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# Usage Notice

## Precautions

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

-  **Warning-** Do not look into the lens. The bright light may cause eye injury.
-  **Warning-** To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.
-  **Warning-** To prevent the risk of electric shock, do not open or disassemble the product.
-  **Warning-** Please allow the unit to cool down before changing the lamp; carefully follow the lamp replacement instructions listed under “ Replacing the lamp.”
-  **Warning-** This product self-detects the life cycle of the lamp and will display a warning message when the lamp is about to expire. Be sure to replace the lamp when it displays warning messages.
-  **Warning-** After installing a new lamp, reset the lamp life using the onscreen menu.
-  **Warning-** Before turning off the product, follow the cooling fan to run for several minutes.
-  **Warning-** Turn on the projector first and then select the signal sources.
-  **Warning-** When the lamp reaches the end of its life, it will burn out and may make a loud “popping” sound. If this occurs, 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.”

# Usage Notice

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**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.

**Do not:**

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

# Introduction

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## Product Features

*This product is a WXGA single chip 0.79-inch DLP™ projector featuring:*

- ◆ True WXGA resolution 1280 x 720 addressable pixels
- ◆ 17-pounds (7.72 kgs) compact design
- ◆ Single chip DLP™ technology
- ◆ Power zoom and focus
- ◆ HDTV compatible (480i/p, 576i/p, 720p, 1080i )
- ◆ NTSC/PAL/SECAM, and HDTV compatible
- ◆ Hi-tech DVI-I connection for digital and analog video connectivity
- ◆ IR remote control
- ◆ User-friendly multilingual onscreen display menu
- ◆ Advanced electronic keystone correction
- ◆ User-friendly control panel
- ◆ SXGA compression
- ◆ 250-watt replaceable UHP lamp
- ◆ Vertical lens shift
- ◆ HDCP compliant

# Introduction

## Package Overview

*This projector comes with all the items shown below. Check to make sure your unit is complete.*



Projector Unit



Power Cord



IR Remote Control



User's Manual/  
Warranty Card



Battery x 2



S-Video Cable

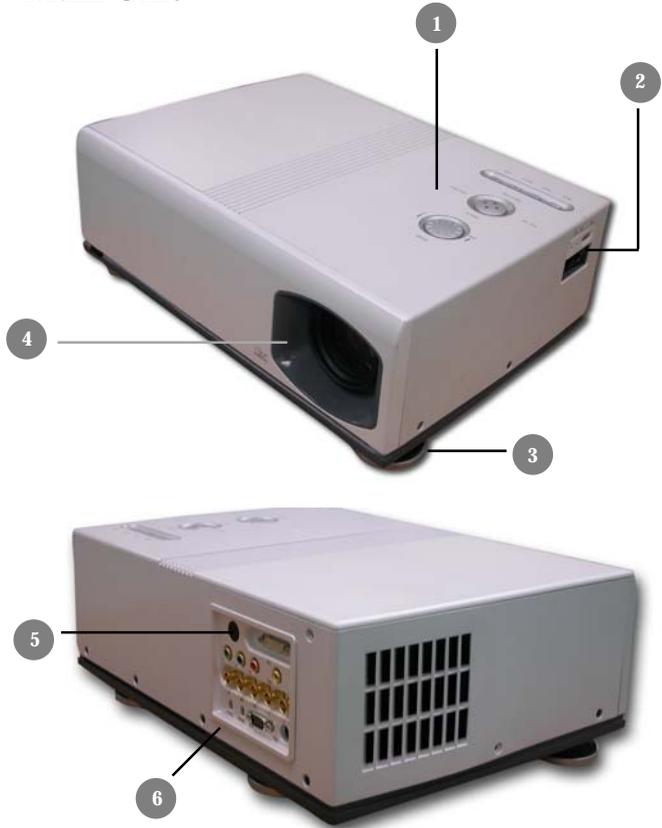


- ❖ Due to the difference in applications for each country, some regions may have different accessories.

# Introduction

## Product Overview

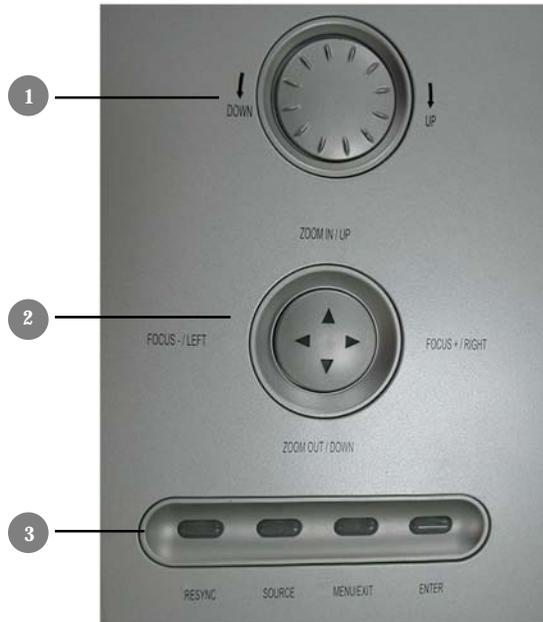
### Main Unit



1. Control Panel
2. Power Socket & Power Switch
3. Height Adjustment Foot
4. Lens
5. IR Receiver
6. Connection Ports

# Introduction

## Control Panel



1. Lens Shift (Up/Down)
2. Zoom/Focus Shift
  - Zoom: Up/Down
  - Focus: Right/Left
3. Key Pad
  - Resync
  - Source
  - Menu/Exit
  - Enter

# Introduction

## Connection Ports



- 1 Lamp/Temp & Power LEDs
2. Power Socket
3. Power Switch
4. IR Receiver
5. Component Connector
6. BNC Connector
7. +12V Relay Connectors
8. RS-232 Connector
9. S-Video Input Connector
10. Composite Video Input Connector
11. DVI-I Input Connector

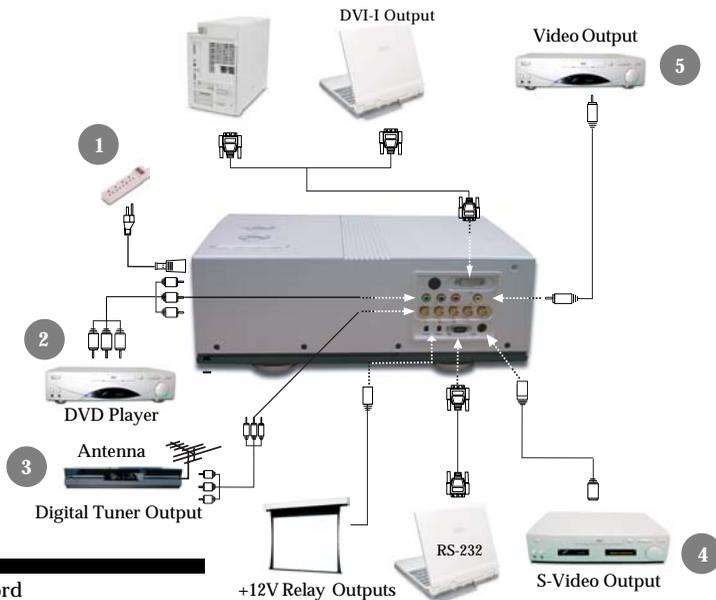
# Introduction

## Wireless Remote Control



# Installation

## Connecting the Projector



1. Power Cord
2. RCA Component Cable for YPbPr
3. BNC Cable for RGB/Component
4. S-Video Cable
5. Composite Video Cable

❖ *To ensure that the projector properly displays source material from your computer, please configure the display settings of your graphics card to less than or equal to 1280 x 720 resolution. Be sure that the timing of the display setting is compatible with the projector.*

# 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 main power switch on the side of the projector. ❷
4. Turn on the lamp by pressing the “Power” button on the side of the projector. ❸

The startup screen will display in approximately one minute.

5. Turn on your source (computer, notebook, video player etc), the projector will automatically detect your source.
- ❖ *If the screen displays “No Signal,” 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 control panel to select your desired source.*



- ❖ Turn on the projector first and the signal sources next.



# Installation

## Powering Off the Projector

1. Press the “Power” button to turn off the projector lamp.
2. After pressing the “Power” button, you will see the message “Power off the lamp? Video Mute” displayed on the projector’s screen. Press the “Power” button again to confirm, otherwise the message will disappear after five seconds.  
Please note that if the  key is pressed instead, the projector will enter the “Video Mute” mode and no image will be displayed. To exit the “Video Mute” mode, press the “Power” button again.
3. The “Power” LED indicator will flash for about 120 seconds while the lamp cools. After the “Power” indicator stops flashing, you may then turn off the main power switch on the side of the projector. If you want to turn on the projector, you must press “Power” within 90 seconds of when the “Power” indicator light begins to flash.
4. Do not restart the projector immediately following a power off procedure.

❖ *Note: If the “TEMP” indicator flashes orange for approximately ten seconds, the projector will display “Fan Fail.” Please contact your local reseller or service center.*

❖ *Note: If the “TEMP” indicator illuminates orange, the projector has overheated. The projector will display “Over Temperature.” The projector will then automatically shut down. Under normal conditions, the projector may be restart. However, if the problem persists, you should contact your local reseller or service center.*

❖ *Note: If the “LAMP” indicator illuminates red, the lamp may of failed. Please contact your local reseller or service center.*

# Installation

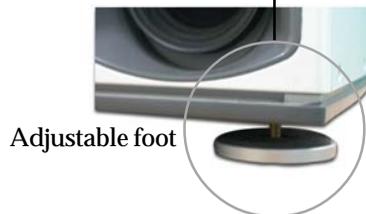
## Adjusting the Projected Image

### Adjusting the Projector's Height

*The projector is equipped with four adjustable feet to modify the height of the projector.*

To raise or lower the projector :

1. Locate the adjustable foot you wish to modify on the under side of the projector.
2. Rotate the foot counterclockwise 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

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## Adjusting the Projector's Zoom/Focus

You may adjust the Zoom shift to zoom the lens in or out. Press ▲ to zoom in or ▼ to zoom out. To adjust focus of an image, press the focus shift buttons ◀ and ▶. The projector will focus at distances from 3.28 to 32.80 feet (1.19 to 10m).



# User Controls

## Control Panel & Remote Control

There are two ways for you to control the functions: with control panel and remote control.

### Control Panel



### Remote Control



## Using the Remote Control

### Power

- ▶ “Power” turns on the projector’s lamp, refer to the “Powering On/Off the Projector” section on page 11~ 12 for more details.

### Hide

- ▶ “Hide” immediately turns the screen black. Press “Hide” a second time to restore the display.

### Brightness

- ▶ Adjust the brightness of the image.

### Freeze

- ▶ Press “Freeze” to pause the screen image.

# User Controls

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## **Contrast**

- ▶ “Contrast” controls the degree of difference between the lightest and darkest parts of the picture.

## **Hue**

- ▶ “Hue” adjusts the color balance from red to green.

## **H.Keystone & V.Keystone**

- ▶ Correct image distortion caused by rotating and tilting the projector.

## **Re-Sync**

- ▶ Automatically synchronizes the projector to the input source.

## **Zoom**

- ▶ Press “Zoom” to display the zoom menu.  
Press ▲ or ▼ button to zoom in or zoom out of an image.

## **Focus**

- ▶ Press “Focus” to display the focus menu, then use ▲ or ▼ to focus in or out of an image.

## **Format**

- ▶ Display the “Format” section of the onscreen display menu to select the desired aspect ratio.

## **Menu/Exit**

- ▶ Display or exits the onscreen display menu.

## **Four Directional Select Keys**

- ▶ Use ▲ ▼ to zoom the lens in or out.
- ▶ Use ◀ ▶ to focus the image.
- ▶ Or Press “Menu/Exit” then use ▲ ▼ ◀ ▶ to select items or make adjustments to your selection.

## **Enter**

- ▶ Confirm your item selection.

## **S-Video**

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

## **Composite**

- ▶ Press “Composite” to choose video source.

## **BNC**

- ▶ Press “BNC” to choose Analog RGB or YPbPr video from the BNC input.

# User Controls

## DVI

- ▶ Press “DVI” to select input from the DVI-I connector

## RCA

- ▶ Press “RCA” to select input from the RCA component video connector.

## Using the Control Panel

### Power

- ▶ The power switch is located near the power socket on the side of the projector. Use it to power on/off the projector. Please refer to the “Powering On/Off the Projector” section on pages 11~ 12.

### Lens Shift

- ▶ Turn the Lens Shift dial clockwise to shift the projected image in an up ward direction. Turn the Lens Shift dial counter clockwise to shift the projected image in a down ward direction.

### Zoom/Focus

- ▶ Press ▲ or ▼ to zoom in or out.
- ▶ Press ◀ or ▶ to focus the image.
- ▶ Press “Menu/Exit,” then use ▲ ▼ ◀ ▶ to select items or make adjustments to your selection.

### Re-Sync

- ▶ Automatically synchronizes the projector to the input source.

### Source

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

### Menu/Exit

- ▶ Display or exit the the onscreen display menus.

### Enter

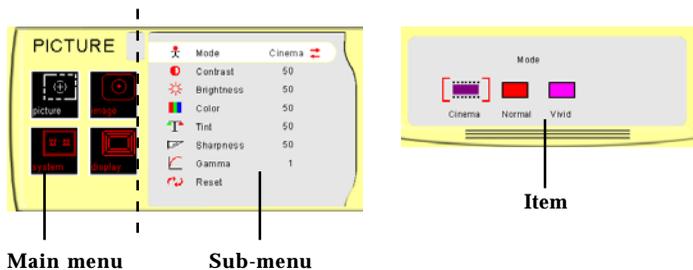
- ▶ Confirm your selection.

# User Controls

## Onscreen Display Menus

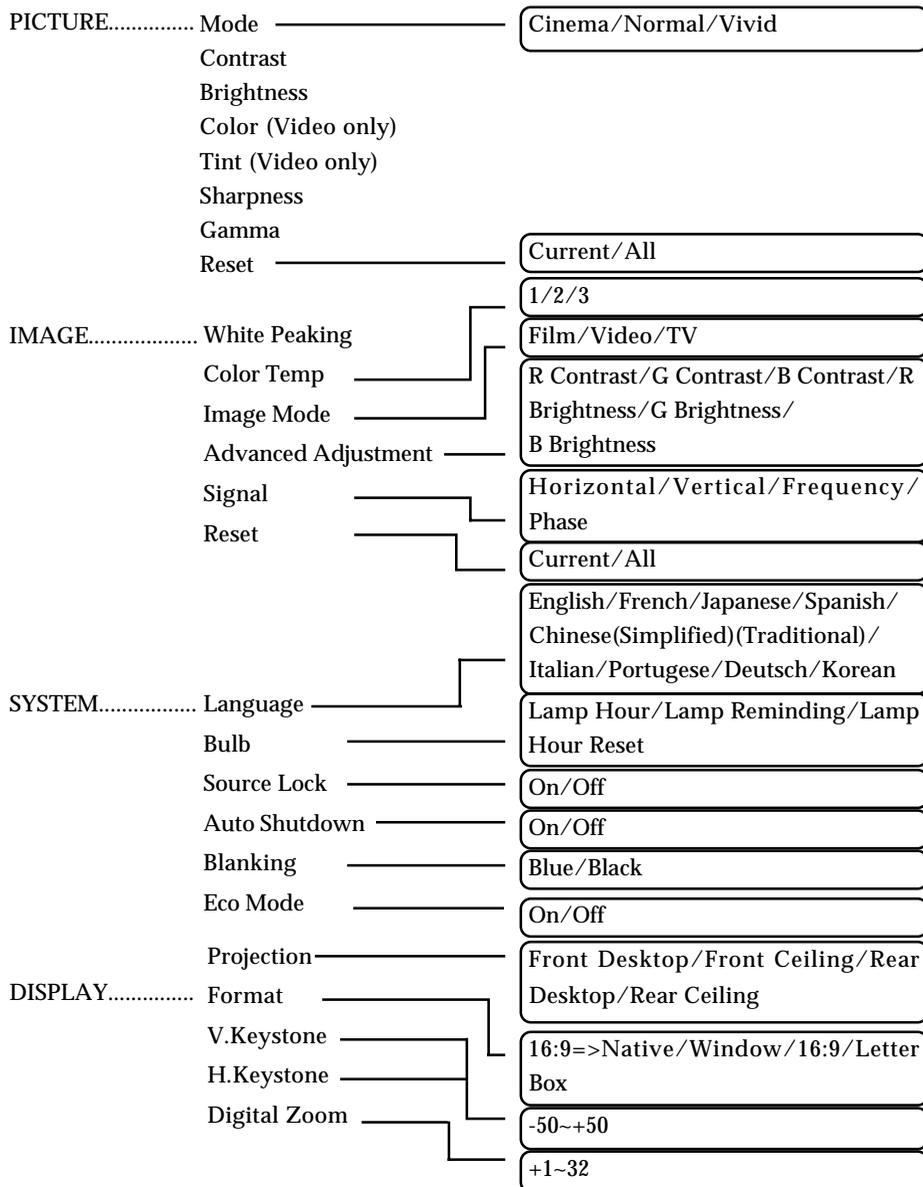
### How to Operate

- ▶ The projector has multilingual onscreen display menus that allow you to make image adjustments and change a variety of settings. The projector automatically detects the source.
- ▶ To launch the menu, press “Menu/Exit” on the Remote Control or Control Panel.
- ▶ When the main menu is displayed, use ▲ ▼ ◀ ▶ to select it. While making a selection, press “Enter” to go into the sub-menu.
  - ◆ To exit the menu, press “Menu/Exit”.
- ▶ When a sub-menu is displayed, use ▲ ▼ to select the desired item and adjust the settings with ◀ ▶.
  - ◆ To exit the sub-menu, press “Menu/Exit”.
- ▶ After using ◀ ▶ to make selections to the sub-menu, press “Enter” to confirm your changes and return to the the main menu.
  - ◆ Press “Menu/Exit” to return to the main menu. If you don’t press “Enter” to confirm your changes and exit the menu, the items will not to be modified.

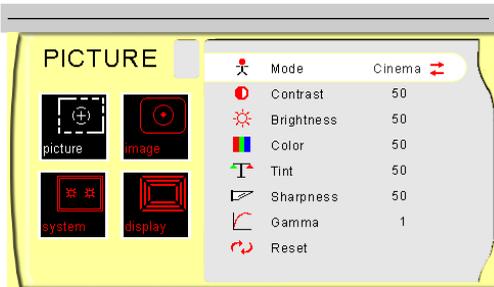


# User Controls

## Menu Tree



# User Controls



## PICTURE

### Mode

There are three factory presets optimized for various types of pictures: Cinema, Normal, and Vivid. You can customize contrast, brightness, intensity, color, tint, sharpness, and gamma for each preset mode.

### Contrast

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 with an image.

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

### Brightness

Adjust the brightness of the image.

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

### Color

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

- ▶ Press ◀ to decrease the amount of color in an image.
- ▶ Press ▶ to increase the amount of color in an image.

### Tint

Adjust the color balance of red and green.

- ▶ Press ◀ to increase the amount of green in an image.
- ▶ Press ▶ to increase the amount of red in an image.

### Sharpness

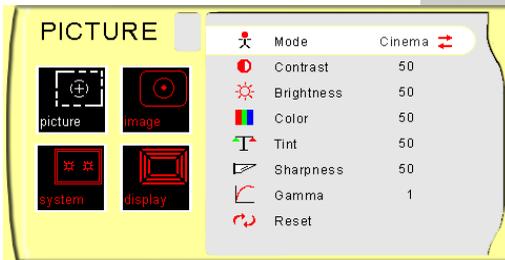
Adjust the sharpness of an image.

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



- ❖ The “Color” sub menu is not supported under the digital RGB input source.
- ❖ The “Tint” sub menu is not supported under the digital RGB, component video or analog RGB input sources.

# User Controls



## PICTURE

### Gamma

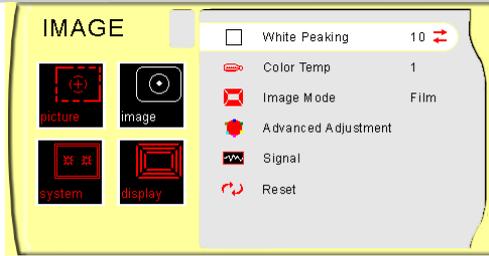
Gamma affects how dark scenery is displayed. With a greater gamma value, dark scenery will appear brighter. Use ◀ ▶ to adjust gamma values.

### Reset

Return the adjustments and settings to factory default values.

- ▶ Current: Returns the current menu's settings to factory default values.
- ▶ All: Returns the settings for all menus to factory default values.

# User Controls



## IMAGE

### White Peaking

Use the white segment control to set the white peaking level of the 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 smoother, more natural image, adjust toward the minimum setting.

### Color Temp

Adjust the color temperature. The range is from “1” to “3.” At a higher temperature, the screen looks colder; at a lower temperature, the screen looks warmer.

### Image Mode

There are three factory presets optimized for various types of images:

- ▶ Film : For home theater
- ▶ Video : For video mode
- ▶ TV : For TV

### Advanced Adjustment

Use ◀ or ▶ to select R (Red), G (Green), or B (Blue) for brightness and contrast.

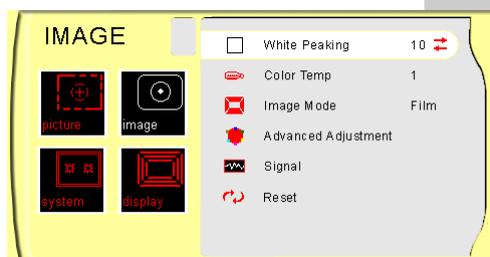
### Signal

- ▶ Horizontal: Adjusts the horizontal position.
- ▶ Vertical: Adjusts the vertical position.
- ▶ Frequency: Changes 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.
- ▶ Phase : Synchronizes the signal timing of the display with the graphics card. If you experience an unstable or flickering image, use this function to correct it.



❖ The “Signal” sub menu is supported under the Analog RGB and Analog YPbPr input sources.

# User Controls



## IMAGE



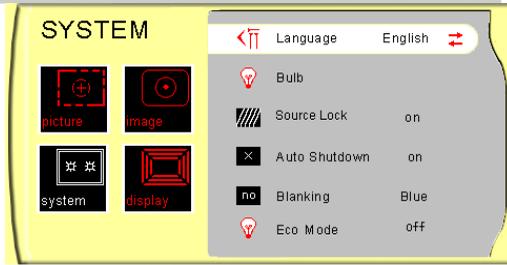
- ❖ The “Deinterlacing” sub menu is supported under the S-video, composite video, and component video input sources.

### Reset

Return the adjustments and settings to factory default values.

- ▶ **Current:** Return the current menu’s settings to factory default values.
- ▶ **All:** Return all menu settings to factory default values.

# User Controls



## SYSTEM

### Language

Display a multilingual menu. Use ◀ and ▶ to select your preferred language.

### Bulb

- ▶ Lamp Hour: Display the cumulative lamp operating time.
- ▶ Lamp Reminding: Select this function to show or hide the warning message when the lamp replacing reminder message is displayed. The message will show up when the lamp reaches 1,500 hours at normal mode.
- ▶ Lamp Hour Reset: Reset the lamp life hour after replacing a new lamp.

### Source Lock

When source lock is turned off, the projector will search for other signals if the current input signal is lost. When source lock is turned on, it will continue to search for the “lost signal” after “Source “ is pressed.

### Auto Shutdown

Determine the time interval to shutdown the system if there is no signal input. Select “On” in the Auto Shutdown menu to turn the projector off automatically.

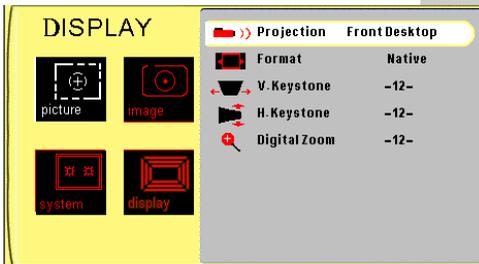
### Blanking

Use this feature to display a black or blue screen when there is no signal is available.

### Eco Mode

This is also known as “Economy Mode.” Selecting “On” decreases the fan noise from the projector as well as increasing the contrast ratio and reducing the brightness. You may find this is the best mode for watching movies.

# User Controls

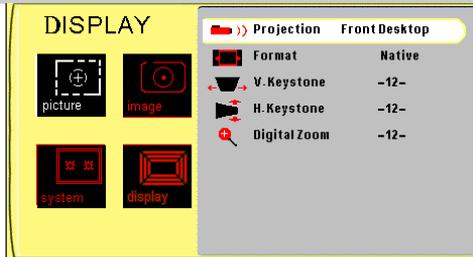


## DISPLAY

### Projection

- ▶  **Front-Desktop**  
The factory default setting.
- ▶  **Rear-Desktop**  
When you select this function, the projector reverses the image so you can project from 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 inverts the image at same time. Using this setting enables you to project from behind a translucent screen with ceiling mounted projection.

# User Controls



## DISPLAY

### Format

- ▶ Native: Original image size.
- ▶ 16:9: The standard widescreen display format of the projector
- ▶ Letterbox: Letterbox mode zooms a letterboxed image intended for 4:3 display to full screen wide.



Original



The letterbox

- ▶ 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.



Original



Window

### V. Keystone

Correct image distortion caused by tilting the projector vertically.

### H. Keystone

Correct image distortion caused by rotating the projector horizontally.

### Digital Zoom

Provide different magnification ratios to zoom an image. Images will be centered after zooming.

## 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.*

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

- ▶ Ensure that all the cables and power cord are correctly and securely connected as described in the “Installation” section.
- ▶ Ensure that connector pins are not bent or broken.
- ▶ Make sure that the projection lamp has been securely installed. Please refer to the “Replacing the lamp” section.
- ▶ Ensure that you have removed the lens cap and that the projector is turned on.
- ▶ Ensure that the “Hide” feature is not enabled.

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

- ▶ Press “Re-Sync” on the remote control or control panel.
- ▶ If using a PC:
  - For Windows 3.x:
    1. In the Windows Program Manager, double click the “Windows Setup” icon in the Main group.
    2. Verify that your display resolution setting is less than or equal to 1280 x 720.

#### For Windows 95, 98, 2K, XP:

1. Open the “My Computer” icon. Next, open the “Control Panel” folder, and double click the “Display” icon.
2. Select the “Settings” tab.
3. (Above in “Windows 3.x). Click on the “Advanced Properties” button. Verify that your display resolution setting is less than or equal to 1280x720.

**If the projector is still not projecting the image, you may need to adjust your monitor display setting. To do this, please refer to the following instructions.**

# Appendices

4. Verify the resolution is less than or equal to 1024 x 768.
  5. Select the “Change” button under the “Monitor” tab .
  6. Click on “Show all devices. ” Next, select “Standard monitor types” under the SP 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 1280 x 1024.
- ▶ If using a Notebook PC:
    1. First, follow the steps above to adjust resolution of the computer.
    2. Switch the Notebook PC display to the “external display only” or “CRT only” mode.
  - ▶ If you experience difficulty changing resolutions or your monitor freezes, restart all the equipment including the projector.

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

- ▶ **If 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 of reactivating. Refer to your computer’s documentation for detailed information.

**Problem: Image is unstable or flickering**

- ▶ Use “Phase” to correct it. See page 22 for more information.
- ▶ Change the monitor color setting on your computer.

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

- ▶ Use “Frequency” to make an adjustment. See page 22 for more information.
- ▶ Check and reconfigure the display mode of your graphics card to ensure compatibility.

# Appendices

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**Problem: Image is out of focus**

- ▶ Adjust the focus using the remote control.

**Problem: Image is reversed.**

- ▶ Press “Menu,” then select “Display” to adjust the projection setting.

**Problem: Lamp burns out or makes a popping sound**

- ▶ If the lamp makes a loud popping sound, it has most likely expired. The projector will not turn on until the lamp module has been replaced. To replace the lamp, follow the procedure in the “Replacing the Lamp” section on page 30.

# Appendices

## Replacing the Lamp

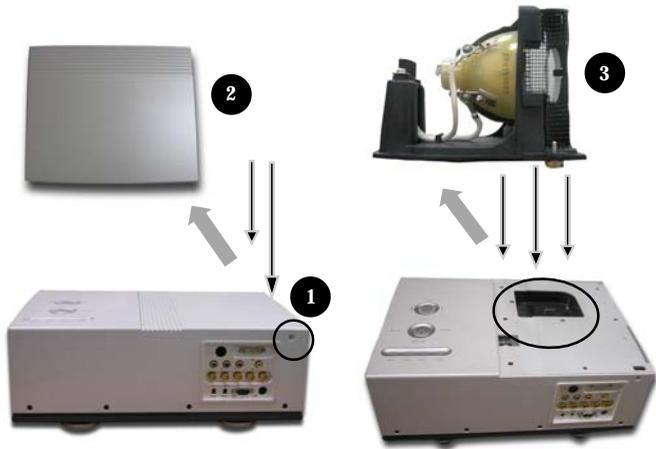
The projector displays a warning message “Lamp may fail soon ! Replacement Suggested !” When you see this message, please contact your local reseller or service center.

Make sure the projector has cooled down for at least 30 minutes before changing the lamp.



### ⚠ Warning:

Lamp compartment is hot! Allow it to cool down before changing lamp!



### Lamp Replacing Procedure:

1. Turn off the power to the lamp by pressing the power button.
2. Allow the projector to cool down at least 30 minutes.
3. Turn off the main power switch.
4. Disconnect the power cord.
5. Use screw driver to remove the screw on the side of projector as indicated above ❶.
6. Remove the cover. ❷
7. Remove the lamp module. ❸

To replace the lamp module, reverse the above mentioned steps.



⚠ Warning: To reduce the risk of personal injury, avoid dropping the lamp module or touching the lamp bulb. If dropped, the bulb may shatter and cause injury.