the on-screen display menu.

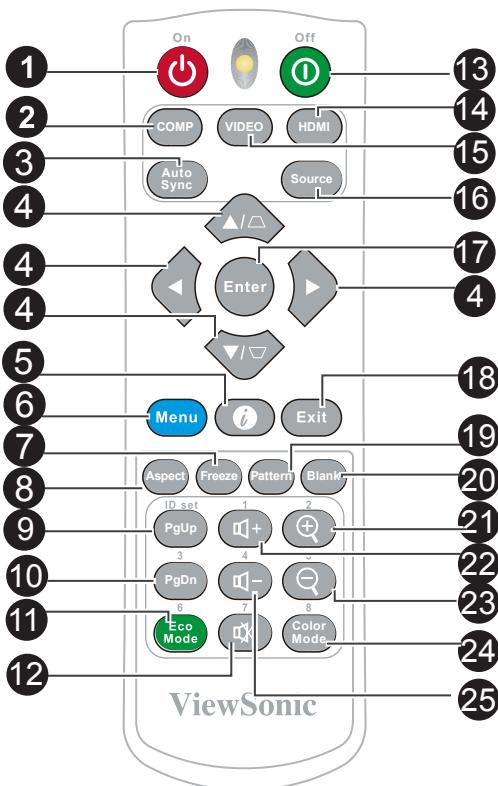
**Exit:** Returns the previous OSD menu, exits and saves the menu settings.

### 8. ENTER

Enter the selected on-screen display (OSD) menu item.

The functions of **ENTER** and  $\blacktriangleright$  right key are consolidated and some options  $\blacktriangleleft$  can only be chosen by the left key.

## Remote control



1. **⊕ On**  
Turn on the projector.
2. **COMP**  
Select the D-Sub / component display.
3. **Auto Sync**  
Automatically verify the best picture quality for the displayed image.
4. **Keystone button and direction button**  
△/□  
Manually corrects distorted images resulting from an angled projection.  
◀Left/▶Right/▲Up/▼Down  
Selects the required menu item to make adjustments.
5. **i**  
Displays the projector's internal information
6. **Menu**  
Open the OSD menu.
7. **Freeze**  
Freezes the projected image.
8. **Aspect**  
Selects the display aspect ratio.
9. **10. PgUp (page up) / PgDn (page down)**  
Connect the projector to a computer with a Mini USB cable to operate the display software (Microsoft PowerPoint) running on a connected computer. When the cursor mode is activated, these buttons will reference the previous and next functions.
11. **Eco Mode**  
The bulb mode is switched from the normal, power saving, dynamic to super environmental protection.
12. **🔇 (Mute)**  
Toggles the projector audio between on and off.
13. **ⓧ Off**  
Turn the projector over.
14. **HDMI**  
Select the source of the displayed HDMI.
15. **VIDEO**  
Select the source of the displayed video.
16. **Source**
17. **Enter**
18. **Exit**
19. **Blank**
20. **Pattern**
21. **Freeze**
22. **Aspect**
23. **Color Mode**
24. **Eco Mode**
25. **ViewSonic**

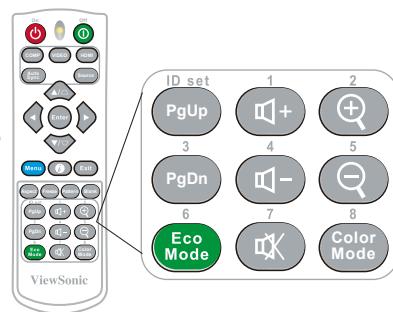
- 16. Source**  
A source selection bar displays.
- 17. Enter**  
Enter the selected screen to display (OSD) menu item.
- 18. Exit**  
Goes back to the previous OSD menu.  
Exits and saves menu settings.
- 19. Pattern**  
Shows the inbuilt testing screens.
- 20. Blank**  
Hide screen image.
- 21.  (Zoom out)**  
The displayed zoom lever can be used to zoom out the projected image
- 22. + (Volume+)**  
Increase the volume.
- 23.  (Zoom in)**  
The displayed zoom lever can be used to zoom in the projected image
- 24. Color Mode**  
Select Color Mode.
- 25. - (Volume-)**  
Decrease the volume.

## Remote control code

The projector is capable of having 8 different remote control codes (1 to 8). When using multiple projectors close to each other at the same time, switching the remote control codes will prevent projector disruption by other remote controls. First set the projector's remote control code then switch the code of the remote control itself.

If you want to switch the code at the projector end, please go to **System Settings: Remote Control Code** menu and select 1 to 8.

If you want to switch the code at the remote control end, please press and hold both the [ID set] and number key corresponding to the remote control code for at least 5 seconds. 1 is the initial code by default. Setting the code to 8 allows the remote control to control every projector.



 The projector will not respond to commands issued by the remote control commands if the projector and remote control codes are not the same. When this happens, a message will appear to remind you to switch the remote control code.

Remote control setting	1
Remote control code	1

## Using the remote control cursor

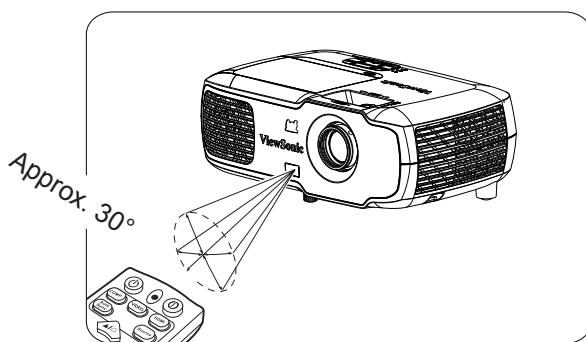
Use the remote control to operate your computer during presentations for greater flexibility.

1. Before using the remote control to replace your cursor, fix one end of the USB cable to the projector Mini USB port and the other end to the PC or notebook computer. See "[Connect to the computer](#)" for details.
2. Change the input signal to D-Sub or HDMI via PC source.
3. To use the software displayed on the connected computer (such as Microsoft PowerPoint), go to the previous or next page by pressing the previous page / next page.

## Remote control effective range

There is an infra-red (IR) remote control sensor located at the front of the projector. Hold the remote control and maintain a perpendicular angle within 30 degrees with the IR remote control sensor to achieve normal remote control functions. The distance between the remote control and the sensor should not exceed 8 meters (about 26 feet).

Do not place any obstruction in front of the IR sensor on the projector as this may block the IR beam.

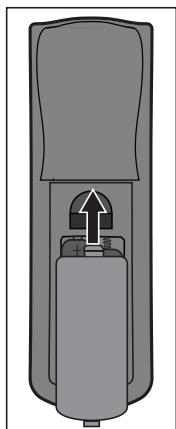


### Note

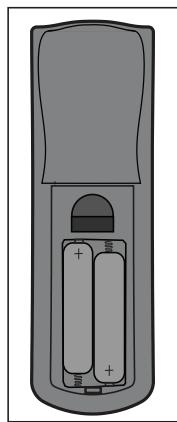
- When the intense light source such as sunlight or fluorescent light is used to illuminate the remote sensor, the remote control may not work.
- Operate the remote control where you can see the remote sensor.
- Do not shake or drop the remote control.
- Store the remote control in a cool, dry place.
- Do not spill water on the remote control or place moist objects on it.
- Do not disassemble the remote control.

## Replacing the remote control battery

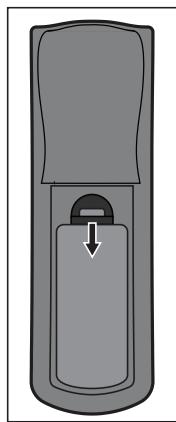
1. To open the battery cover, place the remote control with the backside facing upwards. Press down at the indicated area and then pull the battery lid upwards along the indicated direction.
2. Take out the old batteries (if required) and then place 2 AAA batteries according to the indicated orientation. The positive pole of the battery should be directed at the (+) direction while the negative pole should be directed at the (-) direction.
3. Align the battery cover with the bottom of the remote control and return the cover to its original position to complete the process.



Open the battery cover as shown in the illustration.



Install the battery as shown in the illustration.



Cover the battery cover.

### Warning

- Avoid keeping the remote control and battery in moist or hot places, such as the kitchen, bathroom, sauna, solarium or car.
- Replace only with the same or equivalent type recommended by the battery manufacturer.
- Refer to the manufacturer's instructions and local environmental regulations to dispose of old batteries.
- Do not throw batteries into fires. There may be danger of an explosion.
- If the battery is flat or if you will not be using the remote control for a while, remove the battery to prevent battery leaks from damaging the remote control.

# **Projector Positioning**

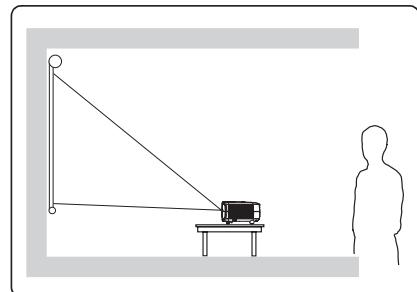
## **Choosing a location**

You may refer to the room layout or personal preference to determine the location of installation. Considerations include size and position of the screen, location of a suitable power outlet, as well as the location and distance between the projector and other equipment.

There are 4 potential installation locations for the projector:

### **1. Front Table**

For this location, the projector is placed right in front of the screen. This is the most commonly employed means for placing the projector. It is quick to setup and highly mobile.

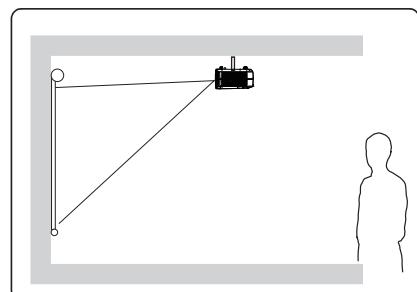


### **2. Front Ceiling**

For this location, the projector is suspended upside-down from the ceiling in front of the screen.

Purchase a Projector Ceiling Mounting Kit from your dealer to mount your projector on the ceiling.

After activating your projector, go to **System Settings: Projector Position** menu and set to **Front Ceiling**.

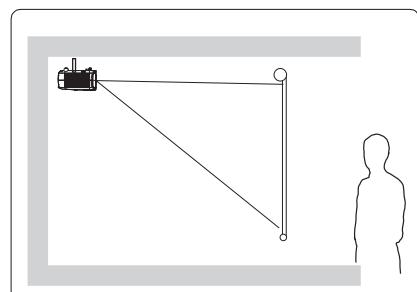


### **3. Rear Ceiling**

For this location, the projector is suspended upside-down from the ceiling behind the screen.

Note that a special rear projection screen and Projector Ceiling Mounting Kit are required for this installation location.

After activating your projector, go to **System Settings: Projector Position** menu and select **Rear Ceiling**.

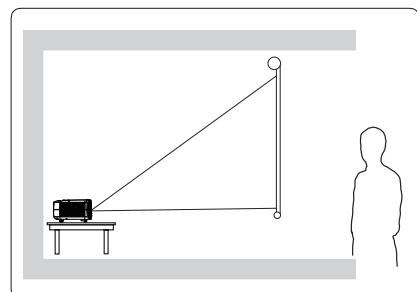


### **4. Rear Table**

For this location, the projector is placed right behind the screen.

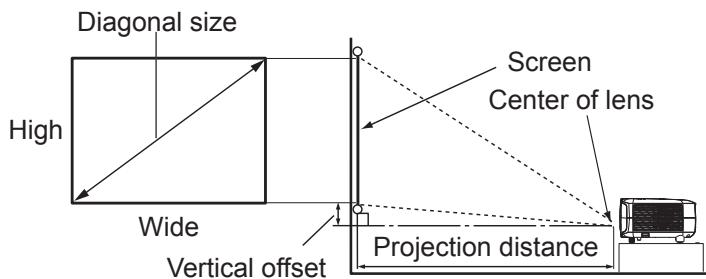
Note that a special rear projection screen is required.

After turning on the projector, go to **System Settings: Projector Position** menu and select **Rear Table**.



# Projection Dimension

Refer to the chart below to determine the screen size and projection distance.



## PA502S/PA502SP/PA502X/PA502XP

4:3 screen diagonal				
Screen size			Projection distance [Inch (mm)]	Vertical offset [Inch (mm)]
Diagonal [Inch (mm)]	Wide [Inch (mm)]	High [Inch (mm)]		
50 (1270)	40 (1016)	30 (762)	77 (1956)	3.8 (96)
60 (1524)	48 (1219)	36 (914)	93 (2362)	4.5 (115)
70 (1778)	56 (1422)	42 (1067)	109 (2769)	5.3 (134)
80 (2032)	64 (1626)	48 (1219)	125 (3175)	6.0 (154)
90 (2286)	72 (1829)	54 (1372)	141 (3581)	6.8 (173)
100 (2540)	80 (2032)	60 (1524)	156 (3962)	7.6 (192)
120 (3048)	96 (2438)	72 (1829)	188 (4775)	9.1 (230)
140 (3556)	112 (2845)	84 (2134)	220 (5588)	10.6 (269)
150 (3810)	120 (3048)	90 (2286)	236 (5994)	11.3 (288)

# Connection

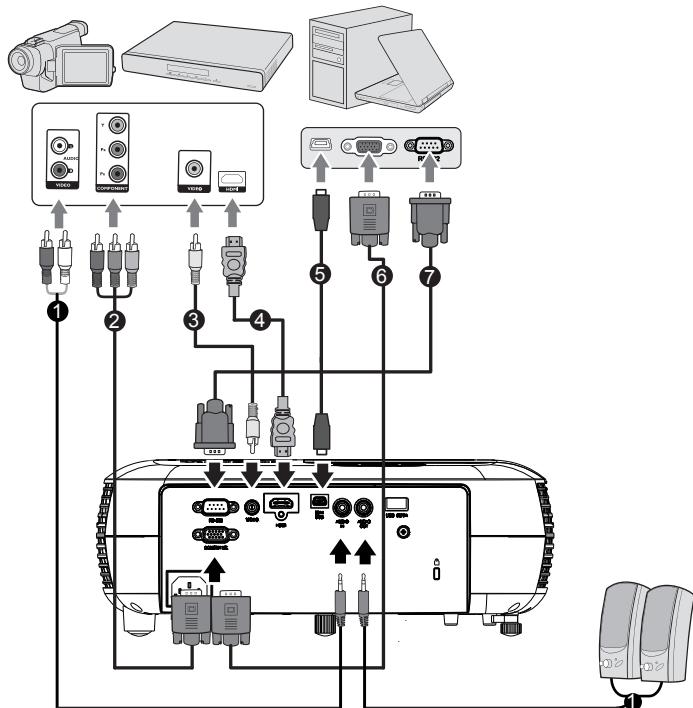
When connecting a signal source to the projector, be sure to:

1. Turn all devices 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 within the projector packaging (please refer to "[“Shipping contents”](#)).

You may purchase the required signal cables from an electronics store.

 The following links and icons are for references only. Connection jacks at the back of the projectors may differ according to the projector model.



1. Audio cable	5. USB cable (mini-B to type A)
2. VGA (D-Sub) to HDTV (RCA) line	6. VGA cable (D-Sub to D-Sub)
3. Composite video line	7. RS-232 cable
4. HDMI cable	

# Connect to the computer or monitor

## Connect to the computer

1. Use the VGA cable provided. Plug one end to the D-Sub output jack at the computer end.
2. Connect the other end of the VGA cable to the COMPUTER signal input jack on the projector.

 Many notebooks have not activated their monitor jack after being connected to the monitor. The user can often press FN + F3 or CRT/LCD button to switch ON/OFF the externally connected monitor. Find the function key labeled with the CRT/LCD or monitor icon on the notebook. Press the FN key and the labeled function key. Please refer to the instruction manual provided with the notebook computer for the combination keys and their functions.

# Connecting to Video source devices

You can connect the projector to any of the following video source device with an output jack:

- HDMI (PA501S does not have this interface)
- Component video
- Video (composite video)

Only 1 of the aforementioned connection methods is required to connect the projector to the video source device. However, different connection methods would provide a different video quality. The connection method selected would be determined by the presence of matching jacks on the projector and Video source device:

## Best video quality

HDMI is the best video connection method available. If the source device comes with HDMI jacks, you will be able to acquire uncompressed digital video quality.

Please refer to "[Connecting to HDMI devices](#)" for details on how to connect the projector to HDMI devices.

If you don't have any usable HDMI source, the next best video signal would be Component Video (not to be confused with Composite Video). Digital TV tuners and DVD players are provided with Component Video output sockets. If your device includes Component Video, then this would be your primary choice of connection to the (composite) video.

Please refer to "[To connect the projector to a Component Video source device.](#)" for details on how to connect your projector to Component Video devices.

## 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.

Please refer to "[Connecting to composite video source devices](#)" for details on how to connect your projector to composite video devices.

## Connecting to HDMI devices

Use an HDMI cable to establish a connection between the projector and HDMI device.

1. Connect one end of the HDMI cable to the HDMI output jack on the video device.
2. Connect the other end of the cable to the HDMI signal input jack on the projector.

 In the unlikely event that the projector is connected 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"](#) for details.

Note: The PA501S has no HDMI interface

## To connect the projector to a Component Video source device:

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

- If so, you can continue with this procedure.
  - If not, you will need to reassess which method to use to connect to the device.
1. Take a VGA (D-Sub) Component adapter 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 end of the VGA (D-Sub) Component adapter cable (with the D-Sub type connector) to the COMPUTER jack on the projector.

 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. You must also check that the signal cables have been connected correctly.

## Connecting to composite video source devices

Examine your Video source device to determine if an unused composite output jack is available:

- If so, you can continue with this procedure.
  - If not, you will need to reassess which method to use to connect to the device.
1. Take a Video cable and connect one end to the composite Video output socket of the Video source device.
  2. Connect the other end of the video cable to the VIDEO socket on the projector.

 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. You must also check that the signal cables have been connected correctly.

 When the component video is not available, use the composite video connection method to connect to this device. See “[Connecting to Video source devices](#)” for details.

# **Operation**

## **Activate the projector**

Plug the power cord into the projector and into a wall socket. Turn on the switch on the wall socket (if available).

Press  Power to switch on the projector.

If this is the first time that you've switched on the projector, please refer to on-screen instructions and select your OSD language.

Switch on all connected equipment.

The projector will then begin a search of the input signals. The lower right corner of the screen will display the current input signal being scanned. If the projector fails to detect a valid signal, the screen will display a **[NO SIGNAL]** message until an input signal is found.

You can press "Source" to select the input signal required. See "["Switching input signal"](#)" for details.

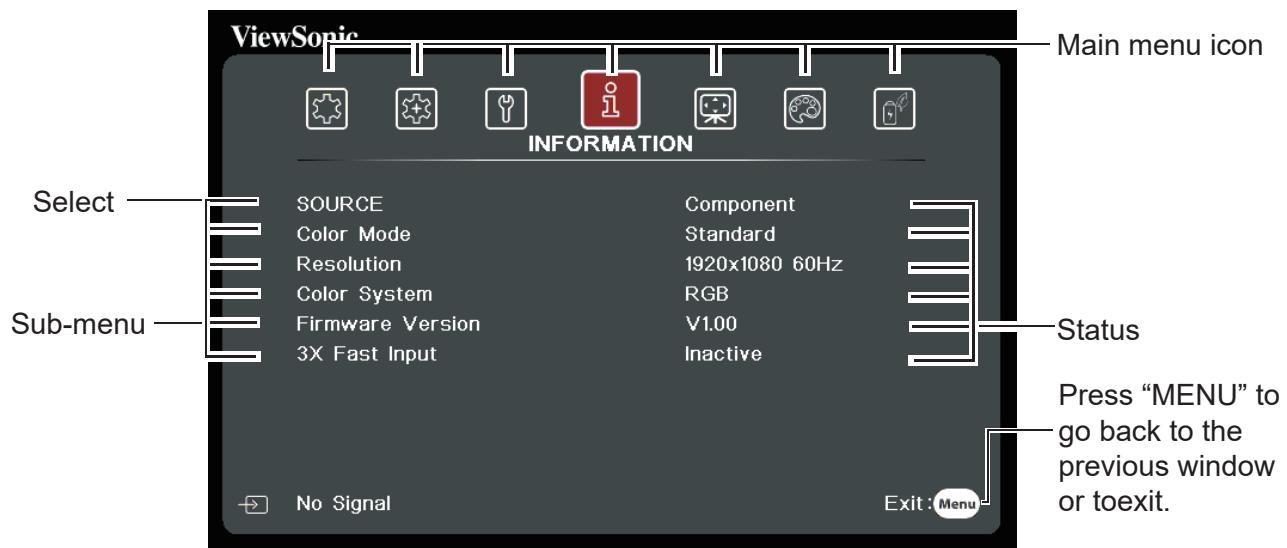
 If the input signal frequency / resolution is outside the operating range of the projector, the blank screen will display the [Out of Range] message. Please change to an input signal which is compatible with the projector's resolution or set the input signal to a lower setting. For more details, please refer to the **[Resolution Table]**.

## **Using the menus**

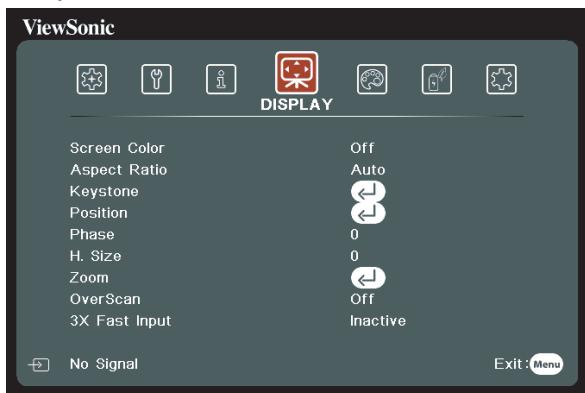
This projector has an on-screen display (OSD) menu function that allows you to change different settings.

 The following OSD screenshot is for reference only. Actual OSD design may differ.

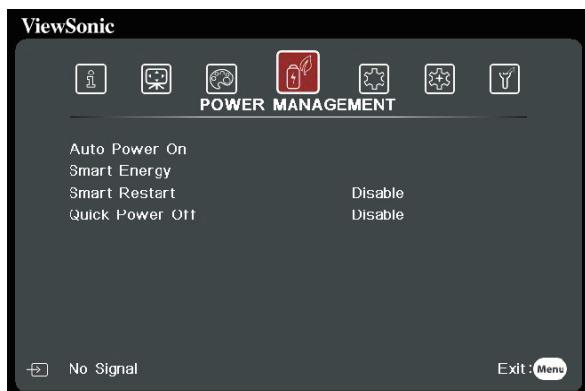
The following is an overview of the OSD menu.



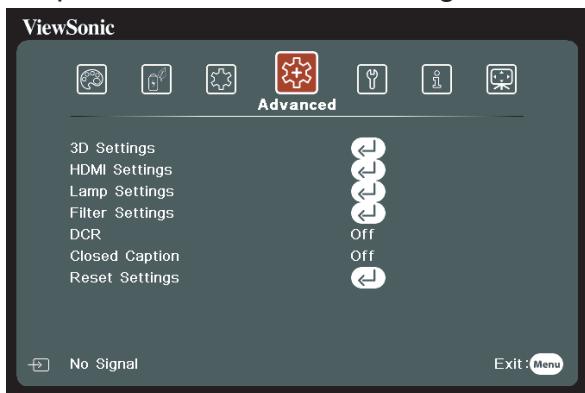
1. Press Menu and then press the remote control **◀/▶** to select the **Display** and press **▼** to select the screen color.



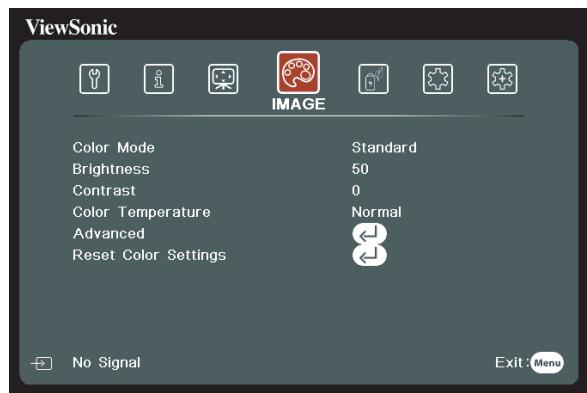
3. Press Menu and then press the remote control **◀/▶** to select **Power Management** and press **▼** to select Auto Power Off.



5. Press Menu and then press the remote control **◀/▶** to select **Advanced** and press **▼** to select 3D settings.



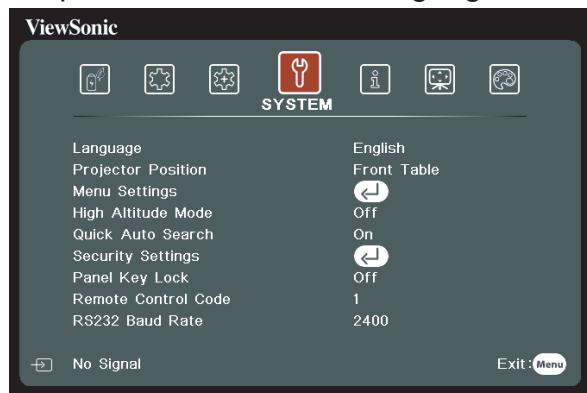
2. Press Menu and then press the remote control **◀/▶** to select **Image** and press **▼** to select the color mode.



4. Press Menu and then press the remote control **◀/▶** to select **Basic** and press **▼** to select the presentation timer.



6. Press Menu and then press the remote control **◀/▶** to select **System** and press **▼** to select the language.



# Disabling the password function

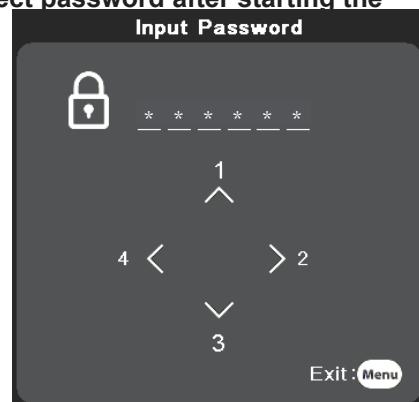
For security purposes and to help prevent unauthorized use, the projector includes an option for setting up password security. Passwords may be set using the On-Screen Display (OSD) menu. Please refer to the [Using the menus] section for details on OSD menu operations.

 It is troublesome if you keep forgetting the password after setting up password protection. We recommend writing down the password and placing it somewhere safe for future reference in case you forget.

## Setting a password

 Once a password has been set, the user must provide the correct password after starting the projector. Otherwise, the projector cannot be used.

1. Open the OSD Menu and enter **System > Security Settings** menu.
2. Press [Enter]. The **Security Settings** page will be displayed.
3. Select **Power Lock**, then press **◀/▶** and select **ON**.
4. The picture on the right shows 4 arrow keys (**◀**, **▲**, **▼**, **▶**) which each represent 4 numbers (1, 2, 3, 4) respectively. According to the password you desire to set, press the arrow keys to enter six digits for the password.
5. Enter the password and confirm that password.  
After completing password settings, the OSD menu will return to the **Security Settings** page.
6. Press [Exit] to leave the OSD menu.



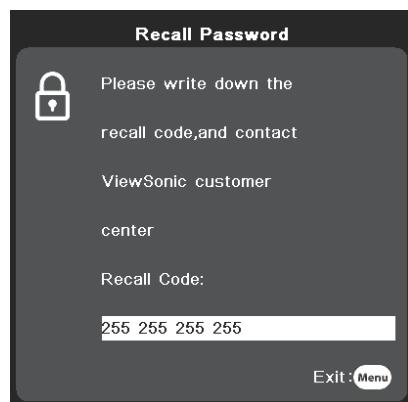
## If you forget your password

If the password function is activated, you will be asked to enter the six-digit password every time you turn on the projector. If you enter the wrong password, the password error message as pictured to the right will be displayed for 5 seconds before the message [INPUT PASSWORD] is shown. You can enter another 6-digit password. You may use the password recall procedure if you forgot your password and did not record it in this manual. See "[Entering the password recall procedure](#)" for details.

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

# Entering the password recall procedure

1. Press and hold the [Auto Sync] button on the remote control for 3 seconds.
2. Write down the number and turn off your projector.
3. Seek help from the local service center to decode the number. You may be required to provide proof of purchase to verify that you are an authorized user of the projector.



 The [XXX] number in the screenshot shown above is determined by the projector model number.

## Change Password

1. Open the OSD and enter **System Settings > Security Settings > Change Password** menu.
2. Press [Enter]. The message **[INPUT CURRENT PASSWORD]** will be shown.
3. Enter the old password.
  - If the password entered is correct, another message **[INPUT NEW PASSWORD]** will be shown.
  - If the password entered is incorrect, then the password error message will be displayed for 5 seconds before the screen shows the **[INPUT CURRENT PASSWORD]**. You will then need to re-enter the password. You can either press [Exit] to cancel the process or try other passwords.
4. Enter a new password.
5. You have successfully assigned a new password to the projector. Remember to enter the new password next time the projector is started.
6. Press [Exit] to leave the OSD menu.

 Any digit entered will be displayed as asterisks [\*] on-screen. We recommend writing down the password and placing it somewhere safe for future reference in case you forget.

## Disabling the password function

1. Open the OSD menu and enter **System Settings > Security Settings > Power On Lock** menu.
2. Press **</>** and select **OFF**.

 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.

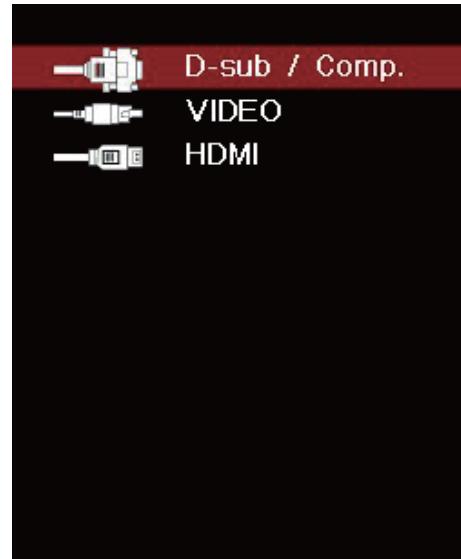
# Switching input signal

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

If you want the projector to automatically search for various signals, please confirm that the **Quick Auto Search** function in the **SYSTEM** menu is switched **ON**.

You may also press the source selection button on the remote control or search for available input signals to manually select the desired signals.

1. Press [Source] to display the source selection column.
2. Keep pressing the ▲/▼ until you arrive at the desired signal, then press [Enter].



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



For display resolutions of this projector, please refer to “[Projector specifications](#)”.

To achieve the best image display effects, you should select and use an input signal that 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](#)” for details.

# Changing HDMI input settings

In the unlikely event that you connect the projector to a device (such as DVD or Bluray player) via the projector's HDMI input jack, and the projected picture displays the wrong colors, please change the color space settings to one that complies with the color space settings of the output device.

To perform this operation:

1. Open the OSD menu and enter **ADVANCED > HDMI settings** menu.
2. Press [Enter].
3. Select **HDMI format**, then press **◀/▶** to select a suitable color space according to the color space settings of the output device.
  - **RGB**: Changes the color space to RGB.
  - **YUV**: Changes the color space to YUV.
  - **Auto**: Sets the projector to automatically detect the color space settings of the color space.
4. Select **HDMI Range**, then press **◀/▶** to select a suitable color range according to the color range settings of the output device.
  - **Enhanced**: Changes HDMI color range to 0-255.
  - **Normal**: Changes HDMI color range to 16-235.
  - **Auto**: Sets the projector to automatically detect the HDMI range of the input signal.

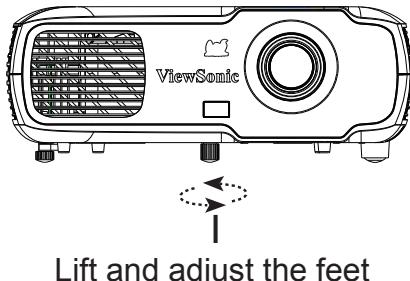
 This function is only available when the HDMI input jack is being used.

 Please refer to equipment documentation to gain more details on color space and HDMI range settings.

# Adjusting the projected image

## Adjusting the projection angle

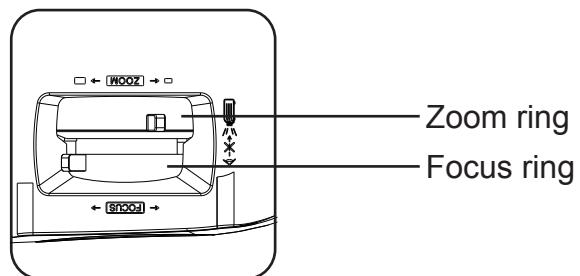
The projector is furnished with an adjustment support peg. The adjustment support peg may be used to adjust projection height and projection angle along the vertical axis. The user may turn the adjustment support peg to make fine adjustments to projection angle and position of the projected image until it reaches the desired location.



If the projector is placed on an uneven surface or where the screen and projector are not perpendicular to each other, the projected image may be subject to keystone (trapezoidal) distortion. For more details on projection calibration, please refer to ["Perform keystone correction"](#).

## Auto-adjustments to the image

The focus ring can be used to adjust the image clarity.



1. Sharpen the image by rotating the focus ring. It is recommended to use still images for focusing.
2. Turn the zoom ring to adjust the image size.

## Perform keystone correction

Keystone distortion is a problem where the projected image becomes trapezoidal in shape (keystone distortion) as a result of poor projection angle.

To correct this situation, you should adjust projector height and use the following steps to correct the issue manually.

- Using the remote control

1. Press □/▽ to display the Keystone Correction page.
2. Press □ to initiate Keystone Correction at the top of the image. Press ▽ to initiate Keystone Correction at the bottom of the image.



- Using the OSD menu

1. Open the OSD menu and open **Display > Keystone** menu.
2. Press [Enter]. This will bring up the **Keystone** page.
3. Select **Vertical** and then press □ to initiate Keystone Correction at the top of the image or press ▽ to initiate Keystone Correction at the bottom of the image.

## Zoom out to see details

You may need to expand the image to inspect details in the projected image. Use the arrow keys to move the images.

- Using the remote control
  1. Press the  on the remote to bring up the Zoom Bar.
  2. Press  repeatedly to expand the image to the desired dimension.
  3. To browse the image, press [Enter] to switch to displacement mode and use the arrow keys (, , , ) to move the image for browsing.
  4. To zoom out the image, press the zoom out key to zoom out the image size. You can also press the [Auto Sync] button on the remote control to restore the image to its original size.
- This function is suitable for remote control operations.

 You can check the image only after zooming out. You can further zoom out to check the details. Adjustable range depends on different aspect ratios.

## Selecting the aspect ratio

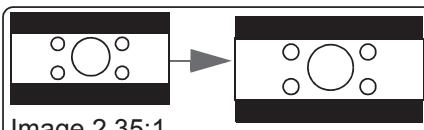
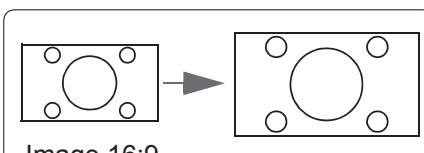
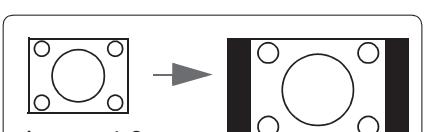
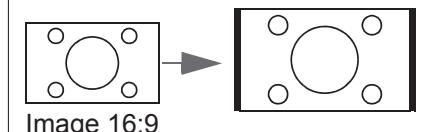
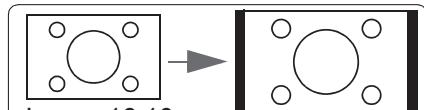
The 'aspect ratio' is the ratio of the image width to the image height. Most analog TV and computers have a 4:3 aspect ratio, while digital TV and DVDs have 16:9 aspect ratios. With the advent of digital signal processing, digital display devices like this projector can dynamically stretch and scale the image output to a different aspect than that of the image input signal. To change the projected image ratio (no matter what aspect the source is):

1. Open the OSD Menu and enter **Display > Aspect ratio** menu.
2. Press / to select an aspect ratio that suits the format of the video signal and your display requirements.

# About the aspect ratio

☞ Choose how to make the screen suitable for the screen:

1. **Auto:** Proportional scaling of an image to fit the projector's natural resolution in its horizontal width. This is suitable where the incoming image is neither in 4:3 nor 16:9 aspect ratios but where you want to make most use of the screen without altering the image's aspect ratio.
2. **4:3:** Scales a picture so that it is displayed in the center of the screen with a 4:3 aspect ratio. This is most suitable for 4:3 pictures such as those for computer monitors, standard definition TV, and 4:3 aspect DVD movies as these can be displayed without aspect alteration.
3. **16:9:** Scales a picture 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 such as high definition TV because as these can be displayed without aspect alteration.
4. **2.35:1:** Scales a picture so that it is displayed at the center of the screen with a 2.35:1 aspect ratio without change.



# Optimizing the image

## Selecting a picture mode

The projector is preset with several predefined picture modes. You may choose one of these modes that best fits your operating environment and input signal picture type.

To select an operation mode that suits your need, please follow the steps described below.

- Press [Color Mode] repeatedly until you arrive at the mode you desire.
- Enter **Image > Color mode** menu and press **◀/▶** to select the required mode.

### Picture modes for different types of signals

The following lists the Picture modes that can be used for different signal types.

1. **Standard mode:** Suitable for normal conditions during the daytime environment.
2. **Photo mode:** Suitable for viewing photo mode.
3. **Movie Mode:** Applicable for playing colored movies, video clips from digital cameras, or DVs from a PC input in darker (dim) environments to achieve the best viewing effects.
4. **Brightest:** Maximizes the brightness of the projected image. This mode is suitable when using projectors in environments such as well-lit rooms where extra-high brightness is required.
5. **Presentation mode:** Used during daytime presentations to match PC and laptop tint.

## Using Screen Color

When the projection surface is colored (such as walls that are painted in colors other than white), the **Screen Color** function can be used to calibrate the color of the projected image in order to prevent color offsets between the source and color of the projected image.

To use this function, go to **Display > Screen Color** menu, and press **◀/▶** to select the color that is closest to that of the projection surface. Several preset color options are available, namely: **white board**, **green board** and **blackboard**. These setup functions may differ according to model type.

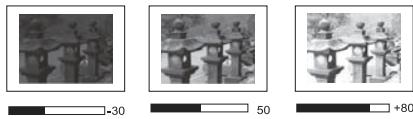
 This function is only available when PC input signals were selected.

# Fine-tuning of image quality in user modes

You may use several user-defined functions if the projector detects certain signal types. You can make adjustments to these functions based on your needs.

## Adjusting Brightness

Enter **Image > Brightness** menu and then press **◀/▶**.



The higher the value, the brighter the image. And lower the setting, darker the image.

Adjusting this control allows the black area of the image to appear just as black to reveal details within.

## Adjusting Contrast

Enter **Image > Contrast** menu and then press **◀/▶**.



The higher the value, the greater the contrast. After adjusting **Contrast**, this function may be used to set the peak-white level that matches the input signal and observed environment of your choice.

## Adjusting Color

Enter **Image > Advanced > Color** menu and press **◀/▶**.

Lower settings produce less color saturation. If the setting is too high, colors on the image will be overpowering, which makes the image unrealistic.

 This function is only available when the input signals are Video, YPbPr or YCbCr.

## Adjusting Tint

Enter **Image > Advanced > Tint** menu and press **◀/▶**.

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

 This function is only available when the input signal is Video.

## Adjusting Sharpness

Enter **Image > Advanced > Sharpness** menu and then press **◀/▶**.

Higher settings produce sharper images. The lower the value, the softer the picture becomes.

 This function is only available when the input signals are Video, YPbPr or YCbCr.

## Adjusting Brilliant Color

Enter **Image > Advanced > Brilliant Color** menu and press **◀/▶**.

This feature utilizes a new color-processing algorithm and system level enhancements to enable higher brightness while providing truer, more vibrant colors of the projected image. Brightness levels of mid-tone areas commonly seen in videos and natural landscapes are increased by more than 50%, allowing the projector to generate images in realistic and true colors. To acquire this quality of images, please select the level you desire. If not required, set this option to **OFF**.

## Reducing image noise

Enter **Image > Advanced > Noise Reduction** menu, and then press **◀/▶**.

This function is capable of reducing image noise generated electrically by different media players. Higher settings will provide lower image noise.

 This function is only available when PC, Video input signals were selected.

## Selecting a Color Temperature

Enter **Image > Color Temperature** menu, and then press **[Enter]**.

Options available to Color Temperature settings will depend on the choice of the signal type.

1. **Cool:** Provides the highest color temperature. **Cool** colors allow the image to display white colors with the more blue undertones compared to other temperatures.
2. **Normal:** Maintains a normal white color tone.
3. **Warm:** White colors in the image will be provided with a light red undertone.

## Setting a preferred color temperature

This function is only available when PC input signals have been selected.

1. Enter **Image > Color Temperature** menu, and then press **[Enter]**.
2. Press **◀/▶** to select **Cool**, **Normal** or **Warm**, and press **[Enter]**.
3. Press **◀/▶** to select the item you wish to change, then press **◀/▶** to adjust its value.
  - **Red Gain/Green Gain/Blue Gain:** Adjusts the contrasts of the red, green, and blue colors.
  - **Red Offset/Green Offset/Blue Offset:** Adjusts the brightness of red, green, and blue colors.

# 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 adjustent to allow for more accurate color reproduction, should you require it.

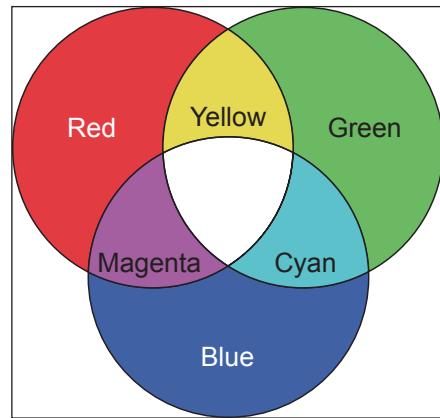
If you have purchased a test disc that contains various color test patterns that can be used to test the color presentation of monitors, TVs, and projectors, any image from the disc can be projected on screen and adjusted using the **Color Management** menu.

## To adjust the settings:

1. Open the OSD menu, go to **Image > Advanced > Color Management** menu.
2. Press [Enter] to bring up the **Color Management** page.
3. Select **Primary Color** and press **◀/▶** to select any one of the colors from red, yellow, green, cyan, blue, or magenta.
4. Press **▼** to select the **Hue**, then press **◀/▶** to select the range. Enlarging the range will include colors composed of higher proportions of 2 similar 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 the range to 0, you will only select pure red areas of the projected image. Increasing the range will include shades of red closer to yellow and magenta.
5. Press **▼** to select **Saturation**, then press **◀/▶** to adjust its values according to your preferences. The effect of each adjustment will be immediately reflected upon the image.  
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 will remove that color from the image entirely. If the saturation is too high, that color will be overpowering and unrealistic.

6. Press **▼** and select **Gain**, then press **◀/▶** to adjust its values according to your preferences. This affects the contrast level of the primary color selected. The effect of each adjustment will be immediately reflected upon the image.
7. Repeat steps 3 to 6 to carry out other color adjustments.
8. Make sure you have made all of the desired adjustments.
9. Press [Exit] to save the settings and exit.



# Setting the Presentation Timer

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

1. Enter **Basic > Presentation Timer** menu.
2. Press [Enter] to show the **Presentation Timer** page.
3. Select **Timer Period** and press **◀/▶** to confirm the duration. Duration can be set to 1 to 5 minutes, with 1 minute increments, or 5 to 240 minutes in 5 minute increments.

 Once the timer has been activated, resetting the timer interval will re-activate the timer.

4. Press **▼** and select the **Timer Display**. Then press **◀/▶** to select whether to display or hide the on-screen timer.

Selection	Description
Always	Displays the timer on screen throughout the presentation time.
1 min/2 min/3 min	Display timer on-screen in the last 1 / 2 / 3 minutes.
Never	Hides the timer throughout the presentation time.

5. Press **▼** and select **Timer Position**, and then press **◀/▶** to set timer location.

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

6. Press **▼** to select **Timer Counting Direction**, then press **◀/▶** to select the required timer method.

Selection	Description
Count Up	Increases from 0 to the preset time.
Count Down	Decrease from the preset time to 0.

7. To activate Presentation Timer, press **▼**, then press **◀/▶** and select **Start Counting**, then press [Enter].
8. A confirmation message will be displayed afterwards. Select **Yes** and press [Enter] to confirm the selection. The screen will display the message **[Timer is On!]**. Once activated, the timer will start its countdown.

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

1. Enter **Basic > Presentation Timer** menu.
2. Select **OFF**. Press [Enter]. A confirmation message will be displayed afterwards.
3. Select **Yes** and press [Enter] to confirm the selection. The screen will display the message **[Timer is Off!]**.

## Hiding the image

In order to draw the audience's attention to the presenter, you may press Blank to hide the screen image. Press any key on the projector or remote to restore the image. After hiding the image, the lower right corner of the screen will display the text [Blank].

You can go to **Basic > Blank Timer** menu to set blank screen duration. Once the blank screen countdown is complete, the image will be automatically re-displayed.

 After pressing [Blank], the projector will automatically enter Power Saving mode.



### Caution

Do not block the projector lens. The blocking item may be heated to the point of deformation or may even cause a fire.

## Locking control keys

Locking the control buttons of the projector allows you to prevent projector settings from being changed accidentally (by children, for example). Once **Panel Key Lock** has been activated, with the exception of the  Power button, none of the buttons on the Projector could be used.

1. Go to **System Settings > Panel Key Lock** menu.
2. Press / and select **ON**.
3. A confirmation message will be displayed afterwards. Select **Yes** to confirm your choice.

To switch off the Panel Key Lock, press  and hold the button on the Projector for 3 seconds.

You may also use the remote to enter **System Settings > Panel Key Lock** menu, press / and select **OFF**.

 Buttons on the remote control can still be used even if the Panel Key Lock function has been switched on.

 If you press the  Power button to switch off the projector without switching off the Panel Key Lock function, the projector buttons will remain locked when you switch it on the next time.

## Lamp Settings

Setting the projector in ECO/Dynamic ECO/Super ECO mode reduces system noise, power consumption and extends the lamp operation life.

Lamp mode	Description
Normal	Provides full lamp brightness.
Eco	Reduces lamp power consumption by 20% and lowers brightness to extend the lamp life and decreases the fan noise.
Dynamic Eco	Reduces lamp power consumption by up to 70% depending on the content brightness level.
Super ECO	Reduces lamp power consumption by 70% and lowers brightness to extend the lamp life and decreases the fan noise.

 Long-term to use super ECO mode is not recommend.

#### Reset Lamp Timer

Set the lamp hours to zero.

#### Lamp Usage Timer

Displays the time (hours) that the lamp has been running.

## Extending lamp life

The projector lamp is a consumable item. To extend the lamp life, you can make the following settings in the OSD menu.

### Setting Lamp Mode

Use the **Eco** mode to reduce system noise and power by 20%. If you select **Eco** mode, the light intensity will decrease and the projection pattern will be darker.

Setting the projector to **Eco** mode also extends the lamp life. To set **Eco** mode, go to **Advanced > Lamp Settings > Lamp Mode**, press **Enter** to enter the lamp mode, and then press **▲/▼** to select **Eco**, or press **Eco Mode** on the remote control to select.

### Setting Auto Power Off

This function allows the projector to turn off automatically when no input source is detected after the set time, to avoid unnecessary wastage of lamp life.

1. Open the OSD menu and go to the **Power Management > Smart Energy** menu.
2. Press **Enter** to display the **Smart Energy** page.
3. Select **Auto Power Off** and press **▲/▼** to select the time.
4. If the pre-set time length is not suitable for your needs, select **Disable**. The projector will not automatically shut down in a certain time period.

### Setting the Sleep Timer

This function allows the projector to shut down automatically after the set time, to avoid unnecessary wastage of lamp life.

1. Open the OSD menu and go to the **Power Management > Smart Energy** menu.
2. Press **Enter** to display the **Smart Energy** page.
3. Select **Sleep Timer** and press **▲/▼** to select the time.
4. If the length of the pre-set time does not apply to your presentation, select **Disable**. The projector will not automatically shut down in a certain time period.

### Set power saving

If no input source is detected after 5 minutes. The projector will reduce power consumption to avoid unnecessary waste of lamp life. You can further decide whether to let the projector turn off after the set time.

1. Open the OSD menu and go to the **Power Management > Smart Energy** menu.

2. Press Enter to display the **Smart Energy** page.
3. Select **Eco**. Press **▲/▼** and select **Enable**.
4. When **Enable** is selected, the projector lamp will be changed to **Eco** mode 5 minutes after no signal is detected. If the projector has not detected the signal after 20 minutes, its lamp power will be changed to **SuperEco** mode.

## Timing of replacing the lamp

When the lamp light is on, install a new light bulb or ask the dealer. The lamp may cause the projector to malfunction. In some cases, the bulb may burst.

### Note

If the lamp temperature is too high, the lamp indicator and temperature indicator will light up. Turn the power off and let the projector cool for 45 minutes. If the lamp is turned on again, the lamp indicator or temperature indicator will still be on. Please consult your dealer. For details, see page 46 “[LED Indicator](#)”.

## Replacing the lamp

 Turn off the power and unplug the projector from the wall outlet. To replace the lamp, contact a qualified service representative.

## Operations at high altitudes

We recommend using the **High Altitude Mode** when the environment is at 1500 to 3000 meters above sea level and the temperature is between 5°C to 25°C.

### Note

**Do not activate High Altitude Mode if the environment is at 0 to 1500 meters above sea level and the temperature is between 5°C to 35°C.**

**Activating High Altitude Mode under such circumstances will lead to excessive cooling of the projector.**

Activating **High Altitude Mode**:

1. Open the OSD menu and enter **System Settings > High Altitude Mode** menu.
2. Press **▼** and select **ON**.
3. Select **Yes**, and then press [Enter].



There is a chance that louder operational noises will be generated when using the projector in **High Altitude Mode**. The reason for this is the increased fan speed necessary to improve overall system cooling and performance.

Using this projector under extreme environments that exceed the aforementioned limits may lead to auto-shutdown designed to prevent overheating of the projector. Under such circumstances, you should switch to **High Altitude Mode** to solve these issues. However, this does not mean that this projector is able to operate under any and all harsh or extreme conditions.

## 3D functions

This projector also comes with 3D functions that offer greater depth and immersion when viewing 3D movies, videos, sports, and games. You would need a pair of 3D glasses when viewing 3D images and videos.

If the 3D signal comes from an HDMI 1.4a compatible device, this projector will look for a 3D Sync data signal. Once detected, the projector will automatically switch to 3D projection. Under other circumstances, you may need to manually select the 3D Sync format to ensure that the proper projection of 3D images.

Selecting 3D Sync formats:

1. Use the 3D button on the remote control to enter the **3D Settings** menu or enter **Advanced > 3D Settings** menu.
2. Press [Enter] to bring up the **3D Settings** page.



Once 3D Sync function has been activated:

- Brightness of the projected image will be reduced.
- Color modes cannot be adjusted.

• Zoom functions can only enlarge the image to a limited degree.

If the 3D image has been severely inverted, you may set the 3D Sync Invert function to [Invert] to correct this problem.

## Switch off the projector

1. Press the  Power button. A confirmation message will be displayed on screen. The message will disappear if you do not respond within a few seconds.
2. Press the  Power Button again, and the projector is turned off. Wait until the fan is completely stopped and unplug the power cord.
3. Disconnect the power cord from the wall socket if the projector will not be used in an extended period of time.

# Menu operations

## Menu system

Please note that the on-screen display (OSD) menu may vary according to the type of signal received.

The projector must detect at least one valid signal in order to use the menu items. If no device has been connected to the projector or if no signal has been detected, only a few menu items will be accessible.

Main menu	Sub-menu	Options
1. Display	Screen Color	Off / Blackboard / Green board / White board
	Aspect Ratio	Auto/4:3/16:9/2.35:1
	Keystone	-40~40
	Position	Up/Down: -5~5 Left/Right: -5~5
	Phase	0~31
	H. Size	-15~15
	Zoom	0.8X~2.0X
	OverScan	0~5
	3X Fast Input	Inactive/Active
2. Image	Color mode	Standard/ Presentation/ Movie/ Brightest/ Photo
	Brightness	0~100
	Contrast	-50~50
	Color Temperature	Warm
		Normal
		Cool
	Advanced	Red gain/Green gain/Blue gain/ Red offset/Green offset/Blue offset
		Color
		Hue
	Color Management	Sharpness
		Gamma
		C1/C2/C3/C4/C5/C6/C7/C8/G1/G2/ G3/G4/G5/DICOM SIM/sRGB
	Brilliant Color	Off/1/2/3/4/5/6/7/8/9/10
	Noise Reduction	0~31
	Color Management	Red/ Green/ Blue/ Primary color Cyan/ Magenta/ Yellow
		Tint
		Saturation
		Gain
Reset color settings		Reset/Cancel

Main menu	Sub-menu	Options		
3. Power Management	Auto Power On	Direct power on Auto Power Off	On/Off Disable/10 min/20 min/30 min	
	Smart Energy	Sleep Timer Power Saving	Disable/30 min/1 hr/2 hr/3 hr/4 hr/8 hr/12 hr Disable/Enable	
	Smart Restart		Disable/Enable	
	Quick Power Off		Disable/Enable	
	Audio Settings	Mute	On/Off	
		Volume	0~20	
4. Basic		Timer Period Timer Display	1/2/3/4/5/10/15/20/60/120/240 Always/1 min/2 min/3 min/Never	
		Timer Position	Top-Left/Bottom-Left/Top-Right//Bottom-Right	
		Timer Counting Direction	Count Down/Count Up	
		Start Counting	On/Off	
Pattern		Off / Test Card / Note Pad / World Map / Stave / Trellis Chart		
Blank Timer		Disable/5 min/10 min/15 min/20 min/25 min/30 min		
5. Advanced	Message	On/Off		
	Splash Screen	Black/Blue/ViewSonic/Off		
	3D settings	3D Sync	Off/Frame Sequential/Frame Packing/Top-Bottom/Side-by-Side/Auto	
		3D Sync Invert	Disable/Enable	
	HDMI settings	HDMI Format	Auto/RGB/YUV	
		HDMI Range	Auto/Enhanced/Normal	
		HDMI Cable	Long/Normal	
Lamp Settings	Lamp Mode	Normal/Eco/Dynamic/SuperEco		
	Reset Lamp Hours	Reset/Cancel		
	Lamp Hours			
	DCR	On/Off		
Closed Caption		Off/CC1/CC2/CC3/CC4		
	Reset settings	Reset/Cancel		

Main menu	Sub-menu	Options
6. System	Language	Multi-language OSD selection
	Projector Position	Front Table/Rear Table/Rear Ceiling/Front Ceiling
	Menu Settings	Menu Display Time 5 sec/10 sec/15 sec/20 sec/25 sec/30 sec
		Menu Position Center/Top-Left/Top-Right/Bottom-Left/Bottom-Right
	High Altitude Mode	On/Off
	Quick Auto Search	On/Off
	Security Settings	Change Password Input Current Password/Input New Password
		Power On Lock On/Off
	Panel Key Lock	On/Off
	Remote control code	1/2/3/4/5/6/7/8
	RS232 Baud Rate	2400/4800/9600/14400/19200/ 38400/57600/115200
7. Information	<ul style="list-style-type: none"> <li>• Source</li> <li>• Color Mode</li> <li>• Resolution</li> <li>• Color System</li> <li>• Firmware Version</li> <li>• 3X Fast Input</li> </ul>	

Note: 1. Due to the update, it does not conform to the above content, without notice.

## Description of each menu

	Function	Description
1. Display menu	Screen Color	See “ <a href="#">Using Screen Color</a> ” for details.
	Aspect Ratio	See “ <a href="#">Selecting the aspect ratio</a> ” for details.
	Keystone	See “ <a href="#">Perform keystone correction</a> ” for details.
	Position	<p>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.</p> <p> This function is only available when a PC input signal is selected.</p> <p> The adjustment range may vary under different timings.</p>
	Phase	<p>Adjusts the clock phase to reduce image distortion.</p>  <p> This function is only available when a PC input signal is selected.</p>
	H. Size	<p>Adjusts the horizontal width of the image.</p> <p> This function is only available when a PC input signal is selected.</p>
	Zoom	Zoom in or out picture.
2. Image menu	OverScan	To avoid the appearance of the distorted image at the edge of the screen, use over-scanning technology to expand the image by 5% or even 10%, and the distorted image extends to the place outside the screen; only the middle part with better linearity is shown.
	3X Fast Input	Selecting <b>On</b> enables the function. This feature helps reduce the frame rate. Enabling quick response in local timing. The following settings will return to factory defaults when enabled: aspect ratio, keystone correction, position, zoom, over scan. This function is only available if the optimum resolution input signal is selected.
	Color mode	See “ <a href="#">Selecting a picture mode</a> ” for details.
	Brightness	See “ <a href="#">Adjusting Brightness</a> ” for details.
	Contrast	See “ <a href="#">Adjusting Contrast</a> ” for details.
	Color Temperature	For more details, please refer to “ <a href="#">Selecting a Color Temperature</a> ” and “ <a href="#">Setting a preferred color temperature</a> ”.

	<b>Function</b>	<b>Description</b>
2. Image menu	<b>Advanced</b>	<p><b>Color</b> See “<a href="#">Adjusting Color</a>” for details.</p> <p><b>Tint</b> See “<a href="#">Adjusting Tint</a>” for details.</p> <p><b>Sharpness</b> See “<a href="#">Adjusting Sharpness</a>” for details.</p> <p><b>Gamma</b> See “<a href="#">Selecting a Color Temperature</a>” for details.</p> <p><b>Brilliant Color</b> See “<a href="#">Adjusting Brilliant Color</a>” for details.</p> <p><b>Noise Reduction</b> See “<a href="#">Reducing image noise</a>” for details.</p> <p><b>Color Management</b> See “<a href="#">Color Management</a>” for details.</p>
	<b>Reset color settings</b>	Returns all color settings to the factory preset values.
3. Power Management menu	<b>Auto Power On</b>	<p><b>Direct power on</b> Selecting <b>On</b> allows the projector to turn on automatically once the power is fed through the power cord.</p>
	<b>Smart Energy</b>	<p><b>Auto Power Off</b> See “<a href="#">Setting Auto Power Off</a>” for details.</p> <p><b>Sleep Timer</b> See “<a href="#">Setting the Sleep Timer</a>” for details.</p> <p><b>Power Saving</b> See “<a href="#">Set power saving</a>” for details.</p>
	<b>Smart Restart</b>	This feature requires some start-up time. Make sure the projector is on for more than 4 minutes and select <b>Enable</b> to re-start the projector immediately within 120 seconds after the projector is turned off. The projector will directly enter Standby Mode if it is not re-activated after 120 seconds.
	<b>Quick Power Off</b>	<p>On: The quick start function reduces the cooling process time when the projector is turned off.</p> <p>Off: Shut down and perform the cooling process.</p> <p>If you select <b>Invalid</b>, the Smart Re-start feature will automatically turn off.</p>

	<b>Function</b>	<b>Description</b>
<b>4. Basic menu</b>	<b>Audio Settings</b>	<b>Mute</b> Muting the sound. <b>Volume</b> Adjusting the sound level.
	<b>Presentation Timer</b>	See “ <a href="#">Setting the Presentation Timer</a> ” for details.
	<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>Blank Timer</b>	See “ <a href="#">Hiding the image</a> ” for details.
	<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>Splash Screen</b>	Allows you to select which logo screen will be displayed during projector start-up.
<b>5. Advanced menu</b>	<b>3D settings</b>	See “ <a href="#">3D functions</a> ” for details.
	<b>HDMI settings</b>	See “ <a href="#">Changing HDMI input settings</a> ” for details.
	<b>Lamp Settings</b>	See “ <a href="#">Lamp Settings</a> ” for details.
	<b>DCR</b>	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.  <b>This function is only available when a PC input signal is selected.</b>  <b>After enabling DCR, frequent Lamp mode switching may shorten Lamp life and noise level will vary during operation.</b>
	<b>Closed Caption</b>	Selects a preferred closed captioning mode when the selected input signal carries closed captions. <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).  <b>This function is only available when a Composite video input signal is selected and its system format is NTSC.</b> <b>Caption Version</b> To view captions, select CC1, CC2, CC3, or CC4 (CC1 displays captions in the primary language in your area).</li></ul>
	<b>Reset settings</b>	Returns all settings to the factory preset values.  <b>The following settings will still remain: Keystone, Language, Projector Position, High Altitude Mode, Security Settings, and Remote Control Code.</b>

	<b>Function</b>	<b>Description</b>
<b>6. SYSTEM menu</b>	<b>Language</b>	Sets the language for the On-Screen Display (OSD) menus. See “ <a href="#">Using the menus</a> ” for details.
	<b>Projector Position</b>	See “ <a href="#">Choosing a location</a> ” for details.
	<b>Menu Settings</b>	<b>Menu Display Time</b> 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.
		<b>Menu Position</b> Sets the On-Screen Display (OSD) menu position.
	<b>High Altitude Mode</b>	A mode for operation in high altitude areas. See “ <a href="#">Operations at high altitudes</a> ” for details.
	<b>Quick Auto Search</b>	See “ <a href="#">Switching input signal</a> ” for details.
	<b>Security Settings</b>	See “ <a href="#">Disabling the password function</a> ” for details.
	<b>Panel Key Lock</b>	See “ <a href="#">Locking control keys</a> ” for details.
	<b>Remote control code</b>	See “ <a href="#">Remote control code</a> ” for details.
<b>7. Information menu</b>	<b>Current System Status</b>	<b>Source</b> Shows the current signal source.
		<b>Color mode</b> Shows the selected mode in the <b>Image</b> menu.
		<b>Resolution</b> Shows the native resolution of the input signal.
		<b>Color System</b> Shows the input system format.
		<b>Firmware Version</b> Shows the current firmware version.
		<b>3X Fast Input</b>

# Maintenance

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## Care of the projector

Do not attempt to disassemble any part of the projector. Contact your dealer if you need to replace any parts.

### Cleaning the lens

You can clean the dust-free glass lens if you notice any dirt or dust on its surface.

- Use a canister of compressed air to remove dust.
- Use a lens cleaning wipe or soft, or a moist cloth with some detergent to clean away any dust or dirt on the dust-free glass.



#### Note

Do not apply any granule material on the dust-free glass.

### Cleaning the projector case

Before cleaning the case, please refer to the proper shutdown procedure described in “Switch off the projector” to shutdown the projector and unplug the power cable.

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



#### Note

Never use wax, alcohol, benzene, thinners, or other chemical-based detergents. These can damage the case.

### Storing the projector

Follow the instructions below to store the projector for an extended time:

- Make sure the temperature and humidity of the storage area are within the recommended range for the projector. Please refer to “Specifications” or inquire your dealer for details of the recommended range.
- Retract the projector support pegs.
- Remove the battery from the remote control.
- Pack the projector in its original packaging or equivalent material.

### Transporting the projector

It is recommended that you ship the projector within its original packaging or equivalent material.

## LED Indicator

Projector status	Power indicator	Temp indicator	Lamp indicator
Stand-by mode	BLUE	Off	Off
Normal Operations	Before turning on, constantly lit after flashing for ten seconds	Off	Off
Temperature 1	BLUE	Flashing	Off
Temperature 2	BLUE	RED	Off
Fan Error 1	Off	RED	Flashing
Fan Error 2	Off	Flashing	Flashing
Fan Error 3	Off	RED	RED
Color Wheel Error	Off	Flashing	RED
Lamp abnormal	Off	Off	RED
Lamp-Lit error cooling	BLUE	Off	Flashing
Temperature Error	Off	RED	Off

# Troubleshooting

## ① Projector is not shutting down

Cause	Remedy
There is no power from the power cable.	Plug one end of the power cable at the AC inlet of the projector and the other end in 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.

## ② No picture

Cause	Remedy
Video source is not turned on or is not connected correctly.	Switch 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 by using the [Source] key on the projector or remote control.

## ③ Blurred image

Cause	Remedy
The projection lens is not correctly focused.	Use the focus function to adjust lens focus.
The projector and the screen are not aligned properly.	Adjust projection angle and direction as well as the height of the projector where necessary.

## ④ Remote control does not work

Cause	Remedy
The battery is out of power.	Replace the batteries.
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.
The remote control does not match the remote control code of the projector.	Adjust the remote control code.

# **Specifications**

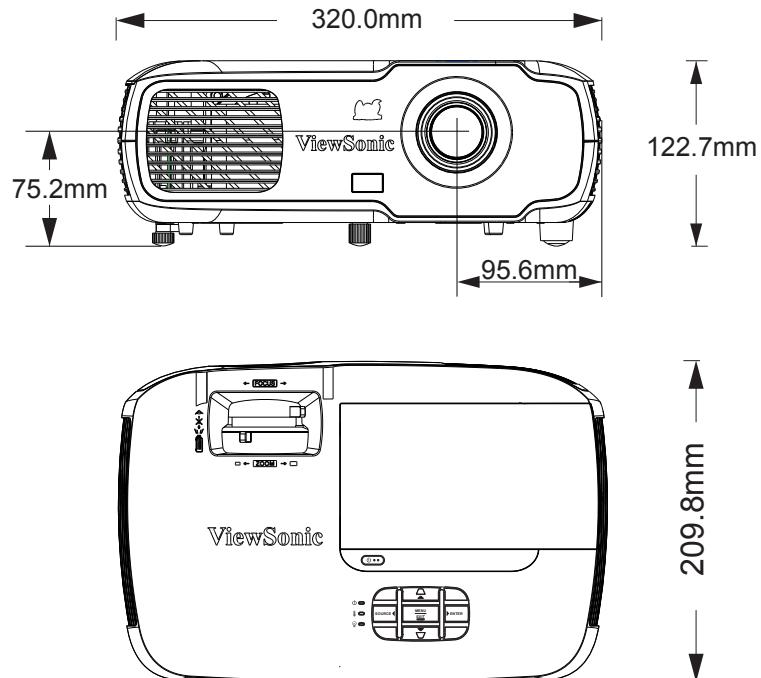
## **Projector specifications**



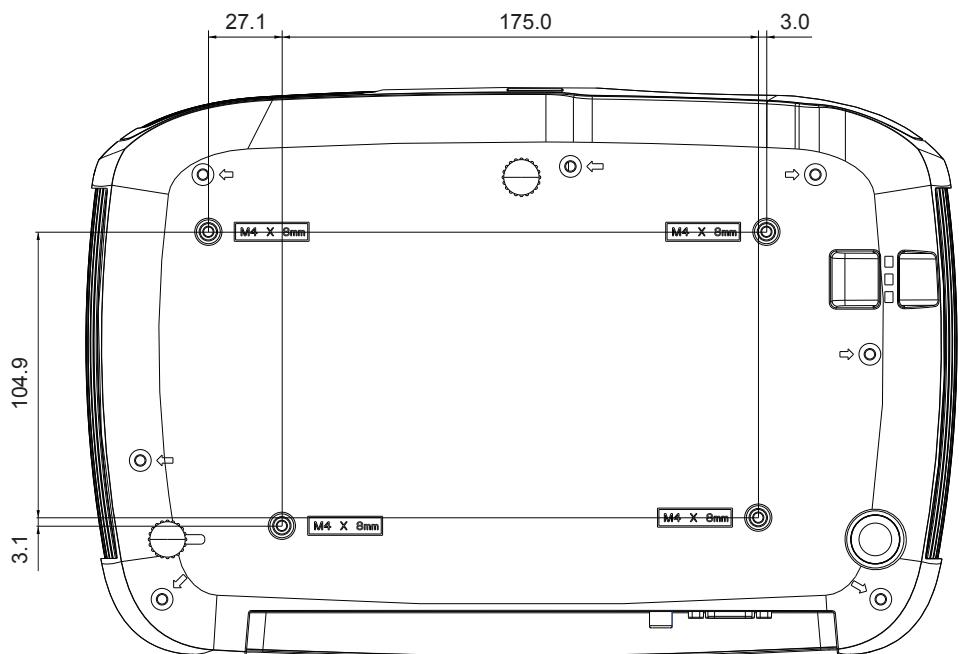
- All specifications are subject to change without notice.
- Not all projector models are available at your location.

		PA502S	PA502SP	PA502X	PA502XP
<b>Input Terminals</b>					
1	VGA Input (DB 15 pin)	x1	x1	x1	x1
2	HDMI (v1.4)	x1	x1	x1	x1
3	Video (RCA)	x1	x1	x1	x1
4	Audio In(3.5mm mini jack)	x1	x1	x1	x1
<b>Output Terminals</b>					
1	Audio Out (3.5mm mini jack)	x1	x1	x1	x1
2	USB (Type A) 5V/1A	x1	x1	x1	x1
<b>Control Terminals</b>					
1	RS232 (9 pin type1)	x1	x1	x1	x1
2	USB (Type mini B)	x1	x1	x1	x1

# Dimensions



## Ceiling mount installation



**Note:** It is recommended to use the M4L8 screw for fixing the projector using the M4 screw hole. (M4/ L8 x 4)

## Timing chart

Analog RGB			
Signal	Resolution (pixels)	Aspect Ratio	Refresh rate (Hz)
VGA	640x480	4:3	60/72/75/85
SVGA	800x600	4:3	60/72/75/85
XGA	1024x768	4:3	60/70/75/85
	1152x864	4:3	75
WXGA	1280x768	15:9	60
	1280x800	16:10	60/75/85
	1360x768	16:9	60
	1366x768	16:9	60
Quad-VGA	1280x960	4:3	60/85
SXGA	1280x1024	5:4	60
SXGA+	1400x1050	4:3	60
WXGA+	1440x900	16:10	60
UXGA	1600x1200	4:3	60
WSXGA+	1680x1050	16:10	60
HD	1280x720	16:9	60
MAC 13"	640x480	4:3	67
MAC 16"	832x624	4:3	75
MAC 19"	1024x768	4:3	75
MAC 21"	1152x870	4:3	75
HDTV (1080p)	1920x1080	16:9	60

HDMI			
Signal	Resolution (pixels)	Aspect Ratio	Refresh rate (Hz)
VGA	640x480	4:3	60
SVGA	800x600	4:3	60
XGA	1024x768	4:3	60
WXGA	1280x768	15:9	60
	1280x800	16:10	60
	1360x768	16:9	60
	1366x768	16:9	60
Quad-VGA	1280x960	4:3	60
SXGA	1280x1024	5:4	60
SXGA+	1400x1050	4:3	60
WXGA+	1440x900	16:10	60
WSXGA+	1680x1050	16:10	60
HDTV (1080p)	1920x1080	16:9	50/60
HDTV (1080i)	1920x1080	16:9	50/60
HDTV (720p)	1280x720	16:9	50/60
SDTV(480p)	720x480	4:3/16:9	60
SDTV(576p)	720x576	4:3/16:9	50
SDTV (480i)	720x480	4:3/16:9	60
SDTV (576i)	720x576	4:3/16:9	50

3D (including HDMI signal)			
Signal	Resolution (pixels)	Aspect Ratio	Refresh rate (Hz)
SVGA	800x600	4:3	60*/120**
XGA	1024x768	4:3	60*/120**
HD	1280x720	16:9	50*60*
WXGA	1280x800	16:9	60*

For Video Signal

Signal	Resolution (pixels)	Aspect Ratio	Refresh rate (Hz)
SDTV (480i)***	720x480	4:3/16:9	60

 \* 50 Hz and 60 Hz signals are supported for side by side, Top and Bottom, and Frame Sequential formats.  
 \*\* 120Hz signal only supports the frame Sequential format.  
 \*\*\* The video signal (SDTV 480i) supports only the frame Sequential format.

HDMI 3D			
Within frame packing formats			
Signal	Resolution (pixels)	Aspect Ratio	Refresh rate (Hz)
1080p	1920x1080	16:9	23.98/24
720p	1280x720	16:9	50/59.94/60
Within side by side formats			
Signal	Resolution (pixels)	Aspect Ratio	Refresh rate (Hz)
1080i	1920x1080	16:9	50/59.94/60
720p	1280x720	16:9	50/60
Within Top and Bottom formats			
Signal	Resolution (pixels)	Aspect Ratio	Refresh rate (Hz)
1080p	1920x1080	16:9	23.98/24
720p	1280x720	16:9	50/59.94/60

Component video			
Signal	Resolution (pixels)	Aspect Ratio	Refresh rate (Hz)
HDTV (1080p)	1920x1080	16:9	50/60
HDTV (1080i)	1920x1080	16:9	50/60
HDTV (720p)	1280x720	16:9	50/60
SDTV(480p)	720x480	4:3/16:9	60
SDTV(576p)	720x576	4:3/16:9	50
SDTV (480i)	720x480	4:3/16:9	60
SDTV (576i)	720x576	4:3/16:9	50

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

# ***Copyright information***

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# **Appendix**

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## **IR control table**

Button	Format	Code 1	Code 2	Code 3	Code 4
PgDn	NEC	83	F4	05	FA
PgUp	NEC	83	F4	06	F9
Blank	NEC	83	F4	07	F8
Auto Sync	NEC	83	F4	08	F7
Up	NEC	83	F4	0B	F4
Down	NEC	83	F4	0C	F3
Left	NEC	83	F4	0E	F1
Right	NEC	83	F4	0F	F0
Color mode	NEC	83	F4	10	EF
Mute	NEC	83	F4	14	EB
Input	NEC	83	F4	15	EA
Powering up	NEC	83	F4	4F	A0
Power Off	NEC	83	F4	4E	A1
Exit	NEC	83	F4	28	D7
Eco mode	NEC	83	F4	2B	D4
Menu	NEC	83	F4	30	CF
Source	NEC	83	F4	40	BF
Pattern	NEC	83	F4	55	AA
Video	NEC	83	F4	52	ad
HDMI	NEC	83	F4	58	A7
Volume+	NEC	83	F4	82	7D
Volume-	NEC	83	F4	83	7C
Zoom	NEC	83	F4	67	98
Zoom in	NEC	83	F4	68	97
Freeze	NEC	83	F4	03	FC
Aspect	NEC	83	F4	13	EC
COMP	NEC	83	F4	41	BC
Information	NEC	83	F4	97	68

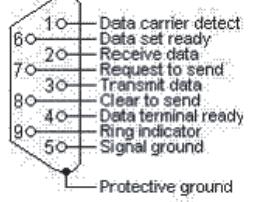
## Address Code

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

## RS232 command table

<Pin assignment for this two end>

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



<Interface>

RS-232 protocol	
Baud Rate	115200bps (default)
Data Length	8 bit
Parity check	None
Stop bit	1 bit
flow control	None

## <RS232 Command List>

FUNCTION	Status	Operation	cmd
Power supply	Write	Activate	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x00 0x00 0x5D
		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	Execute		0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x02 0x00 0x5F
Splash Screen	Write	Splash Screen - Black	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0xA 0x00 0x67
		Splash Screen - Blue	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0xA 0x01 0x68
		Splash Screen - ViewSonic	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0xA 0x02 0x69
		Splash Screen - OFF	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0xA 0x04 0x6B
	Read	Splash Screen status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0xA 0x68
High Altitude Mode	Write	High Altitude Mode OFF	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0xC 0x00 0x69
		High Altitude Mode ON	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0xC 0x01 0x6A
	Read	High Altitude Mode status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0xC 0x6A
Lamp Mode	Write	Normal	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x10 0x00 0x6D
		Eco	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x10 0x01 0x6E
		dynamic	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x10 0x02 0x6F
		supereco	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x10 0x03 0x70
	Read	Lamp Mode status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x10 0x6E
Message	Write	Message OFF	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x27 0x00 0x84
		Message ON	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x27 0x01 0x85
	Read	Message status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x27 0x85

Projector Position	Write	Front Table	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x00 0x00 0x5E
		Rear Table	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x00 0x01 0x5F
		Real 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
		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	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 2.35:1	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x07 0x69
	Read	Aspect Ratio	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x04 0x63
Auto Adjust		Execute	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x05 0x00 0x63
Horizontal position	Write	Horizontal position shift right	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x06 0x01 0x65
		Horizontal position shift left	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x06 0x00 0x64
	Read	Horizontal position	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x06 0x65
Vertical position	Write	Vertical Position shift up	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x07 0x00 0x65
		Vertical Position shift down	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x07 0x01 0x66
	Read	Read vertical position	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x07 0x66
Temperature Color	Write	Color Temperature Warm	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x08 0x00 0x66
		Color Temperature Normal	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x08 0x01 0x67
		Color Temperature Cool	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x08 0x03 0x69
	Read	Color Temperature status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x08 0x67
Blank	Write	Blank ON	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x09 0x01 0x68
		Blank OFF	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x09 0x00 0x67
	Read	Blank status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x09 0x68
Keystone Correction - 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 Correction 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
		Standard	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x06 0x6F
		Photo	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x13 0x7C
		Presentation	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x14 0x7D
	Read	Preset Mode status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x0B 0x6A
Primary color	Write	Original Color R	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x10 0x00 0x6E
		Original Color G	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x10 0x01 0x6F
		Original Color B	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x10 0x02 0x70
		Original Color C	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x10 0x03 0x71
		Original Color M	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x10 0x04 0x72
	Read	Original 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 HDMI	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x01 0x03 0x63
		Input source Composite video	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x01 0x05 0x65
	Read	Source	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x13 0x01 0x61
Quick Auto Search	Write	Quick Search ON	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x02 0x01 0x62
		Quick Search OFF	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x02 0x00 0x61
	Read	Quick Search status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x13 0x02 0x62

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
		ไทย	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
		Tiếng Việt	0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x15 0x76
	Read	Language	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x15 0x00 0x62

HDMI Format	Write	RGB	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x28 0x00 0x85
		YUV	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x28 0x01 0x86
		Auto	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x28 0x02 0x87
	Read	HDMI Format status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x28 0x86
HDMI range	Write	Enhanced	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x29 0x00 0x86
		Normal	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x29 0x01 0x87
		Auto	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x29 0x02 0x88
	Read	HDMI Range status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x29 0x87
Brilliant Color	Write	Brilliant Color 0	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0xF 0x00 0x6D
		Brilliant Color 1	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0xF 0x01 0x6E
		Brilliant Color 2	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0xF 0x02 0x6F
		Brilliant Color 3	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0xF 0x03 0x70
		Brilliant Color 4	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0xF 0x04 0x71
		Brilliant Color 5	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0xF 0x05 0x72
		Brilliant Color 6	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0xF 0x06 0x73
		Brilliant Color 7	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0xF 0x07 0x74
		Brilliant Color 8	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0xF 0x08 0x75
		Brilliant Color 9	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0xF 0x09 0x76
		Brilliant Color 10	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0xF 0xA 0x77
	Read	Brilliant Color status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0xF 0x6E

Remote control code	Write	Code 1	0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x00 0xA0
		Code 2	0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x01 0xA1
		Code 3	0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x02 0xA2
		Code 4	0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x03 0xA3
		Code 5	0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x04 0xA4
		Code 6	0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x05 0xA5
		Code 7	0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x06 0xA6
		Code 8	0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x07 0xA7
	Read	Remote Control Code status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x0C 0x48 0xA1
Screen Color	Write	Screen Color OFF	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x32 0x00 0x8F
		Backboard	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x32 0x01 0x90
		Green board	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x32 0x02 0x91
		Whiteboard	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x32 0x03 0x92
	Read	Screen Color status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x32 0x90
Overscan	Write	Overscan OFF	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x00 0x90
		Overscan 1	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x01 0x91
		Overscan 2	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x02 0x92
		Overscan 3	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x03 0x93
		Overscan 4	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x04 0x94
		Overscan 5	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x05 0x95
	Read	Overscan status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x33 0x91

Remote Key	Write	Menu	0x02 0x14 0x00 0x04 0x00 0x34 0x02 0x04 0x0F 0x61
		Exit	0x02 0x14 0x00 0x04 0x00 0x34 0x02 0x04 0x13 0x65
		Up	0x02 0x14 0x00 0x04 0x00 0x34 0x02 0x04 0x0B 0x5D
		Down	0x02 0x14 0x00 0x04 0x00 0x34 0x02 0x04 0x0C 0x5E
		Left	0x02 0x14 0x00 0x04 0x00 0x34 0x02 0x04 0x0D 0x5F
		Right	0x02 0x14 0x00 0x04 0x00 0x34 0x02 0x04 0x0E 0x60
		Source	0x02 0x14 0x00 0x04 0x00 0x34 0x02 0x04 0x04 0x56
		Input	0x02 0x14 0x00 0x04 0x00 0x34 0x02 0x04 0x15 0x67
		Auto	0x02 0x14 0x00 0x04 0x00 0x34 0x02 0x04 0x08 0x5A

## 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 C = CHAT ONLINE	Email
Australia New Zealand	<a href="http://www.viewsonic.com.au">www.viewsonic.com.au</a>	AUS= 1800 880 818 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= 1-866-463-4775	<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/eu/support/call-desk/">http://www.viewsoniceurope.com/eu/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 419 0959	<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	<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 2833 8407	<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 & Virgin Islands	<a href="http://www.viewsonic.com">www.viewsonic.com</a>	T= 1-800-688-6688 (English) 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> <a href="mailto:soporte@viewsonic.com">soporte@viewsonic.com</a>
Singapore/ 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= 1-800-688-6688	<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, failure, or malfunction resulting from:
  - a. Accident, abuse, misuse, neglect, fire, water, lightning, or other acts of nature, improper maintenance, unauthorized product modification, or failure to follow instructions supplied with the product.
  - b. Operation outside of product specifications.
  - c. Operation of the product for other than the normal intended use or not under normal conditions.
  - d. Repair or attempted repair by anyone not authorized by ViewSonic.
  - e. Any damage of the product due to shipment.
  - f. Removal or installation of the product.
  - g. Causes external to the product, such as electric power fluctuations or failure.
  - h. Use of supplies or parts not meeting ViewSonic's specifications.
  - i. Normal wear and tear.
  - j. Any other cause which does not relate to a product defect.
3. Removal, installation, and set-up service charges.

**How to get service:**

1. For information about receiving service under warranty, contact ViewSonic Customer Support (please refer to "Customer Support" page). You will need to provide your product's serial number.
2. To obtain warranted service, you will be required to provide (a) the original dated sales slip, (b) your name, (c) your address, (d) a description of the problem, and (e) the serial number of the product.
3. Take or ship the product freight prepaid in the original container to an authorized ViewSonic service center or ViewSonic.
4. For additional information or the name of the nearest ViewSonic service center, contact ViewSonic.

**Limitation of implied warranties:**

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

**Exclusion of damages:**

ViewSonic's liability is limited to the cost of repair or replacement of the product.

ViewSonic shall not be liable for:

1. Damage to other property caused by any defects in the product, damages based upon inconvenience, loss of use of the product, loss of time, loss of profits, loss of business opportunity, loss of goodwill, interference with business relationships, or other commercial loss, even if advised of the possibility of such damages.
2. Any other damages, whether incidental, consequential or otherwise.
3. Any claim against the customer by any other party.

**Effect of local law:**

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

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

For warranty information and service on ViewSonic products sold outside of the U.S.A. and Canada, contact ViewSonic or your local ViewSonic dealer.

The warranty period for this product in mainland China (Hong Kong, Macao and Taiwan Excluded) is subject to the terms and conditions of the Maintenance Guarantee Card.

For users in Europe and Russia, full details of warranty provided can be found in [www.viewsoniceurope.com](http://www.viewsoniceurope.com) under Support/Warranty Information.

# Mexico Limited Warranty

## ViewSonic® Projector

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

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

### **How long the warranty is effective:**

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

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

All accessory lamps purchased separately are warranted for 90 days.

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

This warranty is valid only for the first consumer purchaser.

### **What the warranty does not cover:**

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

### **How to get service:**

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

### **For Your Records**

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

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

### **Limitation of implied warranties:**

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

### **Exclusion of damages:**

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

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

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

Projector Mexico Warranty Term Template In UG  
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