



LS620X

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 cuidadosamente las instrucciones en este manual"

Model No. VS16942

Compliance Information

FCC Statement

This device complies with part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning: You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

For Canada

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

CE Conformity for European Countries



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

Following information is only for EU-member states:

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

The mark indicates the requirement NOT to dispose the equipment including any spent or discarded batteries or accumulators as unsorted municipal waste, but use the return and collection systems available.

If the batteries, accumulators and button cells included with this equipment, display the chemical symbol Hg, Cd, or Pb, then it means that the battery has a heavy metal content of more than 0.0005% Mercury or more than, 0.002% Cadmium, or more than 0.004% Lead.



Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this unit near water.
6. Clean with a soft, dry cloth.
7. Do not block any ventilation openings. Install the unit in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other devices (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade and the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs. Convenience receptacles and the point where they exit from the unit. Be sure that the power outlet is located near the unit so that it is easily accessible.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the unit. When a cart is used, use caution when moving the cart/unit combination to avoid injury from tipping over.
13. Unplug this unit when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the unit has been damaged in any way, such as: if the power-supply cord or plug is damaged, if liquid is spilled onto or objects fall into the unit, if the unit is exposed to rain or moisture, or if the unit does not operate normally or has been dropped.



Declaration of RoHS2 Compliance

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

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

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

Examples of exempted components are:

- Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp):
 - Short length (≤ 500 mm): maximum 3.5 mg per lamp.
 - Medium length (> 500 mm and $\leq 1,500$ mm): maximum 5 mg per lamp.
 - Long length ($> 1,500$ mm): maximum 13 mg per lamp.
- Lead in glass of cathode ray tubes.
- Lead in glass of fluorescent tubes not exceeding 0.2% by weight.
- Lead as an alloying element in aluminium containing up to 0.4% lead by weight.
- Copper alloy containing up to 4% lead by weight.
- Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead).
- Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.

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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:	LS620X ViewSonic DLP Projector
Model Number:	VS16942
Document Number:	LS620X_UG_ENG Rev. 1A 03-21-17
Serial Number:	_____
Purchase Date:	_____

Product disposal at end of product life

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

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

USA & Canada: <http://www.viewsonic.com/company/green/recycle-program/>
Europe: <http://www.viewsoniceurope.com/eu/support/call-desk/>
Taiwan: <http://recycle.epa.gov.tw/recycle/index2.aspx>

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Important safety instructions

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

Safety Instructions

1. **Please read this manual before you operate your projector.** Save it for future reference.
2. **Do not look straight at the projector lens during operation.** The intense light beam may damage your eyes.
3. **Refer servicing to qualified service personnel.**
4. **Always open the lens shutter or remove the lens cap when the projector light source is on.**
5. In some countries, the line voltage is NOT stable. This projector is designed to operate safely within a mains voltage between 100 to 240 volts AC, but could fail if power cuts or surges of ± 10 volts occur. **In areas where the mains voltage may fluctuate or cut out, it is recommended that you connect your projector through a power stabilizer, surge protector or uninterruptible power supply (UPS).**
6. Do not block the projection lens with any objects when the projector is under operation as this could cause the objects to become heated and deformed or even cause a fire. To temporarily turn off the light source, press BLANK on the projector or remote control.
7. Do not operate light sources beyond the rated light source life. Excessive operation of light sources beyond the rated life could cause them to break on rare occasions.
8. Never replace the light source assembly or any electronic components unless the projector is unplugged.
9. Do not place this product on an unstable cart, stand, or table. The product may fall, sustaining serious damage.
10. Do not attempt to disassemble this projector. There are dangerous high voltages inside which may cause death if you should come into contact with live parts. The only user serviceable part is the light source which has its own removable cover.
Under no circumstances should you ever undo or remove any other covers. Refer servicing only to suitably qualified professional service personnel.
11. Do not place this projector in any of the following environments.
 - Space that is poorly ventilated or confined. Allow at least 50 cm clearance from walls and free flow of air around the projector.
 - Locations where temperatures may become excessively high, such as the inside of a car with all windows rolled up.
 - Locations where excessive humidity, dust, or cigarette smoke may contaminate optical components, shortening the projector's life span and darkening the picture.
 - Locations near fire alarms
 - Locations with an ambient temperature above 40°C / 104°F
 - Locations where the altitudes are higher than 3000 m (10000 feet).

12. 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.
13. Always place the projector on a level, horizontal surface during operation.
 - Do not use if tilted at an angle of more than 10 degrees left to right, nor at angle of more than 15 degrees front to back. Using the projector when it is not fully horizontal may cause a malfunction of, or damage to, the light source.
14. Do not stand the projector on end vertically. Doing so may cause the projector to fall over, causing injury or resulting in damage to the projector.
15. Do not step on the projector or place any objects upon it. Besides probable physical damage to the projector, doing so may result in accidents and possible injury.
16. Do not place liquids near or on the projector. Liquids spilled into the projector may cause it to fail. If the projector does become wet, disconnect it from the power supply's wall socket and call your local service center to have the projector serviced.
17. This product is capable of displaying inverted pictures for ceiling mount installation.



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

18. When the projector is under operation, you may sense some heated air and odor from its ventilation grill. It is a normal phenomenon and not a product defect.
19. Do not use the Security bar for transporting or installation. It should be used with a commercially available theft prevention cable.
20. CAUTION
Possibly hazardous optical radiation emitted from this product. Do not stare at operating light source. May be harmful to the eyes. Risk Group 2



Warning

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

Safety instructions for ceiling mounting of the projector

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

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

If you use an inappropriate projector ceiling mount kit, there is a safety risk that the projector may fall from the ceiling due to an improper attachment through the use of the wrong gauge or length screws.

You can purchase a projector ceiling mount kit from the place you purchased your projector. We recommend that you also purchase a separate security cable and attach it securely to both the anti-theft lock slot on the projector and the base of the ceiling mount bracket. This will perform the secondary role of restraining the projector should its attachment to the mounting bracket become loose.

Introduction

Projector features

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

 **Some of the features may not be available on your projector. Actual performance may vary and subject to model specifications.**

- Power saving function decreasing the power consumption of the light source by up to 70% when no input signal can be detected for a set period of time.
- Presentation timer for better control of time during presentations
- LAN Settings allowing management of projector status from a remote computer
- Supports 3D display
- Color Management allowing color adjustments to your liking
- Less than 0.5W power consumption when power saving mode is turned on
- Screen Color correction allowing projection on surfaces of several predefined colors
- Quick auto search speeding up the signal detecting process
- Color modes providing choices for different projection purposes
- One-key auto-adjustment to display the best picture quality (only for analog signal)
- Digital keystone correction to correct distorted images
- Adjustable color management control for data/video display
- Ability to display 1.07 billion colors
- Multi-language On-Screen Display (OSD) menus
- Switchable normal and economic modes to reduce the power consumption
- Component HDTV compatibility (YPbPr)

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

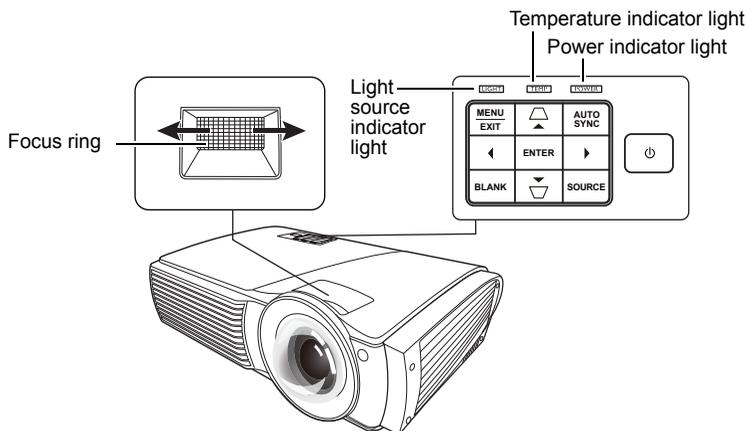
 **The light source brightness will decline over time and may vary within the light source manufacturers specifications. This is normal and expected behavior.**

Shipping contents

1. Projector
2. Power Cord
3. Multi-language User Manual CD
4. Quick Start Guide
5. Remote Control & Batteries
6. VGA Cable
7. Dust filter
8. VGA-Component adapter (optional)

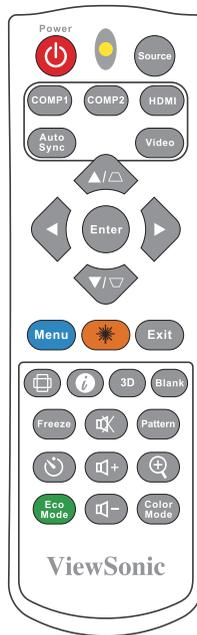
Controls and functions

Projector



- **Power**
Toggles the projector between standby mode and Power ON.
- **▢ / ▣ (Keystone keys)**
Manually corrects distorted images resulting from an angled projection.
- **◀ Left/ ▶ Right/ ▲ Up/ ▼ Down**
Selects the desired menu items and makes adjustments when the On-Screen Display (OSD) menu is activated.
- **Menu**
Turns on the On-Screen Display (OSD) menu.
- **Exit**
Goes back to previous OSD menu, exits and saves menu settings.
- **Enter**
Enacts the selected On-Screen Display (OSD) menu item when the On-Screen Display (OSD) menu is activated.
- **Auto Sync**
Automatically determines the best picture timings for the displayed image.
- **Source**
Displays the source selection bar.

Remote control



- **Power**
Toggles the projector between standby mode and Power ON.
- **COMP1**
Selects source from **COMPUTER 1** port for display.
- **COMP2**
Selects source from **COMPUTER 2** port for display.
- **HDMI**
Selects source from HDMI and/or MHL port for display.
- **Auto Sync**
Automatically determines the best picture timings for the displayed image.
- **Video**
Selects video source for display.
- **Source**
Displays the source selection bar.
- **△ / ▽ (Keystone keys)**
Manually corrects distorted images resulting from an angled projection.
- **◀ Left/ ▶ Right/ ▲ Up/ ▼ Down**
Selects the desired menu items and makes adjustments.
- **Enter**
Enacts the selected On-Screen Display (OSD) menu item.
- **Menu**
Turns on the On-Screen Display (OSD) menu.
- **Exit**
Exits and saves menu settings.

- *** (Laser)**
Emits visible laser pointer light for presentation purposes.
- **□ (Aspect Ratio)**
Displays the aspect ratio selection bar.
- **i (Information)**
Displays the **INFORMATION** menu.
- **3D**
Displays the 3D menu.
- **Blank**
Hides the screen picture.
- **Freeze**
Freezes or resumes the projected image.
- **Pattern**
Displays embedded test pattern.
- **🔇 (Mute)**
Toggles the projector audio between on and off.
- **🔊+ (Volume Up)**
Increases the projector volume.
- **🔊- (Volume Down)**
Decreases the projector volume.
- **⌚ (Presentation Timer)**
Displays the presentation timer settings menu.
- **🔍 (Zoom)**
Displays the zoom bar that magnifies or reduces the projected picture size.
- **Eco Mode**
Selects a light source mode.
- **Color Mode**
Selects an available picture setup mode.

Operating the LASER pointer

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

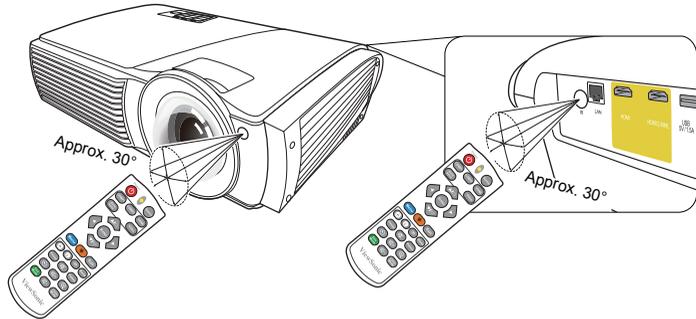
 **Do not look into the laser light window or shine the laser light beam on yourself or others. See the warning messages on the back of the remote control prior to using it.**

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

Remote control effective range

Refer to the illustration about the location of the Infra-Red (IR) remote control sensor(s). The remote control must be held at an angle within 30 degrees perpendicular to the

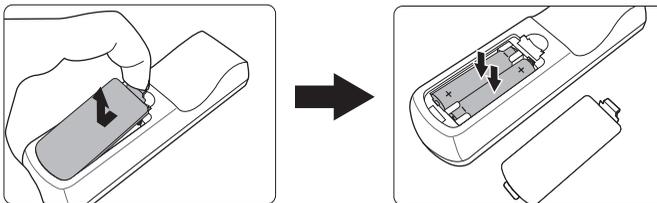
projector's IR remote control sensor(s) to function correctly. The distance between the remote control and the sensor(s) should not exceed 8 meters (~ 26 feet).



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

Replacing the remote control batteries

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



WARNING

- **Avoid leaving the remote control and batteries in an excessive heat or humid environment like the kitchen, bathroom, sauna, sunroom or in a closed car.**
- **Replace only with the same or equivalent type recommended by the battery manufacturer.**
- **Dispose of the used batteries according to the manufacturer's instructions and local environment regulations for your region.**
- **Never throw the batteries into a fire. There may be danger of an explosion.**
- **If the batteries are drained or if you will not be using the remote control for an extended period of time, remove the batteries to avoid damage to the remote control from possible battery leakage.**

Positioning your projector

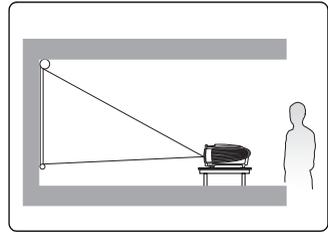
Choosing a location

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

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

1. Front Table

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

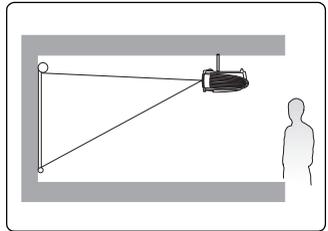


2. Front Ceiling

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

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

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

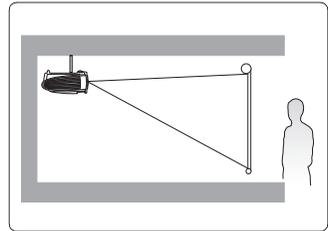


3. Rear Ceiling

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

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

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

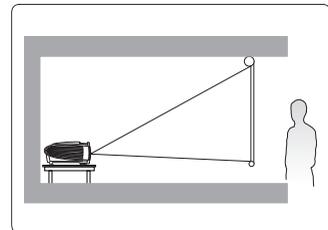


4. Rear Table

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

Note that a special rear projection screen is required.

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



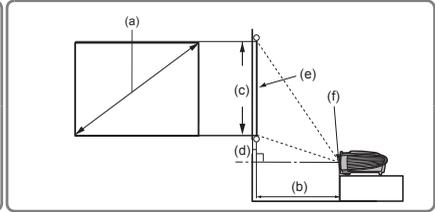
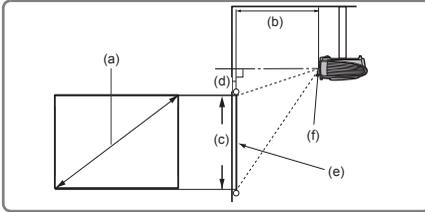
Projection dimensions

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

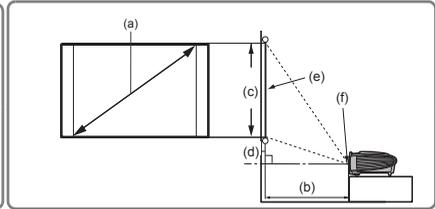
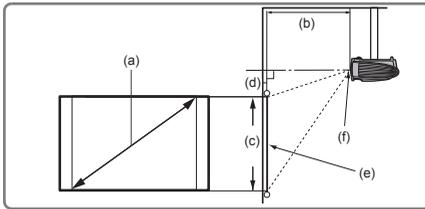
 Please see "[Projector specifications](#)" on page 65 for the native display resolution of this projector.

For models with a 4:3 native aspect ratio

- 4:3 image on a 4:3 screen



- 4:3 image on a 16:10 screen



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

(a) Screen Size [inch (cm)]	4:3 image on a 4:3 Screen							
	(b) Projection distance [m (inch)]		(c) Image height [cm (inch)]	(d) Vertical offset [cm (inch)]				
	min.	max.		min.	max.			
60 (152)	0.74 (29)	0.74 (29)	91.44 (36)	13.72 (5.4)	13.72 (5.4)			
70 (178)	0.86 (34)	0.86 (34)	106.68 (42)	16.00 (6.3)	16.00 (6.3)			
80 (203)	0.98 (39)	0.98 (39)	121.92 (48)	18.29 (7.2)	18.29 (7.2)			
90 (229)	1.11 (44)	1.11 (44)	137.16 (54)	20.57 (8.1)	20.57 (8.1)			
100 (254)	1.23 (48)	1.23 (48)	152.40 (60)	22.86 (9.0)	22.86 (9.0)			
110 (279)	1.35 (53)	1.35 (53)	167.64 (66)	25.15 (9.9)	25.15 (9.9)			
120 (305)	1.48 (58)	1.48 (58)	182.88 (72)	27.43 (10.8)	27.43 (10.8)			
130 (330)	1.60 (63)	1.60 (63)	198.12 (78)	29.72 (11.7)	29.72 (11.7)			
140 (356)	1.72 (68)	1.72 (68)	213.36 (84)	32.00 (12.6)	32.00 (12.6)			
150 (381)	1.85 (73)	1.85 (73)	228.60 (90)	34.29 (13.5)	34.29 (13.5)			

4:3 image on a 16:10 Screen											
(a) Screen Size [inch (cm)]		(b) Projection distance [m (inch)]				(c) Image height [cm (inch)]		(d) Vertical offset [cm (inch)]			
		min.		max.				min.		max.	
60	(152)	0.65	(26)	0.65	(26)	80.77	(32)	12.12	(4.8)	12.12	(4.8)
70	(178)	0.76	(30)	0.76	(30)	94.23	(37)	14.14	(5.6)	14.14	(5.6)
80	(203)	0.87	(34)	0.87	(34)	107.70	(42)	16.15	(6.4)	16.15	(6.4)
90	(229)	0.98	(39)	0.98	(39)	121.16	(48)	18.17	(7.2)	18.17	(7.2)
100	(254)	1.09	(43)	1.09	(43)	134.62	(53)	20.19	(7.9)	20.19	(7.9)
110	(279)	1.20	(47)	1.20	(47)	148.08	(58)	22.21	(8.7)	22.21	(8.7)
120	(305)	1.30	(51)	1.30	(51)	161.54	(64)	24.23	(9.5)	24.23	(9.5)
130	(330)	1.41	(56)	1.41	(56)	175.01	(69)	26.25	(10.3)	26.25	(10.3)
140	(356)	1.52	(60)	1.52	(60)	188.47	(74)	28.27	(11.1)	28.27	(11.1)
150	(381)	1.63	(64)	1.63	(64)	201.93	(79)	30.29	(11.9)	30.29	(11.9)

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

Connection

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

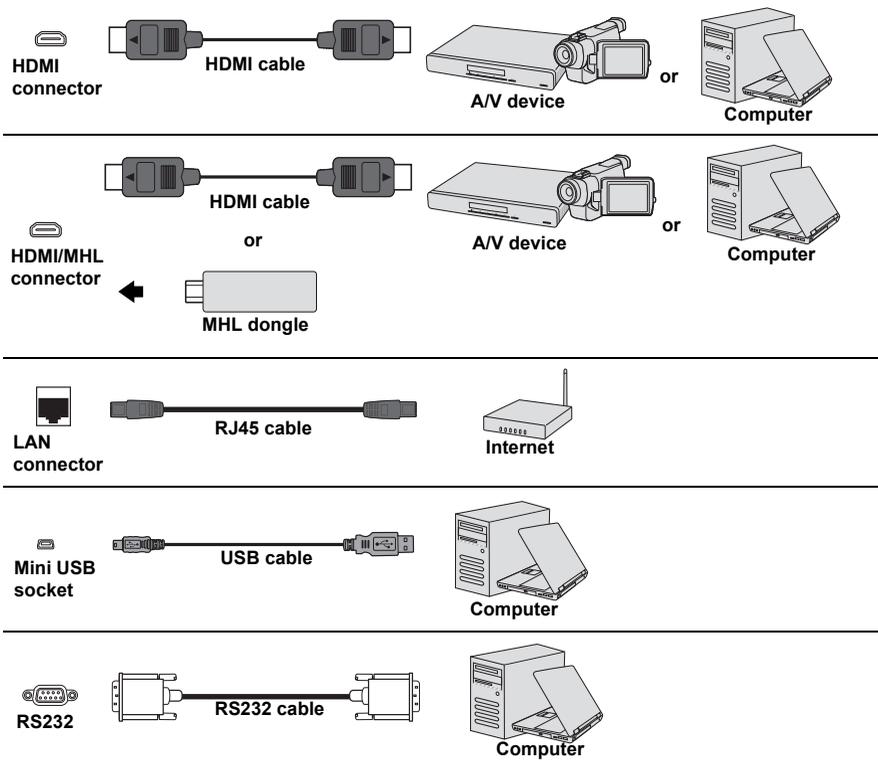
1. Turn all equipment off before making any connections.
2. Use the correct signal cables for each source.
3. Ensure the cables are firmly inserted.

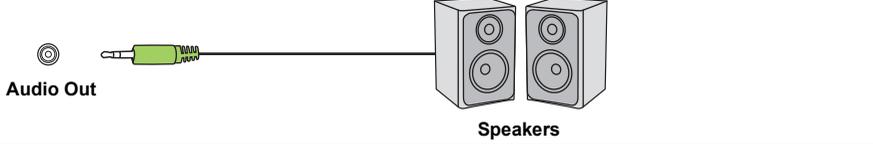
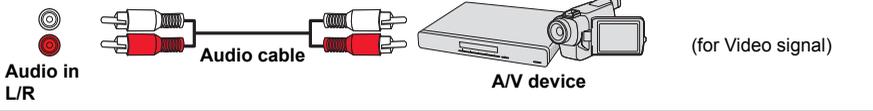
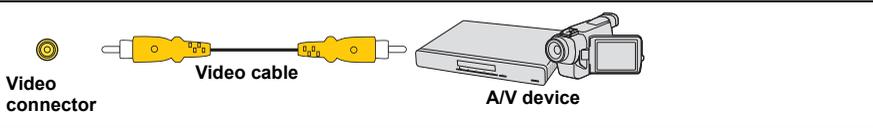
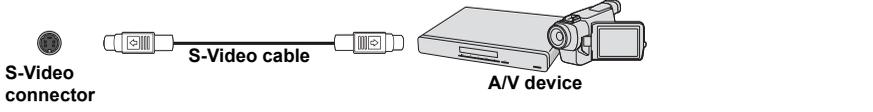
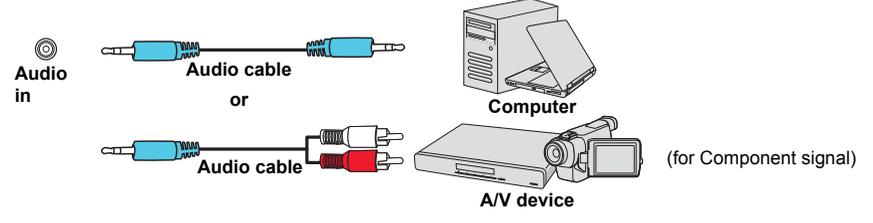
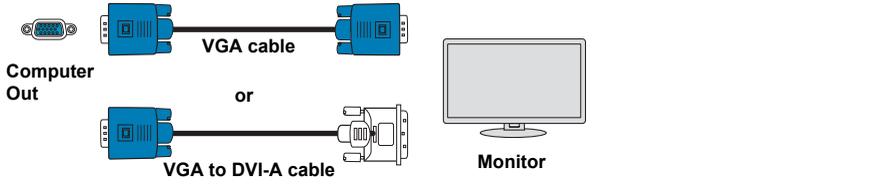
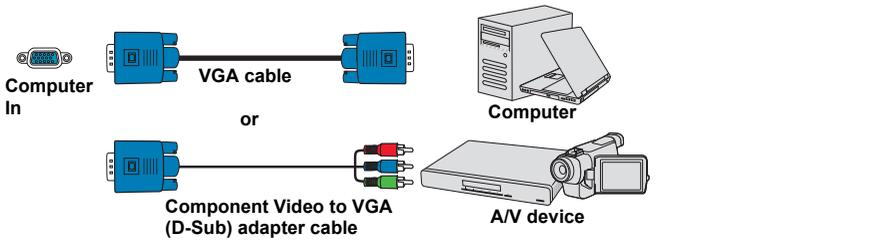
 In the connections shown below, some cables may not be included with the projector (see **"Shipping contents" on page 4**). They are commercially available from electronics stores.

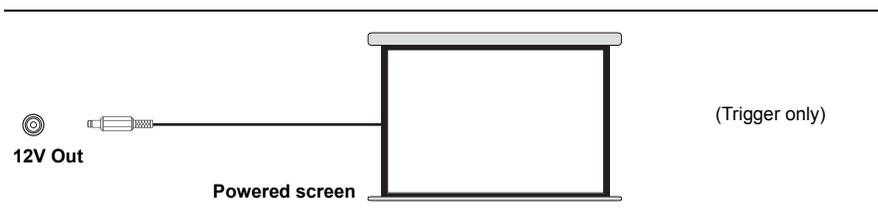
 The connection illustrations below are for reference only. The connecting jacks available on the projector vary with each projector model.

 For detailed connection methods, see pages 14-17.

Below is the connection method for each connector that you may find on your projector.







Connecting a computer or monitor

Connecting a computer

1. Take the supplied VGA cable and connect one end to the D-Sub output socket of the computer.
2. Connect the other end of the VGA cable to the **COMPUTER 1** or **COMPUTER 2** signal input socket on the projector.

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

Connecting a monitor

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

1. Connect the projector to a computer as described in "[Connecting a computer](#)" on page 14.
2. Take a suitable VGA cable (only one supplied) and connect one end of the cable to the D-Sub input socket of the video monitor.
Or if your monitor is equipped with a DVI input socket, take a VGA to DVI-A cable and connect the DVI end of the cable to the DVI input socket of the video monitor.
3. Connect the other end of the cable to the **COMPUTER OUT** socket on the projector.

 **The **COMPUTER OUT** output only works when **COMPUTER 1** connection is made to the projector in the standby mode. To use this connection method, turn on the **Active VGA Out** function under the **SYSTEM SETUP: Advanced > Standby Settings** menu.**

Connecting Video source devices

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

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

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

Best video quality

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

See "[Connecting an HDMI device](#)" on page 15 for how to connect the projector to an HDMI source device and other details.

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

See "[Connecting a Component Video source device](#)" on page 16 for how to connect the projector to a component video device.

Better video quality

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

See "[Connecting an S-Video source device](#)" on page 16 for how to connect the projector to an S-Video device.

Least video quality

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

See "[Connecting a composite Video source device](#)" on page 16 for how to connect the projector to a composite Video device.

Connecting audio

You can make use of the projector speaker in your presentations, and also connect separate amplified speakers to the Audio Out socket of the projector. The audio output is controlled by the projector Volume and Mute settings.

Connecting an HDMI device

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

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

 In the unlikely event that you connect the projector to a DVD player via the projector's HDMI input and the projected picture displays wrong colors, please change the color space to YUV. See ["Changing HDMI input settings"](#) on page 22 for details.

Connecting a Component Video source device

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

- If so, you can continue with this procedure.
 - If not, you will need to reassess which method you can use to connect to the device.
1. Take a VGA (D-Sub)-Component adaptor cable and connect the end with 3 RCA type connectors to the Component Video output sockets of the Video source device. Match the color of the plugs to the color of the sockets; green to green, blue to blue, and red to red.
 2. Connect the other end of the VGA (D-Sub)-Component adaptor cable (with a D-Sub type connector) to the **COMPUTER 1** or **COMPUTER 2** 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. Also check that the signal cables have been connected correctly.

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

Connecting an S-Video source device

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

- If so, you can continue with this procedure.
 - If not, you will need to reassess which method you can use to connect to the device.
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. Also check that the signal cables have been connected correctly.

 If you have already made a Component Video connection between the projector and this S-Video source device using Component Video connections, you need not connect to this device using an S-Video connection as this makes an unnecessary second connection of poorer picture quality. See ["Connecting Video source devices"](#) on page 15 for details.

Connecting a composite Video source device

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

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

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

 You need only connect to this device using a composite Video connection if Component Video input is unavailable for use. See ["Connecting Video source devices" on page 15](#) for details.

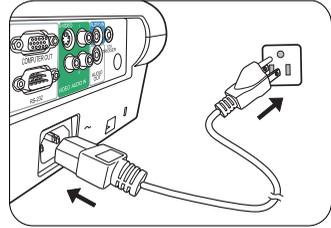
Playing sound through the projector

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

Operation

Starting up the projector

1. Plug the power cord into the projector and into a wall socket. Turn on the wall socket switch (where fitted).
2. Press **Power** to start the projector. As soon as the light source lights up, a "Power On Ring Tone" will be heard. The **Power indicator light** stays blue when the projector is on. (If necessary) Rotate the focus ring to adjust the image clearness.



ⓘ If the projector is still hot from previous activity, it will run the cooling fan for approximately 90 seconds before energizing the light source.

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

ⓘ To turn off the ring tone, see ["Turning off the Power On/Off Ring Tone" on page 38](#) for details.

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

You can also press **Source** to select your desired input signal. See ["Switching input signal" on page 22](#) for details.

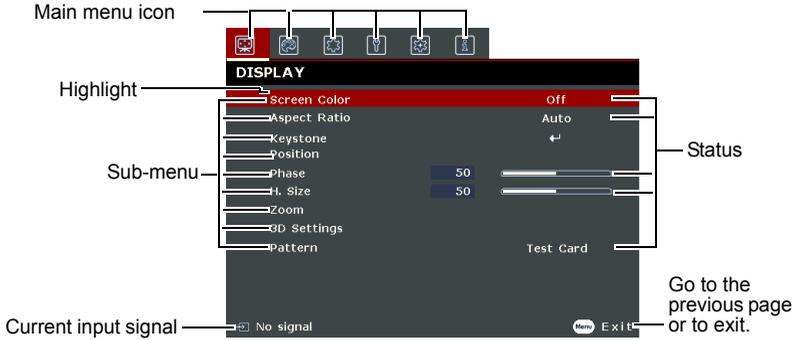
ⓘ If the frequency/resolution of the input signal exceeds the projector's operating range, you will see the message **'Out of Range'** displayed on a blank screen. Please change to an input signal which is compatible with the projector's resolution or set the input signal to a lower setting. See ["Timing chart" on page 61](#) for details.

Using the menus

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

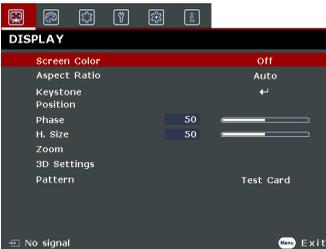
 The OSD screenshots below are for reference only, and may differ from the actual design.

Below is the overview of the OSD menu.



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

1. Press **Menu** to turn the OSD menu on.
3. Press **▼** to highlight **Language** and press **Enter**.



2. Use **◀/▶** to highlight the **SYSTEM SETUP: Basic** menu.
4. Use **◀/▲/▼/▶** to select a preferred language.
5. Press **Enter** to go back to main menu and press **Menu** to leave the OSD menu.



Utilizing the password function

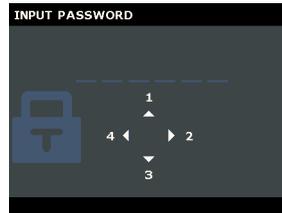
For security purposes and to help prevent unauthorized use, the projector includes an option for setting up password security. The password can be set through the On-Screen Display (OSD) menu. For details of the OSD menu operation, please refer to "Using the menus" on page 19.

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

Setting a password

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

1. Open the OSD menu and go to the **SYSTEM SETUP: Advanced > Security Settings** menu.
2. Press **Enter** and the **Security Settings** page is displayed.
3. Highlight **Change Security Settings** and press **Enter**.
4. As pictured to the right, the four arrow keys (**◀**, **▲**, **▼**, **▶**) respectively represent 4 digits (1, 2, 3, 4). According to the password you desire to set, press the arrow keys to enter six digits for the password.
5. Confirm the new password by re-entering the new password.
Once the password is set, the OSD menu returns to the **Security Settings** page.
6. To activate the **Power On Lock** function, press **▲/▼** to highlight **Power On Lock** and press **◀/▶** to select **On**.



If you forget the password

If the password function is activated, you will be asked to enter the six-digit password every time you turn on the projector. If you enter the wrong password, the password error message as pictured to the right is displayed lasting for 5 seconds, and the message 'INPUT PASSWORD' follows. You can retry by entering another six-digit password, or if you did not record the password in this user manual, and you absolutely do not remember it, you can use the password recall procedure. See "Entering the password recall procedure" on page 21 for details.



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

Entering the password recall procedure

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



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

Changing the password

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

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

Disabling the password function

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

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

Switching input signal

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

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

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

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

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

 Please see "**Projector specifications**" on page 65 for the native display resolution of this projector. For best display picture results, you should select and use an input signal which outputs at this resolution. Any other resolutions will be scaled by the projector depending upon the 'aspect ratio' setting, which may cause some image distortion or loss of picture clarity. See "**Selecting the aspect ratio**" on page 24 for details.

Changing HDMI input settings

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

To do this:

1. Open the OSD menu and go to the **SOURCE > Color Space Invert** menu.
2. Press **◀/▶** to select a suitable color space according to the color space setting of the output device connected.
 - **Auto**: Sets the projector to detect the color space setting of the input signal automatically.
 - **RGB Limited Range**: Sets the color space as RGB and the HDMI color range as 15 - 235.
 - **RGB Full Range**: Sets the color space as RGB and the HDMI color range as 0 - 255.
 - **YUV Limited Range**: Sets the color space as YUV and the HDMI color range as 15 - 235.
 - **YUV Full Range**: Sets the color space as YUV and the HDMI color range as 0 - 255.

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

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

Adjusting the projected image

Adjusting the projection angle

If the projector is not placed on a flat surface or the screen and the projector are not perpendicular to each other, the projected image becomes trapezoidal. To correct this situation, see "[Correcting keystone](#)" on page 23 for details.

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

Auto-adjusting the image

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

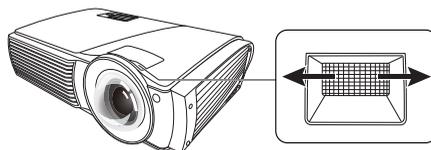
The current source information will be displayed in the upper left corner of the screen for 3 seconds.

 The screen will display ViewSonic logo while auto adjustment is functioning.

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

Fine-tuning the image clarity

Sharpen the image by rotating the focus ring.



Correcting keystone

Keystoning refers to the situation where the projected image becomes a trapezoid due to angled projection.

To correct this, besides adjusting the height of the projector, you will need to manually correct it following one of these steps.

- Using the projector or remote control
 1. Press Δ / ∇ to display the Keystone correction page.
 2. Press Δ to correct keystone at the top of the image. Press ∇ to correct keystone at the bottom of the image.



- Using the OSD menu
 1. Open the OSD menu and go to the **DISPLAY > Keystone** menu.
 2. Press **Enter**.
 3. Press Δ to correct keystone at the top of the image or press ∇ to correct keystone at the bottom of the image.

Magnifying and searching for details

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

- Using the remote control
 1. Press **⊕** on the remote control to display the Zoom bar.
 2. Press **▲** repeatedly to magnify the picture to a desired size.
 3. To navigate the picture, press **Enter** to switch to the panning mode and press the directional arrows (**◀**, **▲**, **▼**, **▶**) to navigate the picture.
 4. To reduce size of the picture, you can press **Auto Sync** on the remote control to restore the picture to its original size. Or you can press **Enter** to switch back to the zoom in/out functionality and press **▼**.
- Using the OSD menu
 1. Open the OSD menu and go to the **DISPLAY > Zoom** menu.
 2. Press **Enter**. The Zoom bar is displayed.
 3. Repeat steps 2-4 in the section of Using the remote control above.

 This adjustable range may vary depending on different aspect ratios.

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

Selecting the aspect ratio

The 'aspect ratio' is the ratio of the image width to the image height.

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

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

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

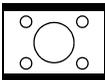
About the aspect ratio

1. **Auto**: Scales an image proportionally to fit the projector's native resolution in its horizontal width. This is suitable for the incoming image which is neither in 4:3 nor 16:9 and you want to make most use of the screen without altering the image's aspect ratio.
2. **Real**: Projects an image as its original resolution and resizes it to fit within the display area. For input signals with lower resolutions, the projected image will display smaller than if resized to full screen.
3. **4:3**: Scales an image so that it is displayed in the center of the screen with a 4:3 aspect ratio. This is most suitable for 4:3 images like computer monitors, standard definition TV and 4:3 aspect DVD movies, as it displays them without aspect alteration.
4. **16:9**: Scales an image so that it is displayed in the center of the screen with a 16:9 aspect ratio. This is most suitable for images which are already in a 16:9 aspect, like high definition TV, as it displays them without aspect alteration.

5. **16:10:** Scales an image so that it is displayed in the center of the screen with a 16:10 aspect ratio. This is most suitable for images which are already in a 16:10 aspect, as it displays them without aspect alteration.

The table below demonstrates the effects of the aspect ratio settings on projectors with different native resolutions. Please see "[Projector specifications](#)" on page 65 for the native display resolution of your projector.

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

Aspect ratio setting	When the native aspect ratio of your projector is...
	4:3
Auto	
4:3	
16:9	
16:10	

Optimizing the image

Selecting a color mode

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

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

- Press **Color Mode** to display the selection bar and press ▲ / ▼ to select a desired mode or press **Color Mode** repeatedly.
- Go to the **PICTURE > Color Mode** menu and press **Enter**. Press ▲ / ▼ to select a desired mode.

Picture modes for different types of signals

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

1. **Bright mode:** Maximizes the brightness of the projected image. This mode is suitable for environments where extra-high brightness is required, such as using the projector in well lit rooms.
2. **Dynamic mode:** Is designed for presentations under daylight environment to match PC and notebook coloring. In addition, the projector will optimize the image quality using the dynamic PC function in accordance with the projected contents.

3. **Standard mode:** Is designed for presentations under daylight environment to match PC and notebook coloring.
4. **sRGB mode:** Switches between high brightness performance and accurate color performance.
5. **Movie mode:** Is appropriate for playing colorful movies, video clips from digital cameras or DVs through the PC input for best viewing in a blackened (little light) environment.
6. **3D mode:** Is appropriate for playing 3D images and 3D video clips.

Using Screen Color

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

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

 This function is only available when a computer input signal is selected.

Fine-tuning the image quality in user modes

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

Adjusting Brightness

Go to the **PICTURE > Brightness** menu and press **Enter**.

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



Adjusting Contrast

Go to the **PICTURE > Contrast** menu and press **Enter**.

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



Adjusting Color

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

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

 This function is only available when the input signal is S-Video, Video, YPbPr or YCbCr.

Adjusting Tint

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

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

 This function is only available when the input signal is S-Video, Video, YPbPr or YCbCr.

Adjusting Sharpness

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

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

 This function is only available when the input signal is S-Video, Video, YPbPr or YCbCr.

Adjusting Brilliant Color

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

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

Selecting a Color Temperature

Go to the **PICTURE > Color Temperature** menu and press **Enter**.

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

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

Setting a preferred color temperature

1. Go to the **PICTURE > Color Temperature Fine Tuning** menu and press **Enter**.
2. Press ▲/▼ to highlight the item you want to change and adjust the values by pressing ◀/▶.
 - **R Gain/G Gain/B Gain:** Adjusts the contrast levels of Red, Green, and Blue.
 - **R Offset/G Offset/B Offset:** Adjusts the brightness levels of Red, Green, and Blue.

 This function is only available when a computer input signal is selected.

Color Management

Only in permanent installations with controlled lighting levels such as boardrooms, lecture theaters, or home theaters, should color management be considered. Color management provides fine color control adjustment to allow for more accurate color reproduction, should you require it.

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

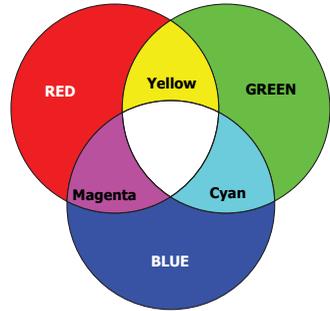
To adjust the settings:

1. Open the OSD menu and go to the **PICTURE > Color Management** menu.
2. Press **Enter** and the **Color Management** page is displayed.
3. Highlight **Primary Color** and press ◀/▶ to select a color from among Red, Yellow, Green, Cyan, Blue, or Magenta.

4. Press ▼ to highlight **Hue** and press ◀/▶ to select its range. Increase in the range will include colors consisted of more proportions of its two adjacent colors.

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

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



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

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

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

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

Resetting current or all picture modes

1. Go to the **PICTURE** menu and highlight **Reset Color Settings**.
2. Press **Enter** and press ▲/▼ to select **Current** or **All**.
 - **Current**: returns current color mode to the factory preset settings.
 - **All**: returns all picture modes to the factory preset settings.

Setting the presentation timer

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

1. Press  on the remote control or go to the **BASIC > Presentation Timer** menu.
2. Highlight **Timer Period** and decide the time period by pressing  / . The length of time can be set from 1 to 5 minutes in 1-minute increments and 5 to 240 minutes in 5-minute increments.

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

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

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

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

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

5. Press  to highlight **Timer Counting Direction** and select your desired counting direction by pressing  / .

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

6. Press  to highlight **Sound Reminder** and decide if you want to activate sound reminder by pressing  / . If you select **On**, a double beep sound will be heard at the last 30 seconds of counting down/up, and a triple beep sound will be produced when the timer is up.
7. To activate the presentation timer, press  and press  /  to highlight **Start Counting** and press **Enter**.
8. A confirmation message displays. Highlight **Yes** and press **Enter** to confirm. You will see the message “**Timer is On**” displaying on the screen. The timer starts counting when the timer is on.

To cancel the timer, perform the following steps:

1. Press  on the remote control or go to the **BASIC > Presentation Timer** menu.
2. Highlight **Off**. Press **Enter**. A confirmation message displays.
3. Highlight **Yes** and press **Enter** to confirm. You will see the message “**Timer is Off**” displaying on the screen.

Hiding the image

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

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

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

CAUTION

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

Locking control keys

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

1. Go to the **SYSTEM SETUP: Basic > Panel Key Lock** menu
2. Press **Enter** and press **▲/▼** to select **On**.
3. A confirmation message is displayed. Select **Yes** to confirm.

To release panel key lock, use the remote control to enter the **SYSTEM SETUP: Basic > Panel Key Lock** menu and select **Off**.

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

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

Operating in a high altitude environment

We recommend you use the **High Altitude Mode** when your environment is between 1500 m–3000 m above sea level, and temperature is between 0°C–30°C.

CAUTION

Do not use the **High Altitude Mode** if your altitude is between 0 m and 1499 m and temperature is between 0°C and 35°C. The projector will be over cooled, if you turn the mode on under such a condition.

To activate the **High Altitude Mode**:

1. Open the OSD menu and go to the **SYSTEM SETUP: Advanced > High Altitude Mode** menu.
2. Press **Enter** and press **▲/▼** to select **On**. A confirmation message is displayed.
3. Highlight **Yes** and press **Enter**.

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

If you use this projector under other extreme conditions excluding the above, it may display auto shut-down symptoms, which is designed to protect your projector from over-heating. In cases like this, you should switch to **High Altitude Mode** to solve these symptoms.



However, this is not to state that this projector can operate under any and all harsh or extreme conditions.

Using the 3D functions

This projector features 3D function which enables you to enjoy 3D movies, videos, and sporting events in a more realistic way by presenting the depth of the images. You need to wear a pair of 3D glasses to view 3D images.

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

1. Go to the **DISPLAY > 3D Settings** menu.
2. Press **Enter**. The **3D Settings** page is displayed.
3. Highlight **3D Mode** and press **Enter**.
4. Press **▼** to select a **3D Mode** setting and then press **Enter** to confirm.

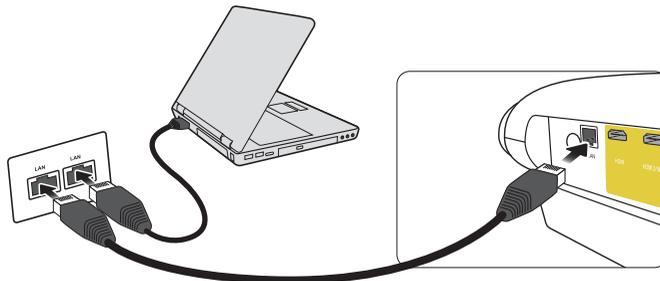
 **When the 3D Mode function is on:**

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

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

Controlling the projector through a LAN environment

The projector supports Crestron® software. With correct settings for the **Wired LAN** menu, you can manage the projector from a computer using a web browser when the computer and the projector are properly connected to the same local area network.



(An example of connection)

Configuring the Wired LAN

If you are in a DHCP environment:

1. Take a RJ45 cable and connect one end to the RJ45 LAN input jack of the projector and the other end to the RJ45 port.
2. Open the OSD menu and go to the **SYSTEM SETUP: Advanced > LAN Control Settings > Wired LAN** menu.
3. Press **Enter**. The **Wired LAN** page is displayed.

4. Highlight **DHCP** and press ◀/▶ to select **On**.
5. Press ▼ to highlight **Apply** and press **Enter**.
6. Please wait for around 15 - 20 seconds, and then re-enter the **Wired LAN** page. The **IP Address**, **Subnet Mask**, **Default Gateway**, and **DNS Server** settings will be displayed. Note down the IP address displayed in the **IP Address** row.

☞ If the **IP Address** still does not appear, contact your network administrator.

☞ If the **RJ45** cables are not properly connected, the **IP Address**, **Subnet Mask**, **Default Gateway**, and **DNS Server** settings will display **0.0.0.0**. Make sure the cables are properly connected and perform the procedures above again.

☞ If you need to connect to the projector in its standby mode, set **Enable Network Standby Mode** to **On** in the **SYSTEM SETUP: Advanced > Standby Settings > Network** menu.

If you are in a non-DHCP environment:

1. Repeat steps 1-3 above.
2. Highlight **DHCP** and press ◀/▶ to select **Off**.
3. Contact your ITS administrator for information on the **IP Address**, **Subnet Mask**, **Default Gateway**, and **DNS Server** settings.
4. Press ▼ to select the item you want to modify and press **Enter**.
5. Press ◀/▶ to move the cursor and the press ▲/▼ to enter the value.
6. To save the settings, press **Enter**. If you do not want to save the settings, press **Exit**.
7. Press ▼ to highlight **Apply** and press **Enter**.

☞ If the **RJ45** cables are not properly connected, the **IP Address**, **Subnet Mask**, **Default Gateway**, and **DNS Server** settings will display **0.0.0.0**. Make sure the cables are properly connected and perform the procedures above again.

☞ If you wish to connect to the projector in its standby mode, be sure you have set **DHCP** to **Off** and obtained the **IP Address**, **Subnet Mask**, **Default Gateway**, and **DNS Server** information when the projector is on.

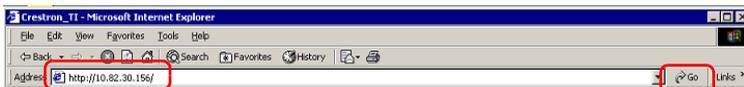
Controlling the projector through a web browser

Once you have the correct IP address for the projector and the projector is on or in standby mode, you can use any computer that is on the same local area network to control the projector.

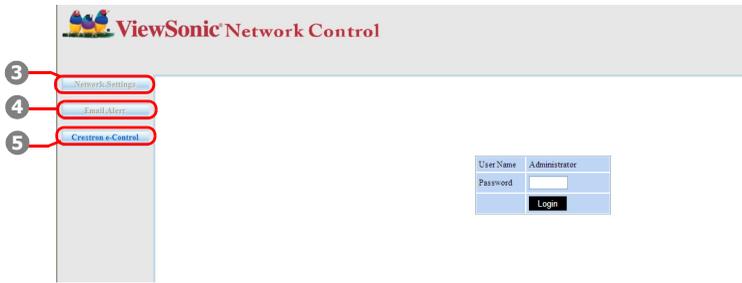
☞ If you are using **Microsoft Internet Explorer**, make sure it is **version 7.0** or higher.

☞ The screen shots in this manual are for reference only, and may differ from the actual design.

1. Enter the address of the projector in the address bar of your browser and press **Enter**.



- The main page of the Network Control appears.



 **Accessing to Network Settings or Email Alert page requires Administrator password. The default password is "0000".**

- This page allows you to make adjustments to the AMX and SNMP settings. In the AMX device discover row, when ON is selected, the projector can be detected by controllers of AMX connected to the same network. For the Details of AMX Discovery, visit the AMX web site at <http://www.amx.com/>.



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



- The Crestron (e-Control) page displays the Crestron e-Control user interface. See "[About Crestron e-Control®](#)" on [page 35](#) for details.

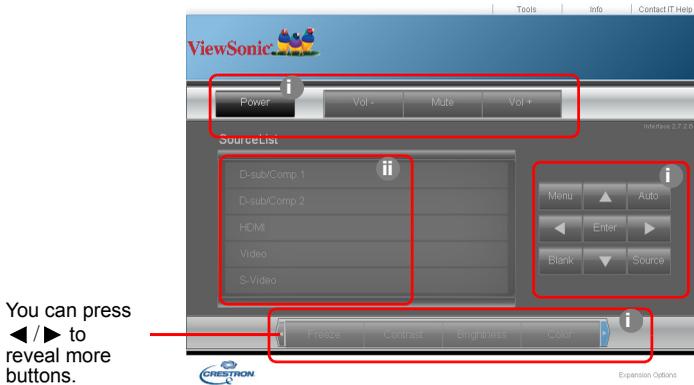
Please pay attention to the limitation of input length (including space and other punctuation keys) in the list blow:

Category Item		Input Length	Maximum Number of Characters
Network Settings	Network	DHCP/Manual	(N/A)
		IP Address	XXX.XXX.XXX.XXX
		Subnet Mask	XXX.XXX.XXX.XXX
		Gateway	XXX.XXX.XXX.XXX
		DNS Server	XXX.XXX.XXX.XXX
		AMX device discovery	(N/A)
	Password	Administrator	(N/A)
		New Password	4
		Confirm Password	4
	SNMP	SysLocation	22
		SysName	22
		SysContact	22
Email Alert	Email Setting	To	40
		Cc	40
		Subject	40
		From	40
	SMTP Setting	Server	30
		User Name	21
		Password	14
	Alert Condition	Fan Error	(N/A)
		Light source Error	(N/A)
		Over Temperature	(N/A)
		Light source Time Alert	(N/A)
		Submit	(N/A)
Issue Test Mail	(N/A)		

 / > < \$ % + \ ' " are prohibited.

About Crestron e-Control[®]

1. The Crestron e-Control[®] page provides a variety of virtual keys to control the projector or adjust the projected pictures.



You can press ◀/▶ to reveal more buttons.

- i. These buttons function the same as the ones on the OSD menus or remote control. See "2. PICTURE menu" on page 44 and "Projector" on page 5 for details.
- ii. To switch between input signals, click on your desired signal.

☞ The Menu button can also be used to go back to previous OSD menus, exit and save menu settings.

☞ The source list varies according to the connectors available on the projector.

☞ When you use the projector control panel or remote control to change the OSD menu settings, it may take a while for the web browser to synchronize these changes with the projector.

2. The tools page allows you to manage the projector, configure the LAN control settings and secure access of remote network operation on this projector.



- i. This section is only used with the Crestron Control System. Please contact Crestron or refer to its user manual for setup information.
- ii. You can name the projector, keep track of its location and the person in charge of it.

- iii. You can adjust the **Wired LAN**.
- iv. Once set, access to the remote network operation on this projector has been password-protected.
- v. Once set, access to the tools page has been password-protected.

 **To prevent errors, only input the English alphabet and digits on the tools page.**

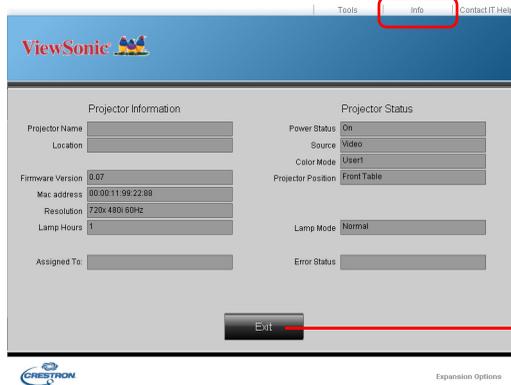
 **After making the adjustments, press the Send button and the data will be saved for the projector.**

- vi. Press **Exit** to go back to the remote network operation page.

Please pay attention to the limitation of input length (including space and other punctuation keys) in the list below:

Category Item	Input Length	Maximum Number of Characters
Crestron Control	IP Address	16
	IP ID	4
	Port	5
Projector	Projector Name	32
	Location	32
	Assigned To	32
Network Configuration	DHCP (Enabled)	(N/A)
	IP Address	16
	Subnet Mask	16
	Default Gateway	16
	DNS Server	16
User Password	Enabled	(N/A)
	New Password	26
	Confirm	26
Admin Password	Enabled	(N/A)
	New Password	26
	Confirm	26

3. The info page displays the information and status of this projector.



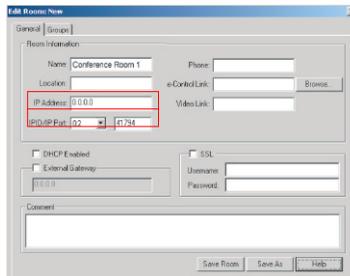
Press **Exit** to go back to the remote network operation page.

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

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

**Crestron RoomView

On the “Edit Room” page, enter the IP Address (or hostname) as shown on the projector’s on-screen display (OSD) menu, and “02” for IPID, “41794” for the reserved Crestron control port.



About Crestron RoomView™ setting and command method, please access below website to get RoomView™ User Guide and more information:
http://www.crestron.com/products/roomview_connected_embedded_projectors_devices/resources.asp

PJLink™, SNMP, AMX and Xpanel formats supported

This projector is PJLink™, SNMP V.1, AMX or Xpanel V1.10 compliant. For details, please follow its user guide or website respectively to control and manage projectors.

Using the projector in standby mode

Some of the projector functions are available in standby mode (plugged in but not turned on). To use these functions, be sure the cable connections are correctly made. For the connection methods, see the [Connection](#) chapter.

Active VGA Out

Selecting **On** in the **SYSTEM SETUP: Advanced > Standby Settings > Active VGA Out** outputs a VGA signal when the **COMPUTER 1** and **COMPUTER OUT** sockets are correctly connected to devices. The projector outputs the signal received only from **COMPUTER 1**.

LAN Control

Making the following settings in the **SYSTEM SETUP: Advanced > Standby Settings > Network** allows the projector to provide the network function when it is in standby mode. See "[Controlling the projector through a LAN environment](#)" on page 31 for details.

- **Enable Network Standby Mode:** Allows the projector to provide the network function in standby mode.
- **Auto Disable Network Standby Mode:** Allows the projector to disable the network function after a set period of time after it enters standby mode. For instance, if 20 min is selected, the projector is able to provide the network function for 20 minutes after it enters standby mode. When 20 minutes is up, the projector enters normal standby mode.

Adjusting the sound

The sound adjustments made as below will have an effect on the projector speaker. Be sure you have made a correct connection to the projector audio input/output jacks. See "[Connection](#)" on page 12 for more details.

Muting the sound

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

 If available, you can press  on the remote control.

Adjusting the sound level

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

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

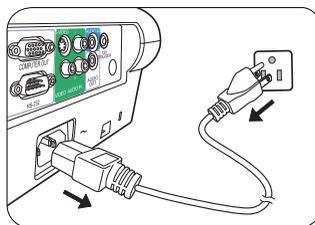
Turning off the Power On/Off Ring Tone

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

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

Shutting down the projector

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



 To turn off the ring tone, see ["Turning off the Power On/Off Ring Tone" on page 38](#) for details.



CAUTION

- To protect the light source, the projector will not respond to any commands during the cooling process.
- Do not unplug the power cord before the projector shutdown sequence is complete.

Menu operation

Menu system

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

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

Main menu	Sub-menu	Options	
1. DISPLAY	Screen Color	Off/Yellow/Greenboard/Blackboard	
	Aspect Ratio	Auto/Real/4:3/16:9/16:10	
	Keystone		
	Position		
	Phase		
	H. Size		
	Zoom		
	3D Settings	3D Mode	Auto/Top-Bottom/Frame Sequential/ Frame Packing/Side by Side/Off
		3D Sync Invert	Disable/Invert
		Pattern	Off/Test Card/Note Pad/World Map
2. PICTURE	Color Mode	Bright/Dynamic/Standard/sRGB/Movie/ (3D)	
	Brightness		
	Contrast		
	Color		
	Tint		
	Sharpness		
	Brilliant Color	Off/On	
	Color Temperature	Warm/Normal/Cool	
	Color Temperature Fine Tuning	R Gain/G Gain/B Gain/R Offset/G Offset/ B Offset	
		Primary Color	R/G/B/C/M/Y
	Color Management	Hue	
		Saturation	
		Gain	
		Reset Color Settings	Current/All/Cancel

Main menu	Sub-menu	Options	
3. SOURCE	Quick Auto Search	Off/On	
	Color Space Invert	Auto/RGB Limited Range/ RGB Full Range/YUV Limited Range/YUV Full Range	
4. SYSTEM SETUP: Basic	Presentation Timer	Timer Period	1~15~240 m
		Timer Display	Always/1 min/2 min/3 min/ Never
		Timer Position	Top-Left/Bottom-Left/Top- Right//Bottom-Right
		Timer Counting Direction	Count Down/Count Up
		Sound Reminder	On/Off
		Start Counting/Off	
	Language	Multi-language OSD selection	
	Projector Position	Front Table/Rear Table/ Rear Ceiling/Front Ceiling	
	Menu Settings	Menu Display Time	5 sec/10 sec/20 sec/30 sec/ Always
		Menu Position	Center/Top-Left/Top-Right/ Bottom-Left/Bottom-Right
		Reminder Message	On/Off
	Operation Settings	Direct Power On	On/Off
		Signal Power On	Computer HDMI
		Auto Power Off	Disable/3 min/10 min/15 min/ 20 min/25 min/30 min
		Blank Timer	Disable/5 min/10 min/15 min/ 20 min/25 min/30 min
		Sleep Timer	Disable/30 min/1 hr/2 hr/3 hr/ 4 hr/8 hr/12 hr
		Reset Filter Timer	Reset/Cancel
	Panel Key Lock	Off/On	
	Splash Screen	Black/Blue/ViewSonic	

Main menu	Sub-menu	Options	
5. SYSTEM SETUP: Advanced	High Altitude Mode	On/Off	
	Audio Settings	Mute	On/Off
		Volume	
		Power On/Off Ring Tone	On/Off
		Light Source Settings	Normal/Eco
	Security Settings	Change Password	
		Change Security Settings	
		Power On Lock	Off/On
	Baud Rate	2400/4800/9600/14400/ 9200/38400/57600/ 115200	
	Closed Caption	Closed Caption Enable	On/Off
		Caption Version	CC1/CC2/CC3/CC4
	Standby Settings	Network	Enable Network Standby Mode
			Auto Disable Network Standby Mode
		Active VGA Out	On/Off
	LAN Control Settings	Wired LAN	Status
			DHCP
			IP Address
			Subnet Mask
			Default Gateway
			DNS Server
Apply			
AMX Device Discovery	On/Off		
	MAC Address		
	Reset All Settings	Reset/Cancel	
6. INFORMATION	<ul style="list-style-type: none"> • Source • Color Mode • Resolution • Color System • Light Source Usage Time • IP Address • MAC Address • Firmware Version 		

Description of each menu

Function	Description
Screen Color	See "Using Screen Color" on page 26 for details.
Aspect Ratio	See "Selecting the aspect ratio" on page 24 for details.
Keystone	See "Correcting keystone" on page 23 for details.
1. DISPLAY menu	<p>Displays the position adjustment page. To move the projected image, use the directional arrow keys. The values shown on the lower position of the page change with every key press you made until they reach their maximum or minimum.</p> <p> This function is only available when a PC input signal is selected.</p> <p> The adjustment range may vary under different timings.</p>
	<p>Adjusts the clock phase to reduce image distortion.</p> <div style="display: flex; align-items: center;">  </div> <p> This function is only available when a PC input signal is selected.</p>
H. Size	<p>Adjusts the horizontal width of the image.</p> <p> This function is only available when a PC input signal is selected.</p>
Zoom	See "Magnifying and searching for details" on page 24 for details.
3D Settings	See "Using the 3D functions" on page 31 for details.
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.

	Function	Description
2. PICTURE menu	Color Mode	See "Selecting a color mode" on page 25 for details.
	Brightness	See "Adjusting Brightness" on page 26 for details.
	Contrast	See "Adjusting Contrast" on page 26 for details.
	Color	See "Adjusting Color" on page 26 for details.
	Tint	See "Adjusting Tint" on page 26 for details.
	Sharpness	See "Adjusting Sharpness" on page 27 for details.
	Brilliant Color	See "Adjusting Brilliant Color" on page 27 for details.
	Color Temperature	See "Selecting a Color Temperature" on page 27 for details.
	Color Temperature Fine Tuning	See "Setting a preferred color temperature" on page 27 for details.
	Color Management	See "Color Management" on page 27 for details.
	Reset Color Settings	Returns the settings of all or current color mode to the factory preset values.
3. SOURCE menu	Quick Auto Search	See "Switching input signal" on page 22 for details.
	Color Space Invert	See "Changing HDMI input settings" on page 22 for details.

Function	Description
4. SYSTEM SETUP: Basic menu	Presentation Timer See "Setting the presentation timer" on page 29 for details.
	Language Sets the language for the On-Screen Display (OSD) menus. See "Using the menus" on page 19 for details.
	Projector Position See "Choosing a location" on page 9 for details.
	Menu Settings Menu Display Time 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. Menu Position Sets the On-Screen Display (OSD) menu position. Reminder Message Sets the reminder messages on or off.
	Operation Settings Direct Power On Selecting On allows the projector to turn on automatically once the power is fed through the power cord. Signal Power On Sets whether the projector automatically turns on when the it is in standby mode and detects a VGA signal or a HDMI signal with 5V power. Auto Power Off Allows the projector to turn off automatically if no input signal is detected after a set period of time to prevent unnecessary waste of light source life. Blank Timer See "Hiding the image" on page 30 for details. Sleep Timer See "Setting Sleep Timer" on page 50 for details. Reset Filter Timer See "Resetting the filter timer" on page 49 for details.
	Panel Key Lock See "Locking control keys" on page 30 for details.
	Splash Screen Allows you to select which logo screen will be displayed during projector start-up.

Function	Description
High Altitude Mode	A mode for operation in high altitude areas. See "Operating in a high altitude environment" on page 30 for details.
Audio Settings	See "Adjusting the sound" on page 38 for details.
Light Source Settings	See "Setting Light Source Settings" on page 50 for details.
Security Settings	See "Utilizing the password function" on page 20 for details.
Baud Rate	Selects a baud rate that is identical with your computer's so that you can connect the projector using a suitable RS232 cable and control the projector with RS232 commands.
Closed Caption	<p>Selects a preferred closed captioning mode when the selected input signal carries closed captions.</p> <ul style="list-style-type: none"> • 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). <p> This function is only available when a Composite video input signal is selected and its system format is NTSC.</p> <p>Caption Version To view captions, select CC1, CC2, CC3, or CC4 (CC1 displays captions in the primary language in your area).</p>
Standby Settings	See "Using the projector in standby mode" on page 38 for details.
LAN Control Settings	<p>Wired LAN See "Controlling the projector through a LAN environment" on page 31 for details.</p> <p>AMX Device Discovery When this function is On, the projector can be detected by AMX controller.</p> <p>MAC Address Displays the mac address for this projector.</p>
Reset All Settings	Returns all settings to the factory preset values.  The following settings will still remain: Keystone, Projector Position, High Altitude Mode, Security Settings, Baud Rate, LAN Control Settings.

Function	Description
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">6. INFORMATION menu</p> <p>Current System Status</p>	<p>Source Shows the current signal source.</p> <p>Color Mode Shows the selected mode in the PICTURE menu.</p> <p>Resolution Shows the native resolution of the input signal.</p> <p>Color System Shows input system format.</p> <p>Light Source Usage Time Displays the number of hours the light source has been used.</p> <p>IP Address Shows the IP address of your projector.</p> <p>MAC Address Shows the MAC Address of your projector.</p> <p> MAC Address stands for Media Access Control Address, which is a physical layer address used to uniquely identify a network node.</p> <p>Firmware Version Shows the current firmware version.</p>

Maintenance

Care of the projector

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

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

Cleaning the lens

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

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

 **CAUTION**

Never rub the lens with abrasive materials.

Cleaning the projector case

Before you clean the case, turn the projector off using the proper shutdown procedure as described in "[Shutting down the projector](#)" on page 39 and unplug the power cord.

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

 **CAUTION**

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

Storing the projector

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

- Make sure the temperature and humidity of the storage area are within the recommended range for the projector. Please refer to "[Specifications](#)" on page 54 or consult your dealer about the range.
- Retract the adjuster foot.
- Remove the battery from the remote control.
- Pack the projector in its original packing or equivalent.

Transporting the projector

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

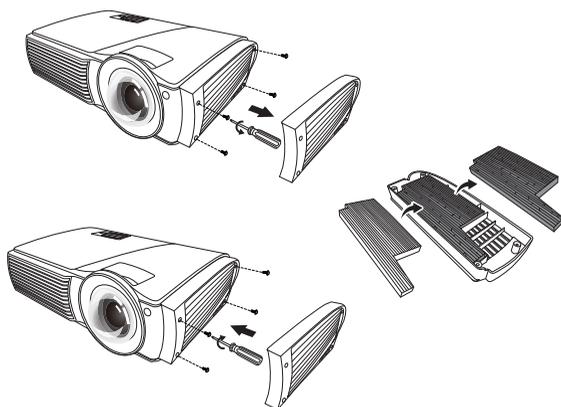
Using the dust filter

⚠ CAUTION

- It is recommended to clean the dust filter every 500 hours after the dust filter is installed.
- Be sure to turn off the projector and unplug it from power source before installing or detaching the filter.
- If your projector is ceiling-mounted or is not easily accessible, pay special attention to your personal safety when replacing the dust filter.

Replacing the dust filter

1. Be sure to turn off the projector and unplug it from power source.
2. Locate the dust filter cover on the side of the projector and loosen the 4 screws using the screwdriver. Keep the screws in a safe place for later use. Detach the dust filter cover from the projector.
3. Replace the old (used) filter in the dust filter cover with the spare (new) filter . Dispose of the old filter properly according to your local regulations.
4. Re-install the dust filter cover using the screwdriver and the screws removed in step 2.



Resetting the filter timer

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

Light source information

Extending light source life

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

Setting Light Source Settings

Setting the projector in **Eco** mode reduces system noise, power consumption and extends the light source operation life.

Light source mode	Description
Normal	Provides full light source brightness.
Eco	Reduces light source power consumption by 30% and lowers brightness to extend the light source life and decreases the fan noise.

To set the **Light Source Settings**, go to the **SYSTEM SETUP: Advanced > Light Source Settings** menu and press ◀/▶ to select. Or you can press **Eco Mode** on the remote control to select.

Setting Auto Power Off

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

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

Setting Sleep Timer

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

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

Timing of replacing the light source

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

CAUTION

The Light source indicator light and Temperature indicator light will light up if the light source becomes too hot. Turn the power off and let the projector cool for 45 minutes. If the Light source indicator light or Temperature indicator light still lights up after turning the power back on, please contact your dealer. See "[Indicators](#)" on page 52 for details.

Replacing the light source

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

Indicators

Light			Status & Description
POWER	TEMP	LIGHT	
Power events			
Orange	Off	Off	Stand-by mode
Green Flashing	Off	Off	Powering up
Green	Off	Off	Normal operation
Orange Flashing	Off	Off	Normal power-down cooling
Red Flashing	Red Flashing	Red Flashing	Download
Green	Off	Red	CW start fail
Red Flashing	Off	Off	Scaler shutdown fail (data abort)
Red	Off	Red	Scaler reset fail (video projector only)
Green	Off	Off	Burn-in ON
Green	Green	Green	Burn-in OFF
Light source events			
Off	Off	Red	Light source error in normal operation
Off	Off	Orange Flashing	Light source is not lit up
Green	Off	Orange	Light source life exhausted
Thermal events			
Red	Red	Off	Fan 1 error (the actual fan speed is outside the desired speed)
Red	Red Flashing	Off	Fan 2 error (the actual fan speed is outside the desired speed)
Red	Green	Off	Fan 3 error (the actual fan speed is outside the desired speed)
Red	Green Flashing	Off	Fan 4 error (the actual fan speed is outside the desired speed)
Green	Red	Off	Temperature 1 error (over limited temperature)
Green	Red Flashing	Off	Thermal Sensor 1 open error
Green	Green	Off	Thermal Sensor 1 short error
Green	Green Flashing	Off	Thermal IC #1 I2C Connection error
Green Flashing	Green Flashing	Off	Thermal IC #2 I2C Connection error
Green	Red	Red	Thermal break error

Troubleshooting

① The projector does not turn on.

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

① No picture

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

① Blurred image

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

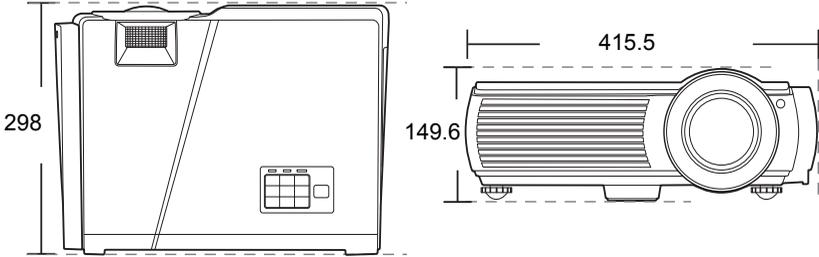
① Remote control does not work

Cause	Remedy
The battery is out of power.	Replace the battery with a new one.
There is an obstacle between the remote control and the projector.	Remove the obstacle.
You are too far away from the projector.	Stand within 8 meters (26 feet) from the projector.

Specifications

Dimensions

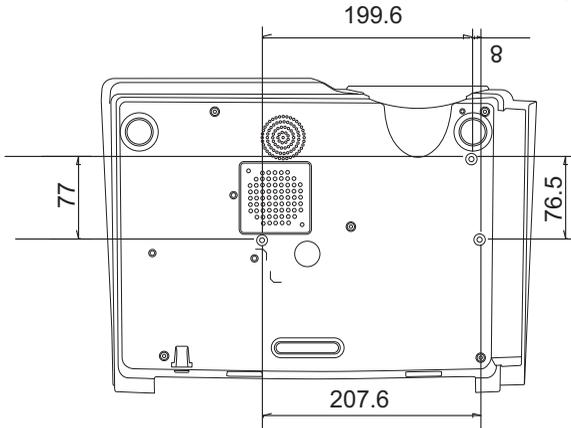
415.5 mm (W) x 149.6 mm (H) x 298 mm (D) (Including extrusions)



Unit: mm

Ceiling mount installation

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



Unit: mm

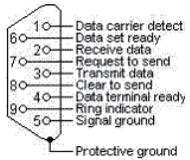
IR control table

Key	Format	Byte1	Byte2	Byte3	Byte4
Freeze	NEC	83	F4	03	FC
Blank	NEC	83	F4	07	F8
Auto sync	NEC	83	F4	08	F7
Up	NEC	83	F4	0B	F4
Down	NEC	83	F4	0C	F3
Left	NEC	83	F4	0E	F1
Right	NEC	83	F4	0F	F0
Color Mode	NEC	83	F4	10	EF
Aspect Ratio	NEC	83	F4	13	EC
Mute	NEC	83	F4	14	EB
Enter	NEC	83	F4	15	EA
Power ON	NEC	83	F4	17	E8
3D	NEC	83	F4	20	DF
Presentation Timer	NEC	83	F4	27	D8
Exit	NEC	83	F4	28	D7
D. ECO (Eco mode)	NEC	83	F4	2B	D4
Menu	NEC	83	F4	30	CF
Magnify +	NEC	83	F4	32	CD
Source	NEC	83	F4	40	BF
COMP1	NEC	83	F4	41	BE
COMP2	NEC	83	F4	45	BA
Pattern	NEC	83	F4	55	AA
HDMI	NEC	83	F4	58	A7
Volume+	NEC	83	F4	82	7D
Volume-	NEC	83	F4	83	7C
Informaiton	NEC	83	F4	97	68
Video	NEC	83	F4	9F	60

RS232 command table

<Pin assignment for this two end>

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



<Interface>

RS-232 protocol	
Baud Rate	115200 bps (default)
Data Length	8 bit
Parity Check	None
Stop Bit	1 bit
Flow Control	None

<RS232 command table>

Function	Status	Action	cmd
Power	Write	Turn on	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x00 0x00 0x5D
		Turn off	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x01 0x00 0x5E
	Read	Power status (on/off)	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x00 0x5E
High Altitude Mode	Write	High Altitude Mode Off	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x0C 0x00 0x69
		High Altitude Mode On	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x0C 0x01 0x6A
	Read	High Altitude Mode status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x0C 0x6A
Light source Mode	Write	Normal	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x10 0x00 0x6D
		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
Projector Position	Write	Front Table	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x00 0x00 0x5E
		Rear Table	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x00 0x01 0x5F
		Rear Ceiling	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x00 0x02 0x60
		Front Ceiling	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x00 0x03 0x61
	Read	projector position status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x00 0x5F

3D Sync	Write	Auto	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x32 0x00 0x8F
		Top-Bottom	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x32 0x01 0x90
		Frame Sequential	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x32 0x02 0x91
		Frame Packing	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x32 0x03 0x92
		Side-by-Side	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x32 0x04 0x93
	Off	0x06 0x14 0x00 0x04 0x00 0x34 0x11 0x32 0x05 0x94	
Read	3D Sync Status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x11 0x32 0x90	
Contrast	Write	Contrast decrease	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x02 0x00 0x60
		Contrast increase	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x02 0x01 0x61
Read	Contrast ratio	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x02 0x61	
Brightness	Write	Brightness decrease	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x03 0x00 0x61
		Brightness increase	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x03 0x01 0x62
Read	Brightness	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x03 0x62	
Aspect ratio	Write	Aspect ratio Auto	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x00 0x62
		Aspect ratio Real	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x01 0x63
		Aspect ratio 4:3	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x02 0x64
		Aspect ratio 16:9	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x03 0x65
	Aspect ratio 16:10	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x04 0x04 0x66	
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	

Color temperature	Write	color temperature Cool	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x08 0x00 0x66
		color temperature Normal	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x08 0x01 0x67
		color temperature Warm	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x08 0x02 0x68
	Read	color temperature status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x08 0x67
Blank	Write	Blank on	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x09 0x01 0x68
		Blank off	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x09 0x00 0x67
	Read	Blank status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x09 0x68
Color mode	Write	Brightest	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x00 0x69
		Dynamic	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x01 0x6A
		Standard	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x02 0x6B
		sRGB (or ViewMatch sRGB)	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x03 0x6C
		Movie	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x04 0x6D
	3D	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0B 0x05 0x6E	
	Read	Color mode status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x0B 0x6A
Freeze	Write	Freeze on	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x00 0x01 0x60
		Freeze off	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x00 0x00 0x5F
	Read	Freeze status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x13 0x00 0x60

Source input	Write	Input source D-Sub / Comp. 1	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x01 0x00 0x60
		Input source D-Sub / Comp. 2	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x01 0x01 0x61
		Input source HDMI 1	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x01 0x03 0x63
		Input source HDMI 2/MHL	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x01 0x06 0x66
		Input source Video	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x01 0x04 0x64
		Input source S-Video	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x01 0x05 0x65
	Read	Source	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x13 0x01 0x61
Quick Auto Search	Write	Quick Auto Search on	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x02 0x01 0x62
		Quick Auto Search off	0x06 0x14 0x00 0x04 0x00 0x34 0x13 0x02 0x00 0x61
	Read	Quick Auto Search status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x13 0x02 0x62
Mute	Write	Mute on	0x06 0x14 0x00 0x04 0x00 0x34 0x14 0x00 0x01 0x61
		Mute off	0x06 0x14 0x00 0x04 0x00 0x34 0x14 0x00 0x00 0x60
	Read	Mute status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x14 0x00 0x61
Volume	Write	Increase Volume	0x06 0x14 0x00 0x04 0x00 0x34 0x14 0x01 0x00 0x61
		Decrease Volume	0x06 0x14 0x00 0x04 0x00 0x34 0x14 0x02 0x00 0x62
	Read	Volume	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x14 0x03 0x64
Light source Time	Write	Reset light source usage hour	0x06 0x14 0x00 0x04 0x00 0x34 0x15 0x01 0x00 0x62
	Read	Light source usage hour	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x15 0x01 0x63
Brilliant Color	Write	Brilliant Color Off	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x00 0x6D
		Brilliant Color On	0x06 0x14 0x00 0x04 0x00 0x34 0x12 0x0F 0x01 0x6E
	Read	Brilliant Color status	0x07 0x14 0x00 0x05 0x00 0x34 0x00 0x00 0x12 0x0F 0x6E

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

Timing chart

Analog RGB			
Signal	Resolution (dots)	Aspect Ratio	Refresh Rate (Hz)
VGA	640 x 480	4:3	60/72/75/85
SVGA	800 x 600	4:3	60/72/75/85
XGA	1024 x 768	4:3	60/70/75/85
	1152 x 864	4:3	75
WXGA	1280 x 768	15:9	60
	1280 x 800	16:10	60/75/85
	1360 x 768	16:9	60
Quad-VGA	1280 x 960	4:3	60/85
SXGA	1280 x 1024	5:4	60
WXGA	1366 x 768	16:9	59.7
SXGA+	1400 x 1050	4:3	60
WXGA+	1440 x 900	16:10	60
UXGA	1600 x 1200	4:3	60
WSXGA+	1680 x 1050	16:10	60
HD	1280 x 720	16:9	60
MAC 13"	640 x 480	4:3	67
MAC 16"	832 x 624	4:3	75
MAC 19"	1024 x 768	4:3	75
MAC 21"	1152 x 870	4:3	75
HDTV (1080p)	1920 x 1080	16:9	60

HDMI			
Signal	Resolution (dots)	Aspect Ratio	Refresh Rate (Hz)
VGA	640 x 480	4:3	60
SVGA	800 x 600	4:3	60
XGA	1024 x 768	4:3	60
WXGA	1280 x 768	15:9	60
	1280 x 800	16:10	60
	1360 x 768	16:9	60
Quad-VGA	1280 x 960	4:3	60
SXGA	1280 x 1024	5:4	60
WXGA	1366 x 768	16:9	59.7
SXGA+	1400 x 1050	4:3	60
WXGA+	1440 x 900	16:10	60
WSXGA+	1680 x 1050	16:10	60
HDTV (1080p)	1920 x 1080	16:9	50 / 60
HDTV (1080i)	1920 x 1080	16:9	50 / 60
HDTV (720p)	1280 x 720	16:9	50 / 60
SDTV (480p)	720 x 480	4:3 / 16:9	60
SDTV (576p)	720 x 576	4:3 / 16:9	50
SDTV (480i)	720 x 480	4:3 / 16:9	60
SDTV (576i)	720 x 576	4:3 / 16:9	50

3D (HDMI signal included)			
Signal	Resolution (dots)	Aspect Ratio	Refresh Rate (Hz)
SVGA	800 x 600	4:3	60* / 120**
XGA	1024 x 768	4:3	60* / 120**
HD	1280 x 720	16:9	60* / 120**
WXGA	1280 x 800	16:9	60* / 120**
for Video Signal			
Signal	Resolution (dots)	Aspect Ratio	Refresh Rate (Hz)
SDTV (480i)***	720 x 480	4:3 / 16:9	60
 * 50Hz and 60Hz signals are supported for Side-by-Side, Top-Bottom, and Frame Sequential formats.			
** 120 Hz signals are supported for Frame Sequential format only.			
*** Video signal (SDTV 480i) is supported for Frame Sequential format only.			

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

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

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

Projector specifications

 All specifications are subject to change without notice.

 Not all models can be purchased in your region.

Product Specification	
Resolution	0.55" XGA (1024 x 768)
Throw ratio	0.61
Display system	1-CHIP DMD
Light source	LASER DIODE NUBM08 8pcs x 2
Input connector	
RGB-in	2
Component input	shared with RGB-in
S-Video	1
Composite input	1
Audio-in	1
RCA R&L	1
Mini USB	1 (firmware upgrade)
HDMI (1.4a)	1
HDMI/MHL	1
Output connector	
RGB-out	1
USB-A	1 (provide power supply)
Audio-out	1
Speaker	10 watt x 2
Control terminal	
RS-232 serial control	9 pin x 1
LAN	RJ45 x 1
IR receiver	2 (Front; rear)
12V trigger	1
Mechanical	
Net Weight	5.6 Kg (12.3 lbs)
Electrical	
Power Source	AC100–240V, 50–60 Hz
Power Consumption	STD: 305 W (Max); < 0.5 W (Standby)
Environmental Requirements	
Operating Temperature	0°C–40°C at sea level
Operating Altitude	0–1499 m at 0°C–35°C 1500–3000 m at 0°C–30°C (with High Altitude Mode on)
Operating Relative Humidity	10%–90% (without condensation)

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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= 1-866-463-4775	service.ca@viewsonic.com
Europe	www.viewsoniceurope.com	www.viewsoniceurope.com/uk/support/call-desk/	
Hong Kong	www.hk.viewsonic.com	T= 852 3102 2900	service@hk.viewsonic.com
India	www.in.viewsonic.com	T= 1800 419 0959	service@in.viewsonic.com
Korea	ap.viewsonic.com/kr/	T= 080 333 2131	service@kr.viewsonic.com
Latin America (Argentina)	www.viewsonic.com/la/	C= http://www.viewsonic.com/la/soporte/servicio-tecnico	soporte@viewsonic.com
Latin America (Chile)	www.viewsonic.com/la/	C= http://www.viewsonic.com/la/soporte/servicio-tecnico	soporte@viewsonic.com
Latin America (Columbia)	www.viewsonic.com/la/	C= http://www.viewsonic.com/la/soporte/servicio-tecnico	soporte@viewsonic.com
Latin America (Mexico)	www.viewsonic.com/la/	C= http://www.viewsonic.com/la/soporte/servicio-tecnico	soporte@viewsonic.com
Nexus Hightech Solutions, Cincinnati #40 Desp. 1 Col. De los Deportes Mexico D.F. 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 2840 3687	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= 1-800-688-6688	service.us@viewsonic.com

Limited Warranty

ViewSonic® Projector

What the warranty covers:

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

Limited Three (3) year General Warranty

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

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

Limited One (1) year Heavy Usage Warranty:

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

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

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

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty does not cover:

1. Any product on which the serial number has been defaced, modified or removed.
2. Damage, deterioration, failure, or malfunction resulting from:
 - a. Accident, abuse, misuse, neglect, fire, water, lightning, or other acts of nature, improper maintenance, unauthorized product modification, or failure to follow instructions supplied with the product.
 - b. Operation outside of product specifications.
 - c. Operation of the product for other than the normal intended use or not under normal conditions.
 - d. Repair or attempted repair by anyone not authorized by ViewSonic.
 - e. Any damage of the product due to shipment.
 - f. Removal or installation of the product.
 - g. Causes external to the product, such as electric power fluctuations or failure.
 - h. Use of supplies or parts not meeting ViewSonic's specifications.
 - i. Normal wear and tear.
 - j. Any other cause which does not relate to a product defect.
3. Removal, installation, and set-up service charges.

How to get service:

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

Limitation of implied warranties:

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

Exclusion of damages:

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

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

Effect of local law:

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

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

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

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

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

Mexico Limited Warranty

ViewSonic® Projector

What the warranty covers:

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

How long the warranty is effective:

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

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

All accessory lamps purchased separately are warranted for 90 days.

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty does not cover:

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

How to get service:

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

For Your Records

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

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

Limitation of implied warranties:

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

Exclusion of damages:

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

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

Contact Information for Sales & Authorized Service (Centro Autorizado de Servicio) within Mexico:	
Name, address, of manufacturer and importers: México, Av. de la Palma #8 Piso 2 Despacho 203, Corporativo Interpalmas, Col. San Fernando Huixquilucan, Estado de México Tel: (55) 3605-1099 http://www.viewsonic.com/la/soporte/index.htm	
NÚMERO GRATIS DE ASISTENCIA TÉCNICA PARA TODO MÉXICO: 001.866.823.2004	
Hermosillo: Distribuciones y Servicios Computacionales SA de CV. Calle Juarez 284 local 2 Col. Bugambillas C.P: 83140 Tel: 01-66-22-14-9005 E-Mail: disc2@hmo.megared.net.mx	Villahermosa: Compumantenimientos Garantizados, S.A. de C.V. AV. GREGORIO MENDEZ #1504 COL, FLORIDA C.P. 86040 Tel: 01 (993) 3 52 00 47 / 3522074 / 3 52 20 09 E-Mail: compumantenimientos@prodigy.net.mx
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Guerrero Acapulco GS Computación (Grupo Sescicomp) Progreso #6-A, Colo Centro 39300 Acapulco, Guerrero Tel: 744-48-32627	Monterrey: Global Product Services Mar Caribe # 1987, Esquina con Golfo Pérsico Fracc. Bernardo Reyes, CP 64280 Monterrey N.L. México Tel: 8129-5103 E-Mail: aydeem@gps1.com.mx
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Tijuana: STD Av Ferrocarril Sonora #3780 L-C Col 20 de Noviembre Tijuana, Mexico	FOR USA SUPPORT: ViewSonic Corporation 14035 Pipeline Ave. Chino, CA 91710, USA Tel: 800-688-6688 (English); 866-323-8056 (Spanish); E-Mail: http://www.viewsonic.com



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