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PROJECTOR OWNER'S MANUAL

Optoma

HD72i

Need a replacement lamp for this projector?

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English

Safety Information

	The lightning flash with arrowheard 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 import operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE 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.
   - Liquid has been 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 hurt 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 page 40.
- Warning- This projector will detect the life of the lamp itself. Please be sure to change the lamp when it shows warning messages.
- Warning- Reset the "Lamp Reset" function from the on-screen display "Options | Lamp Settings" menu after replacing the lamp module (refer to page 34).
- Warning- When switching the projector off, please ensure the cooling cycle has been completed before disconnecting power. Allow 90 seconds for the projector to cool down.
- Warning- Do not use lens cap when projector is in operation.
- Warning- When the lamp is approaching to the end of its life time, the message "Replacement suggested" will show on the screen. Please contact your local reseller or service center to change the lamp as soon as possible.

NOTE

❖ 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 page 40.

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 ventilation slots and openings on the unit.
- Use abrasive cleaners, waxes or solvents to clean the unit.
- Use under the following conditions:
  - In extremely hot, cold or humid environments.
  - 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 beam at all times.
- Minimize standing facing into the beam. Keep your back to the beam as much as possible.
- A stick or laser pointer is recommended to avoid the need for the user 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 rather than floor or table-mounting the projector.
- 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 an WXGA single chip 0.65" DLP™ projector. Outstanding features include:

- Single 16:9 1280 x 768 Dark Chip2™ DLP™ technology
- Dual resolution support:
  -16:10 (1280 x 768)
  -16:9 (1280 x 720) native for 720P HDTV capability
- Uses 7 segment color wheel GRBWGRB cycle
- 480i - NTSC/NTSC4.43
- 576i - PAL/PAL-M/PAL-N/SECAM
- HDTV compatible (480p, 576p, 720p, 1080i)
- Deinterlacer Faroudja DCDi®
- Full function IR remote control with back light
- Advanced 2D digital keystone correction and high quality full screen image re-scaling
- User friendly control panel
- SXGA+, SXGA compression and HD, XGA, SVGA, VGA re-sizing
- Macintosh compatible
- Optoma's patent-pending O_2Air™ Photo Catalyst air purification technology
- HDMI & DVI support with HDCP compliant
- True Vivid and Brilliant Color™ Image technology
- 16:10 / 16:9, integrate with complete image function: Format, Overscan, Digital Image Shift construction (Vertical/Horizontal)

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



S-Video Cable 1.8m



Composite Video Cable 1.8m



RCA Component Cable for YPbPr 2.0m



RS232 Cable 1.8m

NOTE

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



IR Remote Controller

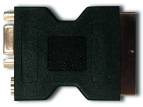


2 x AA Batteries

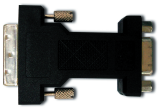
Documentation :

- ☑ User's Manaul
- ☑ Warranty Card
- ☑ Quick Start Card

Available in European version only



SCART RGB/S-Video Adaptor



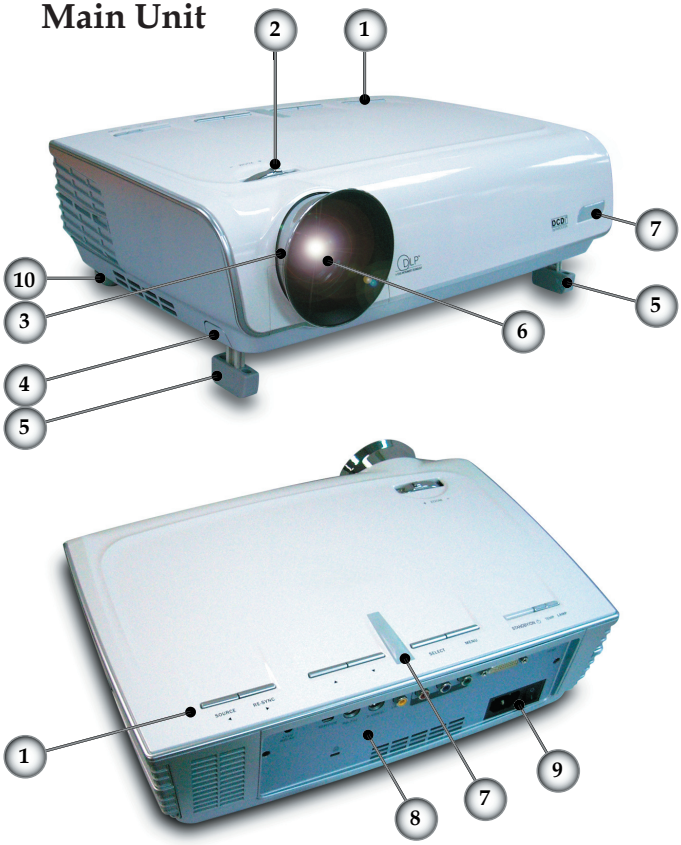
DVI to VGA Adaptor



VGA Cable 1.8m

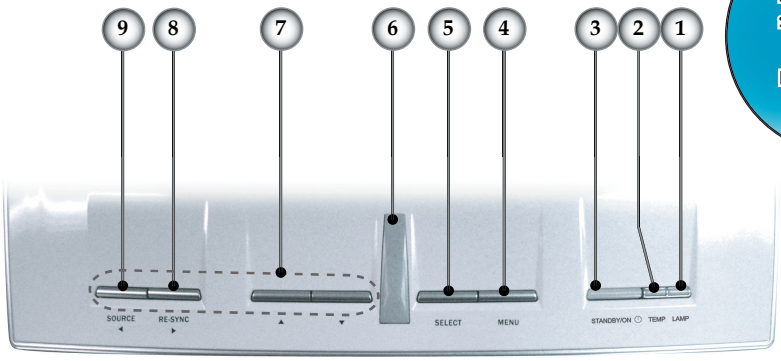
Product Overview

Main Unit



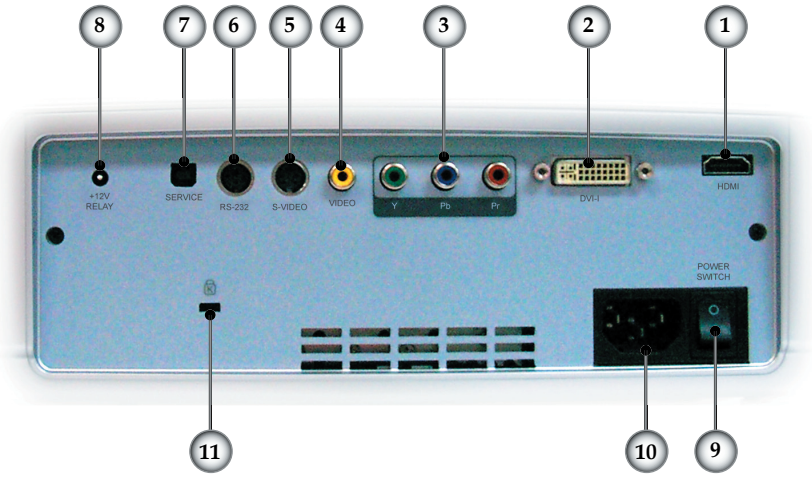
1. Control Panel
2. Zoom Lever
3. Focus Ring
4. Elevator Button (one on each side)
5. Elevator Feet
6. Zoom Lens
7. IR Receivers
8. Connection Ports
9. Power Socket & Main Power Switch
10. Tilt-Adjustment Feet

Control Panel



1. Lamp Indicator LED
2. Temp Indicator LED
3. Standby/On LED
4. Menu (On/Off)
5. Select (Enter)
6. IR Receiver
7. Four Directional Select Keys
8. Re-Sync
9. Source Select

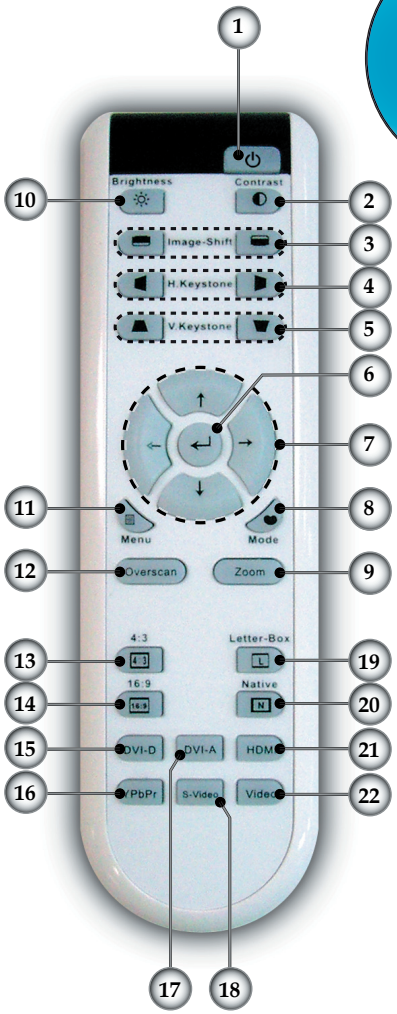
Connection Ports



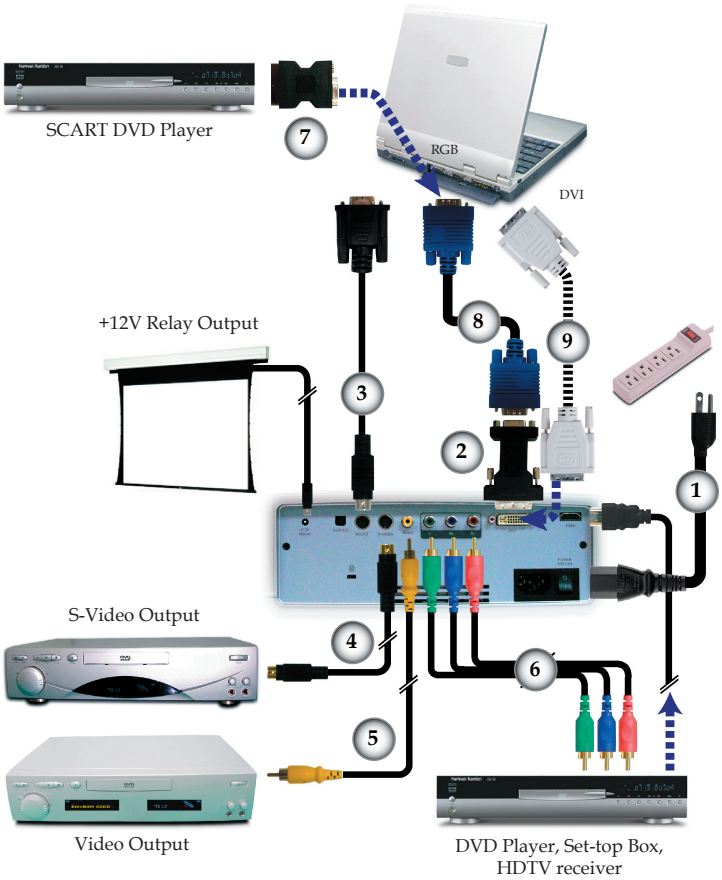
1. HDMI Connector
2. DVI-I Input Connector (PC Digital and DVI-HDCP)
3. Component Video Input Connector
4. Composite Video Input Connector
5. S-Video Input Connector
6. RS232 Input Connector
7. Service Connector
8. +12V Relay Connector
9. Main Power Switch
10. Power Socket
11. Kensington Microsaver™ Lock Port

Remote Control

1. Power On/Off
2. Contrast
3. Image Shift
4. H. Keystone
5. V. Keystone
6. Select (Enter)
7. Four Directional Select Keys
8. Display Mode
9. Zoom
10. Brightness
11. Menu
12. Overscan
13. 4:3
14. 16:9
15. DVI-D Source
16. YPbPr Source
17. DVI-A Source
18. S-Video
19. Letter-Box
20. Native
21. HDMI Source
22. Composite Video Source



Connecting the Projector



NOTE

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

1. .....Power Cord
2. ..... DVI to VGA Adaptor (For European Only)
3. ..... RS232 Cable
4. .....S-Video Cable
5. ..... Composite Video Cable
6. .....RCA Component Cable for YPbPr
7. .....SCART RGB/S-Video Adaptor (For European Only)
8. ..... VGA Cable (For European Only)
9. ..... DVI Cable (Optional Accessory)

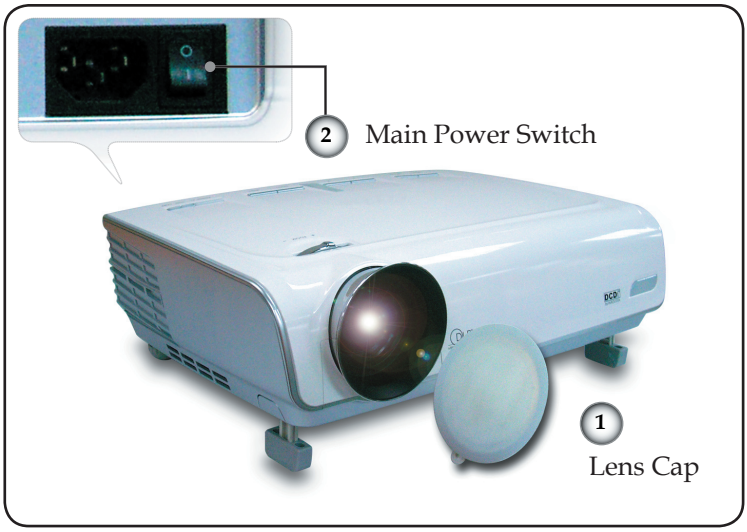
Powering On/Off the Projector

Powering On the Projector

1. Remove the lens cap. ❶
2. Ensure that the power cord and signal cable are securely connected and turn on Main power switch. Ensure that the button on the back of the projector is turned on. ❷ The Power LED will flash green.
3. Turn on the lamp by pressing "Standby/On" button either on the top of the projector or on the remote. The Power LED will turn green.

   The startup screen will display in approximately 30 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 connected 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.



NOTE

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

Powering Off the Projector

1. Press the "Standby/On" button to turn off the projector lamp, you will see a message displayed on the projector's screen.



   Press the "Standby/On" button again to confirm, otherwise the message will disappear after 5 seconds.
2. The cooling fans continue to operate for about 30 seconds for cooling cycle and the Power LED will turn green. When the Power LED 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 "Standby/On" button to restart the projector.
3. Disconnect the power cord from the electrical outlet and the projector.
4. Do not turn on the projector immediately following a power off procedure.

Warning Indicator

- When the "LAMP" indicator lights solid red, the projector will automatically shut itself down. Please contact your local reseller or service center. See page 43.

- When the "TEMP" indicator lights solid 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 page 43.

- When the "TEMP" indicator flashes red, it indicates the fan has failed. Please contact your local dealer or our service center. See page 43.

Adjusting the Projected Image

Adjusting the Projector's Height

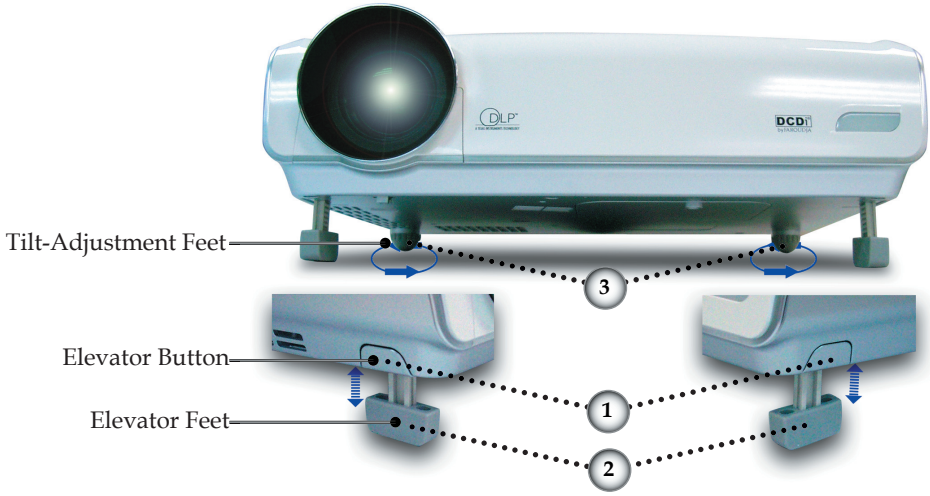
The projector is equipped with elevator feet for adjusting the image height.

To raise the image:

1. Press the elevator button ❶.
2. Raise the image to the desired height angle ❷, then release the button to lock the elevator feet into position.
3. Use screw in feet ❸ to fine-tune the display angle.

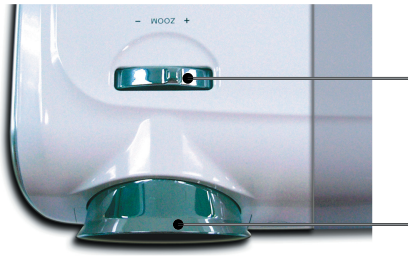
To lower the image:

1. Press the elevator button.
2. Lower the image, then release the button to lock the elevator feet into position.
3. Use screw in feet ❸ to fine-tune the display angle.

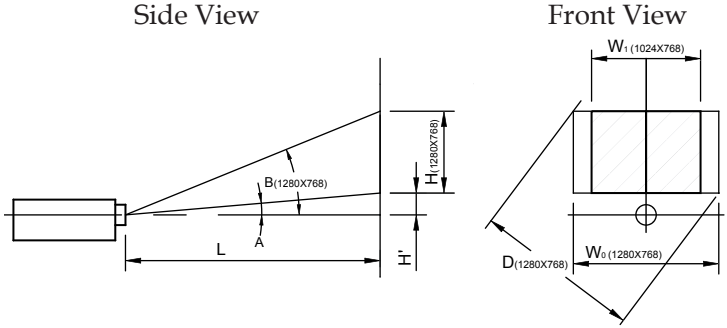


Adjusting the Projector's Zoom / Focus

Turn the Zoom Lever to zoom in or zoom out. To focus the image, turn the focus ring until you see a clear image. The projector will focus at distances from 4.9 to 39.4 feet (1.5 to 12.0 meters) and the projection screen size from 0.92m~8.857m (36″~349″) at 16:10 mode with mechanical travel.



Adjusting Projection Image Size



Throw Ratio (TR)=1.96 as Wide mode								
A=6.52°	B (1280x768)=25.54°			W_0 (1280x768)=L/R				
H'=L X tan(A)				W_1 (1024x768)=W_0 (1280x768) X 0.8				
H (1280x768)=W_0 (1280x768) X 0.86				H (1024x768)=W_1 (1024x768) X 0.75				
Display Format	A	B	L (cm)	W (cm)	H (cm)	H′ (cm)	D (cm)	D′ (in)
16:10 (1280x768)	6.52	25.54	256	130.68	78.41	29.01	152.40	60.00
4:3 (1024x768)	6.52	25.54	256	104.52	78.41	29.01	130.66	51.44
Projection Distance (M)		2.0	2.5	3.0	3.5	4.0	5.0	6.0
Screen Size 16:10 (inch)	Max	58.8	73.5	88.2	102.8	117.5	146.9	176.3
	Min	48.9	61.1	73.3	85.5	97.7	122.2	146.6
Screen Size 4:3 (inch)	Max	47.02	55.77	70.53	82.28	94.04	117.55	141.06
	Min	39.48	49.35	59.21	69.08	78.95	98.69	118.43

Control Panel & Remote Control

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

Control Panel



Remote Control



Using the Control Panel

Source	Press “Source” to choose Analog via DVI (DVI-A) or digital via DVI (DVI-D), RGB, Component-p, Component-i, S-Video, Composite Video, HDTV and HDMI sources.
Menu	Press “Menu” to launch the on-screen display (OSD) menu. To exit OSD, Press ”Menu” again.
Four Directional Select Keys	Use ▲ ▼ ◀ ▶ to select items or make adjustments to your selection.
Select	Confirm your item selection.
Re-Sync	Automatically synchronizes the projector to the input source.

Using the Remote Control	
Power	Refer to the "Power On/Off the Projector" section on pages 13-14.
Brightness	Adjust the brightness of the image.
Contrast	Control the degree of difference between the lightest and darkest parts of the picture.
Image Shift	Shifts the projected image position horizontally.
H. Keystone ◀ / ▶	Adjust image distortion horizontally and makes a squarer image.
V. Keystone ▼ / ▲	Adjust image distortion vertically and makes a squarer image.
Zoom	Press "Zoom" button to zoom in and zoom out of image.
Display Mode	Select the display mode from Cinema, Bright, TV, sRGB and User.
Menu	Press "Menu" to launch the on-screen display (OSD) menu. To exit OSD, Press "Menu" again.
Four Directional Select Keys	Use ▲ ▼ ◀ ▶ to select items or make adjustments to your selection.
Select (Enter)	Confirm your item selection.
Overscan	Mask off a few pixels on each edge of the image to be displayed. Use this function to adjust if image source happens to have noise near any edge of the display image.
4:3	Scale the image at a 4:3 aspect ratio.
16:9	Scale the image at a 16:9 aspect ratio.
Native	The input source will be displayed without scaling.
Letter-Box	Enable the viewing of the letterboxed non-anamorphically enhanced movie at full screen width. Part of the original image will be lost if the image aspect ratio is less than 1.78:1.

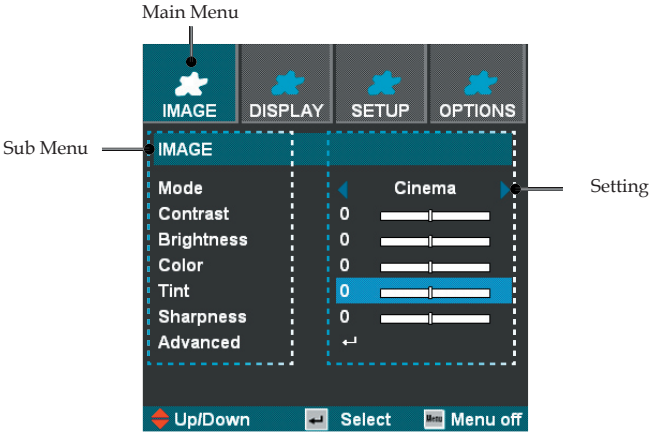
DVI-D	Press “DVI-D” to choose Digital Signal source from DVI-I connector.
DVI-A	Press “DVI-A” to choose Analog Signal source from DVI-I connector.
HDMI	Press “HDMI” to choose source from HDMI connector.
YPbPr	Press “YPbPr” to choose Component video source.
Video	Press “Video” to choose Composite video source.
S-Video	Press “S-Video” to choose S-video source.

On-screen Display Menus

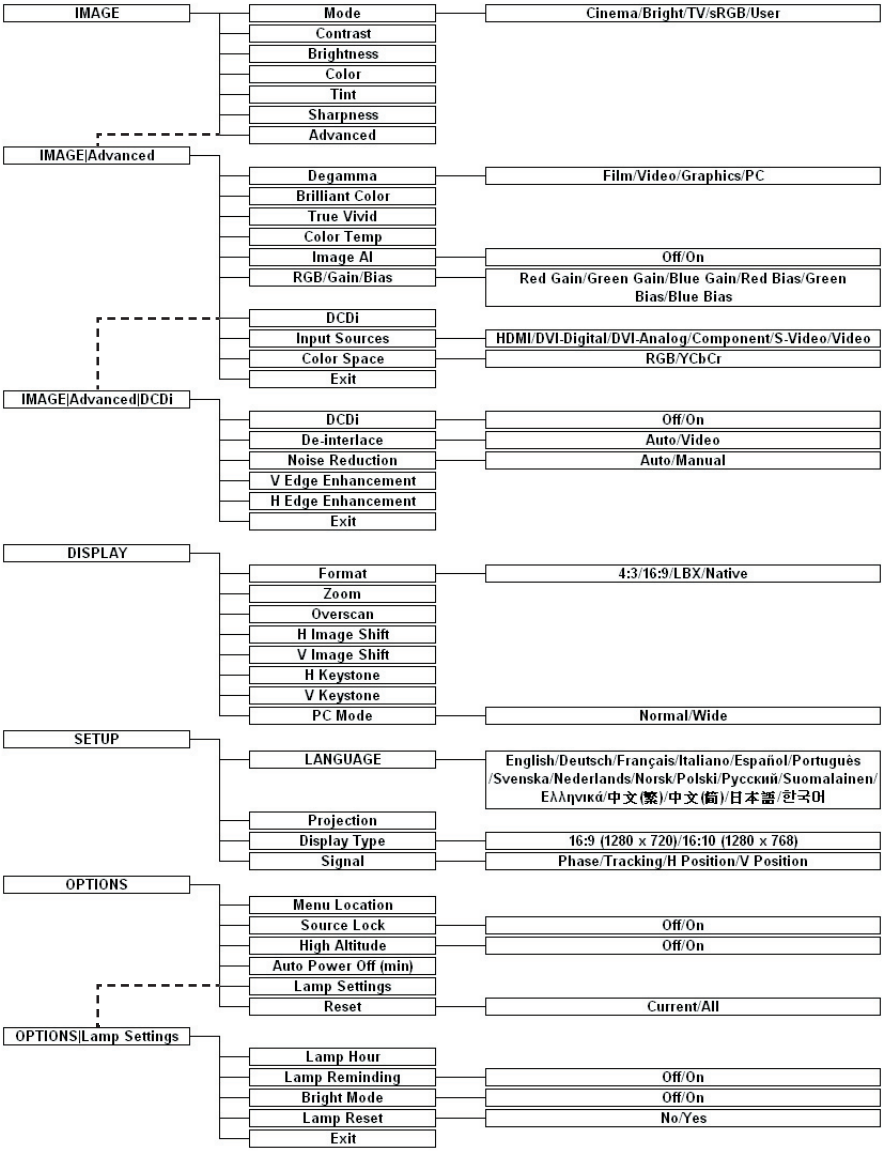
The Projector has multilingual On-screen Display menus that allow you to make image adjustments and change a variety of settings. The projector will automatically detect the source.

How to operate

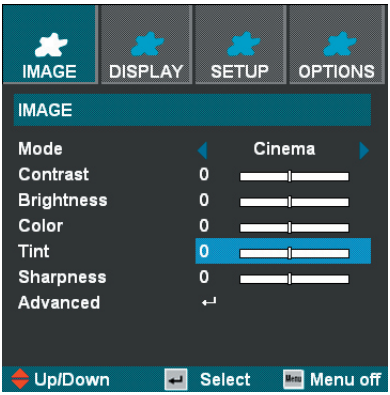
1. To open the OSD menu, press "Menu" on the Remote Control or Control Panel.
2 When OSD is displayed, use ◀ ▶ keys to select any item in the main menu. While making a selection on a particular page, press ▼ or "Select (Enter)" key to enter sub menu.
3. Use ▲ ▼ keys to select the desired item and adjust the settings by ◀ ▶ key.
4. Select the next item to be adjusted in the sub menu and adjust as described above.
5. Press "Select (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.



Menu Tree


IMAGE
Mode
Cinema/Bright/TV/sRGB/User
Contrast
Brightness
Color
Tint
Sharpness
Advanced
IMAGE|Advanced
Degamma
Film/Video/Graphics/PC
Brilliant Color
True Vivid
Color Temp
Image AI
Off/On
RGB/Gain/Bias
Red Gain/Green Gain/Blue Gain/Red Bias/Green Bias/Blue Bias
DCDi
Input Sources
HDMI/DVI-Digital/DVI-Analog/Component/S-Video/Video
Color Space
RGB/YCbCr
Exit
IMAGE|Advanced|DCDi
DCDi
Off/On
De-interlace
Auto/Video
Noise Reduction
Auto/Manual
V Edge Enhancement
H Edge Enhancement
Exit
DISPLAY
Format
4:3/16:9/LBX/Native
Zoom
Overscan
H Image Shift
V Image Shift
H Keystone
V Keystone
PC Mode
Normal/Wide
SETUP
LANGUAGE
English/Deutsch/Français/Italiano/Español/Português /Svenska/Nederlands/Norsk/Polski/Русский/Suomalainen/ Ελληνικά/中文(繁)/中文(简)/日本語/한국어
Projection
Display Type
16:9 (1280 x 720)/16:10 (1280 x 768)
Signal
Phase/Tracking/H Position/V Position
OPTIONS
Menu Location
Source Lock
Off/On
High Altitude
Off/On
Auto Power Off (min)
Lamp Settings
Reset
Current/All
OPTIONS|Lamp Settings
Lamp Hour
Lamp Reminding
Off/On
Bright Mode
Off/On
Lamp Reset
No/Yes
Exit

Image



Mode

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

- Cinema: For home theater.
- Bright
- TV
- sRGB: For standard color.
- User: Memorize user's settings.

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.

Brightness

Adjust the brightness of the image.

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

Color

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.

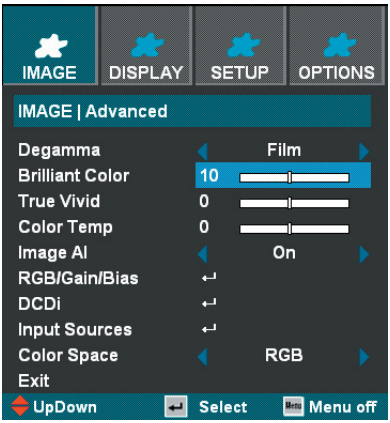
- Press the ◀ to increase the amount of green in the image.
- Press the ▶ to increase the amount of red in the image.

Sharpness

Adjusts the sharpness of the image.

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

Image | Advance



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.

Brilliant Color

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.

True Vivid

This adjustable item utilizes a new color-processing algorithm and enhancements to enable the picture's vividness to be significantly increased. The range is from " 0 " to " 3 ".

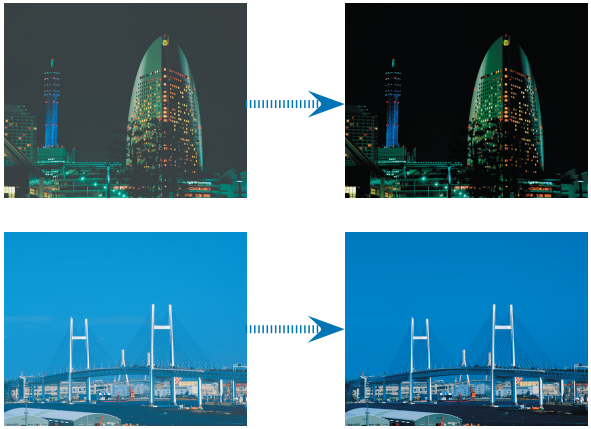
Color Temp.

Adjust the color temperature. The range is from " 0 " to " 2 ". At higher temperature, the screen looks colder; at lower temperature, the screen looks warmer.

Image AI

Image AI improves the contrast of the picture by optimizing the brightness of the lamp according to the picture content.

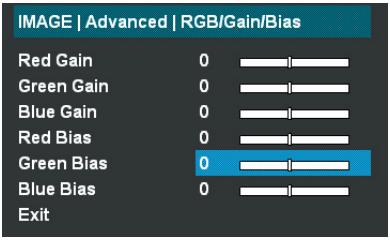
- On: The dynamic image performance manager is active in making sure your greatest pleasure from seeing a movie dynamically with the most dark details revealed, vivid and bright image performed all the way.



- Off: The dynamic image performance manager is on standby.

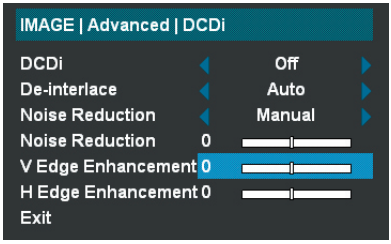
RGB/Gain/Bias

Press ◀ or ▶ into the next menu as below and then use ▲ or ▼ to select item. Use ◀ or ▶ to select Red, Green, or Blue for brightness (Gain) and contrast (Bias).



DCDi®

DCDi® stands for Directional Correlation De-Interlacing by Faroudja. The goal of DCDi® processing is to remove the jagged edges that appear when standard interlaced video is viewed on this projector. Faroudja DCDi® technology improves cross



coloring and eliminating jagged edges, resulting in the projection of cinema-like images with exceptional picture quality.

- On: Provide more smooth and clear picture via DCDi® when interlaced with inputs.
- Off: Disable this function.

Deinterlace

This function converts an interlaced video signal into progressive signal.

- Auto: Automatically switch the mode of Deinterlace.
- Video: Switch Deinterlace mode to video mode for video source or TV source.

Noise Reduction

The motion Adaptive Noise Reduction greatly enhances the quality of interlaced video. DCDi® noise reduction setting adjusts the amount of noise reduction doing 3-2 pull-down de-interlacing processing to have a film like video quality.

- Auto: Automatically detect and adjust the noise.
- Manual: The range is from "-50 " to "50".

V Edge Enhancement

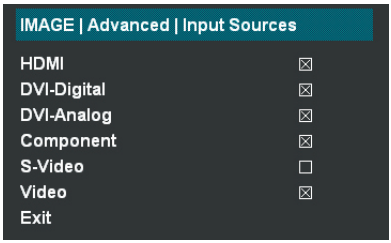
Adjust the vertical Edge Enhancement in the image. The range is from "-50" to "50" .

H Edge Enhancement

Adjust the horizontal Edge Enhancement in the image. The range is from "-50" to "50" .

Input Source

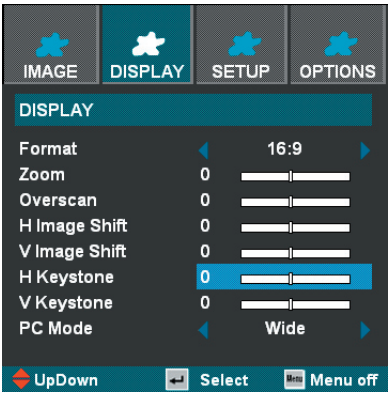
Enable input sources. Press ◀ or ▶ into the next menu as below and then use ▲ or ▼ to select. Press "Select (Enter)" to finalize the selection. The projector will not search inputs that are de-selected.



Color Space

Select an appropriate color matrix type from RGB or YPbPr.

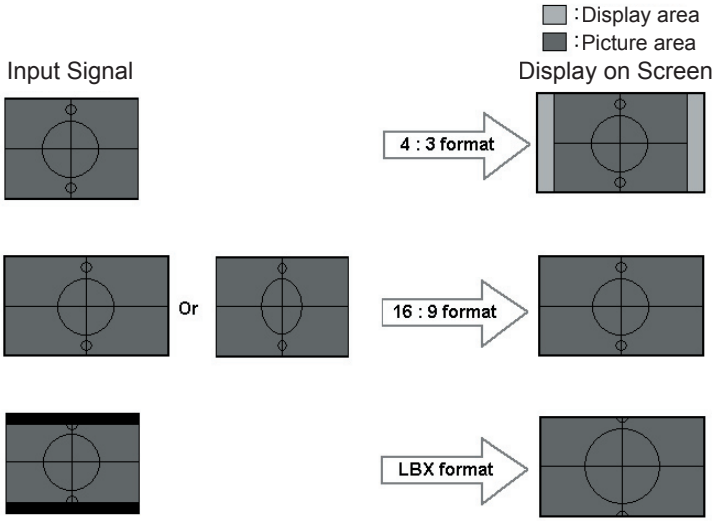
Display



Format

Use this function to choose your desired aspect ratio.

- 4:3: This format is for 4x3 input sources not enhanced for Widescreen TV.
- 16:9: This format is for 16x9 input sources, like HDTV and DVD enhanced for Widescreen TV.
- Native: This format displays the original image without any scaling.
- LBX: This format is for non-16x9, letterbox source and for users who use external 16x9 lens to display 2.35:1 aspect ratio using full resolution.



Detail informations about LBX mode :

1. Some Letter-Box DVD contents are not enhanced for 16x9 TV, then image will not look right in 16:9 display.
   One can use 4:3 mode to view the correct info.
   But if the content itself is not 4:3, it will have black bars around the image in a 16:9 display. For this kind of content, you can use LBX mode to fill the image in the 16x9 display as much as possible.
2. If you use an external 16x9 lens, this LBX mode also allows you to watch a 2.35:1 content (include Anamorphic DVD and HDTV film source) that support anamorphic wide is enhanced for 16x9 Display in a wide 2.35:1 image.
   In this case, there are no black bars, the full lamp power and vertical resolution is fully utilized for maximum viewing effects.
   Other than these two occasions, one should stay with 16:9 and 4:3 modes for most viewing experiences.

Zoom

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

Overscan

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

H Image Shift

Shifts the projected image position horizontally.

V Image Shift

Shifts the projected image position vertically.

H Keystone

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

V Keystone

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

PC Mode

This Mode is only for use when using the HD72 with a PC signal, either Analogue or Digital via the DVI-I connector.

- Wide: If your PC output is a wide screen format resolution you must select this setting.

  Examples of Wide screen resolutions are: 720 x 400/854 x 480 1280 x 720/1280 x 768/1920 x 1080.

- Normal: If your PC output is a Normal (4:3) resolution you must select this setting.

  Examples of Normal resolutions are: 640 x 480/800 x 600/1024 x 768/1152 x 870 (* for MAC)/1280 x 1024/1400 x 1050.

*All supported resolutions are listed on page 41.



❖"PC Mode" function is only supported under RGB source via DVI-I connector.



Setup

Language

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

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.

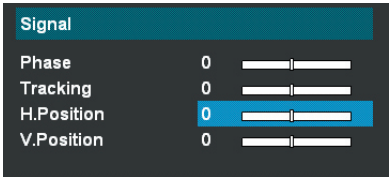
Display Type

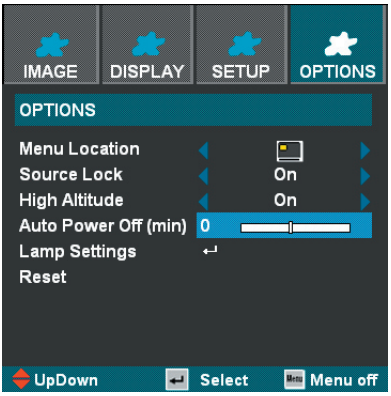
Choose the display type as 16:9 (1280 x 720) or 16:10 (1280 x 768).

Signal

- Phase: 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.

- Tracking : 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.
- H. Position: Adjusts the horizontal position.
- V. Position: Adjusts the vertical position.





Options

Menu Location

Choose the menu location on the display screen.

Source Lock

When this function is turned off, the projector will search for other signals if the current input signal is lost. When this function is turned on, it will search for a specified connection port.

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.

Auto Power Off (min)

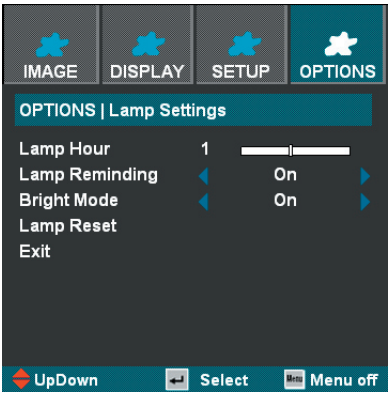
Sets the interval of power-off of the system, if there is no signal input. (In minutes)

Reset

Return the adjustments and settings to factory default values.

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

Options | Lamp settings



Lamp Hour

Displays the cumulative lamp operating time.

Lamp Reminding

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

Bright Mode

Choose “On” to increase the brightness. Choose ”Off” to return normal mode.

Lamp Reset

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 page 43 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 the pins of connectors are not crooked 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.

? 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. From the "My Computer" icon, open the "Control Panel" folder, and double click the "Display" icon.
  2. Select the "Settings" tab.
  3. Verify that your display resolution setting is lower than or equal to SXGA+ (1400 x 1050). (*)
  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 SXGA+ (1400 x 1050) resolution.

NOTE

❖(*) The resolution WXGA (1280 x 768) is recommand 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 SXGA+ (1400 x 1050). (*)

- If you are using a Notebook:
  1. First, follow the steps above to adjust resolution of the computer.
  2. Press the toggle output settings. example: [Fn]+[F4]

Compaq=>	[Fn]+[F4]	Packard Hewlett =>	[Fn]+[F4]
Dell =>	[Fn]+[F8]		
Gateway=>	[Fn]+[F4]	NEC=>	[Fn]+[F3]
IBM=>	[Fn]+[F7]	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.

? Unstable or flickering image

- Use "Tracking" to correct it. See page 32 for more information.
- Change the monitor color setting on your computer.

? Image has vertical flickering bar

- Use "Phase" to make an adjustment. See page 32 for more information.
- Check and reconfigure the display mode of your graphic card to make it compatible with the projector.

NOTE

❖(*) The resolution: WXGA (1280 x 768) is recommended for this 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 4.9 to 39.4 feet (1.5 to 12.0 meters) from the projector. See page 16.

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 the LBX format DVD title, please change the format as LBX in projector OSD.
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

- Adjust the zoom lever on the top of the projector.
- Move the projector closer to or further from the screen.
- Press [4:3], [16:9], [Letter Box], [Native] button on the remote control or [Projector menu] on the projector panel, go to "Display-->Format". 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 until the sides are vertical on the remote control.

NOTE

❖Use of Keystone is not recommended.

Image is reversed

- Select "Setup-->Projection" from the OSD and adjust the projection direction.

Intermission Problems

The projector stops responding to all controls

- If possible, turn off the projector, then unplug the power cord and wait at least 20 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 page 40.

LED Problems

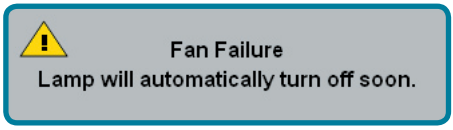
LED lighting message

Message	Standby/On LED (Green)	Temp-LED	Lamp-LED
Standby State (Input power cord)	Flashing	○	○
Power on (warming)	☼	○	○
Lamp lighting	☼	○	○
Power off (Cooling)	☼	○	○
Error (Lamp fail)	☼	○	☼
Error (Fan fail)	☼	Flashing	○
Error (Over Temp.)	☼	☼	○

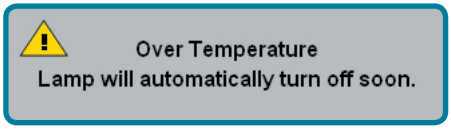
Steady light => ☼
No light => ○

Message Reminders

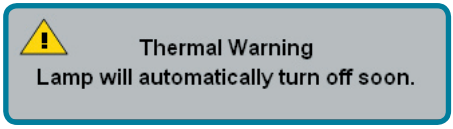
- Fan failed:



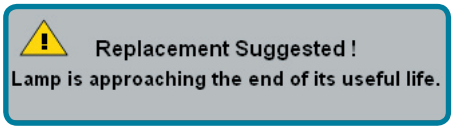
- Over temperature:



- Thermal Warning:



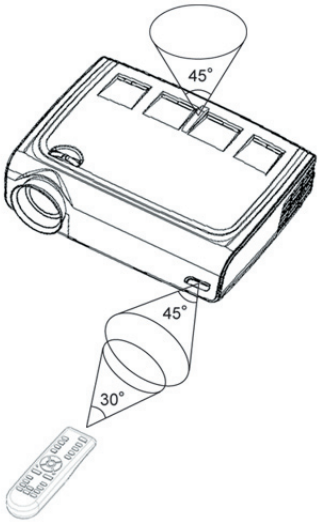
- Replacing the lamp:



Remote Control Problems

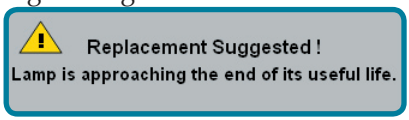
If the remote control does not work

- Check the operating angle for the remote control is approximately ±22.5°.
- Make sure there are not any obstructions between the remote control and the projector. Move to within 6 m (20 ft) of the projector.
- Make sure batteries are inserted correctly.
- Make sure batteries are exhausted. If so, replace weak batteries in the remote control.



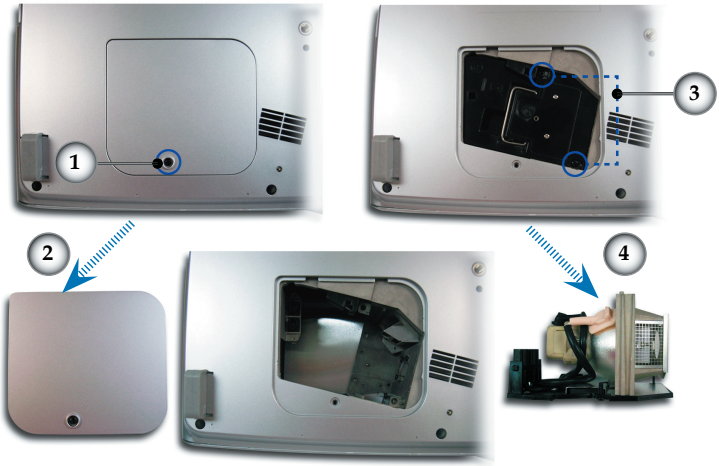
Replacing the lamp

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



Lamp Replacing Procedure:

1. Switch 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.❶
5. Push up and 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.

8. Turn on the projector and do "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".

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.

Compatibility Modes

Mode	Resolution	V.Frequency (Hz)
VESA VGA	640 x 480	60,72,75,85
VESA VGA	848 x 480	60,75,85
VESA VGA	720 x 400	70,85
VESA SVGA	800 x 600	56,60,72,75,85
VESA XGA	1024 x 768	50,60,70,75,85
VESA WXGA	1280 x 768	50,60,70,72,75,85
HD	1280 x 720	50,60,72
* HD	1920 x 1080	50,60,72
* SXGA	1280 x 1024	50,60,70,72,75,85
* SXGA+	1400 x 1050	50,60,70,72,75
* MAC	1152 x 870	75.06
MAC G4	640 x 480	60
i MAC DV	1024 x 768	75



Remark : "*"compressed computer image.

Ceiling Mount Installation

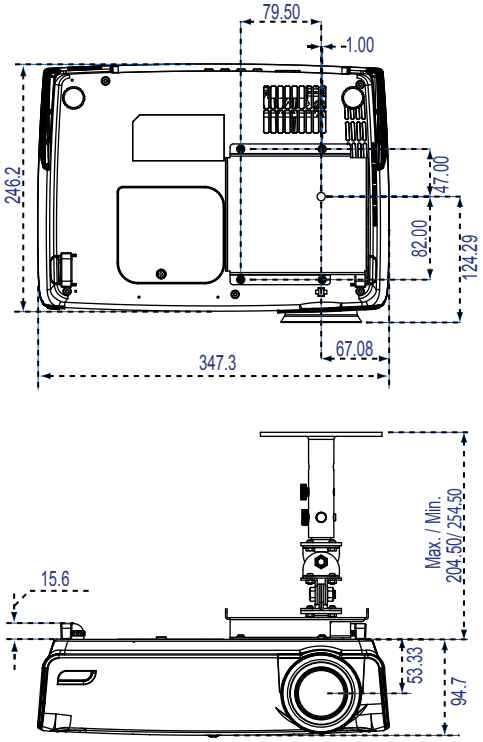
1. To prevent damaging your projector, please use the ceiling mount package for installation.
2. If you wish to use a third party ceiling mount kit, please ensure the screws used to attached a mount to the projector met the following specifications:
   - **Screw type: M3**
   - **Maximum screw length: 10mm**
   - **Minimum screw length: 7.5mm**

NOTE

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

NOTE

⚠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 air-conditioning units and heaters otherwise it may overheat and shut down automatically.



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