

# LS810/LS820/LS830 DLP Projector User Guide

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

Model No. VS16500/VS16501/VS16460

# **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 (Cr6+)	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. Lead in glass of cathode ray tubes.
- 2. Lead in glass of fluorescent tubes not exceeding 0.2% by weight.
- 3. Lead as an alloying element in aluminium containing up to 0.4% lead by weight.
- 4. Copper alloy containing up to 4% lead by weight.
- 5. Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead).
- Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.

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### **Product Registration**

To fulfill possible future product needs, and to receive additional product information as it becomes available, please visit your region section on ViewSonic's website to register your product online.

The ViewSonic CD also provides an opportunity for you to print the product registration form. Upon completion, please mail or fax to a respective ViewSonic office. To find your registration form, use the directory ":\CD\Registration". Registering your product will best prepare you for future customer service needs. Please print this user guide and fill the information in the "For Your Records" section. For additional information, please see the "Customer Support" section in this guide.

#### For Your Records

Product Name: LS810/LS820/LS830

ViewSonic DLP Projector

Model Number: VS16500/VS16501/VS16460

**Document Number:** LS810/LS820/LS830 UG ENG Rev. 1A 06-21-16

Serial Number:

**Purchase Date:** 

#### Product disposal at end of product life

The lightsource in this product contains mercury which can be dangerous to you and the environment. Please use care and dispose of in accordance with local, state or federal laws.

ViewSonic respects the environment and is committed to working and living green. Thank you for being part of Smarter, Greener Computing. Please visit ViewSonic website to learn more.

USA & Canada: http://www.viewsonic.com/company/green/recycle-program/ Europe: http://www.viewsoniceurope.com/uk/support/recycling-information/

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

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# Key safety instructions

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 directly into the projector lens during use. 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.
- Stable line voltage may not be available in certain countries. 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 object when using the projector as this could cause the said objects to overheat, deform, or even cause a fire. To temporarily turn off the light source, press the [BLANK] button on the projector or remote control.
- Do not place the projector on an unstable cart, stand, or table. 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 the 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/104°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 object 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 comply with the relevant requirements and ensure that the installation is secure.

- When the projector is under operation, you may sense some heated air and odor from its ventilation grill. This 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

### **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.

- Presentation Timer offers better time management during presentations
- 3D Display supported
- Color Management allows you to adjust colors according to your preferences
- Screen Color Correction allows projection on surfaces with various pre-defined colors
- · Quick auto search speeding up the signal detecting process
- Color mode provides different options designed for different projection purposes
- Select Fast Shutdown
- Digital Keystone Correction and 4 Corner Adjustments (available for selected models) can help correct distorted images.
- Provides Color Management adjustments for digital / video displays
- Capable of displaying 1.07 billion colors
- Multi-language On-Screen Display (OSD) menus
- Switchable normal and economic modes to reduce the power consumption
- Compatible with Component HDTV (YPbPr)
- HDMI Consumer Electronics Control (CEC) allows synchronized power activation / shutdown operations when the projector is connected to a CEC-compatible DVD player or device via the HDMI input jack

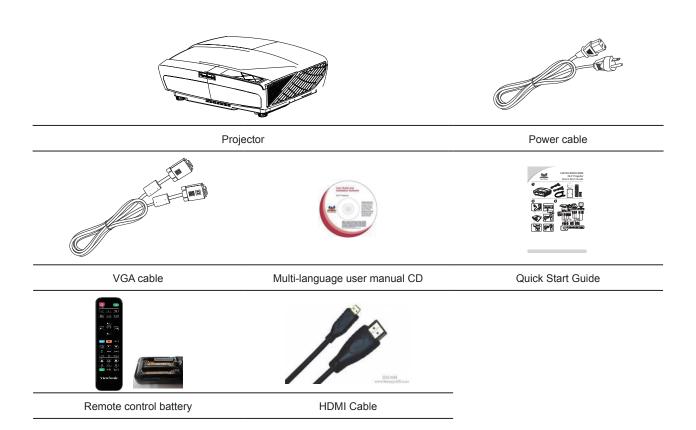
The apparent brightness of the projected image will vary depending on ambient lighting conditions, and selected input signal contrast/brightness settings. Brightness is also directly proportional to projection distance.

# **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 the dealer from whom you've purchased this projector.

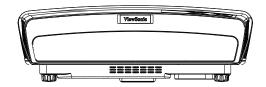
### Standard accessories

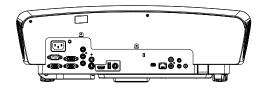
The supplied accessories will be suitable for your region, and may differ from those illustrated.



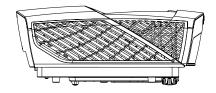
# **External appearance of the projector**

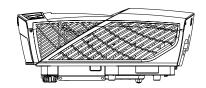
#### Front / rear



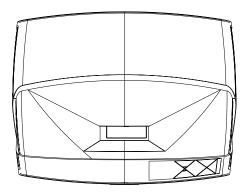


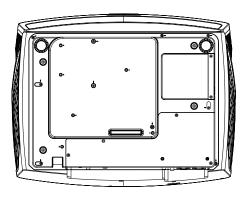
Side





Top / bottom



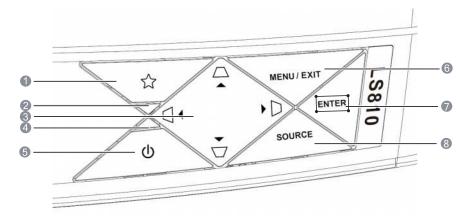


### **Warning**

- 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. **☆ (MY BUTTON)**

Allows the user to define buttons and hotkeys. These functions can be set using the OSD menu.

#### 2. STATUS LED

#### 3. □/□/□/□ (Keystone Correction buttons)

Manually corrects distorted images resulting from an angled projection.

#### ■Left/▶Right/▲Up/▼Down

Selects the required menu item to make adjustments.

#### 4. POWER LED

#### 5. **(POWER)**

Toggles the projector between standby mode and Power ON.

#### 6. MENU/EXIT

Open the OSD menu.

#### 7. ENTER

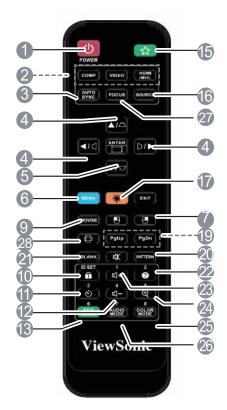
Enacts the selected On-Screen Display (OSD) menu item.

Displays the Corner Adj. page.

#### 8. SOURCE

Shows the Source Selection Bar.

#### **Remote Control**



To use the remote mouse cursor control buttons (Page Up, Page Down, ¶ and ¶), please refer to "Using the remote control cursor" for more details.

#### 1. U Power

Switches the projector between Standby and ON modes.

#### 2. Signal Selection button.

#### COMP

Select the signal source for the D-Sub/Comp. display.

#### VIDEO

Select the source of the Video displayed.

#### HDMI/MHL

Select the source of the HDMI/MHL displayed.

#### 3. Auto Sync

Automatically verifies the best picture quality for the image displayed.

# 4. □/□/□/□ (Keystone Correction buttons)

Manually corrects distorted images resulting from an angled projection.

#### **Left/ Right/ Up/ Down**

Selects the required menu item to make adjustments.

#### 5. Enter

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

#### 6. Menu

Open the OSD menu.

#### 7. [ (Left Mouse Button)

Once Cursor Mode has been activated, this key would have the same function as the Left Mouse Button.

Only available when PC input signals were selected.

#### 8. (Right Mouse Button)

Once Cursor Mode has been activated, this key would have the same function as the Right Mouse Button.

Only available when PC input signals were selected.

#### 9. Mouse

Switch between Normal and Cursor Mode.

PgUp, PgDn, , : Activated by pressing the [Mouse] button. The screen will display an icon that indicates Cursor Mode has been activated.

Only available when PC input signals were selected.

#### 10. (Panel Key Lock)

To disable Panel Key Lock after it has been activated, please press **a**.

#### 11. 🖄 (Presentation Timer)

Brings up the Presentation Timer settings menu.

#### 12. **◄**) (Volume)

Brings up the Volume Slider

#### 13. Eco Mode

Select light source Mode.

#### 15. **☆ (My Buttons)**

Allows the user to define hotkeys on the remote control. These functions can be set using the OSD menu.

#### 16. Source

Shows the Source Selection Bar.

#### 17. Laser

Emits a visible laser pointer beam which can be used during presentations.

#### 18. **Exit**

Goes back to the previous OSD menu. 28. (Aspect ratio) Exits and saves menu settings.

### 19. PgUp (Page Up)/PgDn (Page Down)

Can be used to operate the displayed software (Microsoft PowerPoint) running on the connected computer. When Cursor Mode is activated, these buttons will refer to the Previous Page and Next Page functions.

#### Only available when PC input signals were selected.

#### 20. Pattern

Shows the inbuilt testing screens.

#### 21. Blank

Hide screen image.

#### 22. **②** (Help)

Brings up the Help menu.

#### 23. **(Mute)**

Toggles the projector audio between on and off

#### 24. ♥ **(Zoom)**

Brings up the Zoom Bar which can be used to magnify or shrink the projected image.

#### 25. Color Mode

Selects an available Picture Setup mode.

#### 26. Audio Mode

Selects an Audio mode.

#### 27. Focusing ring

Adjusts the focus of the projected image.

Displays the aspect ratio selection bar.

### Use the laser pointer.

The laser pointer is a professional tool for supporting presentations. Press this button to emit a colored laser pointer beam. The laser beam emitted is within the visible spectrum. To generate the pointer beam continuously, press and hold the [Laser] button.

<u>(</u>)

Do not look at the laser light and do not aim the laser beam at yourself or other people. Please read the warning texts provided at the back of the remote control before use.

The laser pointer is not a toy. Parents should be aware of the hazards posed by laser energy and place the remote at a location not accessible to children.

#### Remote control code

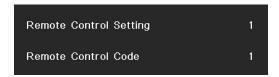
The projector is capable of having 8 different remote control codes (1 to 8). When using multiple projectors close to each other at the same time, switching the remote control codes will prevent projector disruption by other remote controls. First set the projector's remote control code then switch the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



### Using the remote control cursor

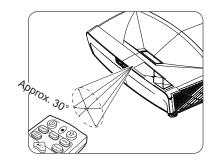
Use the remote control to operate your computer during presentations for greater flexibility

- 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. Press the [Mouse] button on the remote control to switch from Normal Mode to Cursor Mode. The screen will display an icon that indicates Cursor Mode has been activated.
- 4. Achieve mouse cursor functions through using your remote.
  - To move the cursor on screen, please press
  - To make a single click with the Left Mouse Button, please press  $\P$ .
  - To make a single click with the Right Mouse Button, please press .
  - To use the displayed software (such as Microsoft PowerPoint) of the connected computer, press PgUp/PgDn to go to the previous page or the next page.
  - To return to Normal mode, press the [Mouse] button again or press other functional buttons not related to the mouse functions.

### 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.



### 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 lid with the bottom part of the remote control and push downwards. Return the lid to its original position to complete the process.

### / Warning

- Avoid placing the remote control and battery in hot and humid environments such as kitchens, bathrooms, saunas, tanning rooms, or within vehicles.
- Replace batteries only with the same or equivalent type of batteries 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**

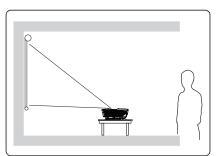
### **Choosing a location**

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.

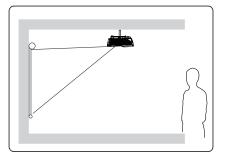


#### 2. Front Ceiling

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**.

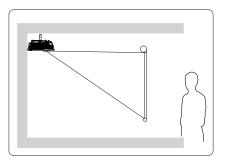


#### 3. Rear Ceiling

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**.

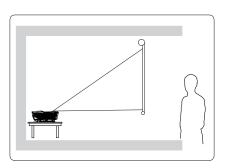


#### 4. Rear Table

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

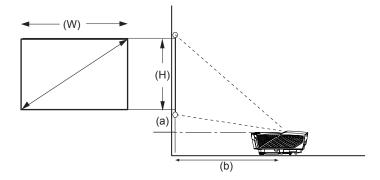
Note that a special rear projection screen is required.

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



# **Projection Dimension**

Screens mentioned in the following section refer to projection screens composed of a screen surface and supporting structures.



Distance from the center of the glass lens to the bottom peg: 115 mm

1080P	Unit: mm		Corresponding model:	LS820 LS830
Diagonal L	а	b	Screen width w	Screen height H
80"	209.6	405	1771	996
86"	229.4	442	1904	1071
90"	238^6	463	1992	1121
93"	248.0	481	2059	1158
100"	267.8	521	2214	1245
110"	296.8	577	2435	1370
120"	325.8	632	2657	1495
130"	346.9	692	2879	1619
140"	376.0	744	3099	1743
150"	404.0	800	3321	1868

WXGA	Unit: mm		Corresponding model:	LS810
Diagonal L	а	b	Screen width w	Screen height H
80"	188.92	411	1723	1077
86"	204.89	443	1852	1158
90"	215.54	465	1939	1212
93"	221.02	483	2003	1252
100"	238.95	519	2154	1346
103"	245.64	536	2219	1387
110"	266.77	578	2369	1481
120"	291.39	631	2585	1615
130"	314.00	687	2800	1750
140"	336.62	737	3015	1885
150"	362.23	791	3231	2019

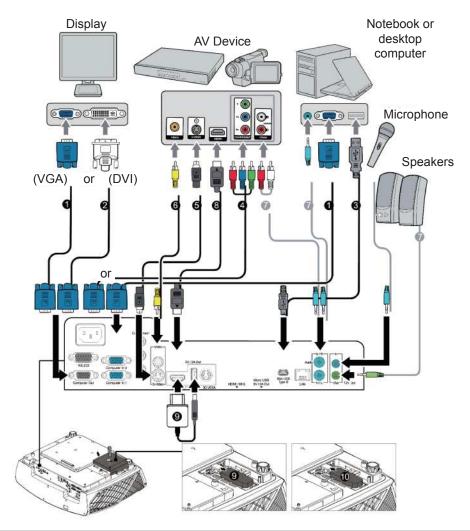
<sup>\*\*</sup> These figures are for reference purposes only. Refer to the actual projector for the precise dimensions.

# 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. Computer In
- 2. Computer Out
- 3. Mini USB
- 4. Component
- 5. S-Video

- 6. Video
- 7. Audio
- 8. HDMI + USB 5V/2A Out
- 9. HDMI + Micro USB
- 10. MHL

### 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 IN1 or IN2 signal input jack on the projector.
- 3. To use the remote mouse cursor control function, plug in the larger end of the USB cable to the USB port on the computer and the smaller end to the MINI USB jack on the projector. See "Using the remote control cursor" for details.

( 3	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.

#### Connect to the monitor

If you want the display to be shown both on the computer monitor as well as the screen, refer to the following instructions. Connect the VGA cable to the MONITOR OUT signal output jack on the projector as well as the external display.

- 1. Connect the projector to the computer as described in the [Connect to Computer] section.
- Use a suitable VGA cable (only 1 such cable is provided) and connect one end
  of the cable to the D-Sub input jack on the video display.
   If the display is provided with a DVI input jack, then connect the DVI end of the
  VGA-DVI-A cable to the DVI input jack on the video display.
- 3. Connect the other end of the cable to the COMPUTER OUT jack on the projector.

$\sim$	COMPUTER OUT output will only be generated when the cable is connected to the COMPUTEI IN jack of the projector.
$\cdot$	This connection mode can only be used when the projector is in Standby Mode. Go to Signal Source > Standby and activate the VGA Out function in the setup menu.

### **Connecting to Video source devices**

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

- HDMI
- Component video
- S- 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.

### Better video quality

S-video method provides slightly better simulation video compared to standard composite videos. If the video device is provided with both composite video and s-video output jacks, you should try to choose S-video connection first.

Please refer to "To connect the projector to a S-Video source device:" for details on how to connect your projector to S-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 audio**

The projector includes built-in dual-channel speakers that is designed to provide basic audio functionality accompanying data presentations for business purposes. It is not designed for, nor intended for stereo audio reproduction use as might be expected in home theater or home cinema applications.

### **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.

# 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.
- 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 IN1/IN2 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.

### To connect the projector to a S-Video source device:

Examine your Video source device to determine if an unused S-Video output socket 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 an S-Video cable and connect one end to the S-Video output socket of the Video source device.
- 2. Connect the other end of the S-Video cable to the S-VIDEO socket on the projector.
- 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.
- If you have already made a Component Video connection between the projector and this S-Video source device using Component Video connections, an S-Video connection will not be required as this is an unnecessary second connection of poorer picture quality. See "Connecting to Video source devices" for details.

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

### Audio playback with the projector

During demonstration, you may use the projector (mixed dual channel) speakers or connect separate sound systems with sound amplification functions to the AUDIO OUT sockets on the projector.

If you have a separate sound system, you should connect the audio output of your Video source device to this sound system instead of the mono audio input on the projector.

# **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 O 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.

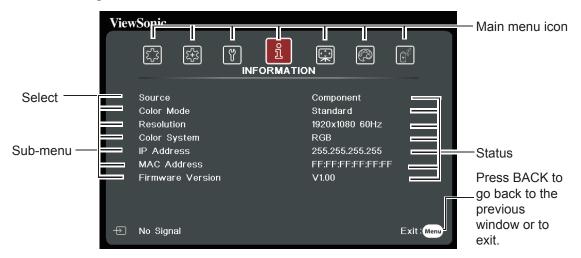
If the input signal frequency/resolution exceeds the working range of the projector, the blank screen will display the [Out of Range] message. Please change to an input signal which is compatible with the projector's resolution or set the input signal to a lower setting. For more details, please refer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

### Using the menus

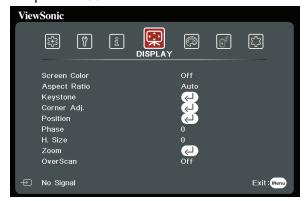
This projector is provided with an On-Screen Display (OSD) menu function, allowing you to make changes to various settings.

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

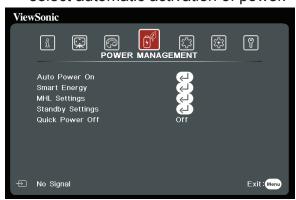
The following is an overview of the OSD menu.



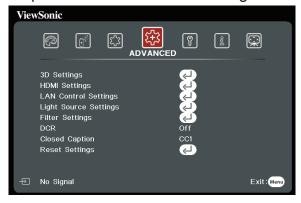
Press ▼ and select **Display**, then press ◄/▶ to select screen color.



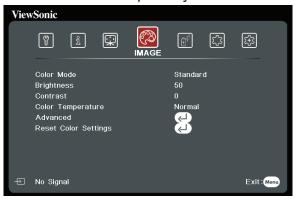
Press ▼ and select Power
 Management, then press ◄/▶ to select automatic activation of power.



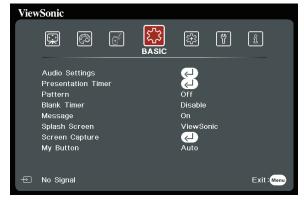
5. Press ▼ and select **Advanced**, then press **◄/**▶ to select 3D settings.



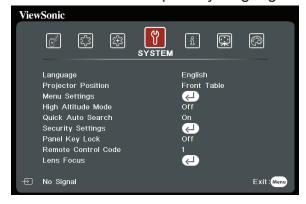
Press ▼ and select Image, then press
 Image, the press</



Press ▼ and select Basic, then press
 It to start audio channel setup.



6. Press ▼ and select **Systen**, then press ◄/▶ to select the primary language.



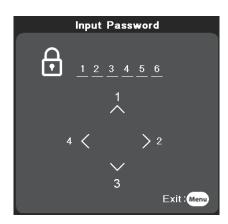
### Disabling the password function

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 [Menu Use] 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

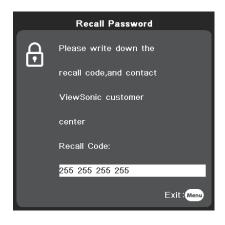
- Once a password has been set, the user must provide the correct password after starting the projector. Otherwise, the projector cannot be used.
- Open the OSD Menu and enter System setup > Advanced > Advanced > Security Settings menu.
- Press [Enter]. The **Security Settings** page will be displayed.
- 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.



- 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. The projector will display a coded number on the screen.
- 2. Write down the number and turn off your projector.
- 3. Seek help from the local service center to decode the number. You may be required to provide proof of purchase 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. Enter the password and confirm that password.
- 6. You have successfully assigned a new password to the projector. Remember to enter the new password next time the projector is started.
- 7. 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 Lock** Menu.
- 2. Press **◄/▶** and select **OFF**.
- 3. The [INPUT PASSWORD] message will be shown. Enter the current password.
  - If the password is correct, the OSD menu will return to the Security Settings
    page and show Power Lock in the [OFF] column. You will not have to enter the
    password next time you turn on the projector.
  - If the password entered is incorrect, then the password error message will be displayed for 5 seconds before the screen shows the [INPUT PASSWORD]. You will then need to re-enter the password. You can either press [Exit] to cancel the process or try other passwords.
- 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.

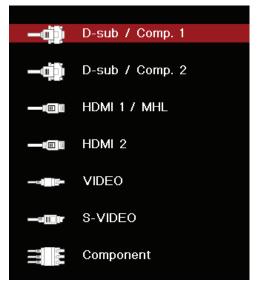
### Switching input signal

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 **Auto Quick Search** function in the **Source** 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.
- 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 **Display > 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.

• Auto. Sets the projector to automatically detect the fibrilitrange 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 "Correcting keystone".

### Auto-adjustments to the image

You may need to optimize picture quality in some cases. To do this, press and hold the [Auto Sync] button of the remote control. Within 5 seconds, the built-in Intelligent Auto Adjust function will re-adjust the values of Frequency and Clock to provide the best picture quality.

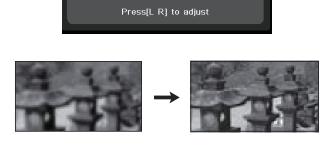
The current source information will be displayed in the upper left corner of the screen for 3 seconds.

When using Auto Adjust function, the entire screen will turn black.

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

### Auto-adjustments to image clarity

The focusing ring can be turned to adjust image clarity.



Lens Focus

### **Correcting keystone**

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. Press 

  to initiate Keystone Correction at the right side of the image. Press 

  to initiate Keystone Correction at the left side of the image.



- Using the OSD menu
- Open the OSD menu and open Display > Keystone Correction menu.

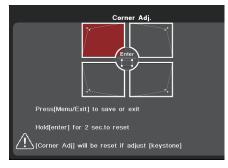


- 2. Press the □ button to initiate Keystone Correction at the top of the image or press the □ button to initiate Keystone Correction at the bottom of the image.
- 3. Open the OSD menu and open **Display > Keystone Correction** menu.
- 4. Press [Enter]. This will bring up the **Keystone Correction** page.
- 5. 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.
- 6. You can also select **Horizontal** and then press □ to initiate Keystone Correction at the right side of the image. Press □ to initiate Keystone Correction at the left side of the image.

### Adjusting the 4 corners

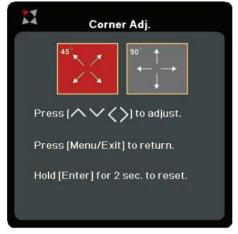
You may manually adjust the irregular shapes and sizes of the rectangular image manually.

- 1. To display the **Corner Adjustment** page, please follow any one of these steps:
  - i. Press [Enter].
  - ii. Open the OSD Menu and enter Display >
     Corner Adjustment menu and press [Enter].
     This will bring up the Corner Adjustment page.
- Press ◀/▲/▼/▶ to select the corner you wish to adjust, and then press [Enter].
- 3. Press **◄**/**▶** to select a suitable adjustment method and then press [Enter].
- 4. As shown in the screen, (▲/▼ to perform 45 degree adjustments and ◄/▲/▼/▶ to perform 90 degree adjustments). Please press ◄/▲/▼/▶ to adjust the shapes and size. You can press [Menu] or [Exit] to return to the previous step. Press and hold [Enter] for 2 seconds to reset the settings of the selected corner.
- Adjusting Keystone Correction will reset Corner Adjustment settings.



To display this page, press and hold [Enter] for 2 seconds to reset the settings for all 4 corners.

Shows the corner that you have selected.



After making Corner Adjustment settings, you will no longer be able to adjust certain aspect ratios or time sequences.

In case you need to perform these changes, please reset the settings for all 4 corners. The following message will be displayed:



#### Zoom out for detailed review

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 <sup>1</sup> 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  $(\blacktriangleleft, \blacktriangle, \blacktriangledown, \blacktriangleright)$  to move the image for browsing.
- 4. To shrink the image, press [Enter] again to return to the Zoom In/Out function and press ▼ repeatedly to restore the image to its original size. You can also press the [Auto Sync] button on the remote control to restore the image to its original size.
- Using the OSD menu
- Open the OSD menu to enter **Display > Zoom** menu.
- 2. Press [Enter]. This will bring up the Zoom Slider.
- 3. Repeat Steps 2-4 listed above in the Remote Control Use chapter.

The image can only be inspected after zooming out. You can zoom out further to inspect details.

### 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.

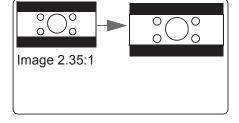
With the advent of digital signal processing, digital display devices like this projector can dynamically stretch and scale the image output to a different aspect than that of the image input signal.

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

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

### About the aspect ratio

- In the picture below, the black portions are inactive areas and the white portions are active areas. OSD menus can be displayed on those unused black areas.
- 1. **Auto**: 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.
- Image 16:9
- 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.
- | Image 4:3
- 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.
- Image 16:9
- **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 **Display** > **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. **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.
- 2. **Dynamic mode**: Used during daytime demonstration to match PC and notebook computer color tones. The projector will also refer to the projected contents and use dynamic PC functions to optimize image quality.
- **3. Standard mode**: Used during daytime demonstration to match PC and notebook computer color tones.
- **4. ViewMatch sRGB mode**: Switches between high brightness levels or precise color functions.
- **5. 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.

The available light source modes will be based upon th	ie selected	i coior mode.
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## **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 or HDMI 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 **Display** > **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 **Display** > **Contrast** menu and then press **◄**/▶.

The higher the value, the greater the contrast. After adjusting **brightness**, 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 **Display** > **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 S-Video, Video, YPbPr (digital) or YCbCr (digital).

#### **Adjusting Tint**

Enter **Display** > **Advanced** > **Tint** menu and then 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 signals are S-Video, Video, YPbPr (digital) or YCbCr (digital).

#### **Adjusting Sharpness**

Enter **Display** > **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 S-Video, Video, YPbPr (digital) or YCbCr (digital).

#### **Adjusting Brilliant Color**

Enter **Display** > **Advanced** > **Brilliant Color** menu, and then 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 **Display** > **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, or S-Video input signals were selected.

#### Selecting a gamma setting

Enter **Display** > **Advanced** > **Gamma** menu, and then press **◄**/▶ to choose the desired settings.

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

#### Selecting a Color Temperature

Enter **Display** > **Color Temperature** menu, and then press **◄**/▶.

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. Neutral**: White colors in the image will be provided with a light blue undertone.
- **3. Normal**: Maintains a normal white color tone.
- **4. Warm**: White colors in the image will be provided with a light red undertone.

## Setting a preferred color temperature

- 1. Enter **Display > Color Temperature** menu.
- 2. Press **◄/▶** to select **Cool**, **Neutral**, **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.

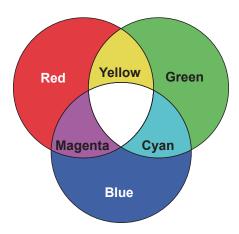
#### **Color Management**

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 adjusent 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:

- Open the OSD menu, go to Display > Advanced > Color Management menu.
- 2. Press [Enter] to bring up the **Color Management** page.
- 3. Select **Original Color**, then press **◄**/**▶** and select any one of the colors from red, yellow, green, cyan, blue, or magenta.



- 4. Press ▼ to select the Tint, 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 ▼ and 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. Use the remote control 👏 and enter **Presentation Timer** menu or enter **Basic > Presentation Timer** menu.
- 2. Press [Enter] to show the **Presentation Timer** page.
- 3. Select **Timer Interval** 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.

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 **Begin** Countdown, then press [Enter].
- 8. A confirmation message will be displayed next. 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:

- 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.

Caution

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

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

## 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  $\circlearrowleft$  Power button, none of the buttons on the Projector could be used.

- 1. Press (Panel Key Lock) or enter System Settings > Panel Key Lock menu.
- 2. Press **◄/▶** and select **ON**.
- 3. A confirmation message will be displayed next. Select **Yes** to confirm your choice. To switch off the Panel Key Lock, press and hold the fi 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.** 

press 4/P and select of 1.
Buttons on the remote control can still be used even if the Panel Key Lock function has been switched on.
If you press the $\overset{\bullet}{\cup}$ 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.

#### Creating your own startup screen

In addition to **Black**, **Blue**, or **ViewSonic** screens, you may also select a computer or video projection image as your startup screen.

To create your own startup screen:

- 1. Select the desired startup screen image from your computer or video source.
- Open the OSD menu and enter Basic > Screen Capture menu.
- 3. Press [Enter].
- A confirmation message will be displayed next. Press [Enter] again.
- 5. While the projector processes the image, the screen will display the message [Screen Capture in Progress...]. Please wait.
- 6. When successful, the screen will display the message [Screen Capture Success]. The captured image will be saved as a **Screen Capture** and set as your current startup screen.

In the unlikely event that the capturing action fails, change your target picture. When it happens, please set the resolution of the input signal under native resolution and try again.

## 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.



#### Caution

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**:

- Open the OSD menu and enter System Settings > High Altitude Mode menu.
- Press ▼ and select ON. ◄/► will display a confirmation message.
- 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.

## **Using the CEC function**

This projector supports Consumer Electronics Control (CEC), allowing you to connect to connect to HDMI and achieve synchronized power ON/OFF operations. This means that when a device that also supports CEC is connected to the HDMI input jack of the projector, switching off the power of the projector will also automatically switch off the power of the connected device. Switching on the power of the connected device will also automatically switch on the projector.

Activating the CEC function:

- Open the OSD menu and enter Power management > Auto Power On > CEC menu.
- 2. Press **◄/▶** and select **Enable**.

To ensure proper operations of the CEC function, please verify that the target device has been
connected to the HDMI input jack via an HDMI cable and that the CEC function has been
activated.

CEC function may not be usable according to the connected equipment.

#### 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.
- 3. Highlight **3D Glasses** and press **◄/▶** to select **DLP** or **3D VESA**.
- 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.

## Using the projector under standby mode

A number of projector functions can be used under Standby Mode (plugged in to power but not switched on). To use these functions, please check that you have switched on the **Power management > Standby Settings** and its secondary menu items, and that the cables have been properly connected. Refer to the chapter on cable connections for more information on cable connections.

#### **Active VGA Out**

Once the COMPUTER IN and COMPUTER OUT jacks have been properly connected to the corresponding devices, select **ON** to generate VGA signal output. The projector will only receive output signals via Computer In 1.

#### **Active Audio Out**

When the AUDIO IN jack is correctly connected to a device, select **ON** to output audio signals.

## Adjusting the sound

The sound adjusents made as below will have an effect on the projector speaker(s). Please check that you have made a correct connection to the projector audio input / output jacks. See "Connection" for details.

#### **Adjustments in Audio Mode**

- 1. Open the OSD menu and enter **Basic** > **Audio Settings** > **Audio Mode** menu.
- 2. Press **◄**/**▶** to select the primary Audio Mode.

If available, you may press the [Audio Mode] on the remote control to select the primary Audio mode.

#### Mute

- 1. Open the OSD menu and enter **Basic** > **Audio Settings** > **Mute** menu.
- Press ◀/▶ and select ON.
- If available, you may press the w button on the remote control to switch the projector audio ON or OFF.

#### Adjusting the sound level

- 1. Open the OSD menu and enter **Basic** > **Audio Settings** > **Audio Volume** menu.
- 2. Press **◄/▶** to select the desired volume.
- (If available, you may press the (I)) button on the remote control to adjust speaker volume of the projector.

## Switch off the projector

- 1. Press the  $\circ$  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 <sup>Φ</sup> Power button again.
- 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
	Screen Color		Off/Blackboard/Greenboard/ Whiteboard
	Aspect Ratio		Auto/4:3/16:9/16:10/2.35:1
	Vavetene	Auto V Keystone	Off/On
1.	Keystone	Manual	Vertical/Horizontal
	Corner Adj.		
Display	Position		
	Phase		
	H. Size		
	Zoom		
	OverScan		Off/1/2/3/4/5
	Color mode	Brightest/Dynamic/S Movie	Standard/ViewMatch sRGB/
	Brightness		
	Contrast		
	Color Temperature	Warm	
		Normal	<sup>−</sup> Red Gain/Green Gain/Blue −Gain/Red Offset/Green
		Neutral	Offset/Blue Offset
		Cool	
2.		Color	
		Tint	
Picture		Sharpness	
		Gamma	1/2/3/4/5/6/7/8
		Brilliant Color	Off/1/2/3/4/5/6/7/8/9/10/13
	Advanced	Noise Reduction	
			Primary color
		Color Management	Tint
			Saturation
			Gain
	Reset color settings		Restore/Cancel

Main menu	Sub-	-menu	Options
	Auto Power On	Computer	Disable/Enable
		CEC	Disable/Enable
		Direct power on	Off/On
3.	Smart Energy	Auto Power Off	Disable/10 min/20 min/ 30 min
Power		Sleep Timer	Disable/30 min/1 hr/2 hr/ 3 hr/4 hr/8 hr/12 hr
Management		Power saving	Disable/Enable
	MHL settings	Power Out	MHL/USB-TYPE A
	WITE Settings	MHL reset	Restore/Cancel
	Standby Settings	Active VGA Out	Off/On
	Standby Settings	Active Audio Out	Off/On
	A	Audio Mode	Standard/Speech/ Entertainment
	Audio Settings	Mute	On/Off
		Volume	
		Timer Period	1~240 m
	Presentation Timer	Timer Display	Always/1 min/2 min/3 min
		Timer Position	Top-Left/Bottom-Left/Top- Right//Bottom-Right
		Timer Counting Direction	Count Down/Count Up
		Start Counting/Off	
4.	Pattern		Off / 1/ 2/ 3
Basic	Blank Timer		Disable/5 min/10 min/15 min/20 min/25 min/30 min
	Message		On/Off
	Splash Screen		Black/Blue/ViewSonic/ Screen Capture/Off
	Screen Capture		<u>.</u>
	My Button	Position/Color Temp Settings/Screen Col Quick Auto Search/6	ojector Position)/Menu o./Brightness/Contrast/3D or/Splash Screen/Message/ CEC/DCR/Closed Caption/ e/INFORMATION/Aspect

Main menu	Sub	-menu	Options
		3D Glasses	DLP/3D VESA
	3D Settings	3D Sync	Auto/Off/Frame Sequential/ Frame Packing/Top-Bottom/ Side-by-Side
		3D Sync Invert	Disable/Invert
	HDMI Settings	HDMI Format	Auto/RGB/YUV
		HDMI Range	Auto/Enhanced/Normal
		LAN Control Settings	DHCP ON/Static IP
5.		Projector IP Address	
Advanced	LAN Control	Subnet Mask	
	Settings	Default Gateway	
		DNS Server	
		Standby LAN Control	Off/On
		Apply	
	Light Source	Light Source Mode	Normal/Eco
	Settings DCR	Light Source Hours	On/Off
	Closed Caption	Caption Version	Off/ CC1/ CC2/ CC3/ CC4
	Reset Settings	Caption version	Reset/Cancel
	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
5.		Menu Position	Center/Top-Left/Top-Right/ Bottom-Left/Bottom-Right
System	High Altitude Mode		On/Off
	Quick Auto Search		On/Off
	Security Settings	Change Password	0.40%
		Power On Lock	On/Off
	Panel Key Lock Remote Control		On/Off
	Code		1/2/3/4/5/6/7/8
	• Source		
	Color Mode		
•	<ul> <li>Resolution</li> </ul>		
6. Information	Color System		
	• IP Address		
	MAC Address		
	• Firmware Version		

# **Description of each menu**

	FUNCTION	Description
	Screen Color	See "Using Screen Color" for details.
	Aspect Ratio	See "Selecting the aspect ratio" for details.
	Keystone	See "Correcting keystone" for details.
	Corner Adj.	See "Adjusting the 4 corners" for details.
	Position	Displays the position adjustment page. To move the projected image, use the directional arrow keys. The values shown on the lower position of the page change with every key press you made until they reach their maximum or minimum.
<u>-</u>		This function is only available when a PC input signal is selected.
Dis		The adjustment range may vary under different timings.
1. Display menu	Phase	Adjusts the clock phase to reduce image distortion.  This function is only available when a PC input signal is
		selected.  Adjusts the horizontal width of the image.
	H. Size	This function is only available when a PC input signal is selected.
	Zoom	See "Magnifying and searching for details" for details.
		Adjusts the overscan rate from 0% to 5%.
	OverScan	This function is only available when a Composite Video, S-Video or HDMI input signal is selected.
5	Color mode	See "Selecting a picture mode" for details.
E E	Brightness	See "Adjusting Brightness" for details.
age	Contrast	See "Adjusting Contrast" for details.
lmage menu	Color Temperature	For more details, please refer to "Selecting a Color Temperature" and "Setting a preferred color temperature".

-	FUNCTION	Description
		Color
		See "Adjusting Color" for details.
		Tint
		See "Adjusting Tint" for details.
		Sharpness
, N		See "Adjusting Sharpness" for details.
2. Image menu	l	Gamma
age	Advanced	See "Selecting a gamma setting" for details.
mei		Brilliant Color
n U		See "Adjusting Brilliant Color" for details.
		Noise Reduction
		See "Reducing image noise" for details.
		Color Management
		See "Color Management" for details.
	Reset color settings	Returns all color settings to the factory preset values.
		Computer
		Selecting <b>Enable</b> allows the projector to turn on automatically once the VGA signal is fed through the VGA cable.
	Auto Bower On	CEC
	Auto Power On	See "Using the CEC function" for details.
		Direct power on
3. Power Management menu		Selecting <b>On</b> allows the projector to turn on automatically once the power is fed through the power cord.
Ma		Auto Power Off
nag		See "Setting Auto Power Off" for details.
jem	Smort Energy	Sleep Timer
ent	Smart Energy	See "Setting Sleep Timer" for details.
me		Power Saving
nu		See "Setting Power Saving" for details.
		Please check your MHL dongle and Power Output of OSD settings before used.
	MHL Settings	If you'd like to have power charging through additional USB-type A, make sure to switch the Power Output from MHL to USB-type A.
		MHL Reset
		Selecting <b>Reset</b> to reapply power after a power outage.

	FUNCTION	Description	
	Audio Settings	See "Adjusting the sound" for details.	
	Presentation Timer	See "Setting the presentation timer" for details.	
4. E	Pattern	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.	
3as	Blank Timer	See "Hiding the image" for details.	
Basic Menu	Message	Selecting <b>On</b> displays the current information on the screen when the projector is detecting or searching for a signal.	
	Splash Screen	Allows you to select which logo screen will be displayed during projector start-up.	
	Screen Capture	See "Creating your own startup screen" for details.	
	My buttons	Sets a hotkey on remote control.	
	3D Settings	See "Using the 3D functions" for details.	
	HDMI Settings	See "Changing HDMI input settings" for details.	
	Audio Setup	See "Adjusting the sound" for details.	
	LAN Control Settings	See "Controlling the projector through a LAN environment" for details.	
	Light Source Settings	Light Source Mode	
21		See "Setting Light Source Mode" for details.	
Adv		Light Source Hours	
ancec		See "Getting to know the Light Source hour" for details on how the total Light Source hour is calculated.	
Advanced menu	DCR	Enables or disables the DCR (Dynamic Contrast Ratio) function. Selecting <b>On</b> enables the function and the projector will automatically switch the Light Source mode between normal and economic modes according to the input image detected.	
		This function is only available when a PC input signal is selected.	
		After enabling DCR, frequent Light Source mode switching may shorten Light Source life and noise level will vary during operation.	

	FUNCTION	Description
5. A	Closed Caption	Selects a preferred closed captioning mode when the selected input signal carries closed captions.
		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).
5. Advanced menu		This function is only available when a Composite video or S-Video input signal is selected and its system format is NTSC.
3		Caption Version
enu		To view captions, select CC1, CC2, CC3, or CC4 (CC1 displays captions in the primary language in your area).
	Reset Settings	Returns all settings to the factory preset values.
		The following settings will still remain: Keystone / Corner Adj. / Language/ Projector Position/ Altitude/ Security Settings/ Remote Control Code
	Language	Sets the language for the On-Screen Display (OSD) menus. See "Using the menus" for details.
	<b>Projector Position</b>	See "Choosing a location" for details.
		Menu Display Time
6. SYSTEM menu	Menu Settings	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.
Ē		Menu Position
3		Sets the On-Screen Display (OSD) menu position.
enu	High Altitude Mode	A mode for operation in high altitude areas. See "Operating in a high altitude environment" for details.
	Quick Auto Search	See "Switching input signal" for details.
	Security Settings	See "Utilizing the password function" for details.
	Panel Key Lock	See "Locking control keys" for details.
	Remote Control Code	See "Remote control code" for details.

	FUNCTION	Description
		Source Shows the current signals source.
		Color mode
		Shows the selected mode in the <b>Image</b> menu.
		Resolution
		Shows the native resolution of the input signal.
Info		Color System
Information menu		Shows the input system format.
atio	Current System Status	IP Address
э Н		Shows the IP address of your projector.
enu		MAC Address
		Shows the MAC Address of your projector.
		MAC Address stands for Media Access Control Address, which is a physical layer address used to uniquely identify a network node.
		Firmware Version
		Shows the current firmware version.

## Maintenance

## Care of the projector

You must regularly clean the lens and/or filter.

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.

## Using the filter



- · we recommend cleaning the filters when using projector for a while.
- If the projector is suspended from the ceiling or mounted in a way that is difficult to access, please be mindful of personal safety during filter replacement.

## **Cleaning the filters**

- 1. Make sure that the projector has been shut down and unplugged from the power source.
- 2. Press the latch pin on the filter and removed the filter from the projector.
- 3. Use a small vacuum cleaner or soft brush to remove dust from the filter.
- 4. Reinstall the filter.



## **LED Indicator**

Projector status Power indicator		Status* indicator
Stand-by Mode	Red	Off
Powering On	Red flashing two second , purple flashing three second then Blue flashing 4 second	Off
Normal Operations	Blue	Off
Normal Shut Down	Blue flashing	Off
Fan Error	Off	Red flashing
Temperature	Off	Red
DMD	Blue flashing twice per second	Red flashing twice per second
Projector Status: Color Wheel Error	Power Indicator : Blue flashing once per second /	Red flashing twice per second
LD start failed	Blue flashing	Red flashing
LD shut down	Blue	Red flashing
Stand-by Mode (enable standby setting on OSD)	blue flashing by five second	Off

# Troubleshooting

## ? 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.

## ? 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.

## ? Blurred image

Cause	Remedy	
The projection lens is not correctly	Use the focus function to adjust lens	
focused.	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.	

#### ? 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**

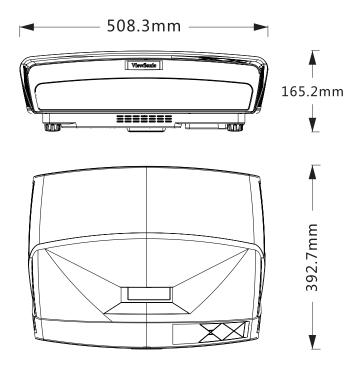
# **Projector specifications**

All specifications are subject to change without notice.

• Not all projector models are available at your location.

		L810	L820	L830		
Inpu	Input Terminals					
1	VGA Input (DB 15 pin)	x2	x2	x2		
2	Audio Input (mini jack)	x1	x1	x1		
3	Audio L/R (RCA x 2 Composite)	x1	x1	x1		
4	HDMI (v1.4 with audio)	x1	x1	x1		
5	HDMI 1.4/MHL 2.0	x1	x1	x1		
6	Video (RCA)	x1	x1	x1		
7	S-video(Mini DIN 4 pin)	x1	x1	x1		
8	Component (RCAx3)	x1	x1	x1		
9	3D sync (IR3D)	x1	x1	x1		
Out	Output Terminals					
1	VGA output (DB 15pin)	x1	x1	x1		
2	Audio Ouput (mini jack)	x1	x1	x1		
3	12 V Trigger	x1	x1	x1		
4	USB 5V2A (micro USB cable on Dongle)	x1	x1	x1		
5	USB A 5V2A	x1	x1	x1		
6	Speaker	10W x1	10W x1	10W x1		
Control Terminals						
1	RS232 (9 pin type1)	x1	x1	x1		
2	USB (Type mini B) 5V2A	x1	x1	x1		
3	LAN Control(RJ45)	x1	x1	x1		

## **Dimensions**



# **Ceiling mount installation**

# 

**Note**: M6L12 screws are recommended for securing the projector using suspended mounting M6 screw holes. (M6 / L12 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	
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	
	1280x768	15:9	60	
WXGA	1280x800	16:10	60	
	1360x768	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	60*/120**	
WXGA	1280x800	16:9	60*/120**	
For Video Signal				
Signal	Resolution (pixels)	Aspect Ratio	Refresh rate (Hz)	
SDTV (480i)***	720x480	4:3/16:9	60	

<sup>\*\* 60</sup> Hz signals are supported for parallel, up-down, and frame sequence formats.

\*\* 120Hz signals are only supported for frame sequence formats.

\*\*\* Video signal (SDTV 480i) is only supported for frame sequence formats.

HDMI 3D						
Within frame packin	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 parallel formats						
Signal	Resolution (pixels)	Aspect Ratio	Refresh rate (Hz)			
1080i	1920x1080	16:9	50/59.94/60			
Within top-down 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			

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# **Appendix**

# IR control table

Button	Format	Byte1	Byte2	Byte3	Byte4
PgDn	NEC	X3	F4	05	FA
PgUp	NEC	X3	F4	06	F9
Blank	NEC	X3	F4	07	F8
Auto sync	NEC	X3	F4	08	F7
Up	NEC	X3	F4	0B	F4
Down	NEC	X3	F4	0C	F3
Left	NEC	X3	F4	0E	F1
Right	NEC	X3	F4	0F	F0
Color Mode	NEC	X3	F4	10	EF
Mute	NEC	X3	F4	14	EB
Enter	NEC	X3	F4	15	EA
Power ON	NEC	X3	F4	17	E8
Presentation Timer	NEC	X3	F4	27	D8
Exit	NEC	X3	F4	28	D7
Eco Mode	NEC	X3	F4	2B	D4
Menu	NEC	X3	F4	30	CF
Mouse	NEC	X3	F4	31	CE
Mouse Left	NEC	X3	F4	36	C9
Mouse Right	NEC	X3	F4	37	C8
Source	NEC	X3	F4	40	BF
Pattern	NEC	X3	F4	55	AA
My button	NEC	X3	F4	56	A9
HDMI	NEC	X3	F4	58	A7
Volume+	NEC	X3	F4	82	7D
Volume-	NEC	X3	F4	83	7C
Magnify	NEC	X3	F4	18	e7
Aspect	NEC	83	F4	13	EC
Video	NEC	83	F4	9F	60
Audio Mode	NEC	X3	F4	9E	61
COMP	NEC	X3	F4	41	be
Panel Key Lock	NEC	X3	F4	8E	71
Help	NEC	X3	F4	21	DE

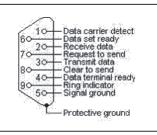
## **Address Code**

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	19200bps (default)	
Data Length	8 bit	
Parity check	None	
Stop bit	1 bit	
flow control	None	

## <RS232 Command List >

FUNCTION	Status	Operation	cmd
	) A/ :/	Activate	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x00 0x00 0x5D
Power supply	Write	Off	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x01 0x00 0x5E
	Read	Power status (ON/OFF)	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x00 0x5E
Reset All Settings		Execute	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x02 0x00 0x5F
Reset color settings	Execute		0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x2A 0x00 0x87
		Splash Screen - Black	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x0A 0x00 0x67
		Splash Screen - Blue	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x0A 0x01 0x68
Splack Serson	Write	Splash Screen - ViewSonic	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x0A 0x02 0x69
Splash Screen		Splash Screen - Screen Capture	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x0A 0x03 0x6A
		Splash Screen - OFF	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x0A 0x04 0x6B
	Read	Splash Screen status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x0A 0x68
	Write	Quick Power Off OFF	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x0B 0x00 0x68
Quick Power Off		Quick Power Off ON	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x0B 0x01 0x69
	Read	Quick Power Off status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x0B 0x69
	Write	High Altitude Mode OFF	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x0C 0x00 0x69
High Altitude Mode		High Altitude Mode ON	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x0C 0x01 0x6A
	Read	High Altitude Mode status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x0C 0x6A
	\A/sit o	Normal	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x10 0x00 0x6D
light source Mode	Write	Eco	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x10 0x01 0x6E
	Read	light source Mode status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x10 0x6E
	\\/:i+a	Message OFF	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x27 0x00 0x84
Message	Write	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

		Front Table	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x00 0x00 0x5E
		Rear Table	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x00 0x01 0x5F
Projector Position	Write	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
		Off	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x20 0x00 0x7E
		Auto	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x20 0x01 0x7F
	) A/	Frame Sequential	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x20 0x02 0x80
3D Sync	Write	Frame Packing	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x20 0x03 0x81
		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
	Write	Off	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x21 0x00 0x7F
3D Sync Invert		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
	\A/-:4 -	Contrast decrease	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x02 0x00 0x60
Contrast	Write	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
	\\/-:t-	Brightness decrease	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x03 0x00 0x61
Brightness	Write	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 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
	) A/-:4 -	Aspect ratio 16:10	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x04 0x66
Aspect ratio	Write	Aspect ratio Anamorphic	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x05 0x67
		Aspect ratio Wide	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x06 0x68
		Aspect ratio 2.35:1	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x07 0x69
		Aspect ratio Panorama	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x08 0x6A
	Read	Aspect Ratio	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x04 0x63
Auto Adjust		Execute	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x05 0x00 0x63
	Meito	Horizontal position shift right / Horizontal position shift left	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x06 0x01 0x65
Horizontal position	Write	Horizontal position shift right / 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
	Write	Vertical Position shift up / Vertical Position shift down	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x07 0x00 0x65
Vertical position	wille	Vertical Position shift up / Vertical Position shift down	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x07 0x01 0x66
	Read	Read vertical position	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x07 0x66
		Color Temperature Warm	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x08 0x00 0x66
	Write	Color Temperature Normal	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x08 0x01 0x67
Color Temperature	vviite	Color Temperature Neutral	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x08 0x02 0x68
		Color Temperature Cool	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x08 0x03 0x69
	Read	Color Temperature status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x08 0x67
	\A/=:4=	Blank ON	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x09 0x01 0x68
Blank	Write	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
	\A/=:4-	Decrease	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0A 0x00 0x68
Keystone Correction - Vertical	Write	Increase	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0A 0x01 0x69
Vertical Read	Keystone Correction status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x0A 0x69	

	1		
Keystone Correction - Horizontal	Write	Decrease	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x31 0x00 0x8E
		Increase	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x31 0x01 0x8F
	Read	Keystone Correction status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x31 0x8F
		Brightest	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x00 0x69
		Movie	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x01 0x6A
Color mode	Write	Standard	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x04 0x6D
Color mode		ViewMatch	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x05 0x6E
		Dynamic	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x08 0x71
	Read	Preset Mode status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x0B 0x6A
		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
	Mrito	Original Color B	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x10 0x02 0x70
Primary color	Write	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
		Original Color Y	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x10 0x05 0x73
	Read	Original Color status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x10 0x6F
	Write	Color Adjustment decrease	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x11 0x00 0x6F
Tint		Color Adjustment increase	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x11 0x01 0x70
	Read	Tint	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x11 0x70
	NA/	Saturation decrease	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x12 0x00 0x70
Saturation	Write	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
	\A/-:4-	Gain decrease	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x13 0x00 0x71
Gain	Write	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 ON	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x00 0x01 0x60
Freeze	Write	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

		Input source VGA	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x01 0x00 0x60
		Input source VGA2	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x01 0x08 0x68
	Write	Input source HDMI	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x01 0x03 0x63
Source input	write	Input source HDMI/MHL	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x01 0x07 0x67
		Input source Composite video	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x01 0x05 0x65
		Input source SVIDEO	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x01 0x06 0x66
	Read	Source	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x13 0x01 0x61
	Write	Quick Search ON	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x02 0x01 0x62
Quick Auto Search		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
	Write	Mute ON	0x06 0x14 0x00 0x04 0x00 0x34 0x14 0x00 0x01 0x61
Mute		Mute OFF	0x06 0x14 0x00 0x04 0x00 0x34 0x14 0x00 0x00 0x60
	Read	Mute status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x14 0x00 0x61
Volume	) A/-:4 -	Volume increase	0x06 0x14 0x00 0x04 0x00 0x34 0x14 0x01 0x00 0x61
	Write	Volume decrease	0x06 0x14 0x00 0x04 0x00 0x34 0x14 0x02 0x00 0x62
	Read	Volume	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x14 0x03 0x64

	,		
		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
		English	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
	Write	Svenska	0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x00 0x0a 0x6B
Language		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
	Read	Language	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x15 0x00 0x62
light source	Write	Reset light source Usage Time to zero	0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x01 0x00 0x62
Usage Time	Read	light source Usage Time	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x15 0x01 0x63

RGB 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x28 0x00 0x85	
Write YUV 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x28 0x01 0x86	
HDMI Format  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 0	ĸ86
Enhanced 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x29 0x00 0x86	
Write Normal 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x29 0x01 0x87	
HDMI range	
Read HDMI Range status 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x29 0	ĸ87
Off 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x2B 0x00 0x88	
CEC On 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x2B 0x01 0x89	
Read CEC status 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x2B 0	x89
Error status Read Read Error status 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x0C 0x0D 0	)x66
Brilliant Color 0 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x00 0x6D	
Brilliant Color 1 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x01 0x6E	
Brilliant Color 2 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x02 0x6F	
Brilliant Color 3 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x03 0x70	
Brilliant Color 4 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x04 0x71	
Write Brilliant Color 5 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x05 0x72	
Brilliant Color  Brilliant Color 6	
Brilliant Color 7 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x07 0x74	
Brilliant Color 8 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x08 0x75	
Brilliant Color 9 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x09 0x76	
Brilliant Color 10 0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x0A 0x77	
Read Brilliant Color status 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x0F 0	

Code 1					
Code 3			Code 1	0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x00 0xA0	
Remote control code			Code 2	0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x01 0xA1	
Note			Code 3	0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x02 0xA2	
Code 5		Write	Code 4	0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x03 0xA3	
Code 6	Screen Color		Code 5	0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x04 0xA4	
Code 8			Code 6	0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x05 0xA5	
Read   Remote Control Code status   0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x0C 0x048 0xAl			Code 7	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 0x03 0xA3  Code 6  0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x04 0xA4  Code 7  0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x05 0xA5  Code 8  0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x06 0xA6  Code 8  0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x07 0xA7  Remote Control Code status  0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x0C 0x048 0xAl  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  Screen Color status  0x07 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x00 0x90  Overscan 1  0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x00 0x90  Overscan 2  0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x01 0x91  Overscan 3  0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x02 0x92  Overscan 4  0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x03 0x93	
Screen Color   Screen Color OFF   0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x32 0x00 0x8F		Code 2			
Screen Color   Write   Green board   0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x32 0x01 0x90	V	Read		0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x0C 0x048 0xAl	
Screen Color   Green board   0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x32 0x02 0x91			Screen Color OFF	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x32 0x00 0x8F	
Screen Color   Green board   0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x32 0x02 0x91		Write	Backboard	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x32 0x01 0x90	
Read   Screen Color status   0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x32 0x90			Green board	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x32 0x02 0x91	
Overscan OFF			Whiteboard	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x32 0x03 0x92	
Overscan 1		Read	Screen Color status	ode 4         0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x03 0xA3           ode 5         0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x04 0xA4           ode 6         0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x05 0xA5           ode 7         0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x06 0xA6           ode 8         0x06 0x14 0x00 0x04 0x00 0x34 0x0C 0x48 0x07 0xA7           te Control e status         0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x0C 0x048 0xAl           Color OFF         0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x32 0x00 0x8F           0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x32 0x01 0x90           0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x32 0x02 0x91           0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x32 0x03 0x92           Color status         0x07 0x14 0x00 0x04 0x00 0x34 0x11 0x32 0x03 0x92           Color status         0x07 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x00 0x90           0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x00 0x90           0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x01 0x91           0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x03 0x93           0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x03 0x93           0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x04 0x94           0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x05 0x95	
Overscan 2	Code 8		Overscan OFF	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x00 0x90	
Overscan         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		0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x01 0x91			
Overscan         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		Write   Code 3	Overscan 2	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x02 0x92	
Overscan 5 0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x05 0x95			Overscan 3	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x03 0x93	
			Overscan 4	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x04 0x94	
Read Overscan status 0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x11 0x33 0x91			0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x33 0x05 0x95		
Tread Great states Great States Great Grea		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	
		My buttons	0x02 0x14 0x00 0x04 0x00 0x34 0x02 0x04 0x11 0x63	

## **Customer Support**

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

**Note:** You will need the product serial number.

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

## **Limited Warranty**

#### ViewSonic® Projector

#### What the warranty covers:

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

#### **Limited One (1) year General Warranty**

ViewSonic's standard warranty period is one (1) year for any product model in any country, unless a longer warranty period is specified and provided by ViewSonic . Please refer to the ViewSonic website in your country to check the local terms and model variants, and see if the product model in your country is eligible for a longer warranty period.

#### **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 Light Source, one (1) year for labor, and ninety (90) days for the original Light Source from the date of the first consumer purchase; Europe: One (1) year warranty for all parts excluding the Light Source, one (1) year for labor, and ninety (90) days for the original Light Source 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.

Light Source warranty subject to terms and conditions, verification and approval. Applies to manufacturer's installed Light Source only. All accessory Light Source 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.
  - i. Any other cause which does not relate to a product defect.
- 3. Removal, installation, and set-up service charges.

#### How to get service:

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

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

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

#### **Exclusion of damages:**

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

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

#### Effect of local law:

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

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

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

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

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

Projector Warranty Term Template In UG VSC\_TEMP\_2005

## **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:

ViewSonic's standard warranty period is one (1) year for any product model in any country, unless a longer warranty period is specified and provided by ViewSonic . Please refer to the ViewSonic website in your country to check the local terms and model variants, and see if the product model in your country is eligible for a longer warranty period.

#### 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:

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

#### Contact Information for Sales & Authorized Service (Centro Autorizado de Servicio) within Mexico: Name, address, of manufacturer and importers: México, Av. de la Palma #8 Piso 2 Despacho 203, Corporativo Interpalmas, Col. San Fernando Huixquilucan. Estado de México Tel: (55) 3605-1099 http://www.viewsonic.com/la/soporte/index.htm NÚMERO GRATIS DE ASISTENCIA TÉCNICA PARA TODO MÉXICO: 001.866.823.2004 Hermosillo: Villahermosa: Distribuciones y Servicios Computacionales SA de CV. Compumantenimietnos Garantizados, S.A. de C.V. Calle Juarez 284 local 2 AV. GREGORIO MENDEZ #1504 Col. Bugambilias C.P: 83140 COL, FLORIDA C.P. 86040 Tel: 01-66-22-14-9005 Tel: 01 (993) 3 52 00 47 / 3522074 / 3 52 20 09 E-Mail: disc2@hmo.megared.net.mx E-Mail: compumantenimientos@prodigy.net.mx Puebla, Pue. (Matriz): Veracruz, Ver.: RENTA Y DATOS, S.A. DE C.V. Domicilio: CONEXION Y DESARROLLO, S.A DE C.V. Av. Americas # 419 29 SUR 721 COL. LA PAZ ENTRE PINZÓN Y ALVARADO 72160 PUEBLA, PUE. Fracc, Reforma C.P. 91919 Tel: 01(52).222.891.55.77 CON 10 LINEAS Tel: 01-22-91-00-31-67 E-Mail: datos@puebla.megared.net.mx E-Mail: gacosta@qplus.com.mx Cuernavaca Soluciones Globales en Computación Compusupport de Cuernavaca SA de CV C. Magisterio # 3321 Col. Magisterial Francisco Leyva # 178 Col. Miguel Hidalgo Chihuahua, Chih. C.P. 62040, Cuernavaca Morelos Tel: 4136954 Tel: 01 777 3180579 / 01 777 3124014 E-Mail: Cefeo@soluglobales.com E-Mail: aguevedo@compusupportcva.com Distrito Federal: Guadalajara, Jal.: SERVICRECE, S.A. de C.V. QPLUS, S.A. de C.V. Av. Coyoacán 931 Av. Niños Héroes # 2281 Col. Del Valle 03100, México, D.F. Col. Arcos Sur. Sector Juárez Tel: 01(52)55-50-00-27-35 44170, Guadalajara, Jalisco E-Mail: gacosta@qplus.com.mx Tel: 01(52)33-36-15-15-43 E-Mail: mmiranda@servicrece.com Guerrero Acapulco Monterrey: GS Computación (Grupo Sesicomp) Global Product Services Progreso #6-A, Colo Centro Mar Caribe # 1987, Esquina con Golfo Pérsico 39300 Acapulco, Guerrero Fracc. Bernardo Reyes, CP 64280 Tel: 744-48-32627 Monterrey N.L. México Tel: 8129-5103 E-Mail: aydeem@gps1.com.mx **MERIDA:** Oaxaca, Oax.: **ELECTROSER** CENTRO DE DISTRIBUCION Y Av Reforma No. 403Gx39 y 41 SERVICIO, S.A. de C.V. Mérida, Yucatán, México CP97000 Murguía # 708 P.A., Col. Centro, 68000, Oaxaca Tel: (52) 999-925-1916 Tel: 01(52)95-15-15-22-22 E-Mail: rrrb@sureste.com Fax: 01(52)95-15-13-67-00 E-Mail. gpotai2001@hotmail.com Tijuana: FOR USA SUPPORT: STD ViewSonic Corporation Av Ferrocarril Sonora #3780 L-C 14035 Pipeline Ave. Chino, CA 91710, USA Col 20 de Noviembre Tel: 800-688-6688 (English); 866-323-8056 (Spanish); Tijuana, Mexico E-Mail: http://www.viewsonic.com

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