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http://www.discount-merchant.com

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Table of Contents

Precautions

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

⚠Warning- Do not look into the 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 product to rain or moisture.

⚠Warning- Please do not open or disassemble the product as this may cause electric shock.

⚠Warning- When changing the lamp, please allow unit to cool down, and follow all changing instructions.

⚠Warning- This product will detect the life of the lamp itself. Please be sure to change the lamp when it shows warning messages.

⚠Warning- Reset the "Reset Lamp Hours" function from the On Screen Display "Lamp Setting" menu after replacing the lamp module (refer to page 29).

⚠Warning- When switching the projector off, please ensure the projector completes its cooling cycle before disconnecting power.

⚠Warning- Turn on the projector first and then the signal sources.

⚠Warning- Do not use lens cap when projector is in operation.

⚠Warning- When the lamp reaches the end of its life, it will burn out and may make a loud popping sound. If this happens, the projector will not turn back on until the lamp module has been replaced. To replace the lamp, follow the procedures listed under "Replacing the Lamp". (see page 34)

Do:

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

Don't:

- ❖ Block the slots and openings on the unit provided for ventilation.
- ❖ Use abrasive cleaners, waxes or solvents to clean the unit.
- ❖ Use under the following conditions:
  - 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.

Product Features

*Congratulations and Thank You for choosing an EP747 projec-
tor, an Optoma Product. This product is a XGA single chip
0.7" DLP™ projector. Outstanding features include:*

◆ True XGA, 1024 x 768 addressable pixels

◆ Texas Instruments Single chip DLP™ Technology

◆ NTSC/NTSC4.43/PAL/PAL-M/PAL-N/SECAM and
   HDTV compatible (480i/p, 576i/p, 720p, 1080i)

◆ Multi-Auto functions: Auto detection, Automatic saving
   of user adjustments

◆ Full function IR remote control with laser pointer

◆ User friendly multilingual on screen menu

◆ Advanced digital keystone correction and high quality
   full screen image re-scaling

◆ User friendly control panel

◆ One built-in speaker with 3 Watt amplifier

◆ Multiple for Audio inputs

◆ SXGA, SXGA+ compression and SVGA, VGA re-sizing

◆ Mac compatible

◆ DVI support (HDCP compliant)

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

VGA Cable 1.8m

RS232 Cable 1.8m

USB Cable 1.8m

Wireless Remote Controller

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

2 x AA Batteries

Composite Video Cable 1.8m (available in USA and ASIA regions only)

SCART VGA/S-Video Adaptor (available in European region only)

S-Video Cable 1.8m (available in European region only)

Documents :

☑ User's Guide
☑ Quick Start Card
☑ Warranty Card
☑ Quick Troubleshooting Guide

Optoma

Product Overview

Main Unit

1. Control Panel
2. Zoom Lever
3. Focus Ring
4. Elevator Button (one on each side)
5. Elevator Foot
6. IR Receivers
7. Power Button
8. Power Socket
9. Connection Ports

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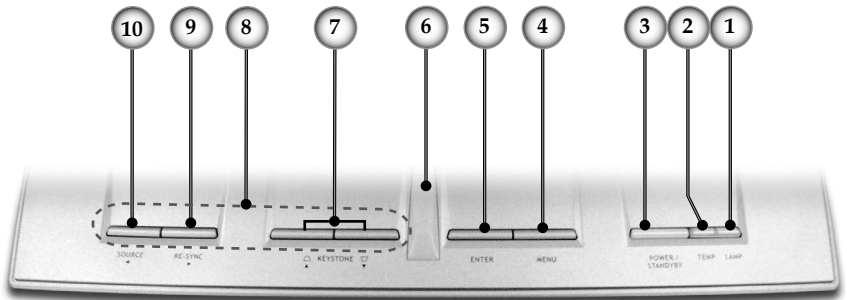
1. Lamp Indicator LED
2. Temp Indicator LED
3. Power/Standby LED
4. Menu (On/Off)
5. Enter
6. IR Receiver
7. Keystone +/-
8. Four Directional Select Keys
9. Re-Sync
10. Source Select

Connection Ports
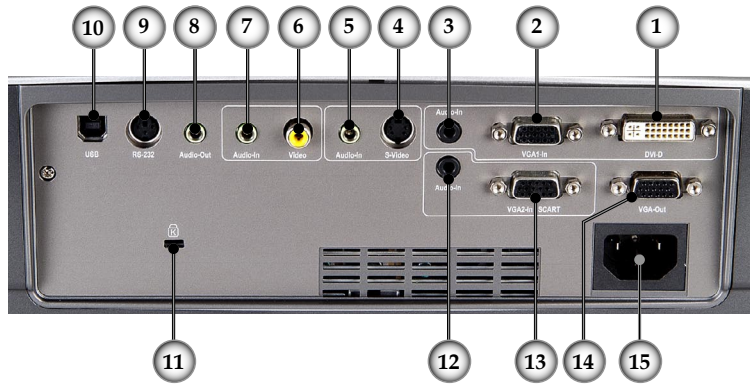
1. DVI-D Input Connector (PC Digital/HDTV/HDCP Input)
2. VGA-In Connector (PC Analog signal/HDTV/Component Video Input)
3. Audio Input Connector (For DVI-D or VGA1-In)
4. S-Video Input Connector
5. Audio Input Connector (For S-Video)
6. Composite Video Input Connector
7. Audio Input Connector (For Composite)
8. Audio Output Connector
9. RS232 Connector
10. USB Connector (Connect to PC for Remote Mouse function)
11. Kensington™ Lock Port
12. Audio Input Connector (For VGA2-In SCART)
13. VGA-In SCART Connector (PC Analog signal/HDTV/ Component Video Input)
14. Monitor Loop-through Output Connector
15. Power Socket

Remote Control with Mouse Function and Laser Pointer
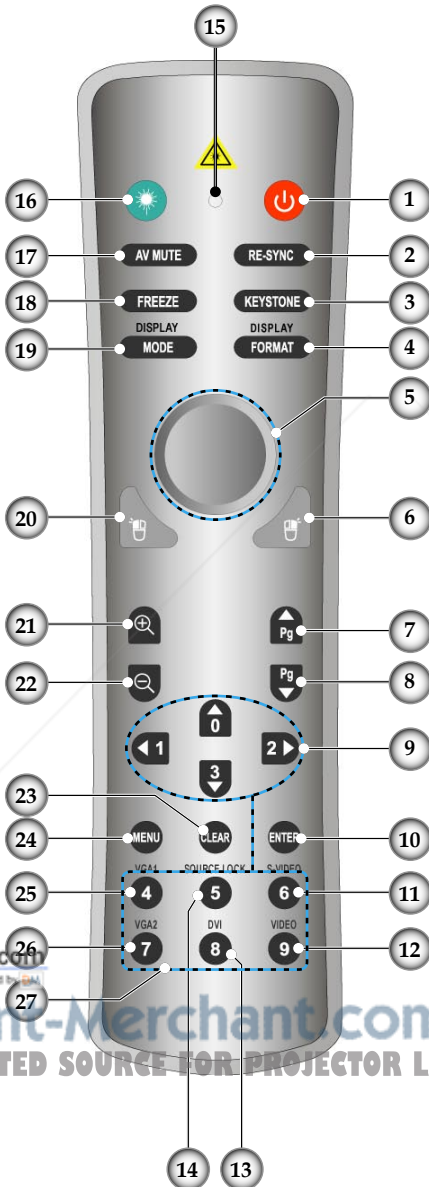
1. Power
2. Re-Sync
3. Keystone Correction
4. Display Format
5. Mouse
6. Mouse Right Click
7. Page Up
8. Page Down
9. Four Directional Select Keys
10. Enter
11. S-Video Source
12. Composite Video Source
13. DVI Source
14. Source Lock
15. Button LED
16. Laser Button
17. AV Mute
18. Freeze
19. Display Mode
20. Mouse Left Click
21. Zoom In
22. Zoom Out
23. Clear
24. Menu
25. VGA1 Source
26. VGA2 Source
27. Number Buttons

Connecting the Projector

Connect the Computer/Notebook

VGA
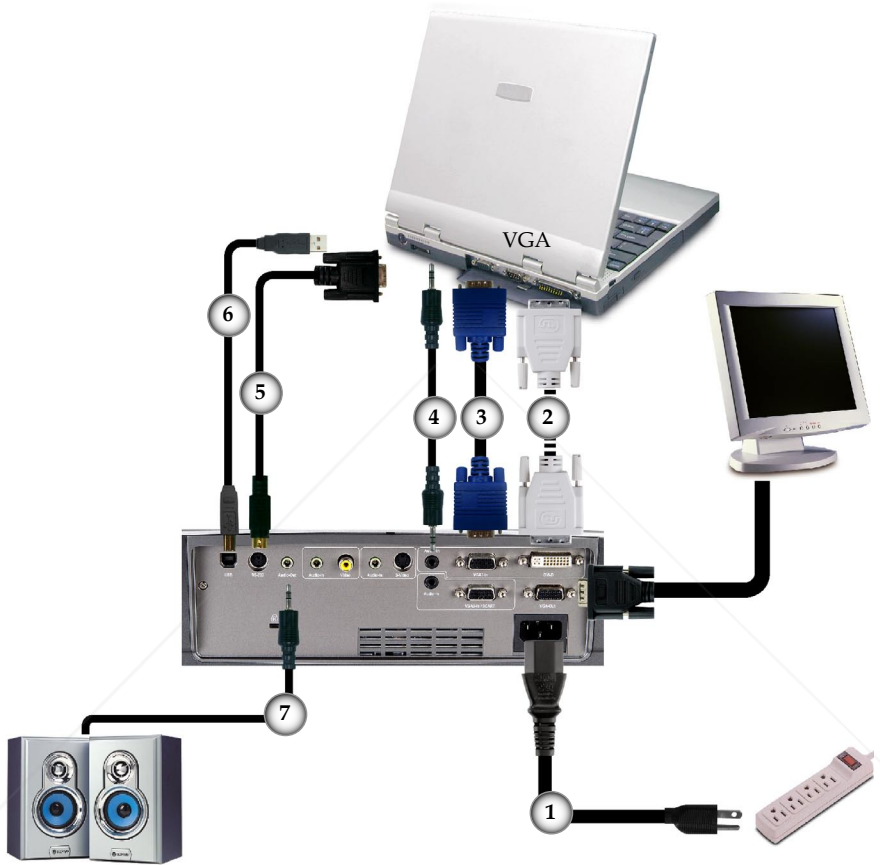
Audio Output (For Active Speakers)

NOTE

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

1. ....Power Cord
2. ....DVI to DVI Cable
3. ....VGA to VGA Cable
4. ....Audio Input Cable
5. ....RS232 Cable
6. ....USB Cable
7. ....Audio Output Cable

Connect the Video
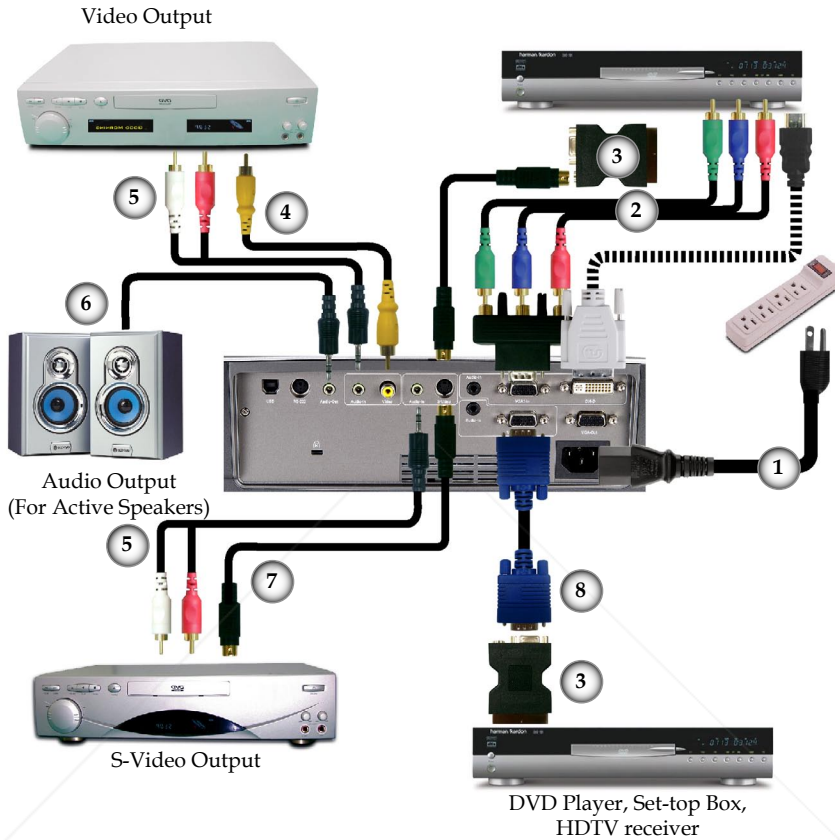
Video Output

Audio Output
(For Active Speakers)

S-Video Output

DVD Player, Set-top Box,
HDTV receiver

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

1. ....Power Cord
2. ....RCA Component Cable for YPbPr
3. .... SCART VGA/S-Video Adaptor
4. .... Composite Video Cable
5. ....Audio Input Cable
6. ....Audio Output Cable
7. ....S-Video Cable
8. .... VGA to VGA Cable

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. The Power LED will turn red.

3. Turn on the lamp by pressing "Power/Standby" button on the control panel.❷ And the Power LED will turn green.

4. Turn on your source (computer, notebook, video player, etc.). The projector will detect your source automatically within "Management" menu; check that "Source Lock" has been set to "Auto".

❖ If you connect multiple sources at the same time, use the "Source" button on the control panel or direct source key on remote control to switch.

NOTE

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

2 Power/Standby

FixYourDLP.com
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Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

1 Lens Cap

Powering Off the Projector

1. Press the "Power/Standby" button to turn off the projector lamp; you will see a message

   Wait 1 minute before you can switch on again.

   Press "POWER" key again to confirm.
   Press "ENTER" key to remove this warning.

   displayed on the projector's screen. Press the "Power/Standby" 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 flash red. When the Power LED stops flashing, the projector has entered standby mode.

   Once in standby mode, simply press "Power/Standby" 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 "TEMP" indicator turns red, it indicates the projector has overheated. The projector will automatically shut itself down.

❖ When the "LAMP" indicator turns red, it indicates a problem with the lamp. Turn off the projector and disconnect the power cord from the electrical outlet, then contact your local dealer or our service center. See page 38.

❖ When the "LAMP" indicator flashes red, it indicates the fan has failed. Stop using the projector and disconnect the power cord from the electrical outlet, then contact your local dealer or our service center. See page 38.

Adjusting the Projected Image

Adjusting the Projector Image 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 foot 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 foot into position.

3. Use screw in feet ❸ to fine-tune the display angle.
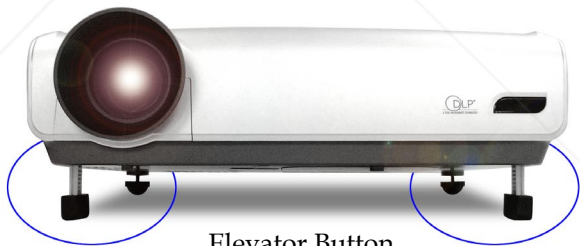
Elevator Button

❖ See page 26 for Keystone Correction.
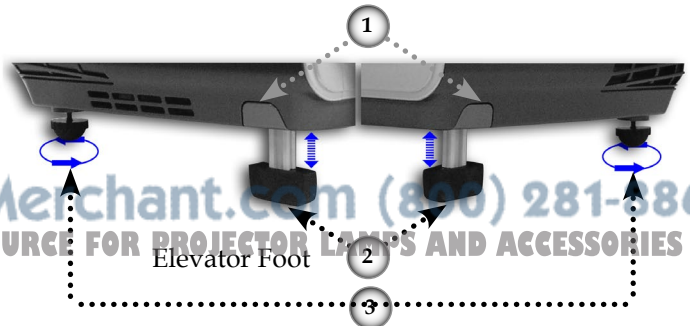
Elevator Foot

Tilt Adjusting Feet

Adjusting the Projector Zoom / Focus

You may turn the zoom lever to zoom in or out. To focus the image, rotate the focus ring until the image is clear. The projector will focus at distances from 4.9 to 40.0 feet (1.5 to 12.2 meters).

Zoom Lever

Focus Ring
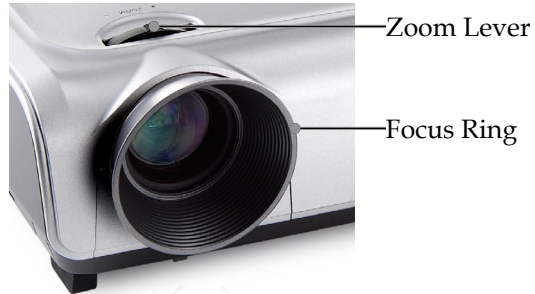
Adjusting Projection Image Size
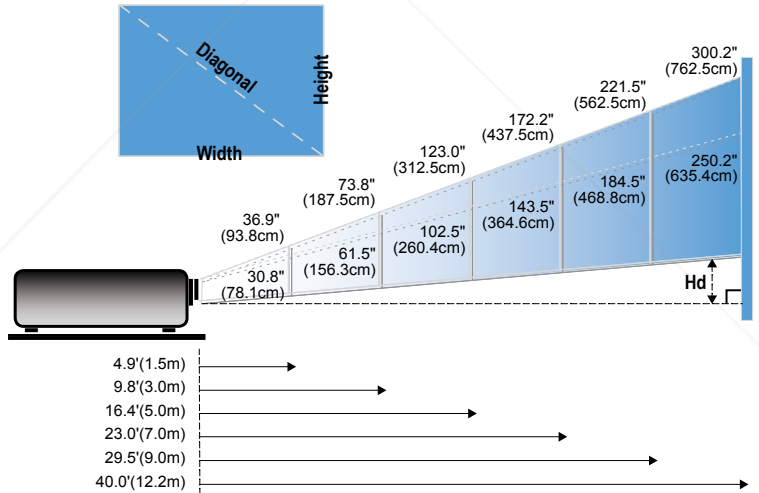
Screen (Diagonal)		Max.	36.9″(93.8cm)	73.8″(187.5cm)	123.0″(312.5cm)	172.2″(437.5cm)	221.5″(562.5cm)	300.2″(762.5cm)
		Min.	30.8″(78.1cm)	61.5″(156.3cm)	102.5″(260.4cm)	143.5″(364.6cm)	184.5″(468.8cm)	250.2″(635.4cm)
Screen Size	Max. (WxH)		29.52″x 22.14″	59.04″ x 44.28″	98.4″ x 73.8″	137.76″ x 103.32″	177.20″ x 132.90″	240.16″ x 180.12″
			75.0 x 56.3cm	150.0 x 112.5cm	250.0 x 187.5cm	350.0 x 262.5cm	450.0 x 337.5cm	610.0 x 457.5cm
	Min (WxH)		24.64″ x 18.68″	49.20″ x 36.90″	82.0″ x 61.5″	114.8″ x 86.1″	147.6″ x 110.7″	200.16″ x 150.12″
			62.5 x 46.9cm	125.0 x 93.8cm	208.3 x 156.2cm	291.7 x 218.8cm	375.0 x 281.3cm	508.3 x 381.2cm
Hd		Max.	3.32″ (8.4cm)	6.64″ (16.9cm)	11.07″ (28.1cm)	15.50″ (39.4cm)	19.94″ (50.6cm)	27.02″ (68.6cm)
		Min.	2.77″ (7.0cm)	5.54″ (14.1cm)	9.23″ (23.4cm)	12.92″ (32.8cm)	16.61″ (42.2cm)	22.52″ (57.2cm)
Distance			4.9′ (1.5m)	9.8′ (3.0m)	16.4′ (5.0m)	22.3′ (7.0m)	29.5′ (9.0m)	40.0′ (12.2m)

❖This graph is for user's reference only.

Control Panel & Remote Control

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

Control Panel   Remote Control

Using the Control Panel

Power	Refer to the "Power On/Off the Projector" section on pages 12-13.
Source	Press "Source" to select an input signal.
Menu	Turns the menu On or Off.
Four Directional Select Keys	Use ▲ ▼ ◄ ► to navigate through the menus.
Enter	Confirm your item selection.
Keystone	Adjusts image distortion caused by tilting the projector (±15 degrees).
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 12-13.
Sync	Automatically synchronizes the projector to the input source.
Keystone	Adjusts image distortion caused by tilting the projector (±15 degrees).
Display Format	Display the "Display Format" section of the on-screen display menu to select the desired aspect ratio.
Laser Button	Aim the remote at the viewing screen, press and hold this button to activate the laser pointer.
AV Mute	Momentarily turns off the audio and video.
Freeze	Press "Freeze" to pause the screen image.
Display Mode	Select the display mode from PC, Photo, Video, Cinema, sRGB and User.
Mouse Control	Use this button to navigate the mouse on the page.
Mouse Right Click	Mouse right click.
Mouse Left Click	Mouse left click.
Page Up	Use this button to page up.
Page Down	Use this button to page down.
Zoom In	Zoom in to magnify the image.
Zoom Out	Zoom out to reduce the image.
Four Directional Select Keys	Use ▲ ▼ ◀ ▶ to navigate through the menus.
Menu	Display or exits the on-screen display menus for projector.
Clear	Clear your selection.
Enter	Confirm your item selection.
Source Lock	Select auto detection all connector ports or lock current connector port.
Video	Choose composite video source.

S-Video	Choose S-video source.
VGA1	Choose primary VGA-In source.
VGA2	Choose secondary VGA-In source or SCART source.
DVI	Choose DVI-D 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 ▼ key to enter sub menu.

3. Use ▲ ▼ keys to select the desired item and adjust the settings by ◀ ▶ key.

4. Select the next item to be adjusted in the sub menu and adjust as described above.

5. Press "Menu" to confirm, and the screen will return to the main menu.

6. To exit, press "Menu" again. The OSD menu will close and the projector will automatically save the new settings.

Main Menu
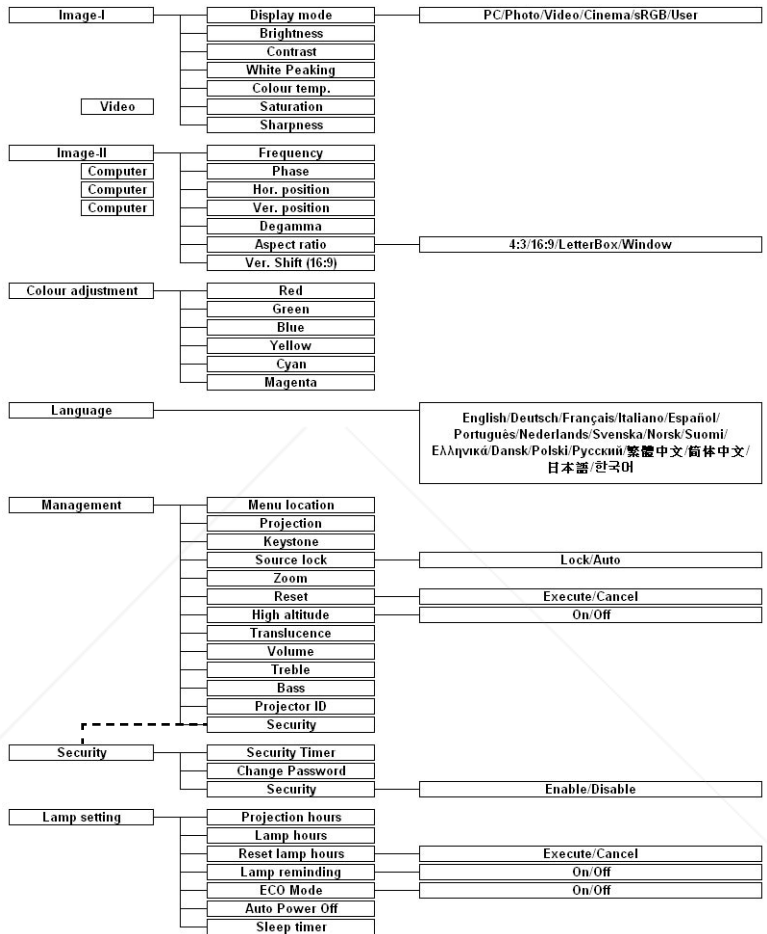
Language	Management	Lamp setting
Image-I	Image-II	Colour adjustment

Display mode	PC	Photo	Video	Cinema	sRGB	User
Brightness						50
Contrast						50
White Peaking						5
Colour temp.						MID
Saturation						50
Sharpness						16

Sub Menu   Setting

Menu Tree

Language	Management	Lamp setting
Image-I	Image-II	Colour adjustment

Display mode	PC	Photo	Video	Cinema	sRGB	User
Brightness						50
Contrast						50
White Peaking	A			A		5
Colour temp.						MID
Saturation						50
Sharpness						16

Image-I

Display Mode

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

‣ PC: For computer or notebook. (brightest image)

‣ Photo: For optimum colour at high brightness.

‣ Video

‣ Cinema: For home theater.

‣ sRGB: For standard PC colour. (best colour reproduction)

‣ User: Memorize user's settings.

Brightness

Adjust the brightness of the image.

‣ Press the ◀ to darken image.

‣ Press the ▶ to lighten the image.

Contrast

The contrast controls the degree of difference between the lightest and darkest parts of the picture. Adjusting the contrast changes the amount of black and white in the image.

‣ Press the ◀ to decrease the contrast.

‣ Press the ▶ to increase the contrast.

White Peaking

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

Colour Temp.

Adjusts the colour temperature. At higher temperature, the screen looks colder; at lower temperature, the screen looks warmer.

Saturation

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

▶ Press the ◀ to decrease the amount of saturation in the image.

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

Sharpness

Adjusts the sharpness of the image.

▶ Press the ◀ to decrease the sharpness.

▶ Press the ▶ to increase the sharpness.

Language	Management	Lamp setting
Image-I	Image-II	Colour adjustment

Frequency		50
Phase		50
Hor. position		50
Ver. position		50
Degamma		3
Aspect ratio	4:3 16:9 LetterBox Window
Ver. Shift (16:9)		50

Image-II

Frequency

"Frequency" changes the display data frequency to match the fre-quency of your computer's graphic card. If you experience a vertical flickering bar, use this function to make an adjustment.

Phase

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

Hor. Position (Horizontal Position)

▸ Press the ◀ to move the image left.

▸ Press the ▶ to move the image right.

Ver. Position (Vertical Position)

▸ Press the ◀ to move the image down.

▸ Press the ▶ to move the image up.

Degamma

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

Aspect Ratio

Use this function to choose your desired aspect ratio.

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

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

▸ 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.

▸ 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.

: Display area
: Picture area

Input Signal   Display on Screen

4 : 3 format

Or   16 : 9 format

LBX format

window format
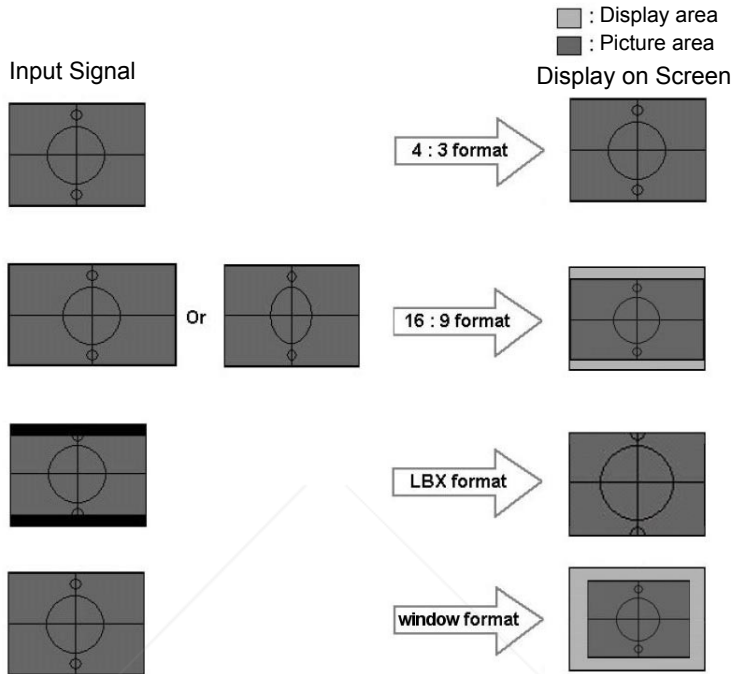
Ver. Shift (16:9)

Adjust the image position up or down, when you select the aspect ratio of 16:9.

▶ Press the ◀ to move the image down.

▶ Press the ▶ to move the image up.

❖ Ver. Shift (16:9): Image Position at window mode will also be moved accordingly.

Language	Management	Lamp setting
Image-I	Image-II	Colour adjustment

Red	⇒ ▬▬▬▬	0
Green	⇒ ▬▬▬▬	0
Blue	⇒ ▬▬▬▬	0
Yellow	⇒ ▬▬▬▬	0
Cyan	⇒ ▬▬▬▬	0
Magenta	⇒ ▬▬▬▬	0

Colour Adjustment

Colour Adjustment

Adjust the Red, Green, Blue, Yellow, Cyan and Magenta colors for advanced adjustment of the individual colors.

Image-I	Image-II	Colour adjustment
Language	Management	Lamp setting

English	Nederlands	简体中文
Français	Suomi	繁體中文
Deutsch	Ελληνικά	日本語
Italiano	Dansk	한국어
Español	Norsk	
Português	Polski	
Svenska	Русский	

Language

Language

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

Press "Enter" to finalize the selection.

| Image-I | Image-II | Colour adjustment |
| Language | Management | Lamp setting |

Menu location
Projection
Keystone | 0
Source lock | Lock | Auto
Zoom | 5
Reset | Execute | Cancel
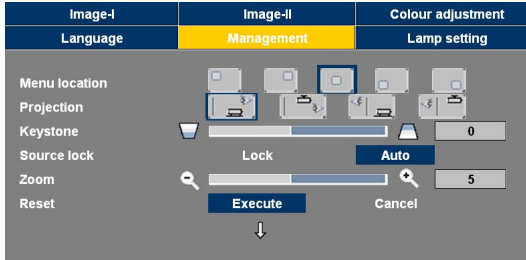
Management

Menu Location

Choose the menu location on the display screen.

Projection

▸ ⌐ ⌐ Front-Desktop

The factory default setting.

▸ ⌐ ⌐ Rear-Desktop

When you select this function, the projector reverses the image so you can project 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 turns the image upside down. You can project from behind a translu-cent screen with ceiling mounted projection.

Keystone (Keystone Correction)

Adjusts image distortion caused by tilting projector. (±15 degrees)

Source Lock

▸ Auto: The projector will search for other signals if the current input signal is lost.

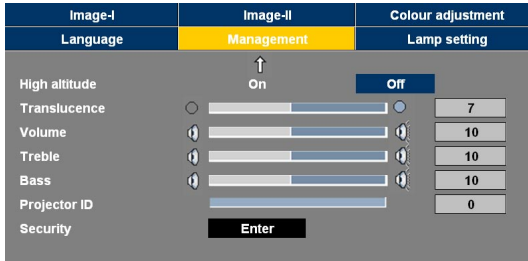▸ Lock: The projector will search specified connection port.

Zoom

▸ Press the ◀ to reduce the size of an image.

▸ Press the ▶ to magnify an image on the projection screen.

Reset

Return the adjustments and settings to the factory default values.

▸ Execute: Returns the settings for all menus to factory default values.

▸ Cancel: Cancel the revised settings.

Image-I	Image-II	Colour adjustment
Language	Management	Lamp setting

High altitude	On	Off
Translucence		7
Volume		10
Treble		10
Bass		10
Projector ID		0
Security	Enter	

Management

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.

Translucence

Choose the menu transparency on the display screen.

Volume

▸ Press ◀ to decrease the volume.

▸ Press ▶ to increase the volume.

Treble

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

▸ Press ◀ to decrease the treble.

▸ Press ▶ to increase the treble.

Bass

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

▸ Press ◀ to decrease the bass.

▸ Press ▶ to increase the bass.

Projector ID

Allows RS232 control of an individual projector. Range 01-99.

Security

▶ Security Timer: Can be select the time (month/day/hour) function to set the number of hours the projector can be used. Once the time has elapsed you will be requested to enter your password again.

▶ Change Password

Use number buttons to select your password, and then press "Enter" key to confirm your selection.

1. Scroll down to highlight Change Password, and press "Enter" to input old password.

2. The Password is 4 digits, DEFAULT VALUE is "0000" (first time).

3. Enter new Password (4 digits) and press "Enter".

4. Enter new Password again to confirm and press "Enter".

▶ Security

  ■ Enable: Choose "Enable" to use security verification when the turning on the projector.

  ■ Disable: Choose "Disable" to be able to switch on the projector without password verification.
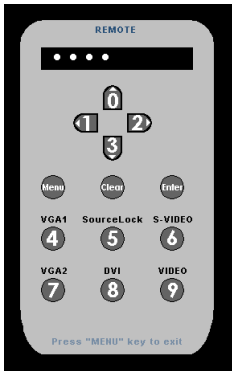
Image-I	Image-II	Colour adjustment
Language	Management	Lamp setting

Projection hours		50	hr
Lamp hours		50	hr
Reset lamp hours	Enable	Disable
Lamp reminding	On	Off
ECO Mode	On	Off
Auto Power Off		0	min
Sleep timer		0	min

Lamp Setting

Projection Hours

Displays the projection time.

Lamp Hours

Displays the cumulative lamp operating time.

Reset Lamp Hours

Resets the lamp life hour counter after replacing the lamp.

Lamp Reminding

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

ECO Mode

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

Auto Power Off

Sets the countdown timer interval. The countdown timer will start to count when no signal is being input to the projector. Then projector will auto power off when countdown is finished.

Sleep Timer

Sets the countdown timer interval. No matter if there is signal or none, projector will auto power off when sleep timer countdown is finished.

29 English

Troubleshooting

If you experience trouble with the projector, refer to the following information. If the problem persists, please contact your local reseller or service center, see page 38 for details.

Problem: No image appears on screen

‣ Ensure all the cables and power connections are correctly and securely connected as described in the "Installation" section.

‣ Ensure the pins of connectors are not crooked or broken.

‣ Check if the projection lamp has been securely installed. Please refer to the "Replacing the lamp" section.

‣ Make sure you have removed the lens cap and the projector is switched on.

‣ Ensure that the "AV Mute" feature is not turned on.

Problem: Left of right edge of the image is missing or the image is unstable or noisy

‣ Press "Sync" on the remote control or press "Re-Sync" on control panel.

‣ If you are 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 1400 x 1050.

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. 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.

4. Verify the resolution setting is less than or equal to 1400 x 1050 resolution.

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.

▶ 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	
Dell =>	[Fn]+[F8]	Hewlett =>	[Fn]+[F4]
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.

Problem: The screen of the Notebook or PowerBook computer is not displaying a 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 documentation for detailed information.

Problem: Image is unstable or flickering

▶ Use "Phase" to correct it.

▶ Change the monitor colour setting on your computer.

Problem: Image has vertical flickering bar

▶ Use "Frequency" to make an adjustment.

▶ Check and reconfigure the display mode of your graphic card to make it compatible with the product.

Problem: Image is out of focus

▶ Adjusts the Focus Ring on the projector lens.

▶ Make sure the projection screen is between distance 4.9 to 40.0 feet (1.5 to 12.2 meters) from the projector. See page 15.

Problem: The image is stretched when displaying 16:9 DVD
The projector automatically detects 16:9 DVD and adjusts the aspect ratio by digitizing to full screen with 4:3 default setting.

If the image is still stretched, you will also need to adjust the aspect ratio by referring to the following:
▶ Please select 4:3 aspect ratio type on your DVD player if you are playing a 16:9 DVD.
▶ If you can't select 4:3 aspect ratio type on your DVD player, please select 4:3 aspect ratio in the on screen menu.

Problem: Image is reversed
▶ Select "Management-->Projection" from the OSD and adjust the projection direction.

Problem: Lamp burns out or makes a popping sound
▶ When the lamp reaches its end of life, it will burn out and may make a loud popping sound. If this happens, the projector will not turn on until the lamp module has been replaced. To replace the lamp, follow the procedures in the "Replacing the Lamp".

Problem: LED lighting message

Message	Power-LED		Temp-LED	Lamp-LED
	(Green)	(Red)		
Standby State (Input power cord)	◯	☀	◯	◯
Warming	Flashing	◯	◯	◯
Normal Mode	☀	◯	◯	◯
Cooling	◯	Flashing	◯	◯
Error (Lamp failed)	◯	◯	◯	☀
Error (Fan failed)	◯	◯	◯	Flashing
Error (Over Temp.)	◯	◯	☀	◯

Steady light => ☀
No light => ◯

Problem: Message Reminders

▶ Fan fail:

> **Warning! FAN LOCKED**
>
> The projector will switch off automatically
>
> Please contact a service centre for repair

▶ Over temperature:

> **Warning ! TEMPERATURE TOO HIGH**
>
> The projector will switch off automatically
>
> Please:
>
> 1. Allow cool down for 3 minutes
>
> 2. Make sure air in and outlets are not blocked
>
> 3.Make sure the environment temperature is
>   under 35 degree C
>
> If the problem persists in spite of the above,
> please contact a service centre for repair.

▶ Power Off:

> Wait 1 minute before you can switch on again.
>
> Press "POWER" key again to confirm.
>
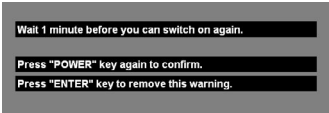> Press "ENTER" key to remove this warning.

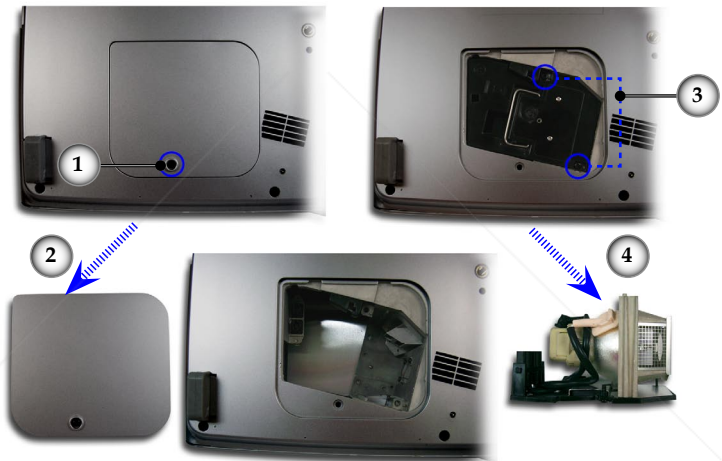▶ Replace the lamp:

> ⚠ Lamp life exceeded.

Replacing the Lamp

The projector keeps track of the lamp usage. It will show you a warning message

Note

⚠️Warning: Lamp compartment is hot! Allow 30 minutes to cool down before changing lamp!

When you see this message, change the lamp as soon as possible. Make sure the projector has cooled down for at least 30 minutes before changing the lamp.

Note

⚠️Warning: To reduce the risk of personal injury, do not drop the lamp module or touch the lamp bulb. The bulb may shatter and cause injury if it is dropped.

Lamp Replacement Procedure:

1. Switch off the power to the projector by pressing the Power/Standby button.
2. Allow the projector to cool down for at least 30 minutes.
3. Disconnect the power cord.
4. Use a screwdriver to remove the screws 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.

Compatibility Modes

Mode	Resolution	(ANALOG)		(DIGITAL)	
		V.Frequency (Hz)	H.Frequency (kHz)	V.Frequency (Hz)	H.Frequency (kHz)
VESA VGA	640 x 350	70	31.5	70	31.5
VESA VGA	640 x 350	85	37.9	85	37.9
VESA VGA	640 x 400	85	37.9	85	37.9
VESA VGA	640 x 480	60	31.5	60	31.5
VESA VGA	640 x 480	72	37.9	72	37.9
VESA VGA	640 x 480	75	37.5	75	37.5
VESA VGA	640 x 480	85	43.3	85	43.3
VESA VGA	720 x 400	70	31.5	70	31.5
VESA VGA	720 x 400	85	37.9	85	37.9
VESA SVGA	800 x 600	56	35.2	56	35.2
VESA SVGA	800 x 600	60	37.9	60	37.9
VESA SVGA	800 x 600	72	48.1	72	48.1
VESA SVGA	800 x 600	75	46.9	75	46.9
VESA SVGA	800 x 600	85	53.7	85	53.7
VESA XGA	1024 x 768	60	48.4	60	48.4
VESA XGA	1024 x 768	70	56.5	70	56.5
VESA XGA	1024 x 768	75	60.0	75	60.0
VESA XGA	1024 x 768	85	68.7	85	68.7
* VESA SXGA	1280 x 1024	60	63.98	60	63.98
* VESA SXGA	1280 x 1024	75	79.98	75	79.98
* VESA SXGA+	1400 x 1050	60	63.98	60	63.98
MAC LC 13″	640 x 480	66.66	34.98	***	***
MAC II 13″	640 x 480	66.68	35	***	***
MAC 16″	832 x 624	74.55	49.725	***	***
MAC 19″	1024 x 768	75	60.24	***	***
* MAC	1152 x 870	75.06	68.68	***	***
MAC G4	640 x 480	60	31.35	***	***
i MAC DV	1024 x 768	75	60	***	***
* i MAC DV	1152 x 870	75	68.49	***	***
* i MAC DV	1280 x 960	75	75	***	***

Note

Remark : "*" com-
pressed computer
image.

RS232 Commands

RS232 Connector   VGA-In Connector
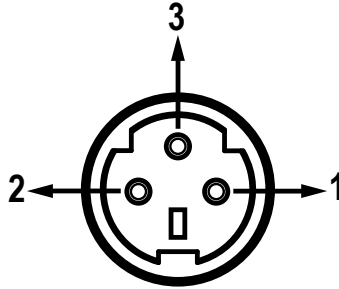
Pin no.	Name	I/O (From Projector Side
1	TXD	OUT
2	RXD	IN
3	GND	—

Pin no.	Spec.
1	R(RED)/Cr
2	G(GREEN)/Y
3	B(BLUE)/Cb
4	GND
5	GND
6	GND
7	GND
8	GND
9	DDC 5V
10	GND
11	GND
12	DDC Date
13	HD/CS
14	VD
15	DDC Clock

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 meet 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 another manufacturer, 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 as air-conditioning units and heaters otherwise it may overheat and shut down automatically.
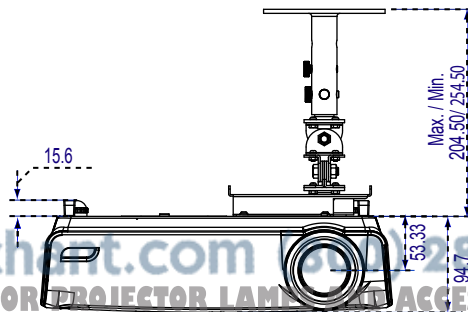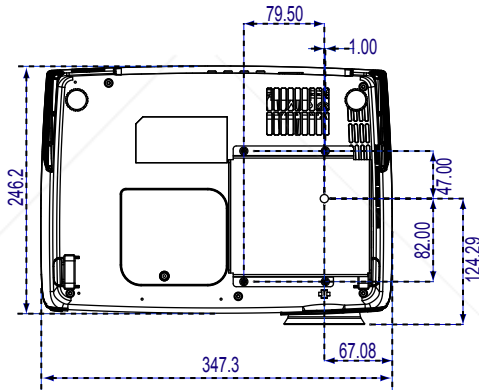
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