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# Usage Notice

## Precautions

*Follow all warnings, precautions and maintenance as recommended in this user's guide to maximize the life of your unit.*

-  **Warning-** Do not look into the lens. The bright light may hurt your eyes.
-  **Warning-** To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.
-  **Warning-** Please do not open or disassemble the product as this may cause electric shock.
-  **Warning-** When changing the lamp, please allow unit to cool down, and follow all changing instructions.
-  **Warning-** This product will detect the life of the lamp itself. Please be sure to change the lamp when it shows warning messages.
-  **Warning-** After changing a new lamp, please reset the lamp life from OSD menu.
-  **Warning-** Before switching off the product, please keep the cooling fan running for a few minutes.
-  **Warning-** When connecting the projector to computer, please turn on the projector first.
-  **Warning-** To reduce the risk of injury to the eyes, do not look directly into the laser light on the remote control and do not point the laser light into anyone's eyes. This remote control is equipped with a Class II laser that emits radiation.
-  **Warning-** When the lamp reaches the end of its life, it will burn out and may make a loud popping sound. If this happens, the projector will not turn back on until the lamp module has been replaced. To replace the lamp, follow the procedures listed under "Changing the Lamp".

# Usage Notice

## ***Do:***

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

## ***Don't:***

- ❖ Block the slots and openings on the unit provided for ventilation.
- ❖ Use abrasive cleaners, waxes or solvents to clean the unit.
- ❖ Use under the following conditions:
  - Extremely hot, cold or humid environment.
  - In areas susceptible to excessive dust and dirt.
  - Near any appliance generating a strong magnetic field.
  - Place in direct sunlight.



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# Introduction

## Product Features

*This product is an XGA single chip 0.7" DLP™ projector. The outstanding features of it are listed as follows:*

- ◆ True XGA, 1024 x 768 addressable pixels
- ◆ Single chip DLP™ technology
- ◆ PureProgressive™ processing technology for artifact-free film materials.
- ◆ HDTV compatible (480i,480P,720P,1080i)
- ◆ NTSC/NTSC4.43/PAL/PAL-M/PAL-N/SECAM and HDTV compatible
- ◆ High-tech DVI connection for digital and analog video connectivity
- ◆ Full function remote with mouse control and laser pointer
- ◆ Multimedia audio integration
- ◆ User friendly multilingual on-screen display menu
- ◆ Advanced electronic keystone correction and high quality full screen re-scaling image
- ◆ User friendly control panel
- ◆ Luxurious carrying case included
- ◆ SXGA compression and VGA, SVGA re-sizing
- ◆ 150 Watts user replaceable P-VIP lamp
- ◆ Mac compatible

# 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



RS232 Cable



Power Cord



S-Video Cable



Audio Cable



Composite Video Cable



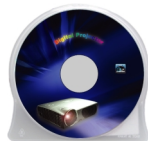
M1-A to VGA and USB cable



Battery x 2



Remote Control with Mouse Function and Laser Pointer



User's Guide



Carrying Case



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Quick Start Card



Warranty Card

# Introduction

## Product Overview

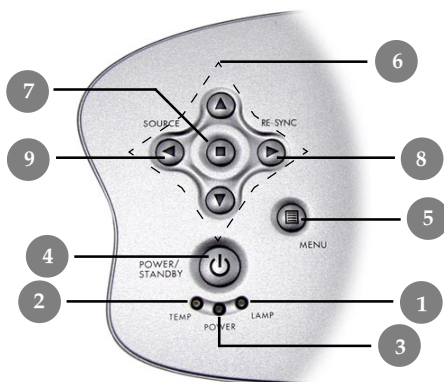
### Main Unit



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

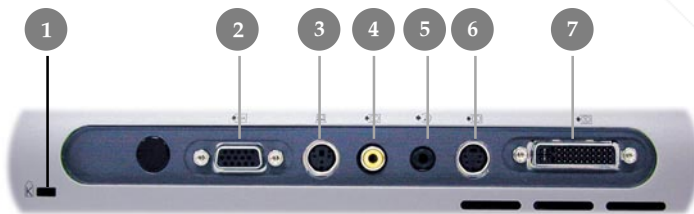
# Introduction

## Panel Control



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

## Connection Ports

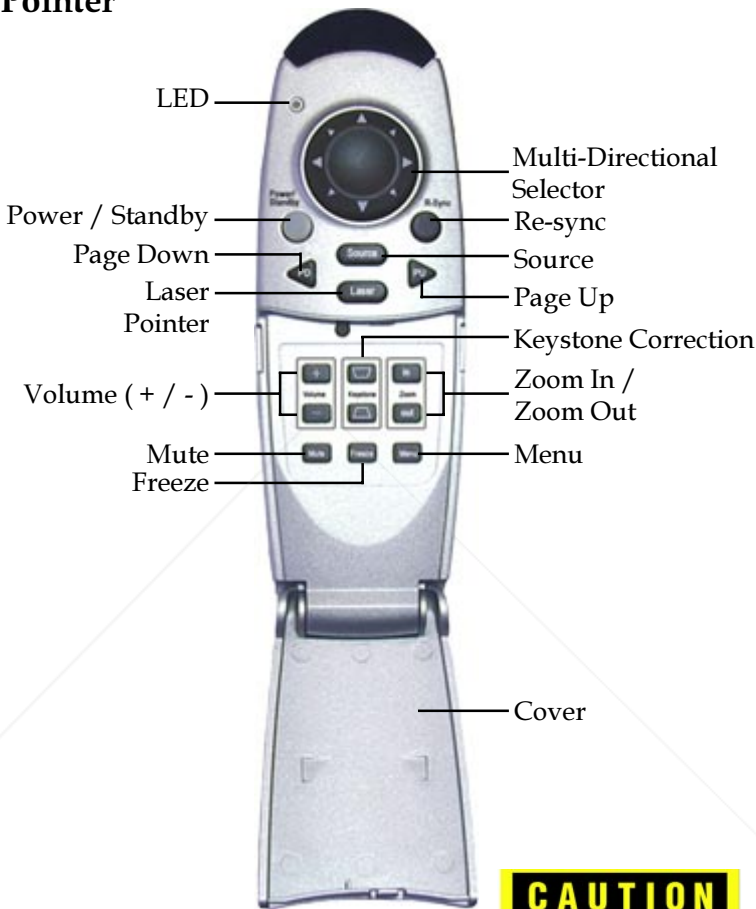


1. Kensington™ Lock Hole
2. Monitor Loop-Through Connector
3. RS232 Input Connector
4. Composite Video Input Connector
5. Audio Input
6. S-Video Input Connector
7. VESA M1-DA Analog RGB/Digital/HDTV/Component Video/USB Mouse Input Connector



# Introduction

## Remote Control with Mouse Function & Laser Pointer



❖ Close the cover of the remote control when you want to use the remote mouse.



**Caution :** To reduce the risk of injury to the eyes, do not look directly into the laser light on the remote control and do not point the laser light into anyone's eyes. This remote control is equipped with a Class II laser that emits radiation.



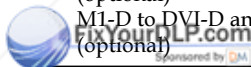
Enter Key

# Installation

## Connecting the Projector



1. RS232 Cable
2. Power Cord
3. S-Video Cable
4. Audio Cable
5. Composite Video Cable
6. M1-A to VGA and USB Cable
7. M1-A to HDTV and USB Cable (optional)
8. M1-D to DVI-D and USB Cable (optional)



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To ensure the projector works well with your computer, please configure the display mode of your graphic card to make it less than or equal to 1024 X 768 resolution. Make sure timing of the display mode is compatible with the projector. Refer to the "Compatibility Modes" section on page 32.

# 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.
3. Turn on the lamp by pressing “Power/Standby” button on the control panel. ❷  
The startup screen will be displayed for 20 seconds and the Power/Standby indicator will light solid green.
4. Turn on your source (computer, notebook, or video player , etc...) The projector will detect your source automatically.

- ❖ If the screen displays “No Signal” , please make sure the signal cables are securely connected.
- ❖ If you connect multiple sources at the same time, use the “Source” button on the Remote Control or Panel Control to switch.



❖ Turn on the projector first and then the computer.



# Installation

## Powering Off the Projector

1. Press the "Power/Standby" button to turn off the projector lamp.
2. After pressing the "Power/Standby" button, you will see a message "Power off the lamp?" on the on-screen display. Press the "Power/Standby" button again to confirm. Otherwise the message will disappear after 5 seconds.
3. "Power/Standby" indicator flashes red for about 2 minutes. The projector will automatically shut itself down.  
If you want to turn on the projector, you must press the "Power/Standby" button within 2 minutes of the start of the indicator flashing.
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.

❖ When the "TEMP" indicator flashes red for about 10 seconds, you will see a message "Fan Fail" on the on-screen display. After 5 seconds, the "Power/Standby" indicator flashes green for about 2 minutes and the projector will automatically shut itself down. Please contact your local reseller or service center.

❖ When the "TEMP" indicator lights solid red for about 10 seconds, it indicates the projector has been overheated. You will see a message "Over Temperature" on the on-screen display. After 5 seconds, the "Power/Standby" indicator flashes green for about 2 minutes and the projector will automatically shut itself down. Please contact your local reseller or service center.

❖ When the "LAMP" indicator lights solid orange and "Power/Standby" indicator flashes green for about 2 minutes. The projector will automatically shut itself down. Please contact your local reseller or service center.

# Installation

## Adjusting the Projected Image

### Adjusting the Projector Height

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

To raise the projector:

1. Press the elevator button **❶**.
2. Raise the projector to the desired display angle **❷**, then release the button to lock the elevator foot into position.
3. Use **❸** to fine-tune tilt-adjustment.

To lower the projector:

1. Press the elevator button.
2. Lower down the projector, then release the button to lock the elevator foot into position.
3. Use **❸** to fine-tune tilt-adjustment.



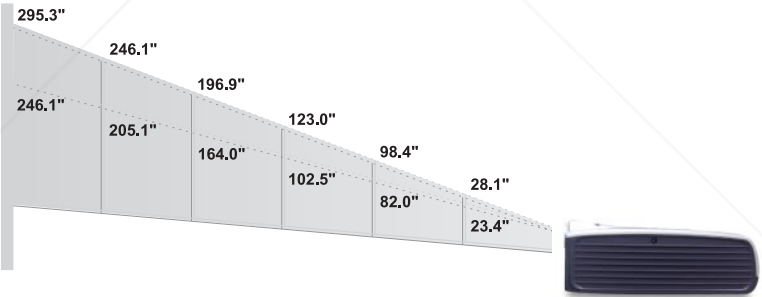
# Installation

## Adjusting the Projector Zoom / Focus

You may adjust zoom ring to zoom in / out. Rotate the zoom ring counter-clockwise to zoom in and clockwise to zoom out. To focus the image, rotate the focus ring until the image is clear. The projector will focus at distances from 3.74 feet to 39.37 feet (1.14m to 12m)



## Adjusting Projection Image Size



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| Screen (Diagonal) | Max.      | 28.1"           | 98.4"           | 123.0"          | 196.9"            | 246.1"            | 295.3"            |
|-------------------|-----------|-----------------|-----------------|-----------------|-------------------|-------------------|-------------------|
|                   | Min.      | 23.4"           | 82.0"           | 102.5"          | 164.0"            | 205.1"            | 246.1"            |
| Screen Size       | Max.(WxH) | 22.48" x 16.86" | 78.72" x 59.04" | 98.40" x 73.80" | 157.52" x 118.14" | 196.88" x 147.66" | 236.24" x 177.18" |
|                   | Min.(WxH) | 18.72" x 14.04" | 65.60" x 49.20" | 82.00" x 61.50" | 131.20" x 98.40"  | 164.08" x 123.06" | 196.88" x 147.66" |
| Distance          |           | 3.74'           | 13.12'          | 16.40'          | 26.25'            | 32.81'            | 39.37'            |

❖ This graph is for user's reference only.

# User Controls

## Panel Control & Remote Control

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

### Panel Control



### Remote Control



### Use the Remote Control

#### Power / Standby

- ▶ Refer to the "Power On/Off the Projector" section on page 10~11.

#### Source





- ▶ Press "Source" to choose RGB, DVI-Digital, DVI-Analog, S-Video, Composite, Component and HDTV sources.

#### Re-Sync

- ▶ Automatically synchronizes the projector to the input source, when you press this button while the remote control cover is opened.
- ▶ If the remote control cover is closed, the Mouse/Re-Sync button functions like the right mouse button.

# User Controls

## Multi-Directional Selector

- ▶ When you close the cover of remote control, this key can be used as a mouse to control direction.
  - ❖ **The above function is only enabled with the connection between computer and projector by M1-A to VGA and USB cable.**
- ▶ When the cover of remote control is opened, this key can be used for the     operation for OSD display.



❖ **Page Up / Page Down :**  
Under remote mouse connected status only.



## Page Up (Computer mode only)

- ▶ Use this button to page up.



## Page Down (Computer mode only)

- ▶ Use this button to page down.

## Laser

- ▶ Aim the remote at the viewing screen, press and hold this button to activate the laser pointer.

## Menu

- ▶ Press "Menu" to open the on-screen display (OSD) menus and press   key to select menu items. To exit OSD, press the "Menu" button again. The projector will save any change you made automatically.

## Freeze

- ▶ Press the "Freeze" button to still the screen image.

## Mute

- ▶ Use to mute sound.

## Volume +/-

- ▶ Increases/decreases speaker volume.

## Keystone +/-

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

## Zoom In

- ▶ Press "in" button of zoom function to magnifies an image up to a factor of 32 times on the projection screen.

## Zoom Out

- ▶ Press "out" button of zoom function to diminishes the zoom in image.



# User Controls

## Enter

- ▶ Confirm your selection of items, when you open the front cover of remote control.
- ▶ If the remote control cover is closed, the Enter button functions like the left mouse button.

## Use the Panel Control

### Power/Standby

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





### Source

- ▶ Press “Source” to choose RGB, DVI-Digital, DVI-Analog, S-Video, Composite, Component and HDTV sources.

### Re-Sync

- ▶ Automatically synchronizes the projector to the input source.



### Four Directional Select Keys

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

## Enter

- ▶ Confirm your selection of items.

## Menu

- ▶ Press “Menu” to open the on-screen display (OSD) menus and press   key to select menu items . To exit OSD, press the “Menu” button again. The projector will save any change you made automatically.

# User Controls

## On-Screen Display Menus

### How to operate

- ▶ The Projector has multilingual On-Screen Display(OSD) menus that allow you to make image adjustments and change a variety of settings. In computer source, the OSD will be the “Computer OSD”. In video source, the OSD will be the “ Video OSD”. The projector will detect the source automatically.
- ▶ To open the OSD menu, press the “Menu” button on the Remote Control or Panel Control.

- ▶ When OSD is displayed, press ◀ ▶ key to select main items.

E.g.: Image-I → Image-II → Audio → Language → Management → PIP → Image-I...

While making selection on a particular page, press “Enter” key to go into submenu.

- ▶ Press ▲ ▼ key to select the required item and adjust the settings by ◀ ▶ key. When a specified item is selected, the color of the item will change from yellowish brown to blue.

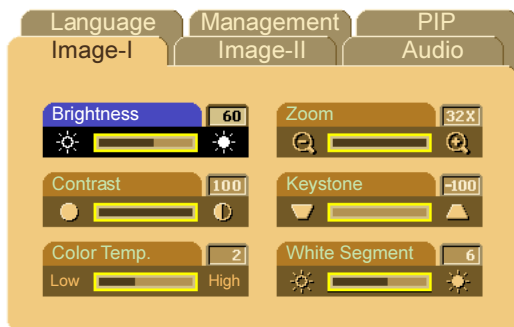
E.g.: Brightness → Contrast → Color Temp. → Zoom → Keystone → White Segment → Brightness...

- ▶ While using ◀ ▶ key to adjust the parameter or required function in the items of the submenu, confirm all the functions of the main menu by pushing “Enter” button after all/part of the items have been modified. Press “Enter” button to confirm, and the screen will be back to the main menu at once. Only ▶ ◀ key is enabled now.

- ▶ To exit the OSD, press the “Menu” button again.

# User Controls

## Computer mode



## Image-I (Computer mode)

### Brightness

Adjusting 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 Temperature

Adjust the color temperature. The range is from “0” to “3”. The factory default is “2”. With the higher temperature, the screen looks colder; with the lower temperature, the screen looks warmer.

### Zoom

- ▶ Press the ▶ to Magnify an image up to a factor of 32 times on the projection screen.
- ▶ Press the ◀ to Diminish the zoom in image.

### Keystone (Keystone Correction)

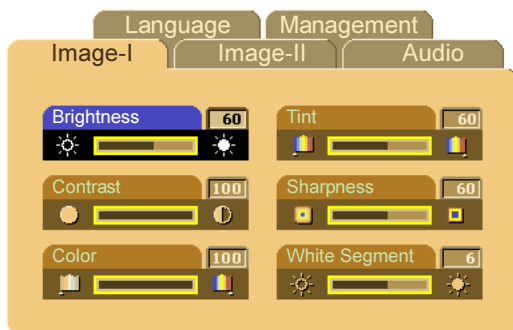
Adjust image distortion caused by tilting projection. (±16 degrees)

### 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 toward the minimum setting. For a smooth and more natural image, adjust toward the maximum setting.

# User Controls

## Video mode



## Image-I (Video mode)

### Brightness

Adjusting the brightness of the image.

- ▶ Press the ◀ to darken the 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

The color setting 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

The 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.

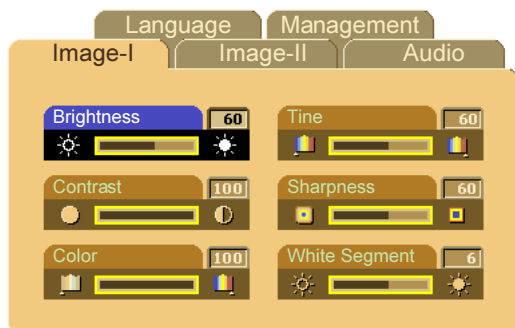
### Sharpness

Adjusting the sharpness of the image.

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

# User Controls

## Video mode



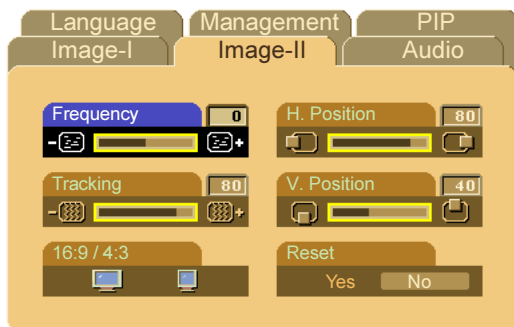
## Image-I (Video mode)

### 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 toward the maximum setting. For a smooth and more natural image, adjust toward the minimum setting.

# User Controls

## Computer mode



## Image-II (Computer mode)

### Frequency

"Frequency" is for changing the display data frequency to match the frequency of your computer's graphic card. When you experience a vertical flickering bar, use this function to make an adjustment.

### Tracking

Choose "Tracking" item to synchronize the signal timing of the display with that of the graphic card. When you experience an unstable or flickering image, use this function to correct it.

### 16 : 9 / 4 : 3

You can use this function to fit your desired aspect ratio type.

### Horizontal Position

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

### Vertical Position

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

### Reset

Choose "Yes" to return the display parameters back to factory default.



✦ **Reset** : Reset items include both Image-I and Image-II settings.

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# User Controls

## Video mode



## Image-II (Video mode)

### Keystone Correction

Adjust image distortion caused by tilting the projector. ( $\pm 16$  degrees)

### 16 : 9 / 4 : 3

You can use this function to fit your desired aspect ratio type.

### Color Temperature

Adjust the color temperature. The range is from "0" to "3". The factory default is "2". With the higher temperature, the screen looks colder; with the lower temperature, the screen looks warmer.

### Reset

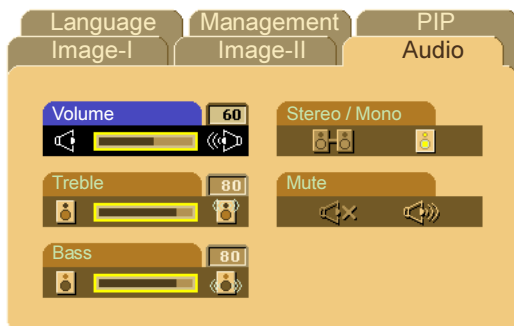
Choose "Yes" to return the display parameters back to factory default.



❖ **Reset** : Reset items include both Image-I and Image-II settings.

# User Controls

## 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.

### Stereo / Mono

- ▶ Mono  : Mono sound effect.
- ▶ Stereo  : Stereo sound effect.

### Mute

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



❖ The OSD does not include a PIP menu under Video mode.



# User Controls

## Computer / Video mode



## Language

### Language

You can display the multilingual OSD menu . Use the ▲ and ▼ key to select your preferred language.



❖ The OSD does not include a PIP menu under Video mode.

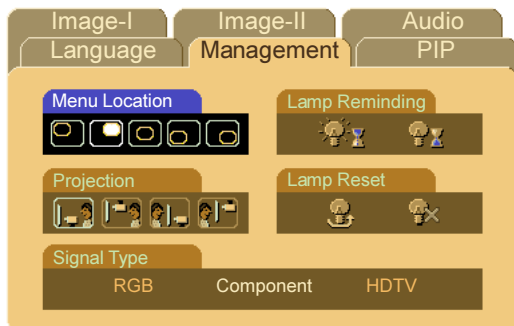


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# User Controls

## 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 between RGB, HDTV and Component video sources.

### Lamp Reminding

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

### Lamp Reset

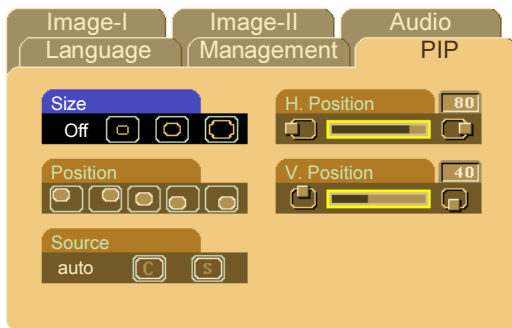
Reset the lamp setting only when the new lamp is replaced.



❖ The OSD does not include a PIP menu under Video mode.

# User Controls

## Computer mode



**PIP: Picture-In-Picture  
(Computer mode)**

### Size



Choose the PIP screen size. If you choose “Off” to turn off the PIP screen.

### Position



Choose the PIP screen position on the display screen.

### Source



Choose the input source of the projector.

- ▶ Auto : Automatically synchronizes the projector to the input source.
- ▶  : Select the input source to Composite video.
- ▶  : Select the input source to S-video.

### Horizontal Position

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

### Vertical Position

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



❖ The OSD does not include a PIP menu under Video mode.

# Appendices

## Troubleshooting

*If you are experiencing trouble with the projector, refer to the following. If the problem persists, please contact your local reseller or service center.*

### **Problem : No image appears on screen.**

- ▶ Ensure all the cables and power connections are correctly and securely connected as described in the "Installation" section.
- ▶ Ensure the pins of connectors are not crooked or broken.
- ▶ Check if the projection lamp has been securely installed. Please refer to the "Changing the lamp" section.
- ▶ Make sure you have removed the lens cap and the projector is switched on.

### **Problem : Partial, scrolling or incorrectly displayed image.**

- ▶ Press the "Re-Sync" button on the Remote Control or the Panel Control.
- ▶ If you use a PC:

If the resolution of your computer is higher than 1024 x 768. Follow the steps outlined below to reset the resolution.

#### For Windows 3.x:

1. In the Windows Program Manager, click the "Windows Setup" icon in the Main group.
2. Verify that your display resolution setting is less than or equal to 1024 x 768.

#### For Windows 95,98,2000,XP:

1. Open "My Computer" icon, the "Control Panel" folder, and then double click the "Display" icon.
2. Select the "Setting" tab.
3. In the "Desktop Area" you will find the resolution setting. Verify that the resolution setting is less than or equal to 1024 x 768 resolution.

**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.**

# Appendices

4. Follow above steps 1~2. Click on the “Advanced Properties” button.
  5. Select the “Change” button under the “Monitor” tab .
  6. Click on “Show all devices” . Then select “Standard monitor types” under the “Manufactures” box ; choose the resolution mode you need under the “Models” box.
  7. Verify that the resolution setting of the monitor display is less than or equal to 1024 x 768.
- ▶ If you are using a Notebook PC:
    1. You are required to implement above steps of resolution setting of computer first.
    2. Switch the Notebook PC display to the “external display only” or “CRT only” mode.
  - ▶ If you are experiencing difficulty in changing resolutions or your monitor freezes, restart all the equipment and the projector.

## **Problem : The screen of the Notebook or PowerBook computer is not displaying your presentation.**

- ▶ If you are using Notebook PC:  
Some Notebook PCs may deactivate their own computers’ screen when a second display device is in use. Each of them has a different way to be reactivated. Refer to your computer’s documentation for detailed information.
- ▶ If you are using an Apple PowerBook:  
In Control Panels, open the PowerBook Display to select Video Mirroring “On”.

## **Problem : Image is unstable or flickering**

- ▶ Use “Tracking” to correct it.
- ▶ Change the monitor color setting from your computer.

## **Problem : Image has vertical flickering bar**

- ▶ Use “Frequency” to make an adjustment.
- ▶ Check and reconfigure the display mode of your graphic card to make it compatible with the product.

# Appendices

**Problem : Image is out of focus**

- ▶ Adjust the Focus Ring on the projector lens.
- ▶ Make sure the projection screen is between the required distance 3.74ft.(1.14m)~ 39.37ft.(12m) from the projector.

**Problem : The screen is outstretched when displaying 16:9 DVD.**

The projector itself will automatically detect 16:9 DVD and adjust the aspect ratio by digitization to full screen with 4:3 default setting.

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

- ▶ Please select 4:3 aspect ratio type on your DVD player if you are playing a 16:9 DVD.
- ▶ If you can't select 4:3 aspect ratio type on your DVD player, please select 4:3 On Screen-Display(OSD) function of the projector for your display.

**Problem : Image is reversed.**

- ▶ To open "Menu" then select "Management" to adjust the projection.

**Problem : 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 back on until the lamp module has been replaced. To replace the lamp, follow the procedures in the "Changing the Lamp".

# Appendices

## Changing 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!

Make sure the projector has been cooled down for at least 30 minutes 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 Changing Procedure:

1. Turn off the power to the projector by pressing the Power/Standby button.
2. Allow the projector to cool down at least 30 minutes.
3. Disconnect the power cord.
4. Use screwdriver to remove the screw from the cover. ❶
5. Remove the cover. ❷
6. Remove the 2 screws from the lamp module. ❸
7. Pull out the lamp module. ❹

To replace the lamp module, reverse the previous steps.

# Appendices

## Specifications

|                        |                                                                                                                         |
|------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Light Valve            | - Single Chip DLP™ Technology                                                                                           |
| Lamp                   | - 150W User Replaceable P-VIP Lamp                                                                                      |
| Number of Pixels       | - 1024 pixels(H) X 768 lines(V)                                                                                         |
| Displayable Color      | - 16.7M colors                                                                                                          |
| Projection Lens        | - F/2.44~2.69 f=28.8~34.5mm with 1.2 x zoom & focus                                                                     |
| Projection Screen Size | - 23.4"~295.3" Diagonal                                                                                                 |
| Projection Distance    | - 3.74~39.37 ft (1.14m~12m)                                                                                             |
| Video Compatibility    | - NTSC/NTSC 4.43/PAL/PAL-M/PAL-N/SECAM and HDTV compatible                                                              |
|                        | - Composite video & S-Video capability                                                                                  |
| H. Frequency           | - 15kHz~100kHz horizontal scan                                                                                          |
| V. Frequency           | - 43Hz~120Hz vertical refresh                                                                                           |
| Multimedia Audio       | - One internal speakers with 2 watts output                                                                             |
| Power Supply           | - Universal AC input 100~240V ;<br>Input Frequency 50/60Hz                                                              |
| Power Consumption      | - 220 watts at normal operation                                                                                         |
| Noise level            | - 32 dBA                                                                                                                |
| I/O Connectors         | - Power: AC power input socket                                                                                          |
|                        | - Computer Input:<br>One 35-pin VESA M1-DA for Analog RGB/<br>Digital/Component Video/HDTV/USB mouse<br>One RS232 input |
|                        | - Computer Output<br>One 15-pin D-sub computer output                                                                   |
|                        | - Video Input:<br>One Composite video RCA input<br>One S-Video input                                                    |
|                        | - Audio Input: One phone jack for mono audio input                                                                      |
| Dimensions (W x H x D) | - Without lens: 9.68x8.05x2.8 inches (246x204 x71 mm)<br>With lens: 9.68x8.73x3.1 inches (246x222x79 mm)                |
|                        | - Operating Temperature: 50°F~104°F (10°C~ 40°C)<br>Humidity: 80% maximum                                               |
|                        | - Storage Temperature: -4°F~140°F (-20°C~60°C)<br>Humidity: 80% maximum                                                 |
| Safety Regulation      | - FCC Class B, CE Class B, VCCI-II, UL, cUL, TÜV, CCC, PSE                                                              |



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# Appendices

## Compatibility Modes

| Mode        | Resolution  | (ANALOG)            |                      | (DIGITAL)           |                      |
|-------------|-------------|---------------------|----------------------|---------------------|----------------------|
|             |             | V.Frequency<br>(Hz) | H.Frequency<br>(kHz) | V.Frequency<br>(Hz) | H.Frequency<br>(kHz) |
| VESA VGA    | 640 X 350   | 70                  | 31.5                 | 70                  | 31.5                 |
| VESA VGA    | 640 X 350   | 85                  | 37.9                 | 85                  | 37.9                 |
| VESA VGA    | 640 X 400   | 85                  | 37.9                 | 85                  | 37.9                 |
| VESA VGA    | 640 X 480   | 60                  | 31.5                 | 60                  | 31.5                 |
| VESA VGA    | 640 X 480   | 72                  | 37.9                 | 72                  | 37.9                 |
| VESA VGA    | 640 X 480   | 75                  | 37.5                 | 75                  | 37.5                 |
| VESA VGA    | 640 X 480   | 85                  | 43.3                 | 85                  | 43.3                 |
| VESA VGA    | 720 X 400   | 70                  | 31.5                 | 70                  | 31.5                 |
| VESA VGA    | 720 X 400   | 85                  | 37.9                 | 85                  | 37.9                 |
| SVGA        | 800 X 600   | 56                  | 35.2                 | 56                  | 35.2                 |
| SVGA        | 800 X 600   | 60                  | 37.9                 | 60                  | 37.9                 |
| SVGA        | 800 X 600   | 72                  | 48.1                 | 72                  | 48.1                 |
| SVGA        | 800 X 600   | 75                  | 46.9                 | 75                  | 46.9                 |
| SVGA        | 800 X 600   | 85                  | 53.7                 | 85                  | 53.7                 |
| VESA XGA    | 1024 X 768  | 43.4                | 35.5                 | 43.4                | 35.5                 |
| VESA XGA    | 1024 X 768  | 60                  | 48.4                 | 60                  | 48.4                 |
| VESA XGA    | 1024 X 768  | 70                  | 56.5                 | 70                  | 56.5                 |
| VESA XGA    | 1024 X 768  | 75                  | 60.0                 | 75                  | 60.0                 |
| VESA XGA    | 1024 X 768  | 85                  | 68.7                 | -                   | -                    |
| * VESA SXGA | 1280 X 1024 | 60                  | 63.98                | -                   | -                    |
| * VESA SXGA | 1280 X 1024 | 75                  | 79.98                | -                   | -                    |
| MAC LC13"   | 640 X 480   | 66.66               | 34.98                | -                   | -                    |
| MAC II 13"  | 640 X 480   | 66.68               | 35                   | -                   | -                    |
| MAC 16"     | 832 X 624   | 74.55               | 49.725               | -                   | -                    |
| MAC 19"     | 1024 X 768  | 75                  | 60.24                | -                   | -                    |
| * MAC       | 1152 X 870  | 75.06               | 68.68                | -                   | -                    |
| MAC G4      | 640 X 480   | 60                  | 31.35                | -                   | -                    |
| MAC G4      | 640 X 480   | 120                 | 68.03                | -                   | -                    |
| MAC G4      | 1024 X 768  | 120                 | 97.09                | -                   | -                    |
| MAC DV      | 640 X 480   | 11.7                | 60                   | -                   | -                    |
| I MAC DV    | 800 X 600   | 95                  | 60                   | -                   | -                    |
| I MAC DV    | 1024 X 768  | 75                  | 60                   | -                   | -                    |
| * I MAC DV  | 1152 X 870  | 75                  | 68.49                | -                   | -                    |
| * I MAC DV  | 1280 X 960  | 75                  | 75                   | -                   | -                    |
| * I MAC DV  | 1280 X 1024 | 75                  | 90.9                 | -                   | -                    |

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