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Introduction

Product Overview

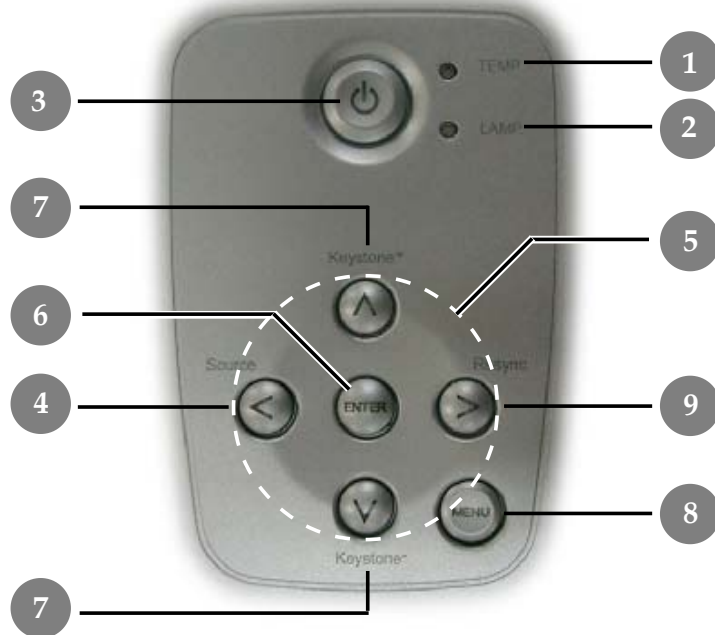
Main Unit



1. Focus Ring
2. Zoom Ring
3. Elevator Button
4. Zoom Lens
5. Remote Control Receiver
6. Connection Ports
7. Power Connector
8. Control Panel

Introduction

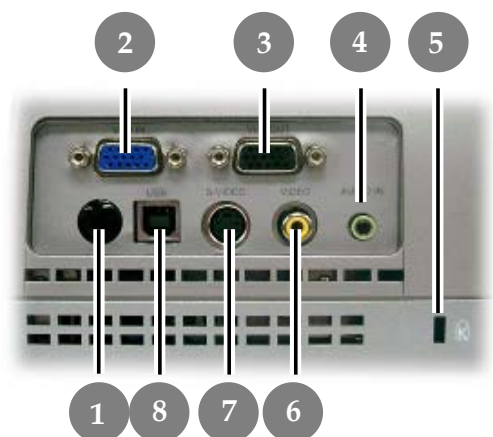
Control Panel



- | | |
|---------------------------------|------------------------|
| 1. Temp Indicator LED | 7. Keystone Correction |
| 2. Lamp Indicator LED | 8. Menu (On/Off) |
| 3. Power/Standby | 9. Re-sync |
| 4. Source | |
| 5. Four Directional Select Keys | |
| 6. Enter | |

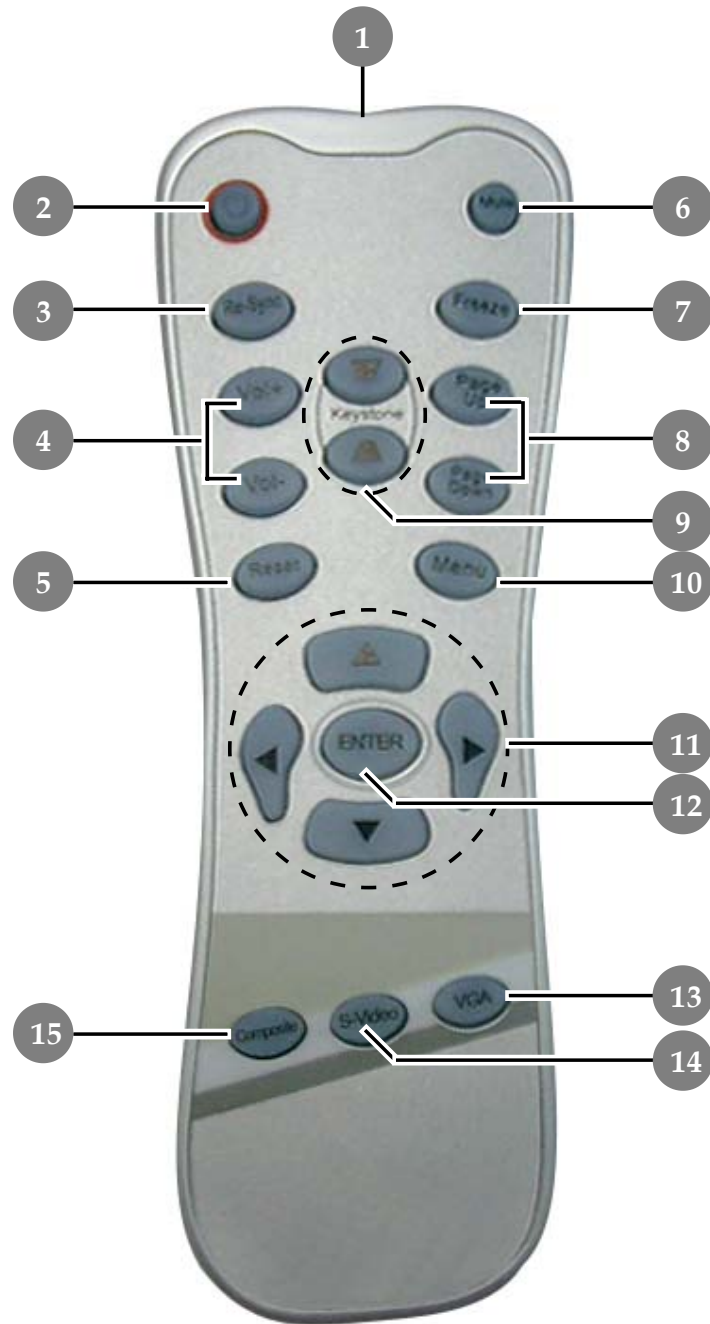
Connection Ports

1. Remote Control Receiver
2. PC Analog Signal/HDTV/Component Video Input Connector
3. Monitor Loop-through Output Connector
4. Audio Input Connector
5. Kensington™ Lock Port
6. Composite Video Input Connector
7. S-Video Input Connector
8. USB Input Connector



Introduction

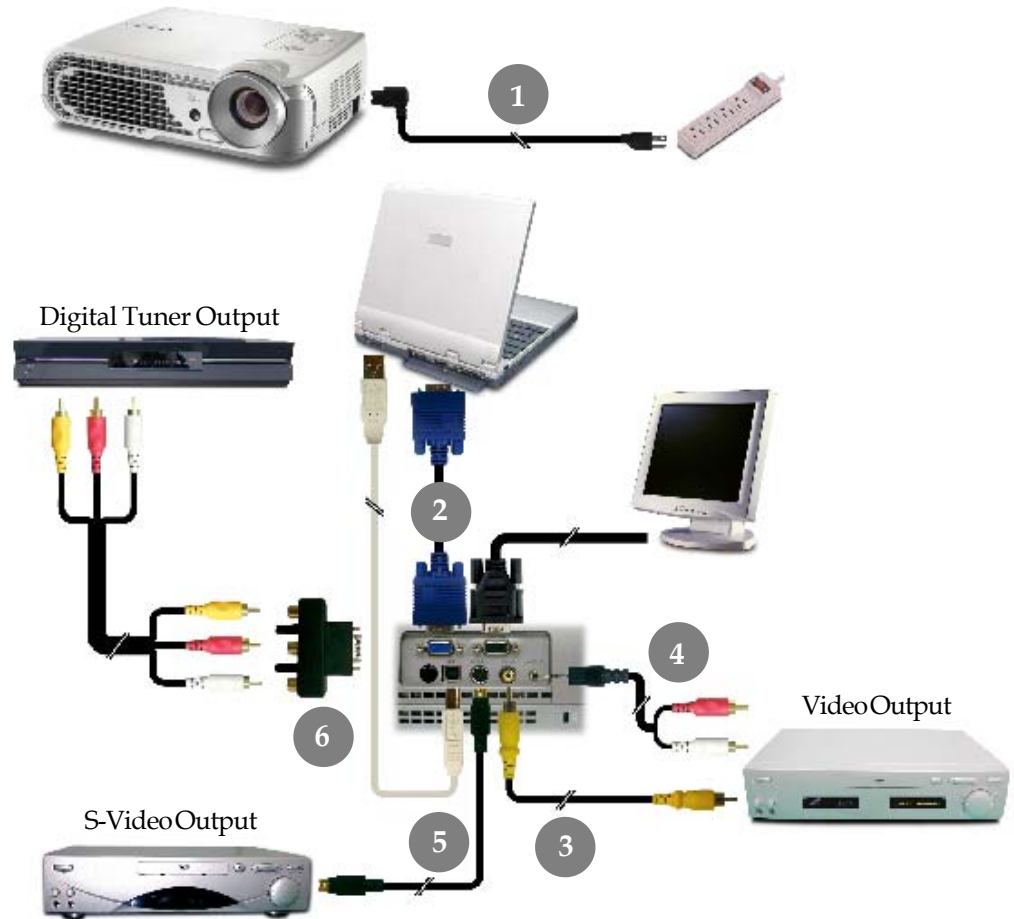
Remote Control



1. Transmit Indicator Light
2. Power
3. Re-Sync
4. Volume (+ / -)
5. Reset
6. Mute
7. Freeze
8. Page Up / Page Down
9. Keystone Correction
10. Menu
11. Four Directional Select Keys
12. Enter
13. VGA Source
14. S-Video Source
15. Composite Video Source

Installation

Connecting the Projector



1. Power Cord
2. VGA Cable
3. Composite Video Cable
4. Audio Cable Jack/RCA (Optional Accessory)
5. S-Video Cable (Optional Accessory)
6. D-15 to RCA Adapter for YPbPr (Optional Accessory)

³ To ensure the projector works well with your computer, please set the display mode of your graphic card less than or equal to 800 X 600 resolution. Make sure the timing of the display mode is compatible with the projector. Refer to the "Compatibility Modes" section on page 31.

Installation

Powering On/Off the Projector

Powering On the Projector

1. Remove the lens cap.€
2. Ensure that the power cord and signal cable are securely connected. The “Power/Standby” button will flash **green**.
3. Turn on the lamp by pressing “Power/Standby” button on the control panel. And the “Power/Standby” button will turn **green**.,

The startup screen will display for 30 seconds.

4. Turn on your source (computer, notebook, video player ,etc.). The projector will detect your source automatically.

³ *If the screen displays “No Signal”, please make sure the signal cables are securely connected.*

³ *If you connect multiple sources at the same time, use the “Source” button on the remote control or control panel to switch.*



³ Turn on the projector first and then the signal sources.



Installation

Powering Off the Projector

1. Press the “Power/Standby” button to turn off the projector lamp, you will see a message “Power off the lamp?” on the on-screen display.
2. Press the “Power/Standby” button again to confirm. Otherwise the message will disappear after 5 seconds.
3. The cooling fans continue to operate for about 60 seconds for cooling cycle and the “Power/standby” button will turn orange. When the light begins flashing, 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 “Power/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

- ³ *When the “LAMP” indicator lights solid orange for about 2 minutes, the projector will automatically shut itself down. Please contact your local reseller or service center.*
- ³ *When the “TEMP” indicator lights solid orange, it indicates the projector has been overheated. You will see a message “Projector Overheated.” on the on-screen display. 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.*
- ³ *When the “TEMP” indicator flashes orange for about 10 seconds, you will see a message “Fan fail. Lamp will automatically turn off soon.” on the on-screen display. Please contact your local dealer or our service center.*

Installation

Adjusting the Projected Image

Adjusting the Projector Image Height

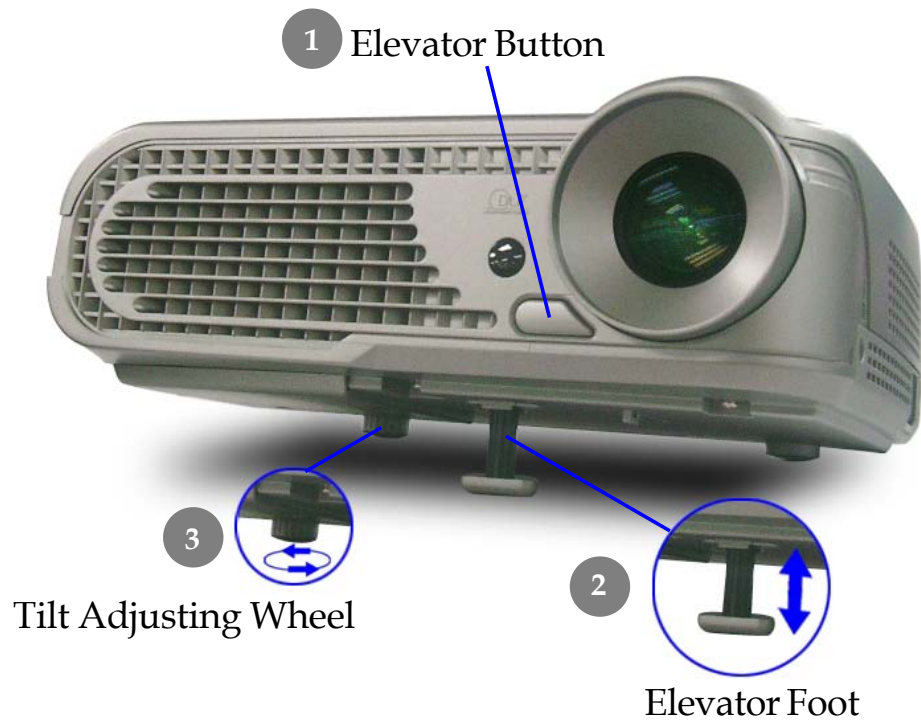
The projector is equipped with an elevator foot for adjusting the image height.

To raise the image:

1. Press the elevator button € .
2. Raise the image to the desired height angle α , then release the button to lock the elevator foot into position.
3. Use f to fine-tune the display angle.

To lower the image:

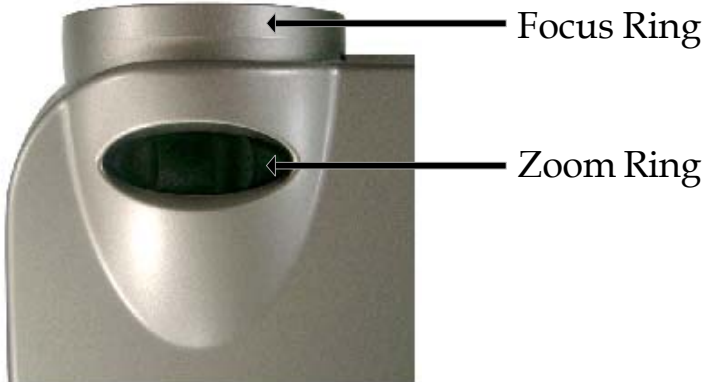
1. Press the elevator button.
2. Lower the image, then release the button to lock the elevator foot into position.
3. Use f to fine-tune the display angle.



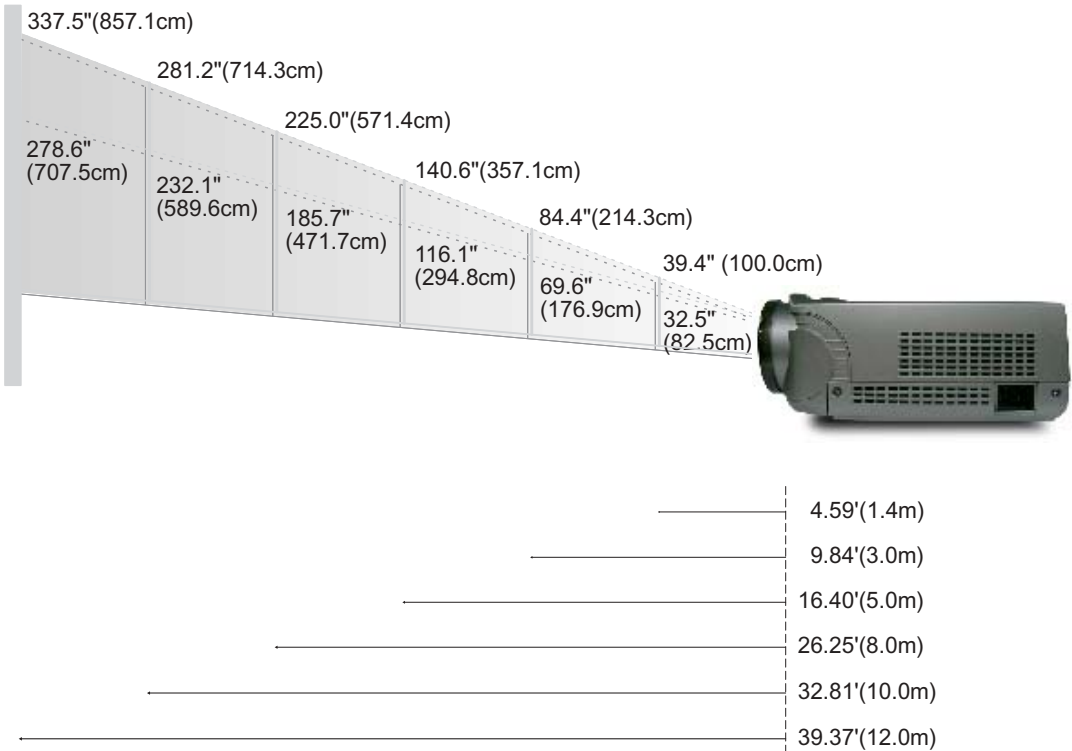
Installation

Adjusting the Projector Zoom / Focus

You may turn the zoom ring to zoom in or out. To focus the image, rotate the focus ring until the image is clear. The projector will focus at distances from 4.6 to 39.4 feet (1.4 to 12.0 meters).



Adjusting Projection Image Size



Screen (Diagonal)	Max.	39.4"(100.0cm)	84.4"(214.3cm)	140.6"(357.1cm)	225.0"(571.4cm)	281.2"(714.3cm)	337.5"(857.1cm)
	Min.	32.5"(82.5cm)	69.6"(176.9cm)	116.1"(294.8cm)	185.7"(471.7cm)	232.1"(589.6cm)	278.6"(707.5cm)
Screen Size	Max.(WxH)	31.52" x 23.64" (80.0 x 60.0cm)	67.52" x 50.64" (171.4 x 128.6cm)	112.48" x 84.36" (285.7 x 214.3cm)	180.00" x 135.00" (457.1 x 342.8cm)	224.96" x 168.72" (571.4 x 428.6cm)	270.00" x 202.50" (685.7 x 514.3cm)
	Min.(WxH)	26.00" x 19.50" (66.0 x 49.5cm)	55.68" x 41.76" (141.5 x 106.1cm)	92.88" x 69.66" (235.8 x 176.9cm)	148.56" x 111.42" (377.4 x 283.0cm)	185.68" x 139.26" (471.7 x 353.8cm)	222.88" x 167.16" (566.0 x 424.5cm)
Distance		4.59'(1.4m)	9.84'(3.0m)	16.4'(5.0m)	26.25'(8.0m)	32.81'(10.0m)	39.37'(12.0m)

³ This graph is for user's reference only.

User Controls

Control Panel & Remote Control

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

Control Panel



Remote Control



Using the Control Panel

Power/Standby

- Refer to the "Power On/Off the Projector" section on pages 10-11.

Source

- Press "Source" to choose RGB, Component-p, Component-i, S-Video, Composite Video and HDTV sources.





Menu

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

Keystone

- Adjusts image distortion caused by tilting the projector (± 16 degrees).

Four Directional Select Keys

- Use     to select items or make adjustments to your selection.

Enter

- Confirm your selection of items.

Re-Sync

- Automatically synchronizes the projector to the input source.

User Controls

Using the Remote Control

Power/Standby

Refer to the “Power On/Off the Projector” section on pages 10-11.

Re-Sync

Automatically synchronizes the projector to the input source.

Volume +/-

Increases/decreases speaker volume.

Reset

Changes the adjustments and settings to the factory default value.

Mute

Momentarily turns off the audio and video.

Keystone /

Adjusts image distortion caused by tilting the projector (± 16 degrees).

Page Up (Computer mode only)

Use this button to page up. This function is only available when the projector is connected to a computer via an USB cable.





Page Down (Computer mode only)

Use this button to page down. This function is only available when the projector is connected to a computer via an USB cable.

Freeze

Press “Freeze” to pause the screen image.

Four Directional Select Keys

Use     to select items or make adjustments to your selection.

Menu

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

Enter

Confirm your selection of items.

VGA

Press “VGA” to choose Analog RGB, component and HDTV source.

S-Video

Press “S-Video” to choose S-Video source.

Composite

Press “composite” to choose Composite video source.

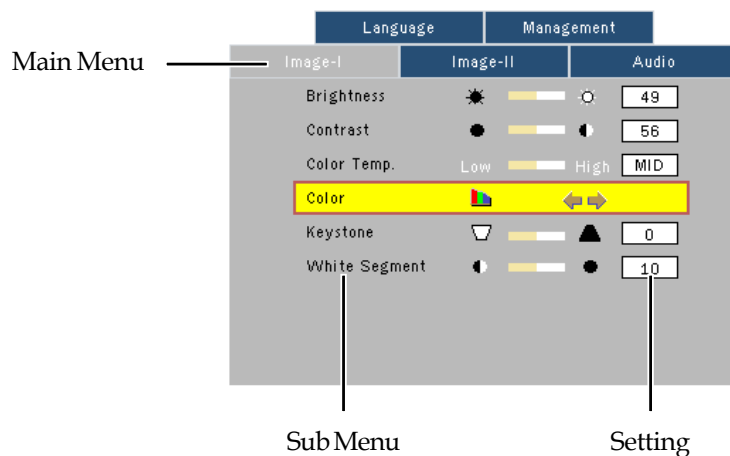
User Controls

On Screen Display Menus

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.

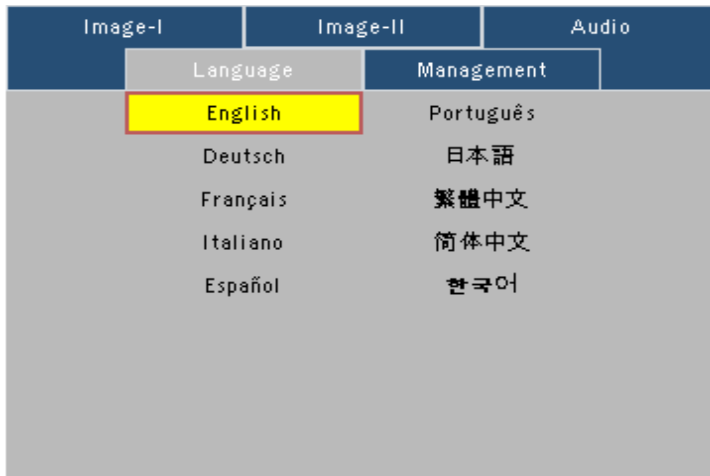
How to operate

1. To open the OSD menu, press “Menu” on the Remote Control or Control Panel.
2. When OSD is displayed, use ◀ ▶ keys to select any item in the main menu. While making a selection on a particular page, press “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 “Menu” 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

Computer / Video Mode



Language

Language

Choose the multilingual OSD menu . Use the ▲ or ▼ key to select your preferred language.

Press "Enter" to finalize the selection.

User Controls

Computer / Video Mode

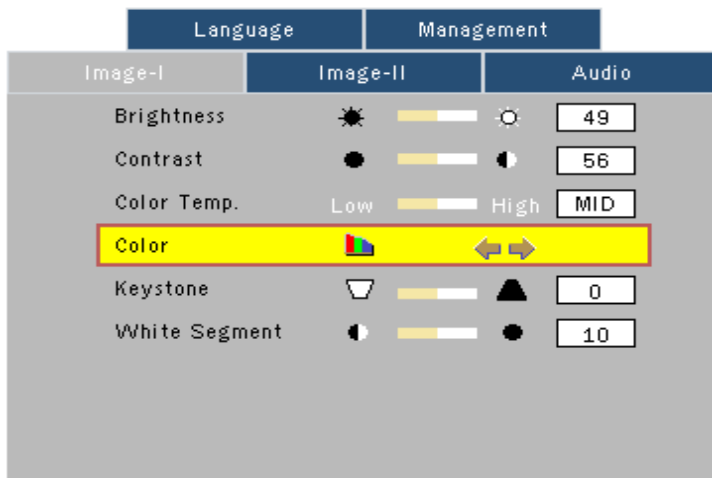


Image-I

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.

Color Temp.

Adjust the color temperature. At higher temperature, the screen looks colder; at lower temperature, the screen looks warmer.

Color

Adjust the red, green and blue colors.

Keystone (Keystone Correction)

Adjust image distortion caused by tilting projection. (± 16 degrees)

White Segment

Use the white segment control to set the white peaking level of DMD chip. 0 stands for minimal peaking, and 10 stands for maximum peaking. If you prefer a stronger image, adjust towards the maximum setting. For a smooth and more natural image, adjust towards the minimum setting.



Computer Mode

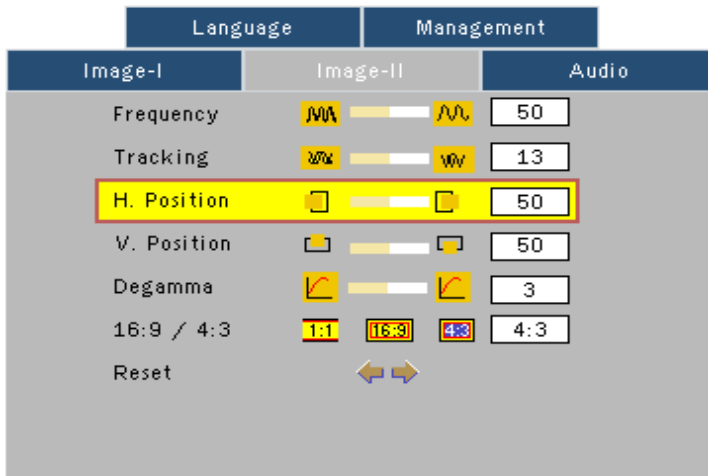


Image-II (Computer Mode)

Frequency

“Frequency” changes 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.

Tracking

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

Horizontal Position

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

Vertical Position

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

Degamma

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

16 : 9 / 4 : 3

Use this function to choose your desired aspect ratio.

- 1:1 : Original image pixel.
- 4:3 : The input source will be scaled to fit the projection screen.
- 16:9 : The input source will be scaled to fit the width of the screen.

User Controls

Computer Mode

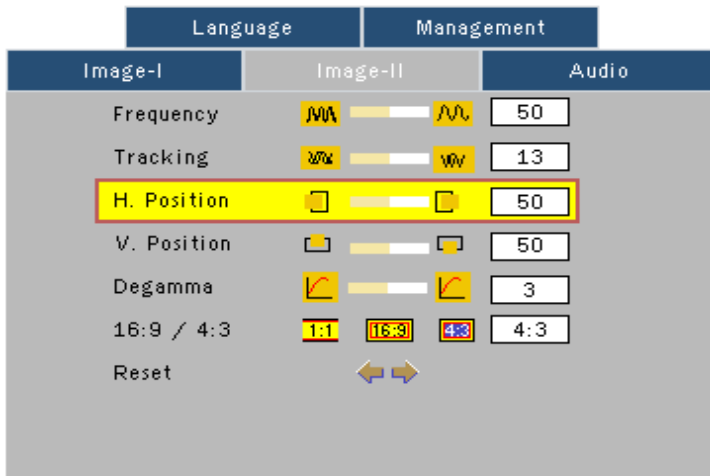
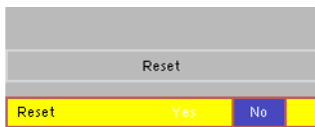


Image-II (Computer Mode)



Reset

Choose "Yes" to return the display parameters (except for Lamp Hour) on all menus to their factory default settings.

Video Mode

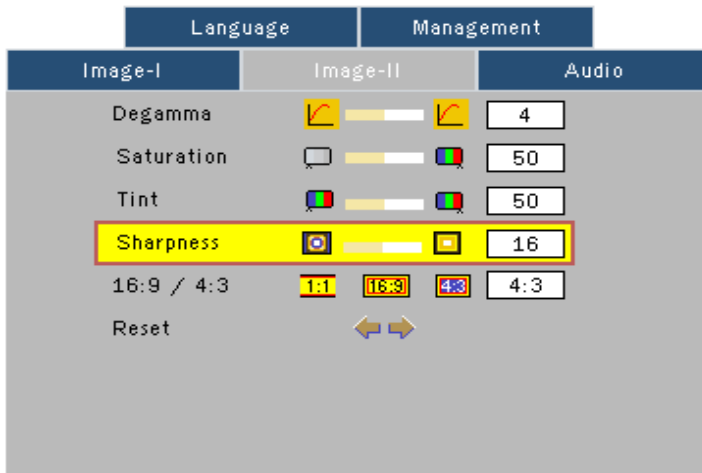


Image-II (Video Mode)

Degamma

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

Saturation

Adjusts a video image from black and white to fully saturated color.

Press the ◀ to decrease the amount of color in the image.

Press the ▶ to increase the amount of color in the image.

Tint

Adjusts the color balance of red and green.

Press the ◀ to increase the amount of green in the image.

Press the ▶ to increase the amount of red in the image.

Sharpness

Adjusts the sharpness of the image.

Press the ◀ to decrease the sharpness.

Press the ▶ to increase the sharpness.

16 : 9 / 4 : 3

Use this function to choose your desired aspect ratio.

1:1 : Original image pixel.

4:3 : The input source will be scaled to fit the projection screen.

16:9 : The input source will be scaled to fit the width of the screen.

User Controls

Video Mode

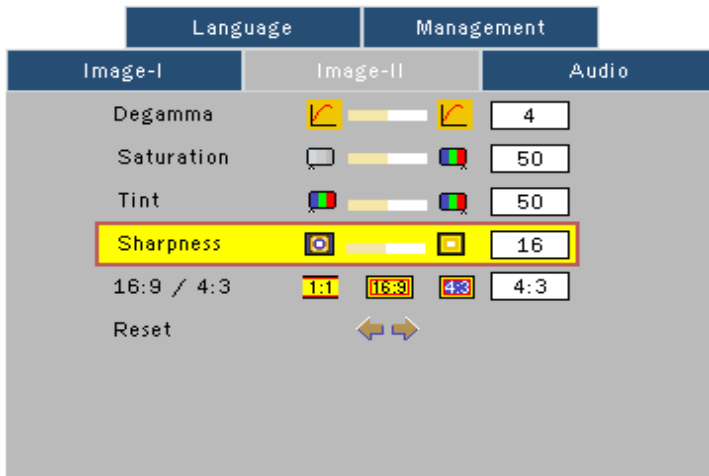
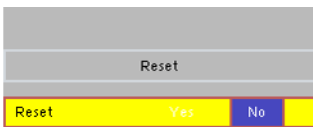


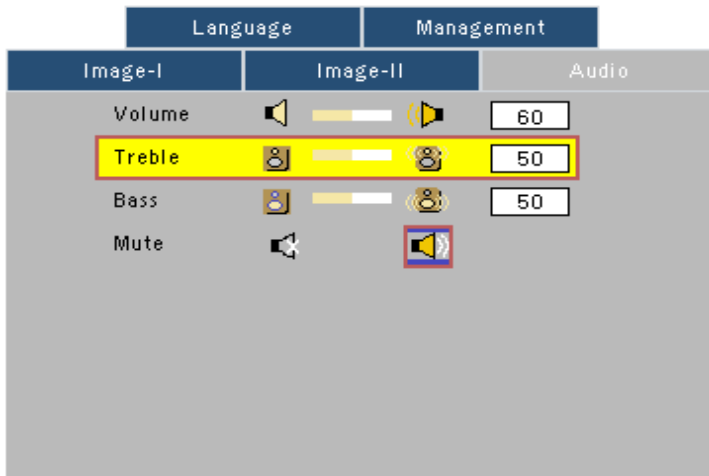
Image-II (Video Mode)



Reset

Choose "Yes" to return the display parameters (except for Lamp Hour) on all menus to their factory default settings.

Computer / Video Mode



Audio

Volume

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

Treble

The treble setting controls the higher frequencies of your audio source.

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

Bass

The Bass setting controls the lower frequencies of your audio source.

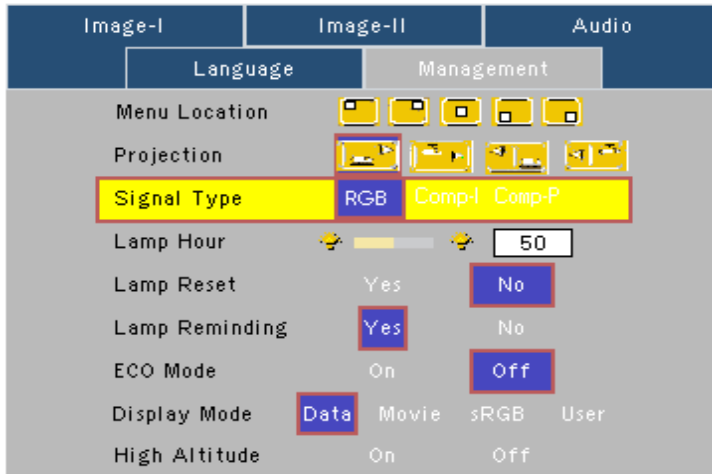
- Press the ◀ to decrease the bass.
- Press the ▶ to increase the bass.

Mute

- Choose the left icon to turn mute on.
- Choose the right icon to turn mute off.

User Controls

Computer / Video Mode







Management

Menu Location

Choose the Menu location on the display screen.

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.

Signal Type

Select signal type RGB, Component-i or Component-p sources.

Lamp Hour

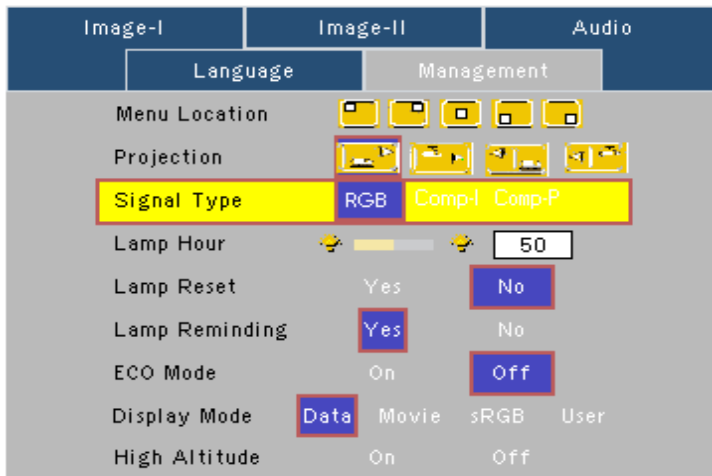
Displays the lamp's elapsed operating time (in hours).

Lamp Reset

Turns the lamp hour counter to 0 hours.

User Controls

Computer / Video Mode



Management

Lamp Reminding

Choose this function to show or to hide the warning message when the changing lamp message is displayed. The message will show up 30 hours before end of life.

ECO Mode

Choose "On" to dim the projector lamp which will lower power consumption and extend the lamp life by up to 130%.
Choose "Off" to return normal mode.

Display Mode

There are 4 factory presets optimized for various types of images.

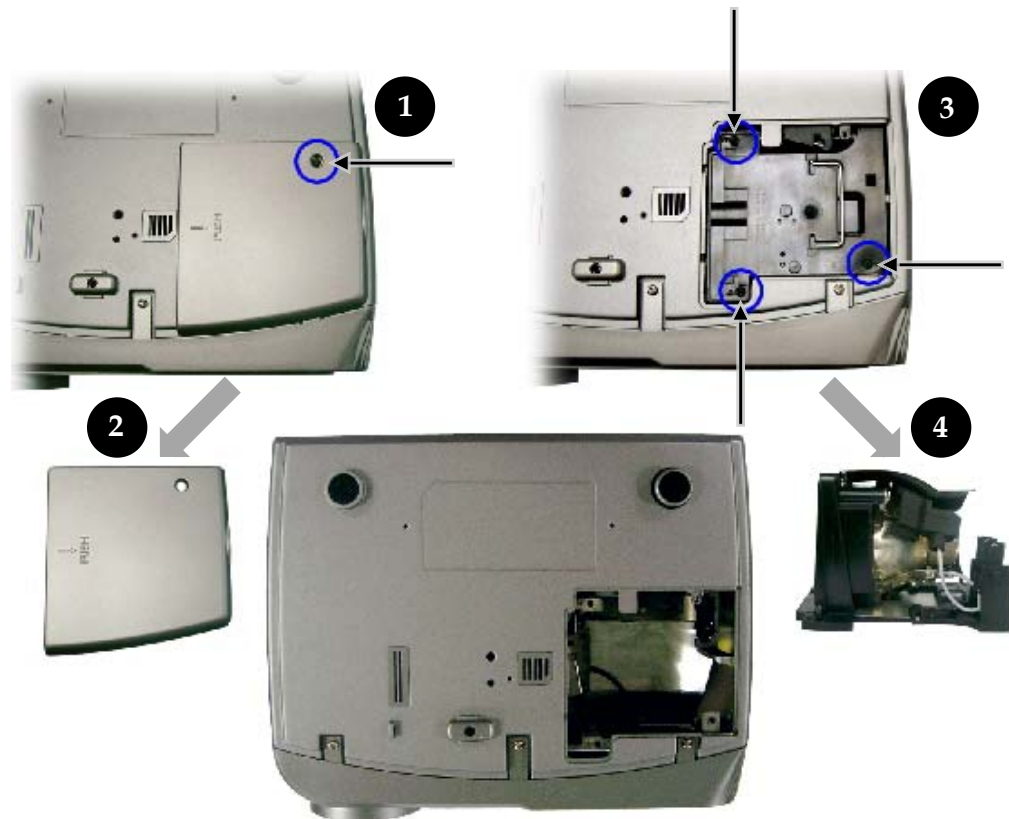
- Data : For computer or notebook.
- Movie : For home theater.
- sRGB : For standard color. (Computer mode only)
- User : For user adjustable settings.

Replacing the lamp

The projector will detect the lamp life itself. It will show you a warning message "Lamp may fail soon ! Replacement Suggested !" When you see this message, change the lamp as soon as possible.



Warning: Lamp compartment is hot! Allow it to cool down before changing 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 Changing Procedure:

1. Turn off the power to the projector by pressing the Power button.
2. Allow the projector to cool down at least 30 minutes.
3. Disconnect the power cord.
4. Use a screwdriver to remove the screw from the cover.
5. Push up and Remove the cover.,
6. Remove the 3 screws from the lamp module.*f*
7. Pull out the lamp module.,,

To replace the lamp module, reverse the previous steps.

Appendices

Specifications

Light Valve	- Single Chip DLP™ Technology by Texas Instruments
Lamp	- 200W User Replaceable Lamp
Number of Pixels	- 800 pixels(H) X 600 lines(V)
Displayable Color	- 16.7M colors
Projection Lens	- F/2.4~2.7 f=19.7~23.6mm with 1.2x Manual zoom lens
Projection Screen Size (Diag.)	- 32.5 to 337.5 inches (0.83 to 8.57 meters) Diagonal
Projection Distance	- 4.6 to 39.4 feet (1.4 to 12.0 meters)
Video Compatibility	- NTSC/NTSC 4.43/PAL/PAL-M/PAL-N/SECAM and HDTV compatible - Composite video & S-Video capability
H. Frequency	- 31.5kHz~70kHz horizontal scan
V. Frequency	- 43Hz~85Hz vertical refresh
Power Supply	- Universal AC input 100-240V ; Input Frequency 50/60Hz
I/O Connectors	- Power: AC power input socket - Computer Input: One VGA for analog/component and HDTV signal - Computer Output One 15-pin D-sub computer output - Video Input: One Composite video RCA input One S-Video input - USB Input: One USB connector - Audio Input: One phone jack for audio input
Dimensions (W x H x D)	- 10.7 x 3.4 x 8.3 inches (272 x 86 x 210 mm)
Environmental	- Operating Temperature: 41~95°F (5~ 35°C) Humidity: 80% maximum (Non-condensing) - Storage Temperature: -4~140°F (-20~60°C) Humidity: 80% maximum (Non-condensing)
Safety Regulation	- FCC Class B, CE Class B, VCCI-II, UL, cUL, TÜV-GS, CCC (China),PSE,CB Report