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Safety Informations

	The lightning flash with arrow head within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
	The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THE PROJECTOR TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

Class B emissions limits

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Important Safety Instruction

1. Read these instructions -before using this projector.
2. Keep these instructions -for future reference.
3. Follow all instructions.
4. Install in accordance with the manufacturer's instructions :
 - A. Do not block any ventilation openings.** To ensure reliable operation of the projector and to protect it from overheating, put the projector in a position and location that will not interfere with its proper ventilation. For example, do not place the projector on a bed, sofa, carpet, or similar surface that may block the ventilation openings. Do not put it in an enclosure, such as a bookcase or a cabinet that may keep air from flowing through its ventilation openings.
 - B. Do not use this projector near water or moisture.** To reduce the risk of fire or electric shock, do not expose the projector to rain or moisture.
 - C. Do not install near any heat sources,** such as radiators, heaters, stoves or other apparatus (including amplifiers) that produce heat.
5. Clean only with a dry cloth.
6. Only use attachments/accessories specified by the manufacturer.
7. Refer all servicing to qualified service personnel. Servicing is required when the projector has been damaged in any way, such as:
 - ☐ Power supply cord or plug is damaged.
 - ☐ Liquids have spilled or objects have fallen into the apparatus.
 - ☐ The projector has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Do not attempt to service this projector yourself. Opening or removing covers may expose you to dangerous voltages or other hazards. Please call Optoma to be referred to an authorized service center near you.
8. Do not let objects or liquids enter the projector as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.
9. See projector enclosure for safety related markings.
10. The projector should not be adjusted or repaired by anyone except properly qualified service personnel.

Precautions



Please follow all warnings, precautions and maintenance as recommended in this user's guide.

- Warning- Do not look into the projector's lens when the lamp is on. The bright light may damage your eyes.
- Warning- To reduce the risk of fire or electric shock, do not expose this projector to rain or moisture.
- Warning- Please do not open or disassemble the projector as this may cause electric shock.
- Warning- When replacing the lamp, please allow unit to cool down, and follow all replacement instructions. See pages 48-49.
- Warning- This projector will detect the life of the lamp itself. Please be sure to change the lamp when it shows warning messages.
- Warning- Use the "Lamp Reset" function from the on-screen display "Options | Lamp Settings" menu after replacing the lamp module (refer to page 42).
- Warning- When switching the projector off, please ensure the cooling cycle has been completed before disconnecting the power. Allow 90 seconds for the projector to cool down.
- Warning- Do not use the lens cap when projector is in operation.
- Warning- When the lamp is approaching to the end of its life, the message "Lamp Warning: Lamp life exceeded." will show on the screen. Please contact your local reseller or service center to change the lamp as soon as possible.
- Warning- To reduce the risk of injury to the eyes, do not look directly into the laser beam on the remote control and do not point the laser beam into anyone's eyes. This remote control is equipped with a Class II laser that emits radiation.



- ❖ When the lamp reaches the end of its life, the projector will not turn back on until the lamp module has been replaced. To replace the lamp, follow the procedures listed under "Replacing the Lamp" section on pages 48-49.

Usage Notice

Do:

- ❖ Turn off the product before cleaning.
- ❖ Use a soft cloth moistened with a mild detergent to clean the display housing.
- ❖ Disconnect the power plug from the AC outlet if the product is not being used for a long period of time.

Don't:

- ❖ Do not block the ventilation slots and openings on the unit.
- ❖ Do not use abrasive cleaners, waxes or solvents to clean the unit.
- ❖ Do not use under the following conditions:
 - In extremely hot, cold or humid environments.
 - ▶ Ensure that the ambient room temperature is within 5-35°C.
 - ▶ Relative Humidity is 5-35°C, 80% (Max.), non-condensing.
 - In areas susceptible to excessive dust and dirt.
 - Near any appliance that generates a strong magnetic field.
 - In direct sunlight.

Eye Safety Warnings



- ■ Avoid staring directly into the projector's beam of light at all times.
- ■ Minimize standing facing into the beam. Keep your back to the beam as much as possible.
- ■ Using a stick is recommended to avoid the need for the presenter to enter the beam.
- ■ Ensure that projectors are located out of the line of sight from the screen to the audience; this ensures that, when presenters look at the audience, they do not also have to stare at the projector lamp. The best way to achieve this is by ceiling-mounting the projector rather than placing it on floor or table top.
- ■ When projector is used in a classroom, adequately supervise students when they are asked to point out something on the screen.
- ■ In order to minimize the lamp power needed, use room blinds to reduce ambient light levels.

Product Features

This product is a Short throw XGA single chip 0.55" DLP® projector. Outstanding features include:

- ◆ True XGA, 1024 x 768 addressable pixels
- ◆ Texas Instruments Single chip DLP® Technology
- ◆ Computer Compatibility:
Apple Macintosh, iMac, and VESA Standards:
UXGA, SXGA+, SXGA, WXGA, XGA, SVGA, VGA
- ◆ Video Compatibility:
 - NTSC, NTSC4.43
 - PAL/PAL-M/PAL-N/SECAM
 - SDTV compatible (480i/p, 576i/p)
 - HDTV compatible (720p, 1080i)
- ◆ Auto source detection with user definable settings
- ◆ Full function IR remote control and mouse control
- ◆ User friendly multilingual On Screen Menu
- ◆ Advanced digital keystone correction and high quality full screen image re-scaling
- ◆ User friendly control panel
- ◆ One built-in speaker with 8 watt amplifier
- ◆ Macintosh and PC compatible
- ◆ DVI-I support (HDCP compliant)
- ◆ Support Network function (LAN/RS232)

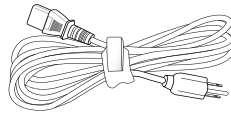
Introduction

Package Overview

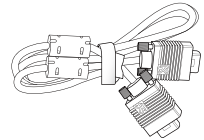
This projector comes with all the items shown below. Check to make sure your unit is complete. Contact your dealer immediately if anything is missing.



Projector with lens cap



Power Cord 1.8m



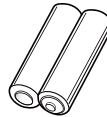
VGA Cable 1.8m



❖ Due to the difference in applications for each country, some regions may have different accessories.



IR Remote Control



2 x AAA Batteries

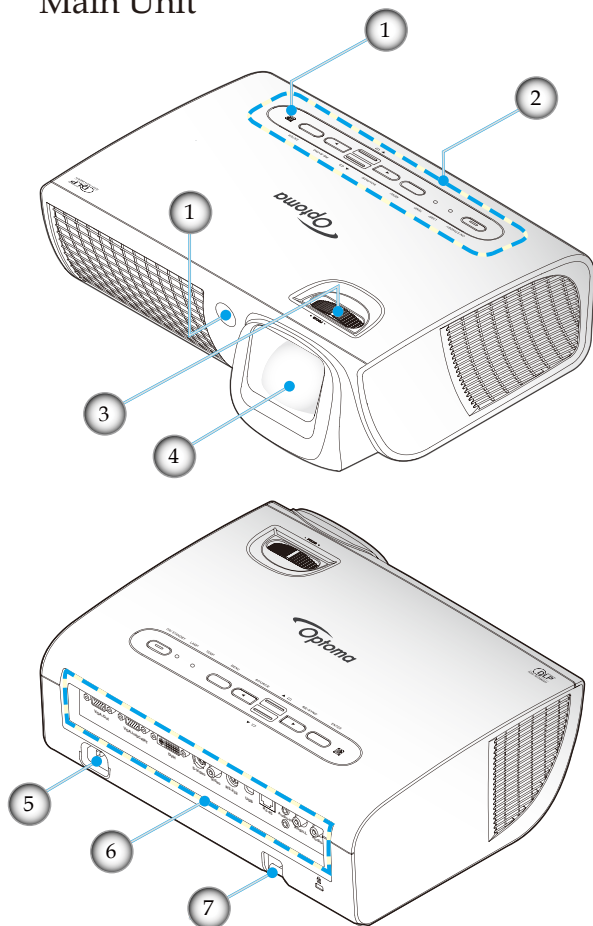
Documentation :

- ☒ User's Manual
- ☒ Warranty Card
- ☒ Quick Start Card
- ☒ WEEE Card

Introduction

Product Overview

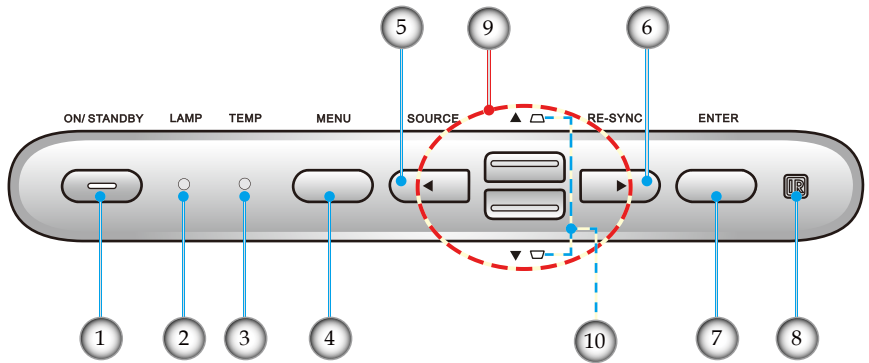
Main Unit



- | | |
|--------------------|---------------------|
| 1. IR Receivers | 5. Power Socket |
| 2. Control Panel | 6. Connection Ports |
| 3. Focus | 7. Security bar |
| 4. Projection Lens | |

Introduction

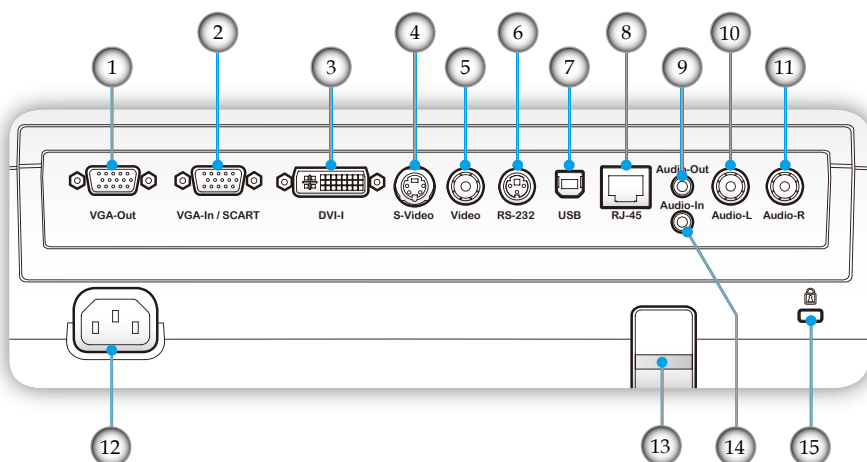
Control Panel



1. On/Standby and Power LED
2. Lamp LED
3. Temp LED
4. Menu
5. Source
6. Re-Sync
7. Enter
8. IR Receiver
9. Four Directional Select Keys
10. Keystone Correction

Introduction

Connection Ports

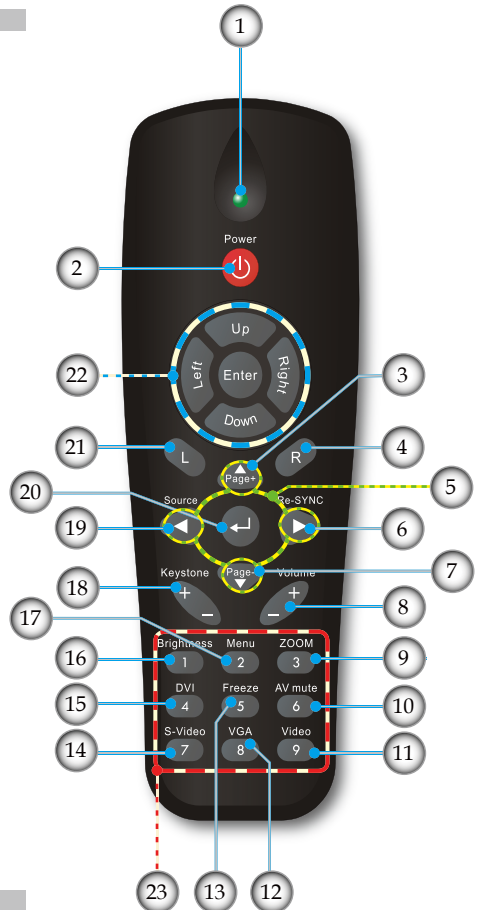


1. VGA-Out Connector (Monitor Loop-through Output)
2. VGA-In/SCART Connector
(PC Analog Signal/Component Video Input/HDTV/SCART)
3. DVI-I Connector
(PC Digital (HDCP)/PC Analog/Component Video Input)
4. S-Video Input Connector
5. Composite Video Input Connector
6. RS-232 Connector
7. USB Connector (Connect to PC for Remote Mouse function)
8. Networking Connector RJ45
9. Audio-Out Connector
10. Audio-L Connector
11. Audio-R Connector
12. Power Socket
13. Security Bar
14. Audio Input Connector
15. Kensington™ Lock Port

Introduction

Remote Control

1. Button LED
2. Power On/Off
3. Page Up
4. Mouse Right Click
5. Four Directional Select Keys
6. Re-Sync
7. Page Down
8. Volume +/-
9. Zoom
10. AV mute
11. Video Source
12. VGA Source
13. Freeze
14. S-Video Source
15. DVI Source
16. Brightness
17. Menu
18. Keystone +/-
19. Source
20. Enter
21. Mouse Left Click
22. PC/Mouse control
23. Number Buttons (for password input)



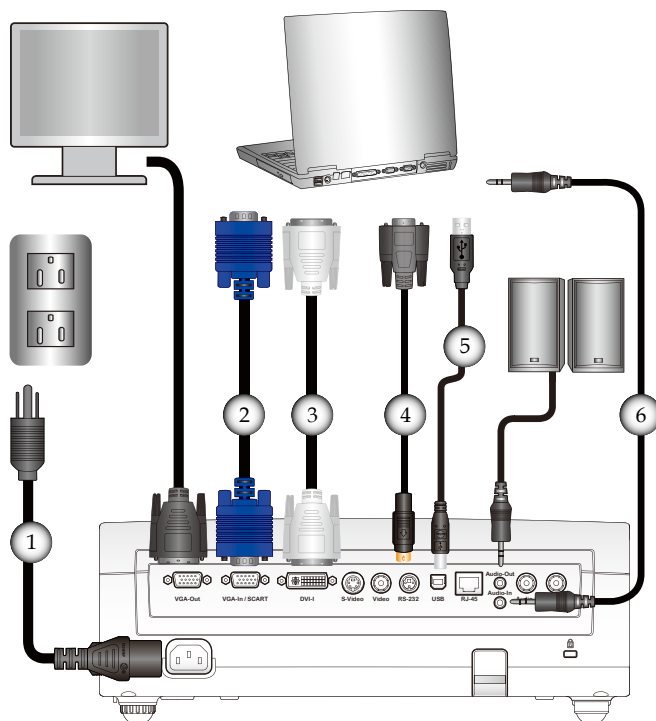
Installation

Connecting the Projector

Connect to Computer/Notebook

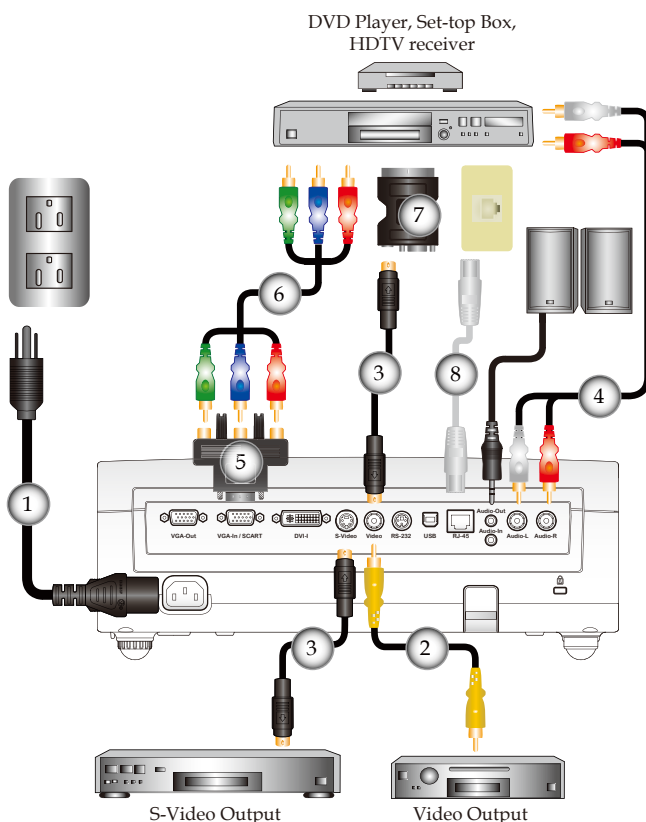


❖ Due to the difference in applications for each country, some regions may have different accessories.



- | | |
|--------|--|
| 1..... | Power Cord |
| 2..... | VGA Cable |
| 3..... | DVI Cable (Optional accessories) |
| 4..... | RS232 Cable (Optional accessories) |
| 5..... | USB Cable (Optional accessories) |
| 6..... | Audio Input Cable (Optional accessories) |

Connect to Video Sources



❖ Due to the difference in applications for each country, some regions may have different accessories.

- 1.....Power Cord
- 2.....Composite Video Cable (Optional accessories)
- 3.....S-Video Cable (Optional accessories)
- 4.....Audio Cable Jack/RCA (Optional accessories)
- 5.....15-Pin to 3 RCA Component/HDTV Adaptor (Optional accessories)
- 6.....3 RCA Component Cable (Optional accessories)
- 7.....SCART RGB/S-Video Adaptor (Optional accessories)
- 8.....Network Cable (Optional accessories)

Installation

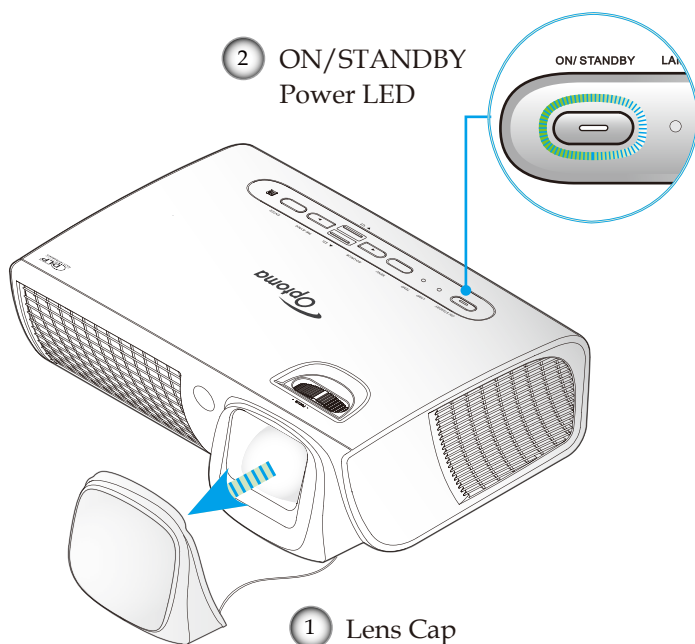
Powering On/Off the Projector

Powering On the Projector

1. Remove the lens cap. ❶
2. Ensure that the power cord and signal cable are securely connected. ❷ The Power LED will be Amber.
3. Turn on the lamp by pressing “ON/STANDBY” button either on the top of the projector or on the remote. The Power LED will flash green.

The startup screen will display in approximately 10 seconds. The first time you use the projector, you can select your preferred language from quick menu after the startup screen display.

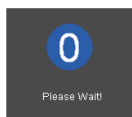
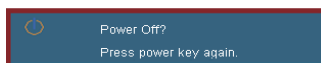
4. Turn on your source (computer, notebook, video player, etc.). The projector will detect your source automatically.
- ❖ If you connect multiple sources at the same time, press the “Source” button on the control panel or direct source key on the remote control to switch between inputs.



- ❖ Turn on the projector first and then select the signal sources.

Powering Off the Projector

1. Press the “ON/STANDBY” button to turn off the projector lamp, you will see a message displayed on the projector’s screen.



2. Press the “ON/STANDBY” button again to confirm, otherwise the message will disappear after 15 seconds. When you press the “ON/STANDBY” button a second time, the system will show the countdown timer on the screen.
3. The cooling fans continue to operate for about 10 seconds for cooling cycle. When the Power LED turns to Amber, the projector has entered standby mode.
If you wish to turn the projector back on, you must wait until the projector has completed the cooling cycle and has entered standby mode. Once in standby mode, simply press “ON/STANDBY” button to restart the projector.
4. Disconnect the power cord from the electrical outlet and the projector.
5. Do not turn on the projector immediately following a power off procedure.

Warning Indicator

- ❖ When the “LAMP” indicator lights red, the projector will automatically shut itself down. Please contact your local reseller or service center. See pages 55-56.
- ❖ When the “TEMP” indicator lights red, it indicates the projector has overheated. The projector will automatically shut itself down.
Under normal conditions, the projector can be switched on again after it has cooled down. If the problem persists, you should contact your local dealer or our service center. See pages 55-56.
- ❖ When the “TEMP” indicator flashes red, it indicates the fan has failed. Please contact your local dealer or our service center. See pages 55-56.

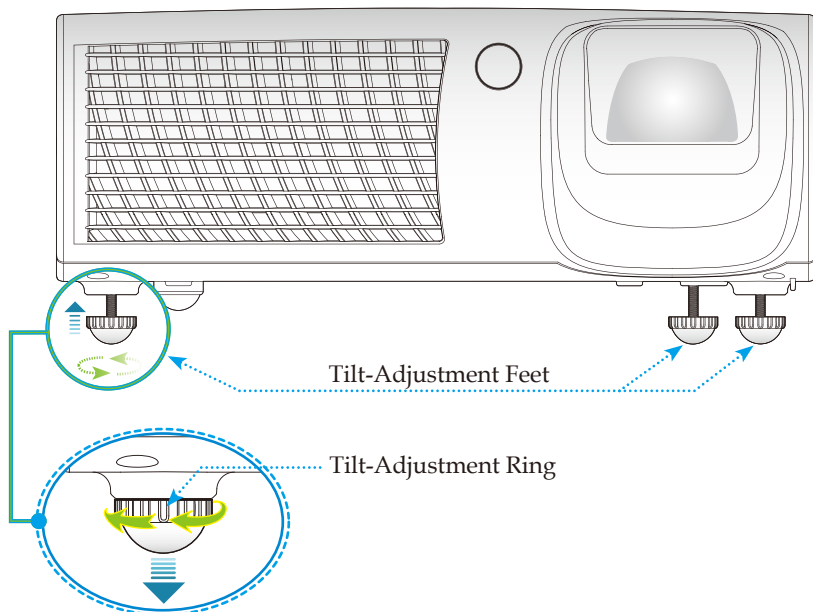
Adjusting the Projected Image

Adjusting the Projector's Height

The projector is equipped with elevator feet for adjusting the image height.

To raise the image:

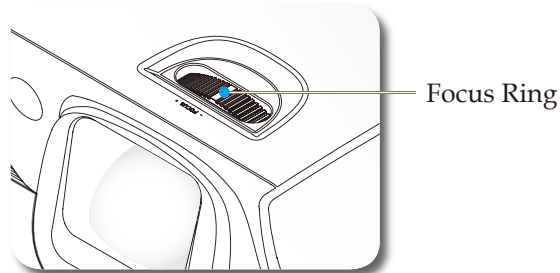
1. Locate the adjustable foot you wish to modify on the underside of the projector.
2. Rotate the four adjustable rings counter clockwise to raise the projector or clockwise to lower it. Repeat with the remaining feet as needed.
3. Reset the projector on its feet and re-adjust as needed.



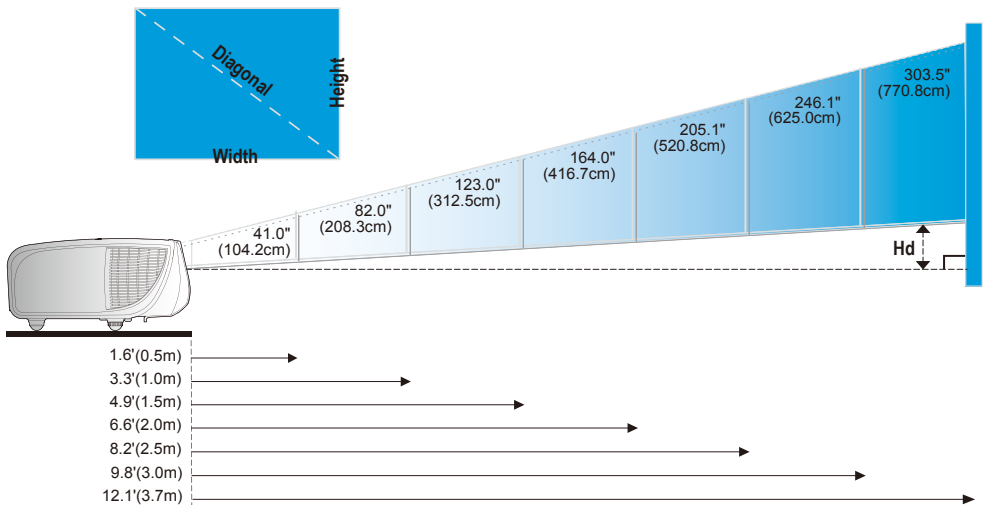
Installation

Adjusting the Projector's Focus

To focus the image, rotate the focus ring until the image is clear. The projector will focus at distances from 1.6 to 12.1 feet (0.5 to 3.7 meters).



Adjusting Projection Image Size

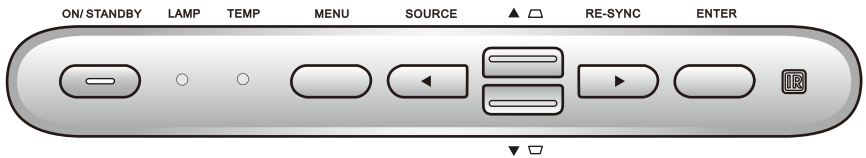


❖ This graph is for user's reference only.

User Controls

Control Panel & Remote Control

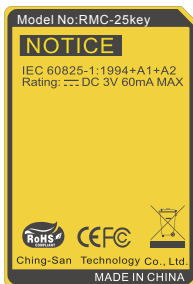
*There are two ways for you to control the functions:
Control Panel and Remote Control.*



Using the Control Panel

ON/STANDBY	Refer to the “Power On/Off the Projector” section on pages 14-15.
Power LED	Indicate the projector’s status.
Lamp LED	Indicate the projector’s lamp status.
Temp LED	Indicate the projector’s temperature status.
Menu	Press “Menu” to launch the on-screen display (OSD) menu. To exit OSD, Press “Menu” again.
Source	Press “Source” to select an input signal.
Four Directional Select Keys	Use  to select items or make adjustments to your selection.
Keystone	Use  to adjust image distortion caused by tilting the projector.
Re-Sync	Automatically synchronize the projector to the input source.
Enter	Confirm your item selection.

User Controls



Using the Remote Control

Power 

Refer to the “Power On/Off the Projector” section on pages 14-15.

PC/Mouse control

The PC/Mouse control can be used to control mouse movement. The mouse function is enabled using the USB cable to connect your computer and the projector.

L Button

Mouse left click.

R Button

Mouse right click.

Page +

Use this button to page up.

Page -

Use this button to page down.

Enter 

Confirm your item selection.

Source

Press “Source” to select an input signal.

Re-Sync

Automatically synchronizes the projector to the input source.

Four Directional Select Keys

Use  to select items or make adjustments to your selection.

Keystone +/-

Adjust image distortion caused by tilting the projector.

Volume +/-

Adjust to increase/decrease the volume.

Brightness

Adjust the brightness of the image.

Menu

Press “Menu” to launch the on-screen display (OSD) menu. To exit OSD, Press “Menu” again.

Zoom

Press “+/-” button to zoom in of an image.

User Controls

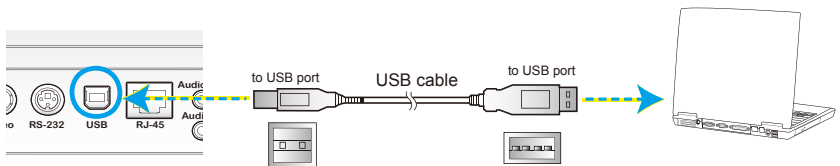


Using the Remote Control

DVI	Press "DVI" to choose DVI-I source.
VGA	Press "VGA" to choose source from VGA-In connector.
AV Mute	Momentarily turns off/on the audio and video.
S-Video	Press "S-Video" to choose S-Video source.
Freeze	Press "Freeze" to pause the screen image. Press this button again to unlock.
Video	Press "Video" to choose Composite video source.

Using the USB Remote Mouse Control

The remote control for this projector can be used as a remote mouse control with the USB cable.



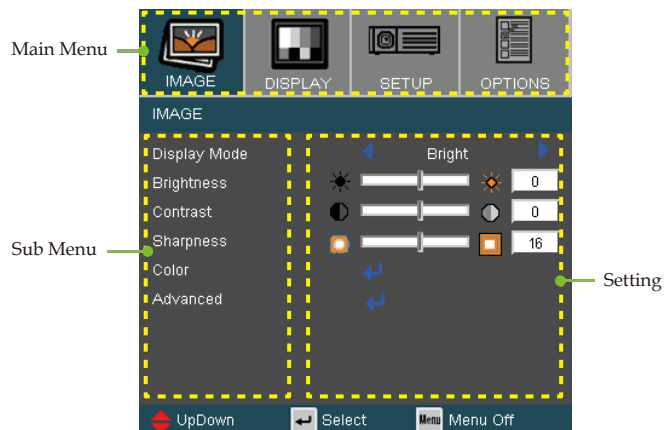
- When the projector is connected to PC via the USB cable, the remote will work as a mouse for control.

On-screen Display Menu

The Projector has multilingual On-screen Display menus that allow you to make image adjustments and change a variety of settings. The projector will automatically detect the source.

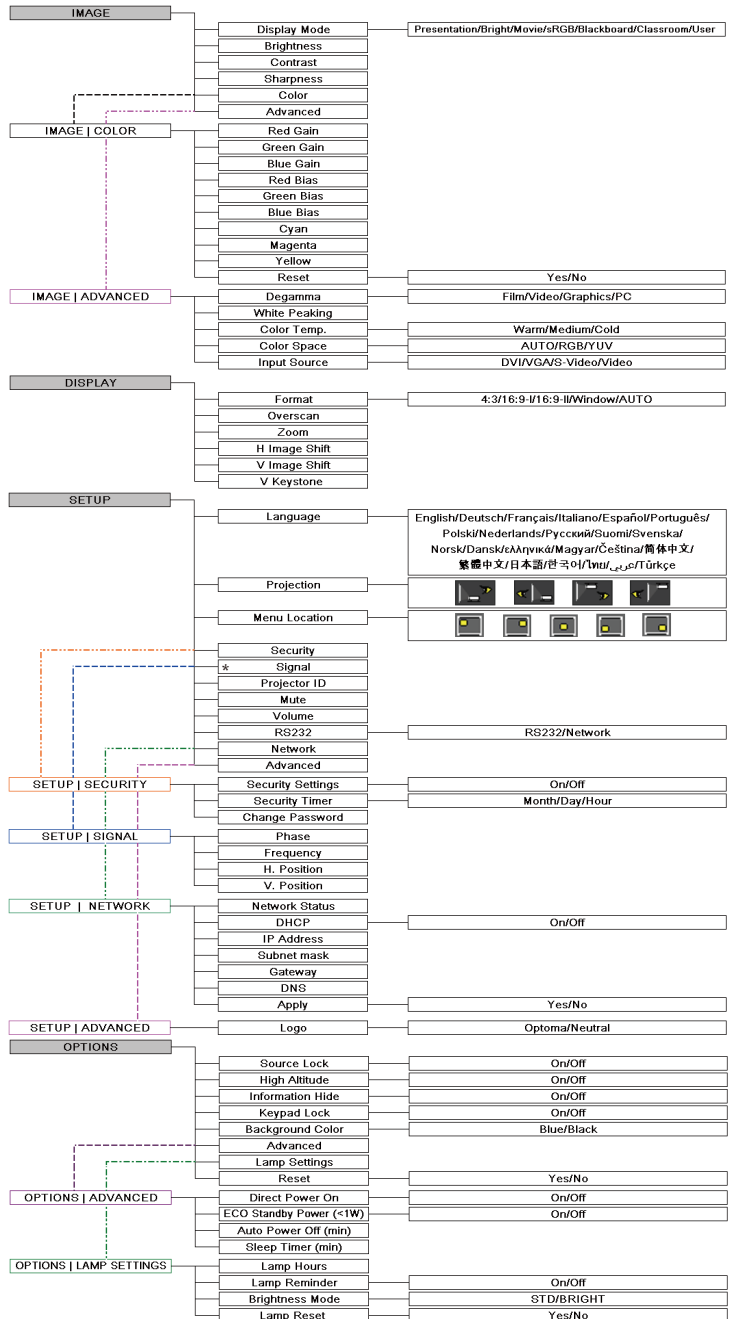
How to operate

1. To open the OSD menu, press “Menu” on the Remote Control or Projector Keypad.
2. When OSD is displayed, use ◀▶ keys to select any item in the main menu. While making a selection on a particular page, press ▼ or “Enter” key to enter sub menu.
3. Use ▲▼ keys to select the desired item and adjust the settings by ◀▶ key.
4. Select the next item to be adjusted in the sub menu and adjust as described above.
5. Press “Enter” to confirm, and the screen will return to the main menu.
6. To exit, press “Menu” again. The OSD menu will close and the projector will automatically save the new settings.



User Controls

Menu Tree

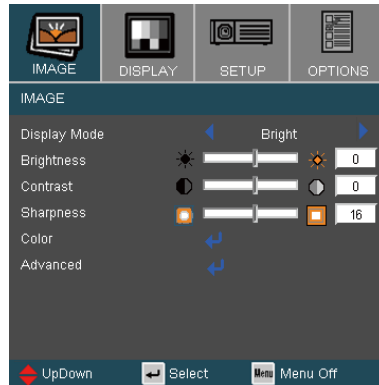


NOTE



(*) "Signal" menu is only supported in Analog VGA (RGB) signal.

Image



Display Mode

There are many factory presets optimized for various types of images.

- ▶ Presentation: Good color and brightness from PC input.
- ▶ Bright: Maximum brightness from PC input.
- ▶ Movie: For home theater.
- ▶ sRGB: Standardised accurate color.
- ▶ Blackboard: This mode should be selected to achieve optimum color settings when projecting onto a blackboard (green).
- ▶ Classroom: This mode is recommended for projecting in a classroom.
- ▶ User: User's own settings.

Brightness

Adjust the brightness of the image.

- ▶ Press the ◀ to darken image.
- ▶ Press the ▶ to lighten the image.

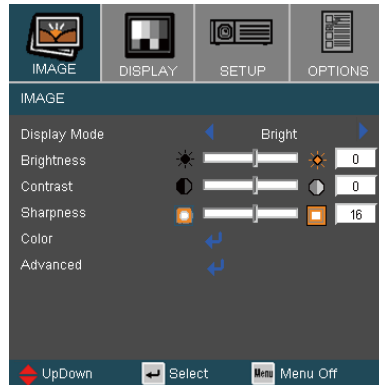
Contrast

The contrast controls the degree of difference between the lightest and darkest parts of the picture. Adjusting the contrast changes the amount of black and white in the image.

- ▶ Press the ◀ to decrease the contrast.
- ▶ Press the ▶ to increase the contrast.

User Controls

Image

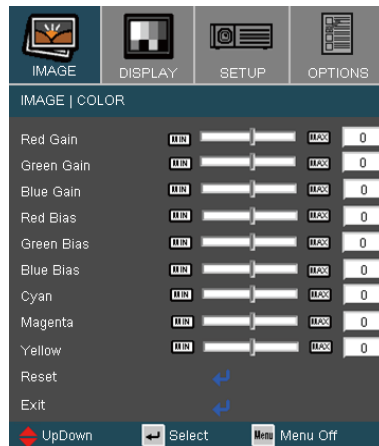


Sharpness

Adjust the sharpness of the image.

- ▶ Press the ◀ to decrease the sharpness.
- ▶ Press the ▶ to increase the sharpness.

Image | Color



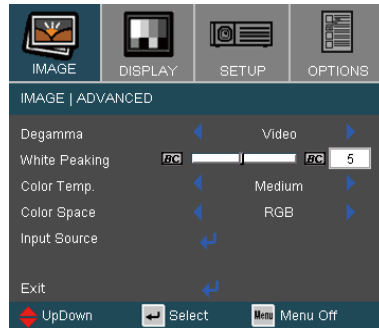
Color

Select the Red/Green/Blue Gain for brightness adjustments and Bias for contrast adjustments for the whole picture. Individual color adjustments for Cyan, Magenta, Yellow can also be adjusted.

Reset

Choose “Yes” to return the factory default settings for color adjustments.

Image | Advanced



Degamma

This allows you to choose a degamma table that has been fine-tuned to bring out the best image quality for the input.

- ▶ Film: for home theater.
- ▶ Video: for video or TV source.
- ▶ Graphics: for image source.
- ▶ PC: for PC or computer source.

White Peaking

This adjustable item utilizes a new color-processing algorithm and system level enhancements to enable higher brightness while providing true, more vibrant colors in picture. The range is from "0" to "10". If you prefer a stronger enhanced image, adjust toward the maximum setting. For a smoother, more natural image, adjust toward the minimum setting.

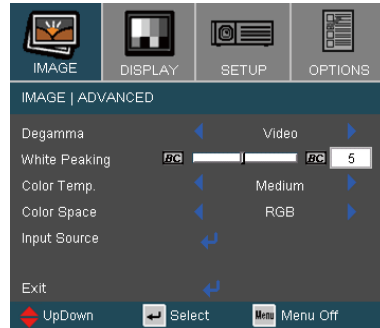
Color Temp.

Adjust the color temperature. With cold temperature, the screen looks colder; with warm temperature, the screen looks warmer.

Color Space

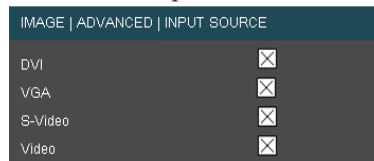
Select an appropriate color matrix type from AUTO, RGB or YUV.

Image | Advanced



Input Source

Enable input sources. Press “↩” into the next menu as below and then use ▲ or ▼ to select. Press “Enter” to finalize the selection. The projector will not search inputs that are de-selected.



Display



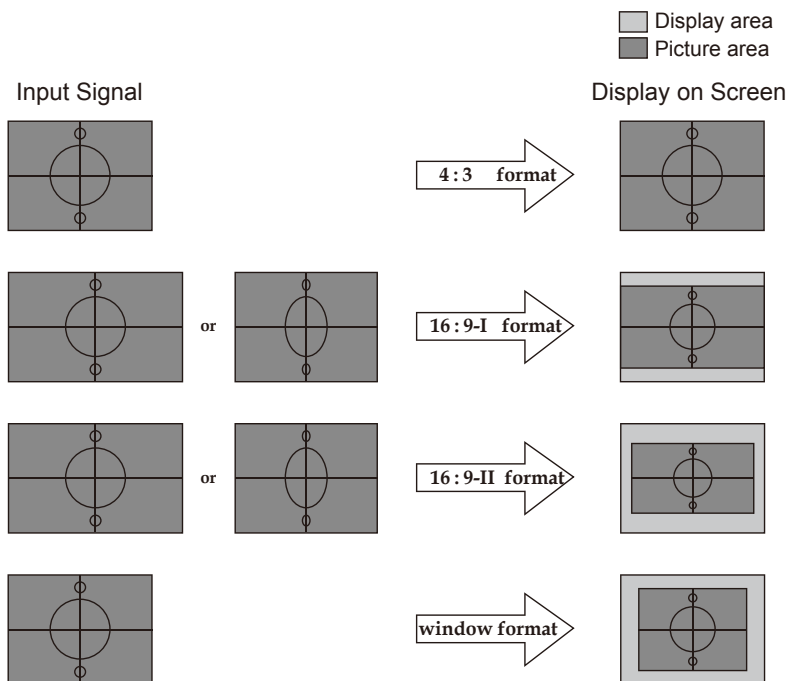
Format

Use this function to choose your desired aspect ratio.

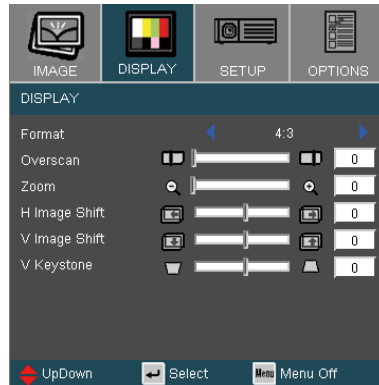
- ▶ 4:3: This format is for 4x3 input sources not enhanced for Wide screen TV.
- ▶ 16:9 I: This format is for 16x9 input sources, like HDTV and DVD enhanced for Wide screen TV. (Better format: 576i/p)
- ▶ 16:9 II: This format is for 16x9 input sources, like HDTV and DVD enhanced for Wide screen TV. (Better format: 480i/p)
- ▶ Window: When a 4:3 image is bigger than a 16:9 screen, select the “Window” mode to fit the image onto the screen without changing the projection distance.
- ▶ AUTO: Automatically selects the appropriate display format.

Source	480i/p	576i/p	720p	1080i	PC
4:3	Scale to 1024 x 768				
16:9 I	Scale to 1024 x 576				
16:9 II	Scale to 854 x 480				
Window	Scale to 768 x 576				

User Controls



Display



Overscan

Overscan function removes the noise in a video image. Overscan the image to remove video encoding noise on the edge of video source.

Zoom

- ▶ Press the ◀ to reduce the size of an image.
- ▶ Press the ▶ to magnify an image on the projection screen.

H Image Shift

Shift the projected image position horizontally.

V Image Shift

Shift the projected image position vertically.

V Keystone

Press the ◀ or ▶ to adjust image distortion vertically and makes a squarer image.

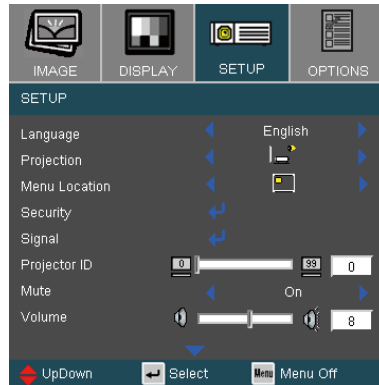
Setup | Language



Language

Choose the multilingual OSD menu. Press ◀ or ▶ into the sub menu and then use the ▲ or ▼ key to select your preferred language. Press “Enter” to finalize the selection.

Setup



Projection

- ▶  Front-Desktop

The factory default setting.

- ▶  Rear-Desktop

When you select this function, the projector reverses the image so you can project behind a translucent screen.

- ▶  Front-Ceiling

When you select this function, the projector turns the image upside down for ceiling-mounted projection.

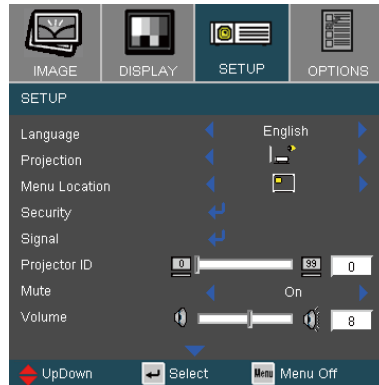
- ▶  Rear-Ceiling

When you select this function, the projector reverses and turns the image upside down at same time. You can project from behind a translucent screen with ceiling mounted projection.

Menu Location

Choose the menu location on the display screen.

Setup



Projector ID

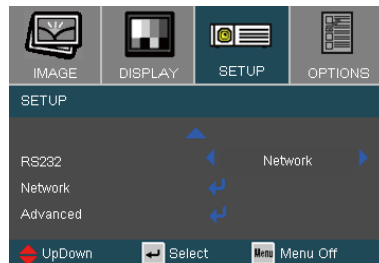
Allow the RS232 control of an individual projector.
Range 00-99.

Mute

- ▶ Choose the "On" to turn mute on.
- ▶ Choose the "Off" to turn mute off.

Volume

- ▶ Press the ◀ to decrease the volume.
- ▶ Press the ▶ to increase the volume.



RS232

- ▶ RS232: Allow RS232 control of an individual projector.
(Default setting)
- ▶ Network: Allow projector control via web browser
(Internet Explorer) using the network.

Setup | Security

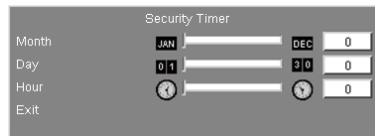


Security Settings

- ▶ On: Choose “On” to use security verification when the turning on the projector.
- ▶ Off: Choose “Off” to be able to switch on the projector without password verification.

Security Timer

Select the time (Month/Day/Hour) function to set the number of hours the projector can be used. Once this time has elapsed you will be requested to enter your password again.



Setup | Security



■ First Time:

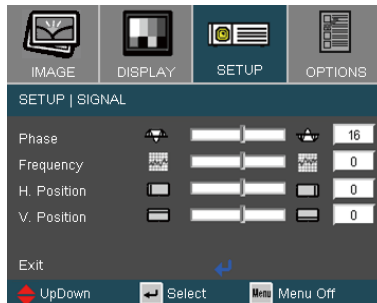
1. The Password is 4 digits, DEFAULT VALUE is "1234". (first time)
2. Use number buttons on the remote to select your password, and then press "Enter" key to confirm your selection.



Change Password

1. Press "Enter" to input old password.
2. Use number button to enter current password, and then press "Enter" key again to reveal next OSD menu.
3. Scroll down to highlight Password, and then press "Enter" to activate.
4. Enter new password (4 digits in length) using the number buttons on the remote, then press "Enter" to confirm.
5. Enter new password again and press "Enter" to confirm.

Setup | Signal



❖ “Signal” menu is only supported in Analog VGA (RGB) signal.

Phase

Synchronize the signal timing of the display with the graphic card. If you experience an unstable or flickering image, use this function to correct it.

Frequency

Change the display data frequency to match the frequency of your computer’s graphic card. If you experience a vertical flickering bar, use this function to make an adjustment.

H. Position

- ▶ Press the ◀ to move the image left.
- ▶ Press the ▶ to move the image right.

V. Position

- ▶ Press the ◀ to move the image down.
- ▶ Press the ▶ to move the image up.

Setup | Advanced

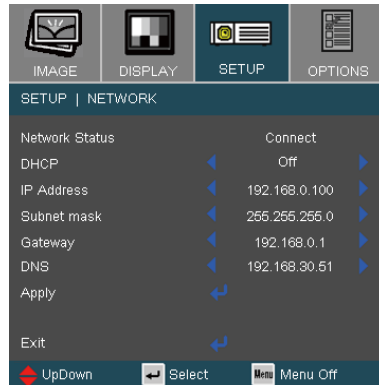


Logo

Use this function to select your desired startup screen. If you change the setting from one to another, when you exit the OSD menu, the new setting will take effect on next open.

- ▶ Optoma: The default startup screen of Optoma projector.
- ▶ Neutral: No logo is displayed.

Setup | Network



Network State

To display network information.

DHCP

Use this function to select your desired startup screen. If you change the setting from one to another, when you exit the OSD menu, the new setting will take effect on next open.

- ▶ On: Assign an IP address to the projector from the DHCP server automatically.
- ▶ Off: Assign an IP address manually.

IP Address

Select an IP address.

Subnet Mask

Select subnet mask number.

Gateway

Select the default gateway of the network connected to the projector.

DNS

Select DNS number.

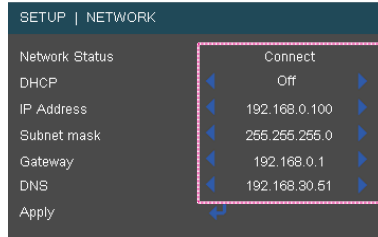
Apply

Choose "Yes" to apply the selection.

User Controls

How to use web browser to control your projector

1. Fill in a new IP, a subnet mask, a gateway and a DNS in the dialogue box.



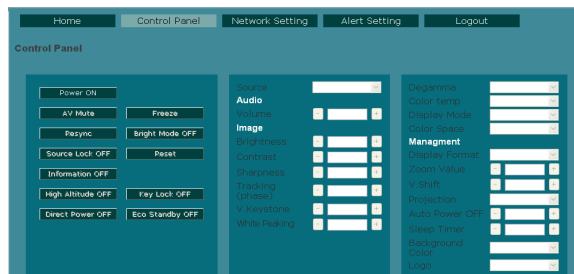
2. Then choose apply and press “↵” button to effectuate the configuration process.
3. Open your web browser and type in from the OSD LAN screen then the web page will display as below:



❖ When you used the projector IP address, you will can not link to your service server.



4. Open “Control Panel” to control your projector.



For example: Use Microsoft Internet Explorer (IE) web browser to control the projector , the IP address is <http://192.168.0.100>.

Step 1: Find an IP Address (192.168.0.100) from LAN function of projector.



Step 2: Select apply and press “Enter” button to submit function or press “menu” key to exit.

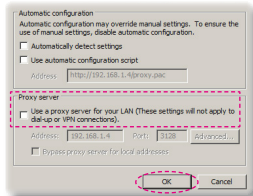
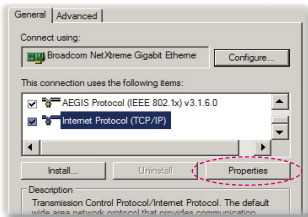
User Controls

Step 3: To open Network Connections, click **Start**, click **Control Panel**, click **Network and Internet Connections**, and then click **Network Connections**. Click the connection you want to configure, and then, under **Network Tasks** , click **Change settings of this connection**.

Step 4: On the **General** tab, under **This connection uses the following items**, click

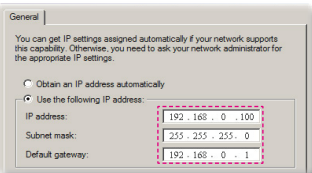
Internet Protocol (TCP/IP), and then click "Properties."

Use a proxy server for your LAN check box., then click "OK" button twice.

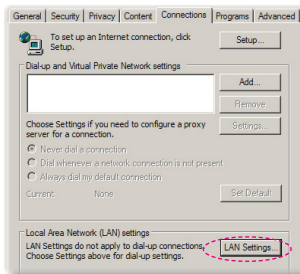


Step 5: Click **Use the following IP address**, and type in as below:

- 1) IP address: 192.168.0.100
- 2) Subnet mask: 255.255.255.0
- 3) Default gateway: 192.168.0.1



Step 6: To open Internet Options, click **IE** web browser, click **Internet Options**, click the **Connections** tab and click "LAN Settings..."

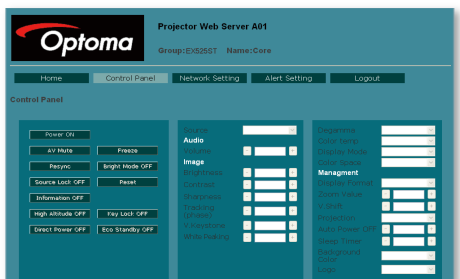


Step 7: The **Local Area Network (LAN) Setting** dialog box appears, In the **Proxy Server** area, cancel the

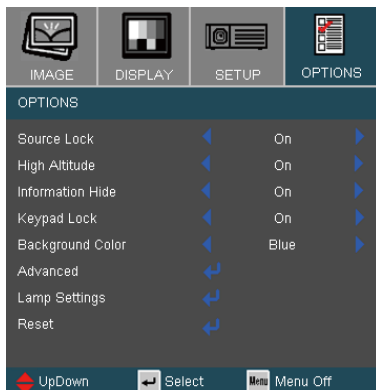
Step 8: Open your IE and type in the IP address of 192.168.0.100 in the URL then press "Enter" key. The web page will display as below:



Step 9: Open "Control Panel" to control your projector.



Options



Source Lock

- ▶ On: The projector will search specified connection port.
- ▶ Off: The projector will search for other signals if the current input signal is lost.

High Altitude

Choose "On" to turn on High Altitude mode. Operates the fans at full speed continuously to allow for proper high altitude cooling of the projector.

Information Hide

- ▶ On: Choose "On" to hide the searching message.
- ▶ Off: Choose "Off" to show the searching message.

Keypad Lock

When the keypad lock function is on, the control panel will be locked, but the projector can still be operated by the remote control. If canceling this function, use the remote control or press the "Enter" key on the control panel for 10 seconds to turn it off.

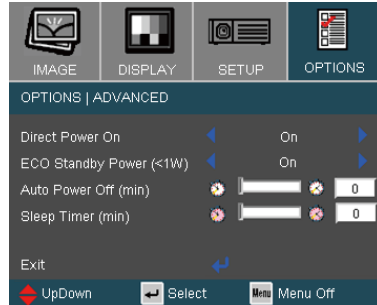
Background Color

Use this feature to display a "Blue" or "Black", screen when no signal is available.

Reset

Choose "Yes" to return the display parameters on all menus to the factory default settings.

Options | Advanced



Direct Power On

Choose "On" to turn on Direct Power On mode. The projector will automatically power on when AC power is supplied, without pressing the "ON/STANDBY" key on the projector control panel or "Power" key on the remote control.



❖ When Economic Standby (<1W), the VGA out is disabled during standby.

Eco. Standby power (<1W)

- ▶ On: Choose "On" to save power dissipation further(<1W).
- ▶ Off: Choose "Off" to return to normal standby mode.(*)

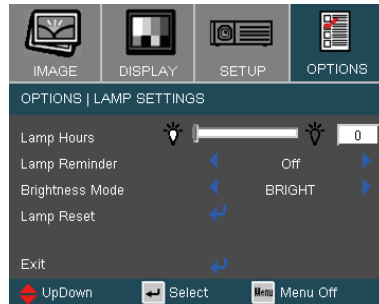
Auto Power Off (min)

Sets the countdown timer interval. The countdown timer will start, when there is no signal being sent to the projector. Then projector will automatically power off when the countdown has finished (in minutes).

Sleep Timer (min)

Set the countdown timer interval. The timer will begin, with or without a signal input. Then the projector will automatically power off then the sleep timer countdown has finished. (in minutes)

Options | Lamp Settings



Lamp Hours

Display the projection time.

Lamp Reminder

Choose this function to show or to hide the warning message when the changing lamp message is displayed. The message will appear 30 hours before suggested replacement of lamp.

Brightness Mode

- ▶ STD: Choose "STD" to dim the projector lamp which will lower power consumption and extend the lamp life by up to 130%.
- ▶ BRIGHT: Choose "BRIGHT" to increase the brightness.

Lamp Reset

Choose "Yes" to reset the lamp life hour after replacing the lamp.

Troubleshooting

*If you experience a problem with your projector, please refer to the following information. If a problem persists, please contact your local reseller or service center.
(See pages 55-56 for details)*

Image Problems

[?] No image appears on-screen

- ▶ Ensure all the cables and power connections are correctly and securely connected as described in the “Installation” section.
- ▶ Ensure all the pins of connectors are not bent or broken.
- ▶ Check if the projection lamp has been securely installed. Please refer to the “Replacing the lamp” section.
- ▶ Make sure you have removed the lens cap and the projector is switched on.
- ▶ Ensure that the “AV mute” feature is not turned on.

[?] Partial, scrolling or incorrectly displayed image

- ▶ Press “Re-Sync” on the remote control or control panel.
- ▶ If you are using a PC:

For Windows 95, 98, 2000, XP:

1. Open the “My Computer” icon, the “Control Panel” folder, and then double click on the “Display” icon.
2. Select the “Settings” tab.
3. Verify that your display resolution setting is lower than or equal to UXGA (1600 x 1200). (*)
4. Click on the “Advanced Properties” button.

If the projector is still not projecting the whole image, you will also need to change the monitor display you are using. Refer to the following steps.

5. Verify the resolution setting is lower than or equal to UXGA (1600 x 1200).



❖ (*) The resolution XGA (1024 x 768) is recommended for computer signal.

Appendices



- ❖ (*) The resolution XGA (1024 x 768) is recommended for computer signal.

6. Select the “Change” button under the “Monitor” tab.
 7. Click on “Show all devices”. Next, select “Standard monitor types” under the SP box; choose the resolution mode you need under the “Models” box.
 8. Verify that the resolution setting of the monitor display is lower than or equal to UXGA (1600 x 1200). (*)
- If you are using a Notebook:
1. First, follow the steps above to adjust resolution of the computer.
 2. Press the appropriate keys listed below for your notebook manufacturer to send signal out from notebook to projector.

Acer ⇒	[Fn]+[F5]	IBM/Lenovo ⇒	[Fn]+[F7]
Asus ⇒	[Fn]+[F8]	HP/Compaq ⇒	[Fn]+[F4]
Dell ⇒	[Fn]+[F8]	NEC ⇒	[Fn]+[F3]
Gateway ⇒	[Fn]+[F4]	Toshiba ⇒	[Fn]+[F5]

Mac Apple:
System Preference ⇒ Display ⇒ Arrangement ⇒ Mirror display

- If you experience difficulty changing resolutions or your monitor freezes, restart all equipment including the projector.

[?] The screen of the Notebook or PowerBook computer is not displaying your presentation

- If you are using a Notebook PC

Some Notebook PCs may deactivate their own screens when a second display device is in use. Each has a different way to be reactivated. Refer to your computer’s manual for detailed information.

[?] Image is unstable or flickering

- Use “Phase” to correct it. See page 35 for more information.
- Change the monitor color setting on your computer.

[?] Image has vertical flickering bar

- ▶ Use “Frequency” to make an adjustment. See page 35 for more information.
- ▶ Check and reconfigure the display mode of your graphic card to make it compatible with the projector.

[?] Image is out of focus

- ▶ Make sure the lens cap is removed.
- ▶ Adjusts the Focus Ring on the projector lens.
- ▶ Make sure the projection screen is between the required distance 1.6 to 12.1 feet (0.5 to 3.7 meters) from the projector. See page 17.

[?] The image is stretched when displaying 16:9 DVD title

When you play anamorphic DVD or 16:9 DVD, the projector will show the best image in 16:9 format on projector side.

If you play 4:3 format DVD title, please change the format as 4:3 in projector OSD.

If the image is still stretched, you will also need to adjust the aspect ratio by referring to the following:

- ▶ Please setup the display format as 16:9 (wide) aspect ratio type on your DVD player.

[?] Image is too small or too large

- ▶ Move the projector closer to or further from the screen.
- ▶ Press [Menu] button on the remote control or projector panel, go to “Display → Format” and try the different settings.

[?] Image has slanted sides

- ▶ If possible, reposition the projector so that it is centered on the screen and below the bottom of the screen.
- ▶ Press [Keystone +/-] button on the remote control or press   on the projector panel, until the sides are vertical .

[?] Image is reversed

- ▶ Select “Setup → Projection” from the OSD and adjust the projection direction.



❖ Use of Keystone is not recommended.

Intermission Problems

- [?]** The projector stops responding to all controls
- ▶ If possible, turn off the projector, then unplug the power cord and wait at least 60 seconds before reconnecting power.
- [?]** Lamp burns out or makes a popping sound
- ▶ When the lamp reaches its end of life, it will burn out and may make a loud popping sound. If this happens, the projector will not turn on until the lamp module has been replaced. To replace the lamp, follow the procedures in the “Replacing the Lamp” section on pages 48-49.

Projector Status Indication

[?] LED lighting message

Message	Power LED	Temp-LED	Lamp-LED
	(Green/ Amber)	(Red)	(Red)
Standby State (Input power cord)	Flashing Amber	○	○
Power on (Warming)	Flashing Green	○	○
Lamp lighting	Green	○	○
Error (Over Temp.)	○	☀	○
Error (Fan fail)	○	Flashing (0.25s on, 0.25s off)	○
Error (Lamp fail)	○	○	☀

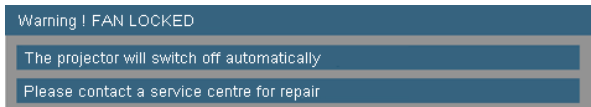


Steady light ⇔ ☀

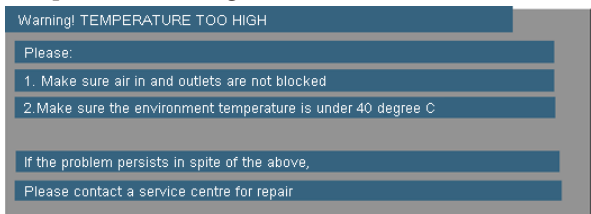
No light ⇔ ○

Message Reminders

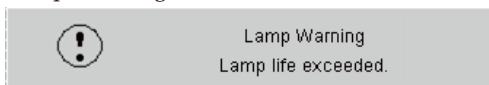
► Fan failed:



► Temperature warning:



► Lamp Warning:



► Source Message:



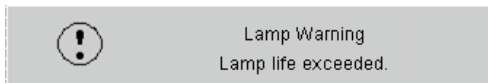
Remote Control Problems

If the remote control does not work

- Check the operating angle for the remote control is approximately $\pm 22.5^\circ$.
- Make sure there are no obstructions between the remote control and the projector. Move to within 6 m (20 ft) of the projector.
- Make sure the batteries are inserted correctly.
- Replace weak batteries in the remote control.

Replacing the lamp

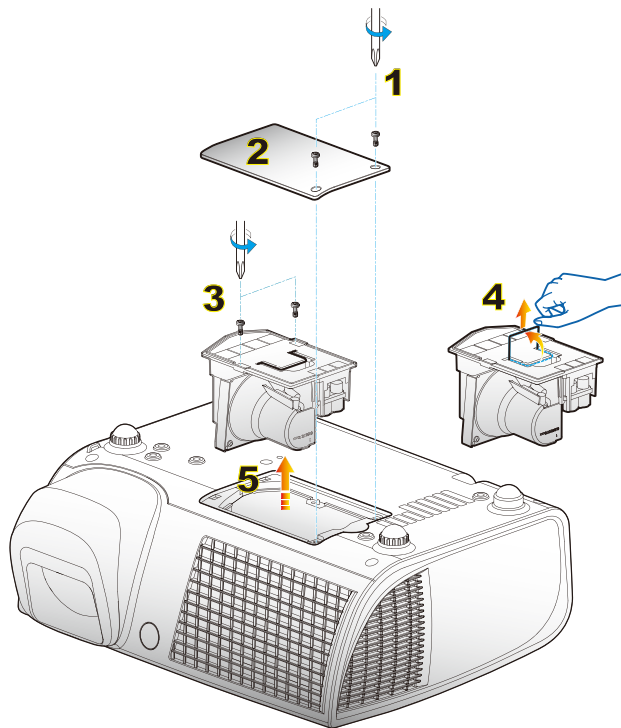
The projector automatically detects the lamp life. When the lamp life is nearing the end of use, you will receive a warning message.



When you see this message, please contact your local reseller or service center to change the lamp as soon as possible. Make sure the projector has been cooled down for at least 30 minutes before changing the lamp.



-  **Warning:** If ceiling mounted, please use caution when opening the lamp access panel. It is recommended to wear safety glasses if changing the bulb when ceiling mounted. "Caution must be used to prevent any loose parts from falling out of projector."
-  **Warning:** Lamp compartment may be hot! Allow it to cool down before changing the lamp!
-  **Warning:** To reduce the risk of personal injury, do not drop the lamp module or touch the lamp bulb. The bulb may shatter and cause injury if it is dropped.



○ Lamp Replacement Procedure: ○

1. Switch off the power to the projector by pressing the "Power" button.
2. Allow the projector to cool down for at least 30 minutes.
3. Disconnect the power cord.
4. Use a screwdriver to unscrew the 2 screws from the cover. ❶
5. Push up and remove the cover. ❷
6. Use a screwdriver to unscrew the 2 screws from the lamp module. ❸
7. Pull up the lamp handle carefully. ❹
8. Remove the lamp module. ❺

To replace the lamp module, follow previous steps in reverse order.

9. Turn on the projector and use "Lamp Reset" after the lamp module is replaced.

Lamp Reset: (i) Press "Menu" → (ii) Select "Options" → (iii) Select "Lamp settings" → (iv) Select "Lamp reset" → (v) Select "Yes".

Compatibility Modes

► Computer Compatibility

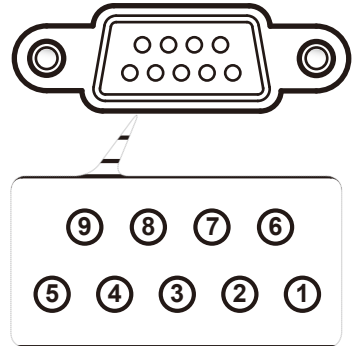
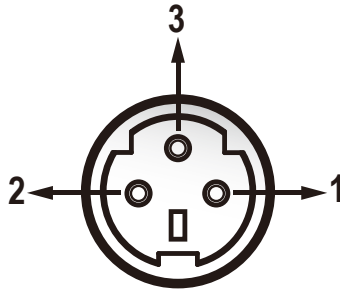
Mode	Resolution	V-Sync (Hz)	
		Analog	Digital
VGA	640 x 350	70, 85	70, 85
VGA	640 x 400	85	85
VGA	640 x 480	60, 72, 75, 85	60, 72, 75, 85
VGA	720 x 400	70, 85	70, 85
SVGA	800 x 600	56, 60, 72, 75, 85	56, 60, 72, 75, 85
XGA	1024 x 768	60, 70, 75, 85	60, 70, 75, 85
SXGA	1152 x 864	70, 75, 85	70, 75, 85
SXGA	1280 x 1024	60, 75, 85	60, 75, 85
SXGA+	1400 x 1050	60	60
UXGA	1600 x 1200	60	60
MAC LC 13"	640 x 480	66.66	***
MAC II 13"	640 x 480	66.68	***
MAC 16"	832 x 624	74.55	***
MAC 19"	1024 x 768	75	***
MAC	1152 x 870	75.06	***
MAC G4	640 x 480	60	***
i MAC DV	1024 x 768	75	***
i MAC DV	1152 x 870	75	***
i MAC DV	1280 x 960	60	***
WXGA	1280 x 720	60	60, 75, 85
WXGA	1280 x 768	60	60, 75, 85
WXGA	1280 x 800	60	60, 75, 85

► Video Compatibility

NTSC	M (3.58MHz), 4.43 MHz,
PAL	B, D, G, H, I, M, N, 4.43 MHz,
SECAM	B, D, G, K, K1, L
Component	480i/p, 576i/p, 720p@50/60Hz, 1080i@50/60Hz

RS232 Commands

RS232 Pin Assignments



Pin no.	Name	I/O (From Projector Side)
1	TXD	OUT
2	RXD	IN
3	GND	—

Pin no.	Spec.
1	N/A
2	RXD
3	TXD
4	N/A
5	GND
6	N/A
7	N/A
8	N/A
9	N/A

Appendices

RS232 Protocol Function List

RS232 Commands

Baud Rate : 9600

Data Bits: 8

Parity: None

Stop Bits: 1

Flow Control : None

UART16550 FIFO: Disable

Projector Return (Pass): P

Projector Return (Fail): F

XX=01-99, projector's ID,

XX=00 is for all projectors



1. There is a <CR> after all ASCII commands.

2. 0D is the HEX code for <CR> in ASCII code.

SEND to projector			
232 ASCII Code	HEX Code	Function	Description
~XX00 1	7E 30 30 30 30 20 31 0D	Power ON	
~XX00 2	7E 30 30 30 30 20 32 0D	Power OFF	
~XX01 1	7E 30 30 30 31 20 31 0D	Resync	
~XX02 1	7E 30 30 30 32 20 31 0D	AV Mute	On
~XX02 2	7E 30 30 30 32 20 32 0D		Off
~XX03 1	7E 30 30 30 33 20 31 0D	Mute	On
~XX03 2	7E 30 30 30 33 20 32 0D		Off
~XX04 1	7E 30 30 30 34 20 31 0D	Freeze	
~XX04 2	7E 30 30 30 34 20 32 0D	Unfreeze	
~XX05 1	7E 30 30 30 35 20 31 0D	Zoom Plus	
~XX06 1	7E 30 30 30 36 20 31 0D	Zoom Minus	
~XX07 1	7E 30 30 30 37 20 31 0D	Up (Pan under zoom)	
~XX08 1	7E 30 30 30 38 20 31 0D	Down (Pan under zoom)	
~XX09 1	7E 30 30 30 39 20 31 0D	Left (Pan under zoom)	
~XX10 1	7E 30 30 31 30 20 31 0D	Right (Pan under zoom)	
~XX12 2	7E 30 30 31 32 20 32 0D	Direct Source Selection	DVI-D
~XX12 3	7E 30 30 31 32 20 33 0D		DVI-A
~XX12 5	7E 30 30 31 32 20 35 0D		VGA 1
~XX12 7	7E 30 30 31 32 20 37 0D		VGA 1 SCART
~XX12 8	7E 30 30 31 32 20 38 0D		VGA 1 Component
~XX12 9	7E 30 30 31 32 20 39 0D		S-Video
~XX12 10	7E 30 30 31 32 20 31 30 0D		Video
~XX20 1	7E 30 30 32 30 20 31 0D	Display Mode	Presentation
~XX20 2	7E 30 30 32 30 20 32 0D		Bright
~XX20 3	7E 30 30 32 30 20 33 0D		Movie
~XX20 4	7E 30 30 32 30 20 34 0D		sRGB
~XX20 5	7E 30 30 32 30 20 35 0D		User
~XX20 7	7E 30 30 32 30 20 37 0D		Blackboard
~XX20 8	7E 30 30 32 30 20 37 0D		Classroom
~XX21 n	7E 30 30 32 31 20 a 0D	Brightness	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
~XX22 n	7E 30 30 32 32 20 a 0D	Contrast	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
~XX23 n	7E 30 30 32 33 20 a 0D	Sharpness	n = 0 (a= 30) ~ 31 (a=33 31)
~XX24 n	7E 30 30 32 34 20 a 0D	Color	Red Gain
~XX25 n	7E 30 30 32 35 20 a 0D		Green Gain
~XX26 n	7E 30 30 32 36 20 a 0D		Blue Gain
~XX27 n	7E 30 30 32 37 20 a 0D		Red Bias
~XX28 n	7E 30 30 32 38 20 a 0D		Green Bias
~XX29 n	7E 30 30 32 39 20 a 0D		Blue Bias
~XX30 n	7E 30 30 33 30 20 a 0D		Cyan
~XX31 n	7E 30 30 33 31 20 a 0D		Yellow
~XX32 n	7E 30 30 33 32 20 a 0D		Magenta
~XX33 1	7E 30 30 33 33 20 31 0D		Reset
~XX34 n	7E 30 30 33 34 20 a 0D	White Peaking	n = 0 (a=30) ~ 10 (a=31 30)
~XX35 1	7E 30 30 33 35 20 31 0D	Degamma	
~XX35 2	7E 30 30 33 35 20 32 0D		Film
~XX35 3	7E 30 30 33 35 20 33 0D		Video
~XX35 4	7E 30 30 33 35 20 34 0D		Graphics
~XX36 1	7E 30 30 33 36 20 31 0D		PC
~XX36 2	7E 30 30 33 36 20 32 0D	Color Temp.	Warm
~XX36 3	7E 30 30 33 36 20 33 0D		Medium
~XX37 1	7E 30 30 33 37 20 31 0D	Color Space	Cold
~XX37 2	7E 30 30 33 37 20 32 0D		Auto
~XX37 3	7E 30 30 33 37 20 33 0D		RGB
~XX37 4	7E 30 30 33 37 20 34 0D		YUV
~XX39 2	7E 30 30 33 39 20 32 0D	Input Source	DVI-D
~XX39 3	7E 30 30 33 39 20 33 0D		DVI-A
~XX39 5	7E 30 30 33 39 20 35 0D		VGA 1
~XX39 9	7E 30 30 33 39 20 39 0D		S-Video
~XX39 10	7E 30 30 33 39 20 31 30 0D		Video
~XX60 1	7E 30 30 36 30 20 31 0D	Format	4:3
~XX60 2	7E 30 30 36 30 20 32 0D		16:9-1
~XX60 3	7E 30 30 36 30 20 33 0D		16:9-II
~XX60 4	7E 30 30 36 30 20 34 0D		Window
~XX60 7	7E 30 30 36 30 20 35 0D		AUTO
~XX61 n	7E 30 30 36 31 20 a 0D	Overscan	n = 0 (a=30) ~ 10 (a=31 30)
~XX62 n	7E 30 30 36 33 20 a 0D	H Image Shift	n = 0 (a=30) ~ 100 (a=31 30 30)
~XX63 n	7E 30 30 36 34 20 a 0D	V Image Shift	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
~XX64 n	7E 30 30 36 34 20 a 0D	V Keystone	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
~XX66 n	7E 30 30 36 36 20 a 0D		n = -40 (a=2D 34 30) ~ 40 (a=34 30)
~XX70 1	7E 30 30 37 30 20 31 0D	Language	English
~XX70 2	7E 30 30 37 30 20 32 0D		German
~XX70 3	7E 30 30 37 30 20 33 0D		French
~XX70 4	7E 30 30 37 30 20 34 0D		Italian
~XX70 5	7E 30 30 37 30 20 35 0D		Spanish
~XX70 6	7E 30 30 37 30 20 36 0D		Portuguese
~XX70 7	7E 30 30 37 30 20 37 0D		Polish
~XX70 8	7E 30 30 37 30 20 38 0D		Dutch
~XX70 9	7E 30 30 37 30 20 39 0D		Swedish
~XX70 10	7E 30 30 37 30 20 31 30 0D		Norwegian/Danish
~XX70 11	7E 30 30 37 30 20 31 31 0D		Finnish
~XX70 12	7E 30 30 37 30 20 31 32 0D		Greek
~XX70 13	7E 30 30 37 30 20 31 33 0D		Traditional Chinese
~XX70 14	7E 30 30 37 30 20 31 34 0D		Simplified Chinese
~XX70 15	7E 30 30 37 30 20 31 35 0D		Japanese
~XX70 16	7E 30 30 37 30 20 31 36 0D		Korean
~XX70 17	7E 30 30 37 30 20 31 37 0D		Russian
~XX70 18	7E 30 30 37 30 20 31 38 0D		Hungarian
~XX70 19	7E 30 30 37 30 20 31 39 0D		Czech
~XX70 20	7E 30 30 37 30 20 32 30 0D		Arabic
~XX70 21	7E 30 30 37 30 20 32 31 0D		Thai
~XX70 22	7E 30 30 37 30 20 32 32 0D		Turkish
~XX71 1	7E 30 30 37 31 20 31 0D	Projection	Front-Desktop
~XX71 2	7E 30 30 37 31 20 32 0D		Rear-Desktop
~XX71 3	7E 30 30 37 31 20 33 0D		Front-Ceiling
~XX71 4	7E 30 30 37 31 20 34 0D		Rear-Ceiling
~XX72 1	7E 30 30 37 32 20 31 0D	Menu Location	Top Left
~XX72 2	7E 30 30 37 32 20 32 0D		Top Right
~XX72 3	7E 30 30 37 32 20 33 0D		Centre
~XX72 4	7E 30 30 37 32 20 34 0D		Bottom Left
~XX72 5	7E 30 30 37 32 20 35 0D		Bottom Right

Appendices

SEND to projector

132 ASCII Code	HEX Code	Function	Description
~XX73 n	7E 30 30 37 33 20 a 0D	Signal	Frequency Phase n = -5 (a=2D 35) ~ 5 (a=35)
~XX74 n	7E 30 30 37 34 20 a 0D		n = 0 (a=30) ~ 31 (a=33 31)
~XX75 n	7E 30 30 37 35 20 a 0D		n = -5 (a=2D 35) ~ 5 (a=35)
~XX76 n	7E 30 30 37 36 20 a 0D		n = -5 (a=2D 35) ~ 5 (a=35)
~XX77 n		Security	Security Timer Month/Day/Hour n = mmdh mm = 00 (aa=30 30) ~ 99 (aa=39 39) dd = 00 (bb=30 30) ~ 29 (bb=32 39) hh = 00 (cc=30 30) ~ 23 (cc=32 33)
~XX78 1	7E 30 30 37 38 20 31 0D	Security Settings	On
~XX78 2	7E 30 30 37 38 20 32 0D		Off
~XX79 n	7E 30 30 37 39 20 a 0D	Projector ID	n = 00 (a=30 30) ~ 99 (a=39 39)
~XX80 1	7E 30 30 38 30 20 31 0D	Mute	On
~XX80 2	7E 30 30 38 30 20 32 0D		Off
~XX81 n	7E 30 30 38 31 20 a 0D	Volume	n = 0 (a=30) ~ 15 (a=31 35)
~XX82 1	7E 30 30 38 32 20 31 0D	Logo	Optoma
~XX82 3	7E 30 30 38 32 20 31 0D		Neutral
~XX86 1	7E 30 30 38 36 20 31 0D	RS232	RS232
~XX86 2	7E 30 30 38 36 20 32 0D		Network
~XX88 1	7E 30 30 38 38 20 31 0D	Eco Standby <1W	On
~XX88 2	7E 30 30 38 38 20 31 0D		Off
~XX100 1	7E 30 30 31 30 30 20 31 0D	Source Lock	On
~XX100 2	7E 30 30 31 30 30 20 32 0D		Off
~XX101 1	7E 30 30 31 30 31 20 31 0D	High Altitude	On
~XX101 2	7E 30 30 31 30 31 20 32 0D		Off
~XX102 1	7E 30 30 31 30 32 20 31 0D	Information Hide	On
~XX102 2	7E 30 30 31 30 32 20 32 0D		Off
~XX103 1	7E 30 30 31 30 33 20 31 0D	Keypad Lock	On
~XX103 2	7E 30 30 31 30 33 20 32 0D		Off
~XX104 1	7E 30 30 31 30 34 20 31 0D	Background Color	Blue
~XX104 2	7E 30 30 31 30 34 20 32 0D		Black
~XX105 1	7E 30 30 31 30 35 20 31 0D	Advanced	Direct Power On On
~XX105 2	7E 30 30 31 30 35 20 32 0D		Off
~XX106 n	7E 30 30 31 30 36 20 a 0D	Auto Power Off (min)	n = 0 (a=30) ~ 999 (a=39 39 39) (0~180)
~XX107 n	7E 30 30 31 30 37 20 a 0D	Sleep Timer (min)	n = 0 (a=30) ~ 999 (a=39 39 39) (0~999)
~XX108 1	7E 30 30 31 30 38 20 31 0D	Lamp Setting	Lamp Hour On
~XX109 1	7E 30 30 31 30 39 20 31 0D	Lamp Reminder	On
~XX109 2	7E 30 30 31 30 39 20 32 0D		Off
~XX110 1	7E 30 30 31 31 20 30 31 0D	Brightness Mode	Bright
~XX110 2	7E 30 30 31 31 20 30 32 0D		STD
~XX111 1	7E 30 30 31 31 20 31 0D	Lamp Reset	Yes
~XX111 2	7E 30 30 31 31 20 32 0D		No
~XX112 1	7E 30 30 31 31 32 20 31 0D	Reset	Yes
~XX112 2	7E 30 30 31 31 32 20 32 0D		No
READ from projector			
~XX121 1	7E 30 30 31 32 31 20 31 0D	Input Source Commands	OKn n : 00/01/02/03/04/05 = None/DVI-D/DVI-A/VGA/1 S-Video/Video
~XX122 1	7E 30 30 31 32 32 20 31 0D	Software Version	OKdd n : 0/1/2/3/4/5/6 = Presentation/Bright/Movie/sRGB/User/Blackboard/Classroom Presentation/Bright/Movie/sRGB/Blackboard/Classroom/User
~XX123 1	7E 30 30 31 32 33 20 31 0D	Display Mode	OKn n : 1/0 = On/Off
~XX124 1	7E 30 30 31 32 34 20 31 0D	Power State	OKn n : 0/1/2/3/4 = 4.3/16.9/16.9/16.9/Window/AUTO
~XX125 1	7E 30 30 31 32 35 20 31 0D	Brightness	OKn n : 0/1/2 = Warm/Medium/Cold
~XX126 1	7E 30 30 31 32 36 20 31 0D	Contrast	OKn n : 0/1/2/3 = Front-Desktop/ Rear-Desktop/ Front-Ceiling/ Rear-Ceiling
~XX127 1	7E 30 30 31 32 37 20 31 0D	Aspect Ratio	OKn
~XX128 1	7E 30 30 31 32 38 20 31 0D	Color Temperature	OKn
~XX129 1	7E 30 30 31 32 39 20 31 0D	Projection Mode	OKn

SEND to emulate Remote

~XX140 1	7E 30 30 31 34 30 20 31 0D	Power	
~XX140 3	7E 30 30 31 34 30 20 33 0D	Remote Mouse Up	
~XX140 4	7E 30 30 31 34 30 20 34 0D	Remote Mouse Left	
~XX140 5	7E 30 30 31 34 30 20 35 0D	Remote Mouse Enter	
~XX140 6	7E 30 30 31 34 30 20 36 0D	Remote Mouse Right	
~XX140 7	7E 30 30 31 34 30 20 37 0D	Remote Mouse Down	
~XX140 8	7E 30 30 31 34 30 20 38 0D	Mouse Left Click	
~XX140 9	7E 30 30 31 34 30 20 39 0D	Mouse Right Click	
~XX140 10	7E 30 30 31 34 30 20 31 0D	Up/Page +	
~XX140 11	7E 30 30 31 34 30 20 31 0D	Left/Source	
~XX140 12	7E 30 30 31 34 30 20 31 0D	Enter (for projection MENU)	
~XX140 13	7E 30 30 31 34 30 20 31 0D	Right/Re-SYNC	
~XX140 14	7E 30 30 31 34 30 20 31 0D	Down/Page -	
~XX140 15	7E 30 30 31 34 30 20 31 0D	Keystone +	
~XX140 16	7E 30 30 31 34 30 20 31 0D	Keystone -	
~XX140 17	7E 30 30 31 34 30 20 31 0D	Volume +	
~XX140 18	7E 30 30 31 34 30 20 31 0D	Volume -	
~XX140 19	7E 30 30 31 34 30 20 31 0D	Brightness	
~XX140 20	7E 30 30 31 34 30 20 31 0D	Menu	
~XX140 21	7E 30 30 31 34 30 20 31 0D	Zoom	
~XX140 22	7E 30 30 31 34 30 20 31 0D	DVI	
~XX140 23	7E 30 30 31 34 30 20 31 0D	Freeze	
~XX140 24	7E 30 30 31 34 30 20 31 0D	AV Mute	
~XX140 25	7E 30 30 31 34 30 20 31 0D	S-Video	
~XX140 26	7E 30 30 31 34 30 20 31 0D	VGA	
~XX140 27	7E 30 30 31 34 30 20 31 0D	Video	

SEND from projector automatically

132 ASCII Code	HEX Code	Function	Projector Return	Description
		when Standby/Warming/Cooling/Out of Range/Lamp Fail	INFOn	n : 0/1/2/3/4 = Standby/Warming/Cooling/Out of Range/ Lamp Fail

READ from projector

132 ASCII Code	HEX Code	Function	Projector Return	Description
~XX150 1	7E 30 30 31 35 30 20 31 0D	Information	OKabbbccccddddd	a : 1/0=On/Off bbbb: LampHour cc: source 00/01/02/03/04/05= None/DVI-D/DVI-A/ VGA/1 S-Video/Video dddd: FW version e : Display mode n : 0 EX525ST
~XX151 1	7E 30 30 31 35 31 20 31 0D	Model name	OKn	

Ceiling Mount Installation

1. To prevent damaging your projector, please use the Optoma's recommended mount package for installation.
2. If you wish to use a third party ceiling mount kit, please ensure the screws used to attached a mount to the projector met the following specifications:

► Screw type: M4

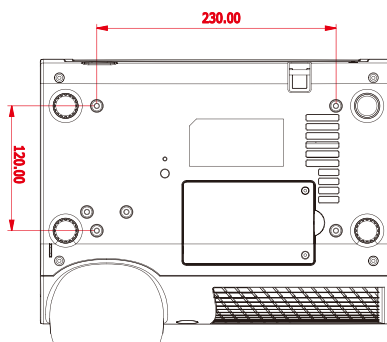
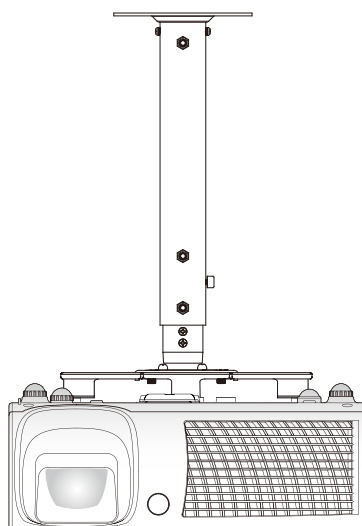


❖ Please note that damage resulting from incorrect installation will invalidate the warranty.



Warning:

1. If you buy the ceiling mount from other company, please ensure that there is at least 10cm distance between the bottom cover of the projector and the ceiling.
2. Avoid placing the projector near sources of heat such as air-conditioning units and heaters, otherwise, it may overheat and shut down automatically.



Unit: mm

Optoma Global Offices

For service or support please contact your local office.

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Regulation & Safety notices

This appendix lists the general notices of your projector.

FCC notice

This device 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 device 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 device does cause harmful interference to radio or television reception, which can be determined by turning the device 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 device and receiver.
- Connect the device into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

Notice: Shielded cables

All connections to other computing devices must be made using shielded cables to maintain compliance with FCC regulations.

Caution

Changes or modifications not expressly approved by the manufacturer could void the user's authority, which is granted by the Federal Communications Commission, to operate this projector.

Operation conditions

This device complies with Part 15 of the 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.

Notice: Canadian users

This Class B digital apparatus complies with Canadian ICES-003.

Remarque à l'intention des utilisateurs canadiens

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Declaration of Conformity for EU countries

- EMC Directive 2004/108/EC (including amendments)
- Low Voltage Directive 2006/95/EC
- R & TTE Directive 1999/5/EC (if product has RF function)

Disposal instructions



Do not throw this electronic device into the trash when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle it.