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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

 \triangle

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.



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.





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 Chip3[™] DLP[®] technology
- Dual resolution support: -16:10 (1280 x 768)
 -16:9 (1280 x 720) native for 720P HDTV capability
- ◆ 6 segment GRBGRB colour wheel
- 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
- ◆ Optoma's patent-pending O₂Air[™] Photo Catalyst air purification technology
- HDMI & DVI support with HDCP compliance
- True Vivid and Brilliant Color[™] Image technology
- 16:10 / 16:9, integrate with complete image function: Format, Overscan, Digital Image Shift construction (Vertical/Horizontal)



Introduction

English

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.





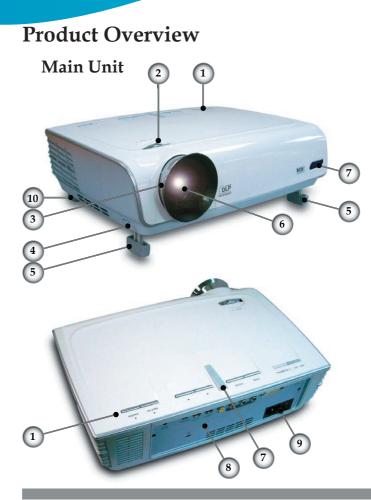
Due to the difference in applications for each country, some regions may have different accessories.



Adaptor

DVI to VGA Adaptor



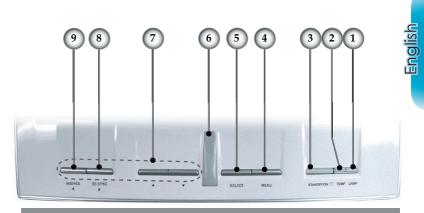


- 1. Control Panel
- 2. Zoom Lever
- 3. Focus Ring
- 4. Elevator Button (one on each side)
- 5. Elevator Feet
- 6. Zoom Lens
- 7. IR Receivers
- 8. Connection Ports
- 9. Power Socket & Main Power Switch
- 10. Tilt-Adjustment Feet



Introduction

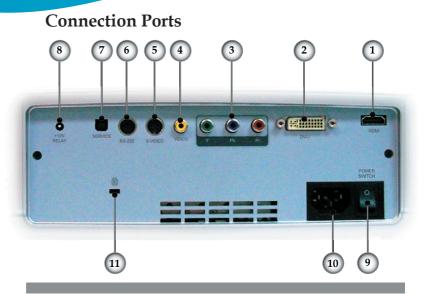
Control Panel



- 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







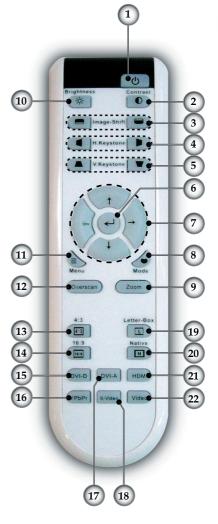
- 1. HDMI Connector
- 2. DVI-I Input Connector (PC Digital and DVI-HDCP)
- 3. Component Video Input Connector
- 4. Composite Video Input Connector
- 5. S-Video Input Connector
- 6. RS232 Input Connector
- 7. Service Connector
- 8. +12V Relay Connector
- 9. Main Power Switch
- 10. Power Socket
- 11. Kensington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



Introduction

Remote Control

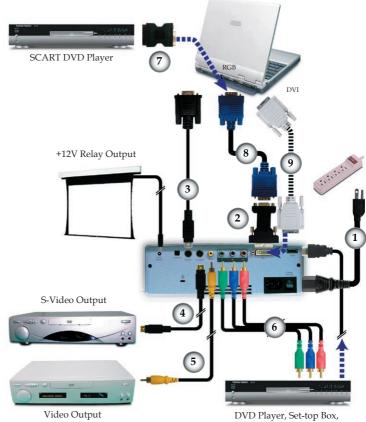
- 1. Power On/Off
- 2. Contrast
- 3. Image Shift
- 4. H. Keystone
- 5. V. Keystone
- 6. Select (Enter)
- 7. Four Directional Select Keys
- 8. Display Mode
- 9. Zoom
- 10. Brightness
- 11. Menu
- 12. Overscan
- 13. 4:3
- 14. 16:9
- 15. DVI-D Source
- 16. YPbPr Source
- 17. DVI-A Source
- 18. S-Video
-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







Connecting the Projector





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

HDTV receiver

	1	Power Cord
	2	
	3	
	4	
	5	
	6	
	7	SCART RGB/S-Video Adaptor (For European Only)
	9	
9		



Installation

Powering On/Off the Projector

Powering On the Projector

- 1. Remove the lens cap. **①**
- 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.

 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.





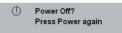
Turn on the projector first and then select the signal sources.





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.



Installation

Adjusting the Projected Image

Adjusting the Projector's Height

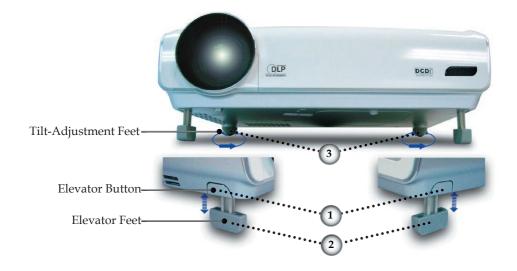
The projector is equipped with elevator feet for adjusting the image height.

To raise the image:

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







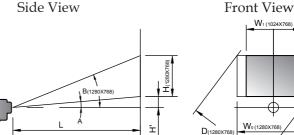
Adjusting the Projector's Zoom / Focus

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

Side View



							\searrow	
Throw Ratio (TR)=1.96 as Wide mode								
A=6.52°	В (1280	x768)=2	25.54°	W ₀ (128	30x768)⁼	=L/R		
H'=L X tan(A)				W ₁ (102	24x768)=	=W ₀ (12	80x768) I	X 0.8
H (1280x768)= W_0 (1280x768) X 0.86 H (1024x768)= W_1 (1024x768) X 0.86				0.75				
Display Format	А	в	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	Max	58.8	73.5	88.2	102.8	117.5	146.9	176.3
(inch)	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



User Controls

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 Co	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, Com- posite Video, HDTV and HDMI sources.				
Menu	Press "Menu" to launch the on-screen display (OSD) menu. To exit OSD, Press "Menu" again.				
Four Direc- tional Select Keys	Use \blacktriangle \checkmark \checkmark \blacklozenge to select items or make adjustments to your selection.				
SelectConfirm your item selection.Re-SyncAutomatically synchronizes the project the input source.					





Using the Re	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 horizon- tally.				
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 Direc- tional Select Keys	Use $\blacktriangle \lor \checkmark \lor \lor$ 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 withou 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.



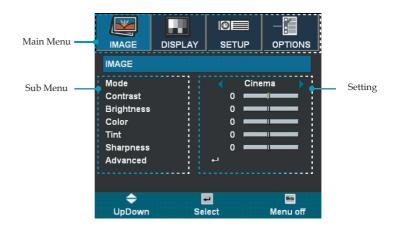


On-screen Display Menus

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

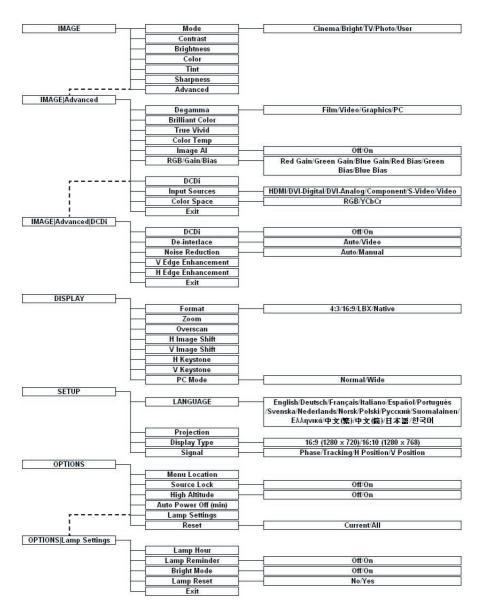
- 1. To open the OSD menu, press "Menu" on the Remote Control or Control Panel.
- When OSD is displayed, use < ▶ keys to select any item in the main menu. While making a selection on a particular page, press
 ▼ or "Select (Enter)" key to enter sub menu.
- Use ▲ ▼ keys to select the desired item and adjust 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







User Controls

Image

IMAGE	DISPLAY		
IMAGE			
Mode Contrast Brightness Color Tint Sharpness Advanced			
≑ UpDown	Sel	ect	Menu off

Mode

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

- Cinema: For home theater.
- Bright: For the brightest possible image, Use if ambient light is present.
- > TV: For watching analogue or digital TV images.
- Photo: For standard color, use for photo viewing.
- 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.





User Controls

Image | Advance

IMAGE	DISPLAY	IOE SETU] – JP 0	PTIONS
IMAGE Ad	vanced			
Degamma Brilliant Col True Vivid Color Temp Image Al RGB/Gain/E DCDi		ل 5 1 1 1 1 1 1	Film On	≡,
Input Sourc		ب ہ	BCD	
Color Spac Exit	9		RGB	
⇔ UpDown	S	₽ elect	Me	🎟 enu off

Degamma

This allows you to choose a degamma table that has been finetuned 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.

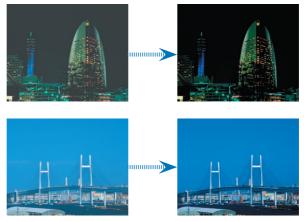
Image AI

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 \blacktriangleleft or \triangleright into the next menu as below and then use \blacktriangle or \triangleright to select item. Use \blacktriangleleft or \triangleright to select Red, Green, or Blue for brightness (Gain) and contrast (Bias).



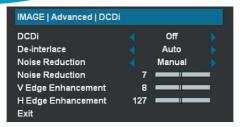
<u>DCDi</u>®

DCDi[®] - Directional Correlation De-Interlacing by Faroudja. DCDi technology helps to remove jagged edges that appear when interlaced sources are viewed on a projector.

Note – The DCDi function can only be used with interlaced video signals. If the video that the projector is displaying is not interlaced this menu option will not be visible.



User Controls



Signal types DCDi can be used with:

Component Interlaced (480i/576i), SCART RGB, S-video, Composite video

Signal types DCDi can not be used with:

HDMI, DVI, Component Progressive (480p/576p/720p), Component Interlaced (1080i)

- On: Enables DCDi functions with compatible signal types.
- Off: Disables DCDi functions with compatible signal types.

De-interlace

This function converts an interlaced video signal into a 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 reduces the amount of visible noise ininterlaced signals.

- Auto: Automatically detect and adjust the noise.
- Manual: The range is from "0" to "15".

V Edge Enhancement

Adjust the vertical Edge Enhancement in the image. The range is from "0" to "16".

H Edge Enhancement

Adjust the horizontal Edge Enhancement in the image. The range is from "0" to "255".



User Controls

Input Source

Enable input sources. Press \blacktriangleleft or \triangleright into the next menu as below and then use \blacktriangle or \blacktriangledown to select. Press "Select (Enter)" to finalize the selection. The projector will not search inputs that are deselected.

IMAGE Advanced Input Sou	irces
HDMI	×
DVI-Digital	X
DVI-Analog Component	×
S-Video	
Video	\mathbf{X}
Exit	

Color Space

Select an appropriate color matrix type from RGB or YPbPr.





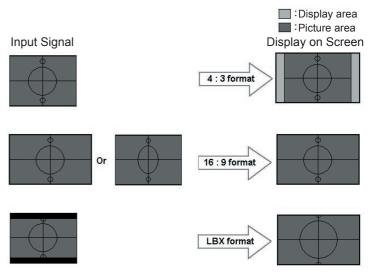
Display

	DISPLAY	SETU		TIONS
Format Zoom Overscan H Image Shi V Image Shi H Keystone V Keystone	ift	2 1 0 0 0	16:9	
PC Mode	Sel	- ect	Normal	enu off

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.





User Controls

Detail informations about LBX mode :

1. Some Letter-Box DVDs are not enhanced for 16x9 TVs. In this situation, the image will not look right when displayed in 16:9 mode.

In this situation, please try to using the 4:3 mode to view the DVD.

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 \blacktriangleleft or \blacktriangleright to adjust image distortion horizontally and makes a squarer image.

V Keystone

Press the \blacktriangleleft or \blacktriangleright to adjust image distortion vertically and makes a squarer image.

PC Mode



User Controls

This Mode is only for use when using the projector 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.



User Controls

	-		-	IONS
SETUP				
LANGUAGE Projection Display Typ Signal	t	Engl _ 16:	•	
↓ UpDown	₽ Select		Menu	-

Setup

Language

Choose the multilingual OSD menu. Press \blacktriangleleft or \triangleright into the sub menu and then use the \blacktriangle or \checkmark 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.





User Controls

	MAGE DISPLAY SETUP			
OPTIONS				
Menu Locat Source Loc High Altituc Auto Power Lamp Settir Reset	k le Off (min)	30 ↓	On On	
÷		-		Hetu
UpDown	Se	lect		Menu off

Options

English

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

	DISPLAY	SETU		OPTIONS
Lamp Hour Lamp Remi Bright Mod Lamp Rese Exit	e	1000 <	On On	
≑ UpDown	Sel	- ect		🔤 Menu off

Lamp Hour

Displays the cumulative lamp operating time.

Lamp Reminder

Choose this function to show or to hide the warning message when the changing lamp message is displayed. The message will appear 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.



() The resolution WXGA (1280 x 768) is recommand for computer signal.





- 6. Select the "Change" button under the "Monitor" tab.
- 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=> Dell => Gateway=> IBM=>	[Fn]+[F4] [Fn]+[F8] [Fn]+[F4] [Fn]+[F7]	Hewlett Packard => NEC=> Toshiba =>	[Fn]+[F4] [Fn]+[F3] [Fn]+[F5]	
Mac Apple: System Prefe display	erence>Displa	y>Arrangemer	nt>Mirror	

• 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.

[7] Image has vertical flickering bar

- Use "Phase" to make an adjustment. See page 31 for more information.
- Check and reconfigure the display mode of your graphic card to make it compatible with the projector.



() 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 remot control or [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 [V.Keystone /] button until the sides are vertical on the remote control.
- Press [H.Keystone]/ button until the sides are horizontal on the remote control.

? Image is reversed

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

Intermission Problems



? The projector stops responding to all controls





Use of Keystone is not recommended.



• 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.

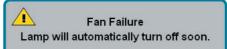
Projector Status Indication

Message	Standby/On LED (Green)	Temp-LED	Lamp-LED
Standby State (Input power cord)	Flashing	0	0
Power on (warming)	*	0	0
Lamp lighting	*	0	0
Power off (Cooling)	*	0	0
Error (Lamp fail)	*	0	*
Error (Fan fail)	*	Flashing	0
Error (Over Temp.)	*	*	0

? LED states

? Message Reminders

Fan failed:



Over temperature:

Over Temperature Lamp will automatically turn off soon.



Steady light => 💥 No light => O



Thermal Warning:

Thermal Warning Lamp will automatically turn off soon.

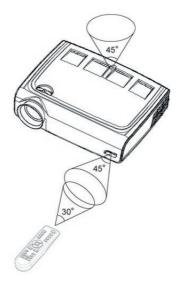
Replacing the lamp:

Replacement Suggested ! Lamp is approaching the end of its useful life.

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.



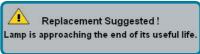




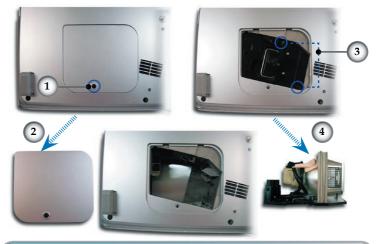
Replacing the lamp

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.



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.
- 5. Push up and remove the cover.
- 6. Remove the 2 screws from the lamp module.
- 7. Pull out the lamp module.

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)	DVI-A	DVI-D	HDMI/ YPbPr
VESA VGA	640 x 480	60	✓	~	×
VESA VGA	640 x 480	72	✓	~	×
VESA VGA	640 x 480	75	✓	~	×
VESA VGA	640 x 480	85	~	~	×
VESA VGA	848 x 480	60	~	~	×
VESA VGA	848 x 480	75	✓	×	×
VESA VGA	848 x 480	85	~	×	×
VESA VGA	720 x 400	70	✓	~	×
VESA VGA	720 x 400	85	✓	~	×
VESA SVGA	800 x 600	56	~	~	×
VESA SVGA	800 x 600	60	✓	~	×
VESA SVGA	800 x 600	72	~	~	×
VESA SVGA	800 x 600	75	✓	~	×
VESA SVGA	800 x 600	85	~	~	×
VESA XGA	1024 x 768	50	~	~	×
VESA XGA	1024 x 768	60	~	~	×
VESA XGA	1024 x 768	70	✓	~	×
VESA XGA	1024 x 768	75	~	~	×
VESA XGA	1024 x 768	85	~	~	×
VESA WXGA	1280 x 768	60	~	~	×
VESA WXGA	1280 x 768	75	~	~	×
VESA WXGA	1280 x 768	85	~	~	×
HD	848 x 480	60	×	×	✓
HD	1024 x 576	50	×	×	✓
HD	1280 x 720	50	×	×	✓
HD	1280 x 720	60	×	×	~
* HD	1920 x 1080	50	×	×	✓
* HD	1920 x 1080	60	×	×	✓
SD	848 x 480	60	×	×	✓
SD	1024 x 576	50	×	×	✓
* SXGA	1280 x 1024	60	✓	~	×
* SXGA	1280 x 1024	70	~	~	×
* SXGA	1280 x 1024	72	~	~	×
* SXGA	1280 x 1024	75	~	~	×
* SXGA	1280 x 1024	85	~	~	×
* SXGA+	1400 x 1050	60	~	~	×
* SXGA+	1400 x 1050	75	~	~	×
* MAC	1152 x 870	75.06	~	~	×
MAC G4	640 x 480	60	~	×	×

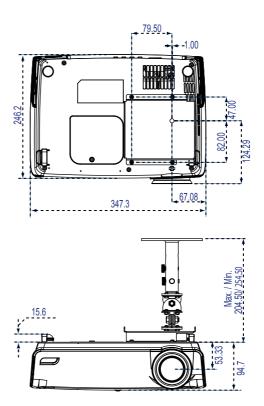






Ceiling Mount Installation

- 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





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



Warning: 1. If you buy the ceiling mount from other company, please ensure that there is at least 10cm distance between the bottom cover of the projector and the ceiling. 2. Avoid placing the

projector near sources of heat such air-conditioning units and heaters otherwise it may overheat and shut down automatically. 3. Ceiling mounting shall be mounting on metal or concrete.





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Regulation & safety notices

This appendix lists the general notices of your Projector.

FCC notice

This device has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver.
- Connect the device into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

Notice: Shielded cables

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

Caution

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





Operation conditions

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1.this device may not cause harmful interference, and
- 2.this device must accept any interference received, includ
 - ing interference that may cause undesired operation.

Notice: Canadian users

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

Remarque à l'intention des utilisateurs canadiens

Cet appareil numerique de la classe B est conforme a la norme NMB-003 du Canada.

Declaration of Conformity for EU countries

- EMC Directive 89/336/EEC (including amendments)
- Low Voltage Directive 73/23/EEC (amended by 93/68/ EEC)
- R & TTE Directive 1999/EC (if product has RF function)



