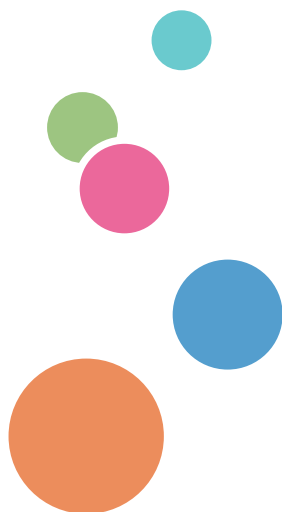




## User's Manual

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Read this manual carefully before you use this machine and keep it handy for future reference. For safe and correct use, be sure to read the Precautions in this manual before using the machine.



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# Usage Notice

## Precautions



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

- **Warning-** **Indicates a potentially hazardous situation which, if instructions are not followed, could result in death or serious injury.**
- **Caution-** **Indicates a potentially hazardous situation which, if instructions are not followed, may result in minor or moderate injury or damage to property.**
- **Warning-** Do not place vases, plant pots, cups, toiletries, medicines, small metal objects, or containers holding water or any other liquids, on or close to this machine. Fire or electric shock could result from spillage or if such objects or substances fall inside this machine
- **Warning-** Keep the machine and attachments out of the reach of children. If the machine is near children, it may cause injury.
- **Warning-** Plastic bags can be dangerous, please do not leave near babies and young children. To avoid the threat of suffocation, please keep away from their nose and mouth.
- **Warning-** Do not use any power sources other than those that match the specifications shown in this manual. Doing so could result in fire or electric shock.
- **Warning-** Do not damage, break, or modify the power cord. Also, do not place heavy objects on the power cord, or pull the cord or bend it severely. Doing so could result in fire or electric shock.
- **Warning-** Touching the prongs of the power cable's plug with anything metallic constitutes a fire and electric shock hazard.
- **Warning-** The supplied power cord is for use with this machine only. Do not use it with other appliances. Doing so could result in fire or electric shock.
- **Warning-** It is dangerous to handle the power cord plug with wet hands. Doing so could result in electric shock.



# Usage Notice

- **Warning-** Be sure to disconnect the plug from the wall outlet at least once a year and check for the following:
  - There are burn marks on the plug.
  - The prongs on the plug are deformed.If any of the above conditions exist, do not use the plug and consult your dealer or service representative. Use of the plug could result in fire or electric shock.
- **Warning-** Be sure to disconnect the power cord from the wall outlet at least once a year and check for the following:
  - The power cord's inner wires are exposed, broken, etc.
  - The power cord's coating has a crack or dent.
  - When bending the power cord, the power turns off and on.
  - Part of the power cord becomes hot.
  - The power cord is damaged.If any of the above conditions exist, do not use the power cord and consult your dealer or service representative. Use of the power cord could result in fire or electric shock.
- **Warning-** Do not use the connection cable if it is deformed, cracked, or damaged. Doing so could result in fire or electric shock. If the connection cable is deformed, cracked, or damaged, contact your service representative to request a replacement cable.
- **Warning-** When using an extension cord or power strip, only connect equipment whose total power consumption is within the power rating for the extension cord or power strip. If the power rating is exceeded, it may cause heat buildup and result in fire.
- **Warning-** Plastic bags can be dangerous, please do not leave near babies and young children. To avoid the threat of suffocation, please keep away from their nose and mouth.
- **Warning-** If the machine emits smoke or odours, or if it behaves unusually, you must turn off its power immediately. After turning off the power, be sure to disconnect the power cord plug from the wall outlet. Then contact your service representative and report the problem. Do not use the machine. Doing so could result in fire or electric shock.
- **Warning-** If metal objects, or water or other fluids fall inside this machine, you must turn off its power immediately.

# Usage Notice

After turning off the power, be sure to disconnect the power cord plug from the wall outlet. Then contact your service representative and report the problem. Do not use the machine. Doing so could result in fire or electric shock.

- Warning- Never operate this unit on AC power during a thunderstorm. If you see lightning or hear thunder, never touch the unit, cables and/or peripherals. An electric surge caused by the storm, may result in an electrical shock or damage to the unit.
- Warning- If the machine topples, or if a cover or other part gets broken, you must turn off its power immediately. After turning off the power, be sure to disconnect the power cord plug from the wall outlet. Then contact your service representative and report the problem. Do not use the machine. Doing so could result in fire or electric shock.
- Warning- Do not use lens cap when projector is powered on
- Warning- Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- Warning- Do not place or keep the projector within the reach of the children. It may fall or tip over, possibly causing serious injury
- Warning- Do not remove any covers or screws that are not mentioned in this manual. There are high voltage components inside the machine that may cause electric shock. Contact your service representative if any of the machine's internal components require maintenance, adjustment, or repair.
- Warning- Do not disassemble or modify the machine. Doing so may cause injury or malfunction.
- Warning- Installing the Projector on a Wall or Ceiling:
  - a) Do not attempt to clean or replace parts for a machine that is installed in a high location on a wall or ceiling. Doing so may cause it to fall down, resulting in an injury.
  - b) Do not open the lamp cover of a machine that is installed on a wall or ceiling. Doing so may cause the lamp cover to fall down. If the lamp is broken, pieces of glass may fall and cause an injury.

# Usage Notice

c) Contact your sales or service representative to clean or replace parts for a machine that is installed on a wall or ceiling.

d) If a machine is incorrectly installed on a wall or ceiling, it may fall down and cause an injury. Contact your sales or service representative if you want to install a machine on a wall or ceiling.

e) Do not obstruct the machine's vents. Doing so risks fire caused by overheated internal components.

f) For users, do not install the projector by yourself. Contact your sales or service representative if you want to install the projector on a wall or ceiling.

g) For sales or service representatives:

- Use brackets that are strong enough to support the projector.

\* PJ X2340/S2340 Series weighs 2.4kg.

- The projector must be installed in a location that is sturdy enough to support the full weight of the projector and brackets.

- Use only the screws (three M4~16 screws) provided with the projector to attach the brackets to the projector.

- Caution- Keep the machine away from humidity and dust. Otherwise a fire or an electric shock might occur.
- Caution- Do not place any objects on the machine. Doing so may cause the machine to topple over, possibly resulting in injury.
- Caution- Do not place the machine on an unstable or tilted surface. If it topples over, an injury might occur.
- Caution- Do not place the machine or use it in an environment where it might get wet such as from snow, rain, or being near water. Doing so could result in fire or electric shock.
- Caution- Do not put your face or hand near the exhaust vents. Doing so could result in burns or an accident due to hot air coming from the exhaust vents.
- Caution- Do not use the machine on soft material such as paper or cloth that might get sucked into the intake vents. Doing so may cause heat buildup inside the machine, resulting in malfunction, burns, or fire.
- Caution- Do not place the machine in a location where air flow is poor. Doing so may cause fire due to internal

# Usage Notice

- Caution- components becoming overheated.  
Do not place or store the machine in a location where direct sunlight or heat generation might occur. The heat may deform or wear out the exterior parts or negatively affect internal parts. Doing so could result in fire.
- Caution- Do not place low heat resistant material near the exhaust vents. Hot air may come from the exhaust vents, resulting in damage to the machine or an accident.
- Caution- Do not obstruct the machine's vents. Doing so risks fire caused by overheated internal components.
- Caution- Push the power plug all the way into the power outlet. Do not use a power outlet with a loose connection. Doing so may result in heat buildup. Plug the power cord in the correct direction into the base. If they are not plugged in correctly, it could result in smoke, fire, or electric shock.
- Caution- If this machine is not going to be used for several days or longer at a time, disconnect its power cord from the wall outlet.
- Caution- When disconnecting the power cord from the wall outlet, always pull the plug, not the cord. Pulling the cord can damage the power cord. Use of damaged power cords could result in fire or electric shock.
- Caution- Be sure to disconnect the plug from the wall outlet and clean the prongs and the area around the prongs at least once a year. Allowing dust to build up on the plug constitutes a fire hazard.
- Caution- When performing maintenance on the machine, always disconnect the power cord from the wall outlet.
- Caution- Do not place the power cord and connection cable in a way that might cause someone to trip and fall. The machine might fall over and cause an injury.
- Caution- The machine may be very hot after it is turned off, especially the vents and the lower part of the unit where the lamp is located. Avoid touching these areas. Doing so may result in burns.
- Caution- Do not place the machine on other equipment or vice versa. Doing so may cause heat buildup inside the machine or cause the other equipment to malfunction.
- Caution- Do not increase the volume unless you are listening while increasing the volume. Also, lower the volume

# Usage Notice

before turning off the power, because a loud sound may be emitted when the power is turned on and cause hearing damage.

- Caution- Do not tilt the machine horizontally more than  $\pm 20$  degrees. Doing so may cause the entrance of foreign objects in the housing of the machine which could result in fire or electric shock.
- Caution- If the machine's interior is not cleaned regularly, dust will accumulate. Fire and breakdown can result from heavy accumulation of dust inside this machine. Contact your sales or service representative for details about and charges for cleaning the machine's interior.
- Caution- Unplug the power cord from the wall outlet before you move the machine. While moving the machine, take care that the power cord is not damaged under the machine. Failing to take these precautions could result in fire or electric shock.
- Caution- Do not use attachments not recommended by RICOH. Use of an incompatible attachments could cause hazards or damage to the product.
- Caution- Unplug this product from the wall outlet and take the product to qualified service personnel if you encounter any of the following conditions:
  - a) The power supply cord or plug is damaged.
  - b) Liquid has been spilled, or objects have fallen into the product.
  - c) The product has been exposed to rain or water.
  - d) The product does not operate normally when following the operating instructions. Adjust only those controls that are covered by the operating instructions.
  - e) The product has been dropped or damaged in any way. (If the cabinet should break, please handle with care to avoid injury.)
- Caution- This product incorporates glass components, including a lens and a lamp. If these should break, please handle with care to avoid injury and contact your sales representative for repair service. Avoid any broken pieces of glass since they may cause injury. In the unlikely event that the lamp ruptures, thoroughly clean the area around the projector and discard any edible items placed in that area since they may be contaminated.

# Usage Notice

- Caution- Do not place anything in front of the lens while the projector is operating. Things placed in front of the lens may overheat and burn or start a fire.
- Caution- Unauthorized substitutions may result in fire, electric shock, or other hazards. (Only the replacement of the lamp should be made by users.)  
Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to verify that the product is in proper operating condition.
- Caution- Do not use the product in a closed installation location. Do not place the product in a box or in any other closed installation location. Otherwise it may overheat, which could result in a risk of fire.

## ABOUT THE LAMP

- **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”.
- **Warning-** Before replacing the lamp, turn off the power and wait at least one hour to allow the machine to cool completely. If it is not completely cool, you may burn or injure yourself due to the inside of the machine and lamp unit being hot. If you replace the lamp without unplugging the power cord from the power outlet, electric shock or explosion may occur.
- **Warning-** Be careful when handling the used lamp so that it does not break. If it breaks, it may cause injury.
- **Caution-** This projector will detect the life of the lamp itself. Be sure to change the lamp when it shows warning messages.
- **Caution-** The machine’s light uses a mercury vapor lamp that becomes high pressure when it is turned on. The lamp has the following characteristics, so be sure to handle it with care after understanding the contents. If the lamp explodes and you are either injured from broken pieces of glass, think you have gotten glass particles or mercury vapour in your eyes, or have inhaled glass particles or mercury vapour, contact a doctor immediately.
  - Deterioration or shock can cause the lamp’s life span to end or the lamp to explode. If the lamp explodes, it may make a big noise.
  - The time that it takes for the lamp to reach its life span or explode depends on each individual lamp and its operating conditions. It is possible that it might explode the first time it is used.
  - If you use the lamp past its replacement period, the possibility of explosion increases.
  - If the lamp explodes, broken glass pieces may be scattered around the inside of the machine and ejected from the vent or other opening.

# Usage Notice

■ If the lamp explodes, a very small amount of mercury vapor in the lamp tube and broken glass pieces may be ejected from the vents or other opening.

## **What to do if a lamp has exploded**

**If the lamp explodes, remove the power cord from the projector, leave the room while making sure it is thoroughly ventilated.**

**If the lamp explodes and you think that you have gotten glass particles or mercury vapor in your eyes or have inhaled either, contact a doctor immediately.**

**Clean up the area around the projector completely while being careful not to get injured from any broken glass pieces.**

**Throw away any food that was near the projector.**

**Ask your service representative to replace the lamp and inspect the projector.**



## REMOTE CONTROL BATTERY

### Warning

- Never throw batteries into a fire.

Using the batteries improperly may cause them to explode or leak and may result in serious injury. If battery-leaking fluid contacts skin, wash the fluid off immediately with clean water and consult a doctor. If the fluid spills on an instrument, avoid contact and wipe it off using tissue paper. Then dispose of the used tissue paper as flammable garbage after moistening the tissue with water.

- Keep new and used batteries away from children.

If the battery compartment does not close securely, stop using the product and keep it away from children. If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

### Notes

- Be sure to use CR2025 size battery.
- Dispose of batteries in a designated disposal area.
- Attention should be drawn to the environmental aspects of battery disposal.
- If the remote control does not operate correctly, or if the operating range becomes reduced, replace the batteries.
- Avoid contact with water or liquid.
- Do not expose the remote control to moisture or heat.
- Do not drop the remote control.
- If the battery has leaked in the remote control, carefully wipe the case clean and install new battery.
- Dispose of used batteries according to the instructions.
- The remote control may fail to operate if the infrared remote sensor is exposed to bright sunlight or fluorescent lighting.

**Important:**

*Contents of this manual are subject to change without prior notice. In no event will the company be liable for direct, indirect, special, incidental, or consequential damages as a result of handling or operating this product.*

# Usage Notice

## Safety Labels of This Machine

- 1 Do not block the air intake or exhaust. Doing so could cause a fire due to internal overheating. Do not place your hands, face, or other objects near the air exhaust, the lamp cover or the bottom of the unit. Doing so could result in injury and/or damage the object.
- 2 Do not place anything in front of the lens while the projector is operating. Things placed in front of the lens may overheat and burn or start a fire. If you want to temporarily stop the projected image, use the AV mute on the remote control or the keypad.
- 3 Do not look into the lens while the lamp is on. The strong light from the lamp may cause damage to your eyesight.
- 4 To replace the lamp, unplug the power cord and then wait for 60 minutes.
- 5 Do not remove any screws except the lamp cover screws. Do not block or cover the vents.

4 / 5

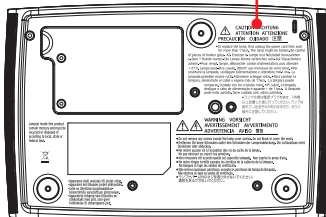
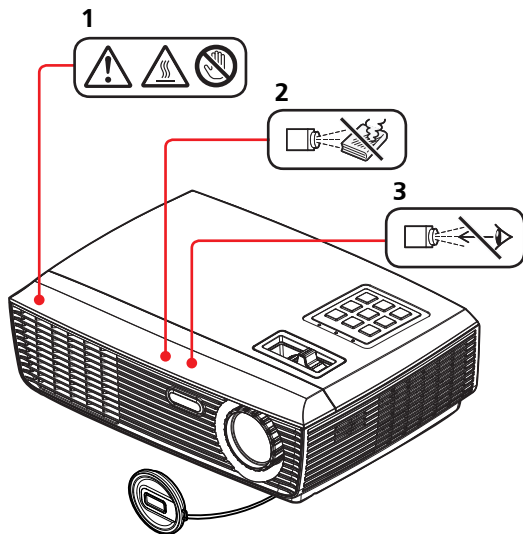
**CAUTION ACHTUNG**  
**ATTENTION ATTENZIONE**  
**PRECAUCIÓN CUIDADO 注意**

•To replace the lamp, first unplug the power cord then wait for more than 1 hour. The lamp might be broken. Be careful of pieces of broken glass. •Z. Ersetzen d. Lampe erst Netzabel herausziehen u. über 1 Stunde warten. Die Lampe könnte zerbrochen sein. Auf Glasscherben achten. •Pour rempl. lampe, débrancher cordon d'alimentation, puis attendre + d'1 h. Lampe peut-être cassée. Attention aux morceaux de verre brisé. •Per sostituire la lampada, scollegare l'alimentazione e attendere min.1 ora. La lampada potrebbe essere rotta. Attenzione schegge vetro. •Para cambiar la lámpara, desenchufe el cable y espere más de 1 hora. La lámpara puede romperse. Cuidado con los cristales rotos. •P/ substit. a lâmpada, desligue o cabo de alimentação e aguarde + de 1 hora. A lâmpada pode estar partida. Tome cuidado com vidros partidos.

•ランプ交換は電源プラグを抜き、1時間以上放置した後に行ってください。ランプは割れているおそれがありますので、ガラス破片に注意してください。

**WARNING VORSICHT**  
**AVERTISSEMENT AVVERTIMENTO**  
**ADVERTENCIA AVISO 警告**

- Do not remove any screws except the lamp cover screws. Do not block or cover the vents.
- Entfernen Sie keine Schrauben außer den Schrauben der Lampenabdeckung. Die Luftauslässe nicht blockieren oder abdecken.
- Ne retirez aucune vis à l'exception des vis du cache de la lampe.
- Ne pas obstruer ou couvrir les aérations.
- Non rimuovere viti eccetto quelle sul coperchio lampada. Non coprire le prese d'aria.
- No retire ningún tornillo excepto los tornillos de la cubierta de la lámpara.
- No bloquee ni tape las salidas de ventilación.
- Não remova quaisquer parafusos, excepto os parafusos da tampa da lâmpada.
- Não obstrua ou tape as saídas de ventilação.
- ランプカバー以外のネジを取り外さないでください。
- 通気孔をふさがしないでください。



If you wish to discard this product, please contact your local authorities, the shop where you bought this product, your local dealer or sales/service representatives.

# Usage Notice


## Regulation & Safety Notices

*This appendix lists the general notices of your Projector.*

### **Notice: Users in the United States of America**

#### **FCC notice**

**MODEL NAME: RICOH PJ X2340/S2340**

TRADE NAME: PROJECTOR  
MODEL NAME: RICOH PJ X2340/S2340  
Tested To Comply  
 With FCC Standards  
FOR HOME OR OFFICE USE

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, including interference that may cause undesired operation.

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.

# Usage Notice

RESPONSIBLE PARTY: Ricoh Americas Corporation  
5 Dedrick Place, West Caldwell, NJ 07006  
Phone: 973-882-2000

## ***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 projector.

LAMP(S) INSIDE THIS PRODUCT CONTAIN MERCURY  
AND MUST BE RECYCLED OR DISPOSED OF  
ACCORDING TO LOCAL, STATE OR FEDERAL LAWS.

## ***Notes to Users in the State of California***

Perchlorate Material - special handling may apply, See [www.dtsc.ca.gov/hazardouswaste/perchlorate](http://www.dtsc.ca.gov/hazardouswaste/perchlorate).

**WARNING:** Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm.  
*Wash hands after handling.*

## ***Notes to Canadian Users***

## ***Remarques à l'attention des utilisateurs au Canada***

### **Contains mercury / Contient du mercure**

For more information on safe handling procedures, the measures to be taken in case of accidental breakage and safe disposal option visit:

[www.ec.gc.ca/mercure-mercure](http://www.ec.gc.ca/mercure-mercure)

Dispose of or recycle in accordance with applicable laws.

Pour plus d'informations sur les procédures de manutention sécuritaire, les mesures à prendre en cas de bris accidentel et option d'élimination sécuritaire visitez:

[www.ec.gc.ca/mercure-mercure/default.asp?lang=Fr&n=DB6D2996-1](http://www.ec.gc.ca/mercure-mercure/default.asp?lang=Fr&n=DB6D2996-1)

Éliminez ou les recyclez conformément aux lois applicables.

# Usage Notice

## *Declaration of Conformity for EU countries*

- EMC Directive 2004/108/EC (including amendments)
- Low Voltage Directive 2006/95/EC

## *Notice: Users in EU countries*

### *CE Marking Traceability Information (For EU Countries Only)*

Manufacturer:  
Ricoh Co., Ltd.  
3-6 Nakamagome 1-chome, Ohta-ku, Tokyo. 143-8555,  
Japan

Importer:  
Ricoh Europe PLC  
20 Triton Street, London. NW1 3BF, United Kingdom

## *User Information on Electrical and Electronic Equipment*

Users in the countries where this symbol shown in this section has been specified in national law on collection and treatment of E-waste.

Our Products contain high quality components and are designed to facilitate recycling.  
Our products or product packaging are marked with the symbol below.



This product contains substances which are harmful to humans and the environment.

# Usage Notice

- The lamp contains mercury.

Please dispose of this product or used lamps in accordance with local regulations.

The symbol indicates that the product must not be treated as municipal waste. It must be disposed of separately via the appropriate return and collection systems available. By following these instructions you ensure that this product is treated correctly and help to reduce potential impacts on the environment and human health, which could otherwise result from inappropriate handling. Recycling of products helps to conserve natural resources and protect the environment.

For more detailed information on collection and recycling systems for this product, please contact the shop where you purchased it, your local dealer or sales/service representatives.

## *Notice: Users in Turkey*

EEE Yönetmeliğine Uygundur.

Bu sistem sarf malzemeleri ve yedek parçaları da dahil olmak üzere EEE Yönetmeliğine Uygundur.

## *All Other Users*

If you wish to discard this product, please contact your local authorities, the shop where you bought this product, your local dealer or sales/service representatives.

# Usage Notice

## *Notice: Users in the EU*

### *Note for the Battery and/or Accumulator Symbol*



In accordance with the Battery Directive 2006/66/EC Article 20 Information for end-users Annex II, the above symbol is printed on batteries and accumulators. This symbol means that in the European Union, used batteries and accumulators should be disposed of separately from your household waste. In the EU, there are separate collection systems for not only used electrical and electronic products but also batteries and accumulators. Please dispose of them correctly at your local community waste collection/recycling centre.

## *Notice: Users in Taiwan*



廢電池請回收

請勿將電池當作一般垃圾丟棄。這個標誌表示電池不應視為一般垃圾丟棄。僅適用於台灣。

## Other Information

### Copyrights to Images

When projecting images using the projector, be careful not to infringe the copyright of protected materials.

The following are examples that may infringe the copyright of protected materials.

- Broadcasting images or movies for commercial purposes
- Modifying images or movies using functions such as freeze, magnify, or zoom to broadcast images for commercial purposes or public viewing
- Varying the aspect ratio of images or movies using a function that changes the screen size to broadcast images for commercial purposes or public viewing

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### Note to Users Viewing 3D Images

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Pay attention to the following points when viewing images using 3D glasses with projector:

- How 3D images are viewed may vary according to the individual.
- Do not use 3D glasses for viewing any material other than 3D images.
- Before viewing 3D images, make sure to read the manuals provided with your 3D glasses and 3D compatible content.
- Avoid viewing 3D images for a long period of time. Take a break of 15 minutes or longer after every hour of viewing.
- If you feel sick while viewing 3D images, stop viewing them. If you continue to feel sick, consult a doctor.
- When viewing 3D image in a room where on LED lighting system or fluorescent lights are used, you may feel that the light in the room flickers. If this is the case, dim the lights until you do not notice any flickers, or turn off the lights.
- If you or any member of your family has a history of light-sensitive seizures, consult a doctor before viewing 3D images.



## Product Features

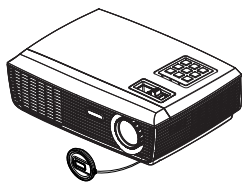
*Outstanding features include:*

- RICOH PJ S2340 (SVGA(800×600))/  
RICOH PJ X2340 (XGA(1024×768))
- Single chip DLP® technology
- NTSC3.58/NTSC4.43/PAL(B/D/G/H/I/M/N)/  
SECAM (B/D/G/K/K1/L) and SDTV(480i/576i),  
EDTV(480p/576p), HDTV(720p/1080i/1080p)  
compatible
- Multi-Auto functions: Auto detection, Auto image and  
Auto saving the adjustments
- Full function remote control
- User friendly multilingual on screen display
- Advanced digital keystone correction and high quality  
full screen image re-scaling
- Built-in mono 2-Watt speaker.
- UXGA, WXGA, SXGA+, SXGA, XGA compression and  
VGA re-sizing
- Macintosh compatible

# Introduction

## Package Overview

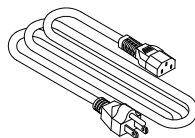
*This projector comes with all the items shown below. Check to make sure your unit is complete. Contact your dealer immediately if anything is missing.*



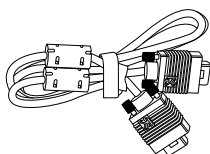
Projector with lens cap



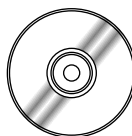
Remote Control (CR2025  
Battery is contained)



Power Cord



VGA Cable



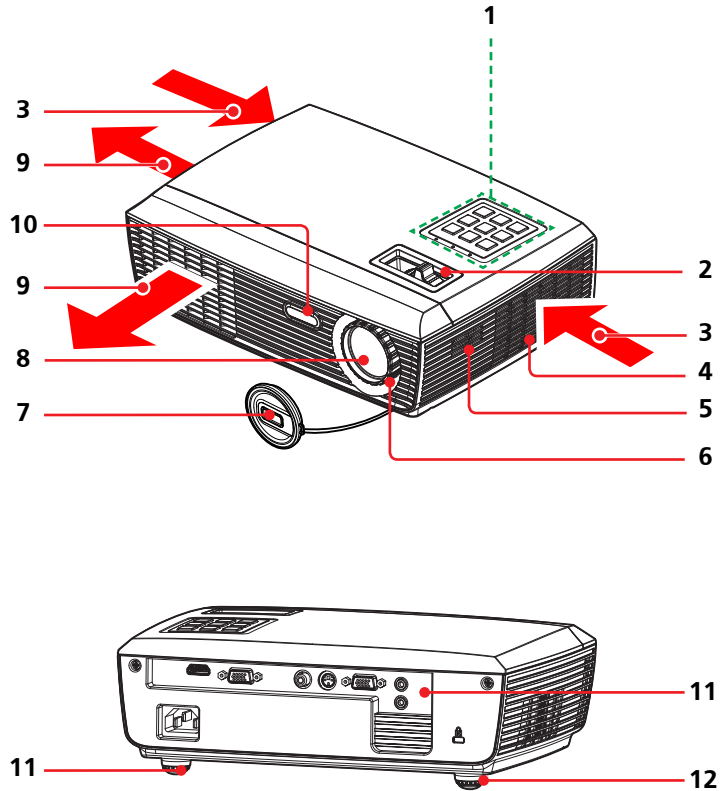
CD-ROM

### Documentation:

- ☐ Read This First
- ☐ Warranty Card

# Introduction

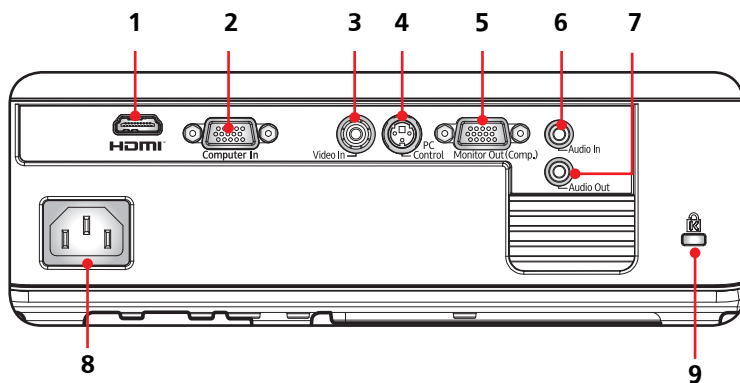
## Product Overview



- |                        |                            |
|------------------------|----------------------------|
| 1. Control panel       | 7. Lens cap                |
| 2. Zoom lever          | 8. Lens                    |
| 3. Ventilation (inlet) | 9. Ventilation (outlet)    |
| 4. Dust filter         | 10. Infrared remote sensor |
| 5. Speaker             | 11. Connection ports       |
| 6. Focus ring          | 12. Adjustable feet        |

# Introduction

## Connection Ports



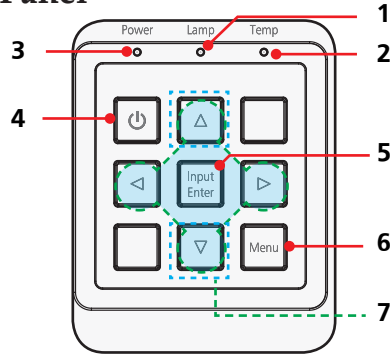
### Note

❖ Monitor Out terminal outputs the signal which is inputted to Computer In terminal when VGA OUT (Standby) is set to "off".

1. HDMI terminal
2. COMPUTER IN/COMPONENT IN terminal
3. VIDEO IN terminal
4. PC CONTROL terminal
5. MONITOR OUT terminal
6. AUDIO IN Jack
7. AUDIO OUT Jack
8. AC IN socket
9. Kensington lock™

# Introduction

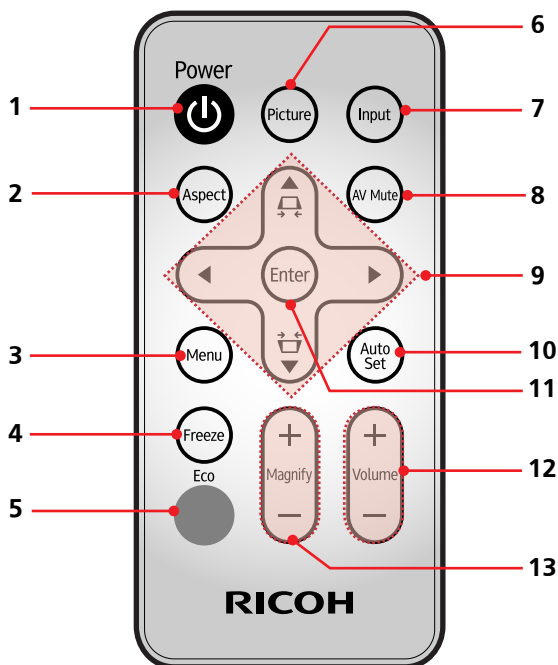
## Control Panel



1	Lamp indicator	Indicate the projector's lamp status.
2	Temp indicator	Indicate the projector's temperature status.
3	Power indicator	Indicate the projector's status.
4	Power	Refer to the "Power On/Off the Projector" section. Please see pages 30~31.
5	Enter/Input	Confirm your section of items in sub menu operation. When the OSD menu appears, press "Input" to choose RGB, Component, S-Video, HDMI, and Composite sources.
6	Menu	Press "Menu" to launch the Onscreen display (OSD), back to the top level of OSD for the OSD main menu operation.
7	Four Directional Select Keys	Use ▲ or ▼ or ◀ or ▶ to select items or make adjustments to your selection.

# Introduction

## Remote Control



1	Power Button	Turns the projector on/off.
2	Aspect Button	Select aspect ratio among Auto, 4:3,16:9, 16:10.
3	Menu Button	Turns the main menu on/off or returns to upper level in the menu operations.
4	Freeze Button	The screen will be frozen.
5	Eco Button	Displays Lamp Power mode menu.
6	Picture Button	Selects the color mode among Dynamic, PC, Movie, Game and User.
7	Input Button	Displays source select menu.

# Introduction

## Note

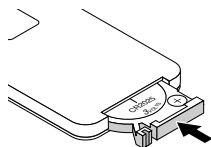
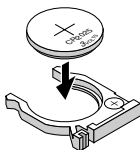
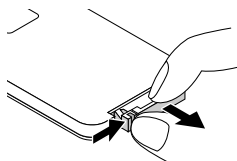
❖ When “AV MUTE” is set to “On”, the projector may turn off automatically after a certain time, depending on “Auto Power Off (Min)” setting.

8	AV Mute Button	Mutes audio and video.
9	▲▼◀▶ Buttons	Uses to operate menu. Keystone can be adjusted by pressing ▲ and ▼ buttons when menu is not displayed.
10	Auto Set Button	Automatically synchronize the projector to the input source.
11	Enter Button	Confirm your section of items in menu system.
12	Volume +/- buttons	Adjust sound level.
13	Magnify +/- buttons	Adjusts magnification ratio of the displayed image.

# Introduction

## Remote Control Battery Installation

- 1 Press firmly and slide the battery cover off.
- 2 Remove the old battery and install new one (CR2025). Ensure that the side with a "+" is facing up.
- 3 Put the cover back



To ensure safe operation, please observe the following precautions :

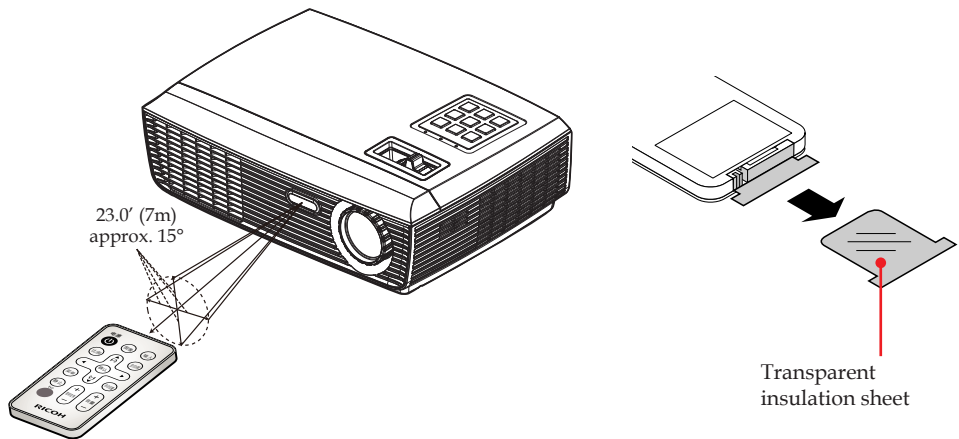
- Never throw batteries into a fire.
- Do not ingest battery, Chemical Burn Hazard.
- Keep new and used batteries away from children.

For more detailed information, please see page 11.



## Remote Control Operating Range

- When pointing the remote control directly toward the projector (Remote control signal receiver), operating range for the remote control is within 7 m (23.0 ft). Also, operation range available for four directions (up, down, left, right to the projector) is  $\pm 15^\circ$  and the operation distance may become short.
- If there are any obstacles between the remote control and the remote control signal receiver, the remote control may not operate correctly.
- You can operate the projector by reflecting the remote control signal on the screen. The operating range may differ due to the loss of light caused by the properties of the screen.
- When the remote control signal receiver is lit with a fluorescent light or other strong light source, the projector may become inoperative. Set the projector as far from the luminous source as possible.
- You can operate all of the functions of the projector via the remote control. Make sure not to lose the remote control.
- Before using the remote control for the first time, remove the transparent insulation sheet.



# Basic Operations

## Connecting the Projector

### Connect to Computer/Notebook

#### Note

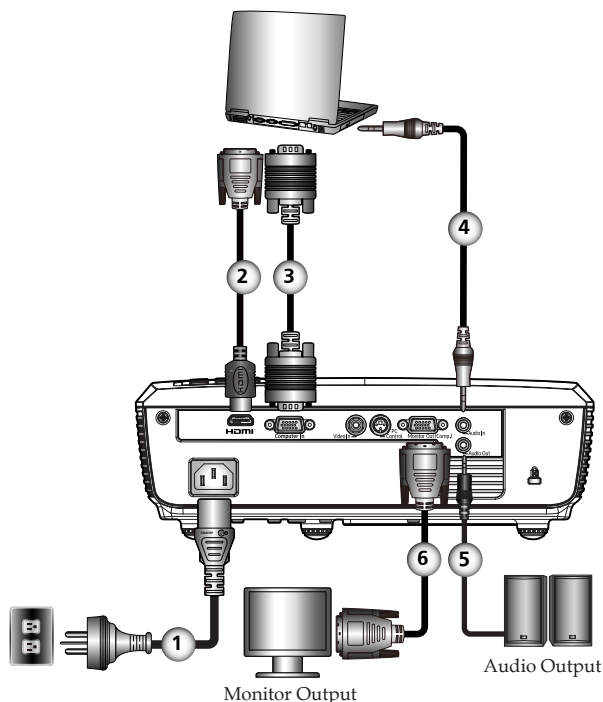
- ❖ Make sure that the power plug is fully inserted into both the projector AC inlet and the wall outlet.
- ❖ The AC outlet must be near this equipment and must be easily accessible.

#### Note

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

#### Note

- ❖ Monitor Out terminal outputs the signal which is inputted to Computer In terminal when VGA OUT (Standby) is set to "Off".



1.....	Power Cord (supplied)
2.....	HDMI Cable
3.....	VGA Cable (supplied)
4.....	Audio In Cable
5.....	Audio Out Cable
6.....	Monitor Out cable

- ❖ To ensure the projector works well with your computer, please make sure the timing of the display mode is compatible with your projector. Please see pages 58~60.
- ❖ Use the cables that come with the projector.

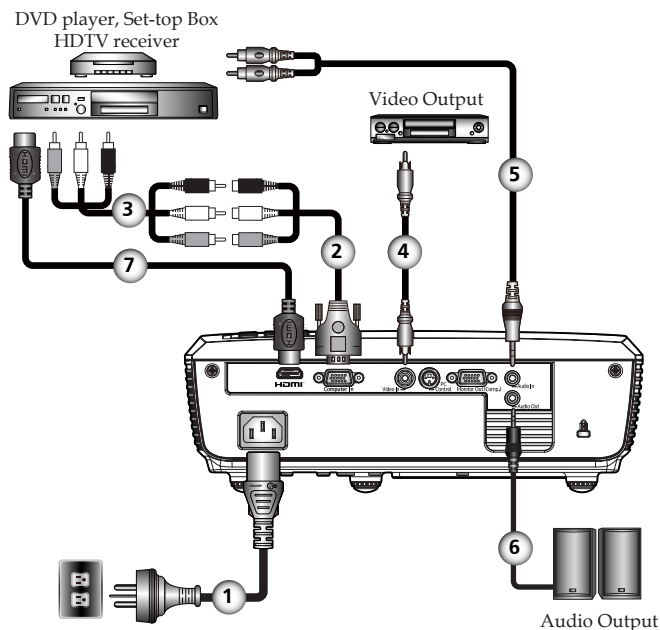
# Basic Operations

## Note

❖ Make sure that the power plug is fully inserted into both the projector AC inlet and the wall outlet.

❖ The AC outlet must be near this equipment and must be easily accessible.

## Connect to Video



## Note

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

- |        |                       |
|--------|-----------------------|
| 1..... | Power Cord (supplied) |
| 2..... | Component-RGB Cable   |
| 3..... | 3 RCA Component Cable |
| 4..... | Composite Video cable |
| 5..... | Audio In Cable        |
| 6..... | Audio Out Cable       |
| 7..... | HDMI cable            |

❖ To ensure the projector works well with your computer, please make sure the timing of the display mode is compatible with your projector.

# Basic Operations

## Powering On/Off the Projector

### Powering On the Projector

1. Ensure that the power cord and signal cable are securely connected. The Power indicator will turn red.
2. Remove the lens cap. ❶
3. Turn on the lamp by pressing “Power” on the control panel or the remote control. ❷ The Power indicator will flash blue. The startup screen will display in approximately 5 seconds. After the screen disappears, the Power indicator will turn blue.  
The first time you use the projector after purchase, the language menu is displayed after the startup screen. Please see page 46.
4. Turn on your source (computer, notebook, video player, etc.) The projector will detect your source automatically.

#### CAUTION:

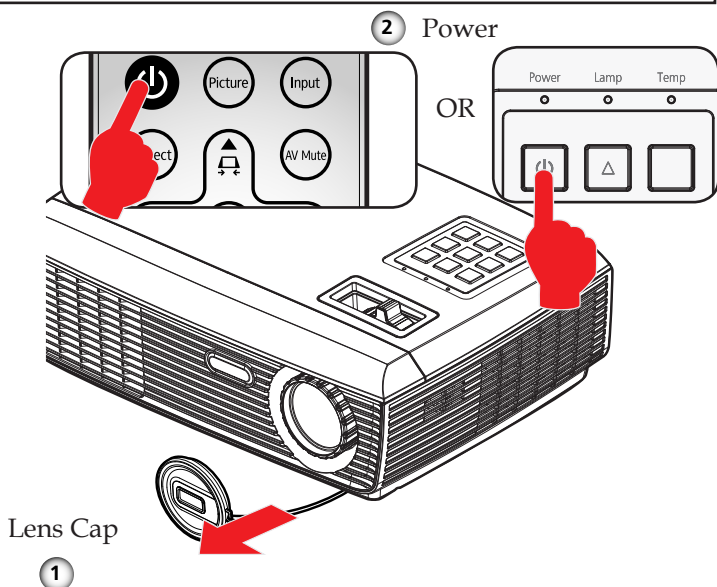
- Do not look into the lens while the lamp is on. The strong light from the lamp may cause damage to your eyesight.
- Do not block the air intake or exhaust. Doing so could cause a fire due to internal overheating.
- Do not place your hands, face, or other objects near the air exhaust, the lamp cover or the bottom of the unit. Doing so could result in injury and/or damage the object.
- Do not block the light from projection lens by anything when you want to stop projection. Doing so could cause a fire due to heating by strong light. Please use “AV Mute” function for this purpose.

#### Note

❖ If you connect multiple sources at the same time, use the “Input” on the remote control.

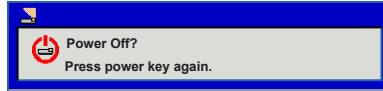
#### Note

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



## Powering Off the Projector

1. Press the “Power” to turn off the projector lamp, you will see a message as below on the on-screen display.



2. Press the “Power” again to confirm.
3. The cooling fan continues to operate for about 60 seconds for cooling cycle and the Power indicator will flash red. When the light stop flashing, the projector has entered standby mode.

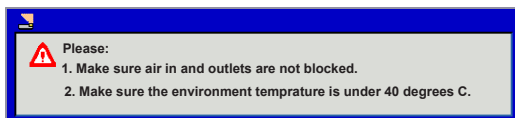
If you wish to turn the projector back on, you must wait until the projector has completed the cooling cycle and has entered standby mode. Once in standby mode, simply press “Power” to restart the projector.

4. Disconnect the power cord from the electrical outlet and the projector.

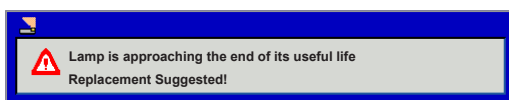
# Basic Operations

## Warning Indicator

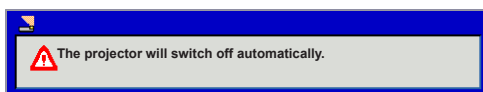
- ❖ When the “Temp” indicator lights red, it indicates the projector has overheated. The projector will automatically shut itself down.



- ❖ When the “Lamp” indicator lights red, and you see the message below displays on-screen, the projector has detected that the lamp is approaching its end of life. Please change the lamp as soon as possible or contact your local dealer or our service center.



- ❖ When the “Temp” indicator flashes red (0.5 sec on, 0.5 secs off) and the message below displays on-screen, it indicates the fan failed. Stop using the projector and disconnect the power cord from the electrical outlet, then contact your local dealer or our service center.



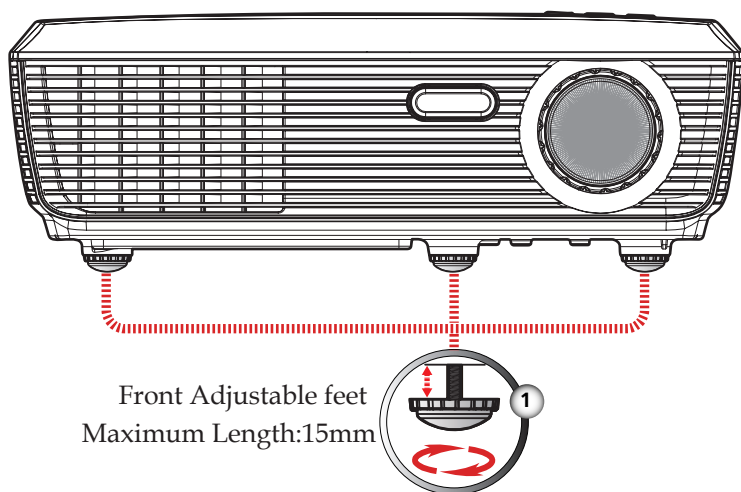
## Adjusting the Projected Image

### Adjusting the Height of Projector Image

*The projector is equipped with adjustable feet to raise and lower the image to fill the screen.*

To raise/lower the image:

1. Use ❶ to fine-tune the display angle.



#### Note

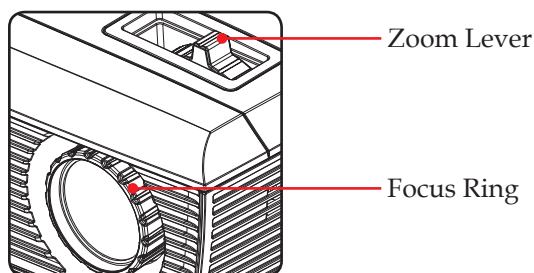
❖ You can raise the projector front up to 6 degrees by rotating the adjustable feet.

# Basic Operations

## Adjusting the Projector Zoom and Focus

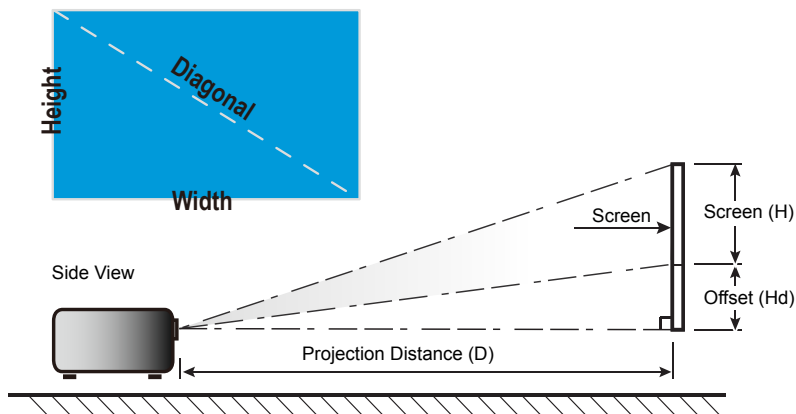
You may turn the zoom lever to zoom in or out. To focus the image, rotate the focus ring until the image is clear.

- The projector will focus at distances from 3.9 to 43.0 feet (1.2 to 13.1 meters).



## Adjusting Projection Image Size

- Projection Image Size from 30" to 300" (0.7 to 7.6 meters).





# Basic Operations

## RICOH PJ X2340/S2340


Diagonal length (inch) size of 4:3 Screen	Screen Size W x H				Projection Distance (D)				Offset (Hd)	
	(m)		(inch)		(m)		(feet)			
	Width	Height	Width	Height	wide	tele	wide	tele	(m)	(feet)
30	0.61	0.46	24	18	1.2	1.3	3.9	4.3	0.07	0.22
40	0.81	0.61	32	24	1.6	1.8	5.2	5.7	0.09	0.30
50	1.02	0.76	40	30	2.0	2.2	6.4	7.2	0.11	0.37
60	1.22	0.91	48	36	2.4	2.6	7.7	8.6	0.14	0.45
70	1.42	1.07	56	42	2.8	3.1	9.0	10.0	0.16	0.52
80	1.63	1.22	64	48	3.1	3.5	10.3	11.5	0.18	0.60
90	1.83	1.37	72	54	3.5	3.9	11.6	12.9	0.21	0.67
100	2.03	1.52	80	60	3.9	4.4	12.9	14.3	0.23	0.75
110	2.24	1.68	88	66	4.3	4.8	14.2	15.8	0.25	0.82
120	2.44	1.83	96	72	4.7	5.2	15.4	17.2	0.27	0.90
130	2.64	1.98	104	78	5.1	5.7	16.7	18.9	0.30	0.97
140	2.84	2.13	112	84	5.5	6.1	18.0	20.1	0.32	1.05
150	3.05	2.29	120	90	5.9	6.6	19.3	21.5	0.34	1.12
160	3.25	2.44	128	96	6.3	7.0	20.6	22.9	0.37	1.20
170	3.45	2.59	136	102	6.7	7.4	21.9	24.4	0.39	1.27
180	3.66	2.74	144	108	7.1	7.9	23.2	25.8	0.41	1.35
190	3.86	2.90	152	114	7.5	8.3	24.5	27.2	0.43	1.42
200	4.06	3.05	160	120	7.8	8.7	25.7	28.7	0.46	1.50
210	4.27	3.20	168	126	8.2	9.2	27.0	30.1	0.48	1.57
220	4.47	3.35	176	132	8.6	9.6	28.3	31.5	0.50	1.65
230	4.67	3.51	184	138	9.0	10.1	29.6	33.0	0.53	1.72
240	4.88	3.66	192	144	9.4	10.5	30.9	34.4	0.55	1.80
250	5.08	3.81	200	150	9.8	10.9	32.2	35.8	0.57	1.87
260	5.28	3.96	208	156	10.2	11.4	33.5	37.3	0.59	1.95
270	5.49	4.11	216	162	10.6	11.8	34.7	38.7	0.62	2.02
280	5.69	4.27	224	168	11.0	12.2	36.0	40.1	0.64	2.10
290	5.89	4.42	232	174	11.4	12.7	37.3	41.6	0.66	2.17
300	6.10	4.57	240	180	11.8	13.1	38.6	43.0	0.69	2.25

# User Settings

## On Screen Display (OSD)

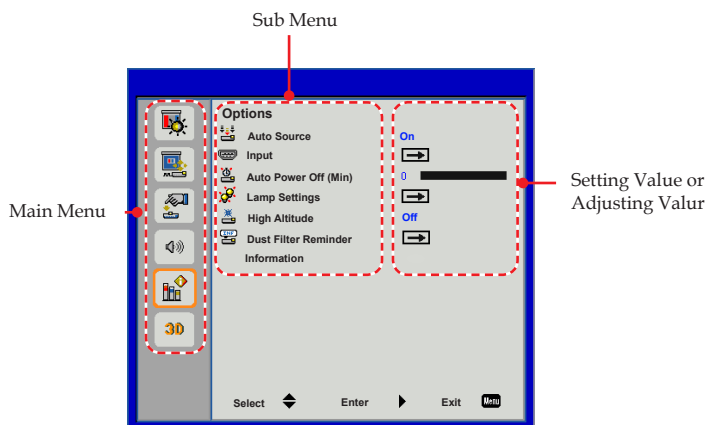
*The Projector has a multilingual On Screen Display that allows you to make image adjustments and change a variety of settings. The projector will automatically detect the source.*

### How to operate

1. To open the OSD, press “Menu” on the Remote Control or the keypad.
2. When OSD is displayed, use ▲ ▼ keys to select any item in the main menu. While making a selection on a particular, press ► key to enter sub menu.
3. Use ▲ ▼ keys to select the desired item in the sub menu and press “Enter” to adjust the settings by ◀▶ or ▲ ▼ key. To exit from adjusting the item, press “Enter” again.
4. If  is shown in the setting, you can press ► or “Enter” to enter another sub menu. Press “Menu” to close the sub menu after adjustment.
5. After adjusting the settings, press “Menu” to go back to the main menu.
6. To exit, press “Menu” again. The OSD will be closed and the projector will automatically save the new settings.

#### Note

❖ If no button operation is made for 10 seconds, the OSD will be closed automatically.



# User Settings

## Menu Tree

Main Menu	2nd Level	3rd Level	4th Level	Default Value	Range
Picture	Color Mode	Dynamic		Depends on the signal type and on changes to Color Mode and User Mode settings.	
		PC			
		Movie			
		Game			
		User			
	Wall Color	White		White	
		Light Yellow			
		Light Blue			
		Pink			
		Dark Green			
	Brightness			Depends on Color Mode.	0 ~ 100
	Contrast			Depends on Color Mode.	0 ~ 100
	Sharpness			Depends on Color Mode.	0 ~ 31
	Saturation			Depends on Color Mode.	0 ~ 100
	Hue			Depends on Color Mode.	0 ~ 100
	Gamma			Depends on Color Mode.	0 ~ 3
	Color Temp	Low		Depends on Color Mode.	
		Mid			
		High			
	RGB Input Range	Auto		Auto	
		Standard			
		Full			

# User Settings

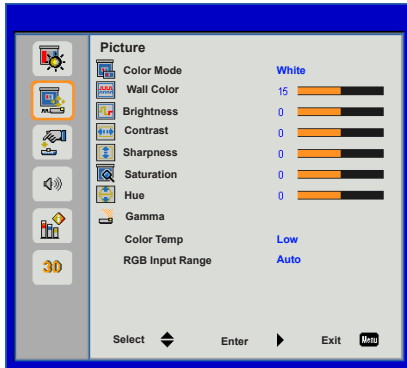
Main Menu	2nd Level	3rd Level	4th Level	Default Value	Range
Position	Aspect Ratio	Auto		Auto	
		4:3			
		16:9			
		16:10			
	Phase			Depends on Input Signal.	0 ~ 31
	Clock			Depends on Input Signal.	'-5~+5
	H.Position			Depends on Input Signal.	Depends on Input Signal (usually, min = -30, max = 30).
	V.Position			Depends on Input Signal.	Depends on Input Signal (for example, -5~5).
	Digital Zoom			0	0 ~ 10
	V Keystone			0	-40~+40
	Ceiling Mount	Front		Front	
		Front Ceiling			
		Rear			
		Rear Ceiling			

# User Settings

Main Menu	2nd Level	3rd Level	4th Level	Default Value	Range
Setting	Language	English		English	
		German			
		French			
		Italian			
		Spanish			
		Polish			
		Swedish			
		Dutch			
		Portugese			
		Traditional Chinese			
		Simplified Chinese			
		Korean			
		Russian			
		Arabic			
		Norwegian			
		Turkish			
		Thailand			
		Czech			
		Hungarian			
		Kazakh			
	VGA OUT (Standby)	Off		Off	
		On			
	Security	Security	Off		
			On		
		Change Password			
	Reset	Yes		No	
		No			
Audio	Mute	On		Off	
		Off			
	Volume			20	0 ~ 32

# User Settings

Main Menu	2nd Level	3rd Level	4th Level	Default Value	Range
Options	Auto Source	On		On	
		Off			
	Input	HDMI		Search all source	
		Computer			
		Video			
	Auto Power Off(Min)			20	0~120
	Lamp Settings	Lamp Hours Used (Normal)		0	infinite
		Lamp Hours Used (ECO)		0	infinite
		Lamp Life Reminder	Off	On	
			On		
		Lamp Power Mode	Normal	Normal	
			Auto		
			ECO		
		Clear Lamp Hours	Yes		
			No		
	High Altitude	On		Off	
		Off			
	Dust Filter Reminder	Filters Remind(Hour)			
		Cleaning up reminder	Yes	No	
			No		
Options	Information	Model Name			
		Source			
		Resolution			
		Software Version			
		Color Space			
		Aspect Ration			
3D	3D	Off		Auto	
		On			
		Auto			
	3D Invert	On		Off	
		Off			
	3D Format	Side-by-Side (Half)			
		Top and Bottom			
		Frame Sequential			



## Picture

### Color Mode

There are factory presets optimized for various types of images.

- ▶ Dynamic: For bright room.
- ▶ PC: For computer or notebook.
- ▶ Movie: For home theater.
- ▶ Game: For games.
- ▶ User: Color mode user adjusted.

### Wall Color

Select an appropriate color for wall projection.

- ▶ White: For white color.
- ▶ Light Yellow: For light yellow color.
- ▶ Light Blue: For light blue color.
- ▶ Pink: For pink color.
- ▶ Dark Green: For dark green color.

### Brightness

Adjust the brightness of the image.

- ▶ Press the ► to increase the brightness of the screen (up to 100).
- ▶ Press the ◀ to reduce the brightness of the screen (minimum value 0).

# User Settings

## Contrast

Adjust the contrast.

- ▶ Press the ► to increase the contrast of the screen (up to 100).
- ▶ Press the ◀ to decrease the contrast of the screen (minimum value 0).

## Sharpness

Adjust the sharpness of the projected image.

- ▶ Press the ► to make contours to become sharper (up to 31).
- ▶ Press the ◀ to make the contours to become softer (minimum value 0).

## Saturation

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

- ▶ Press the ► to increase the intensity of the color (up to 100).
- ▶ Press the ◀ to decrease the intensity of the color (minimum value 0).

## Hue

Adjust the skin tone.

- ▶ Press the ► to adjust the color to be greenish (up to 100).
- ▶ Press the ◀ to adjust the color to be reddish (minimum value 0).

## Gamma

Adjust the gamma table when the dark areas or bright areas of the image is not clear.

- ▶ Press the ► to emphasize detail in dark areas of image (up to +3).
- ▶ Press the ◀ to emphasize detail in bright areas of image (minimum value 0).

## Color Temp

Select the color temperature.

- ▶ Low: The screen image looks warmer.
- ▶ Mid: The medium color temperature.
- ▶ High: The screen image looks colder.

### Note

❖ "Sharpness" and "Saturation" can be adjusted only when Video is selected.

### Note

❖ "Hue" can be adjusted only when Video is selected and the color mode is NTSC or NTSC 4:4:3.



## Note

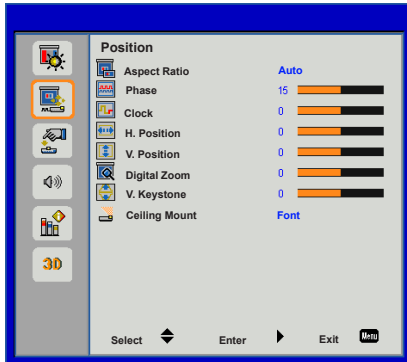
❖ "RGB Input Range" can be adjusted only when HDMI is selected".

## RGB Input Range

Set the RGB Input Range.

- ▶ Auto: Set the RGB input range automatically.
- ▶ Standard: Use to make the black color on the image become lighten.
- ▶ Full: Use when the dark area on the image is too dark.

# User Settings



## *Position*

### Aspect Ratio

Use this function to choose your desired aspect ratio.

- ▶ Auto: The projector displays the image by automatically switching the screen sizes between 4:3 and 16:9.
- ▶ 4:3: Input signal is displayed to full screen. This mode is for 4:3 aspect images.
- ▶ 16:9: Input signal is displayed with 16:9 aspect in the center of the screen. This mode is for 16:9 aspect signals.
- ▶ 16:10: This format is for 16:10 input sources, like wide screen laptop.

### Phase

Adjust to achieve an optimal image when there is a flickering image.

### Clock

Adjust to achieve an optimal image when there is a vertical flickering in the image.

### H. Position (Horizontal Position)

Shift the projected image position horizontally.

### V. Position (Vertical Position)

Shift the projected image position vertically.

## Note

❖ When the Digital Zoom is in the enlarge status, exits the menu screen and the Zoom picture will display at the bottom left of the screen.

## Digital Zoom

Adjust the magnification of the image. Magnification can be set from 1.0x to 2.0x in 0.1 increments.

## V. Keystone

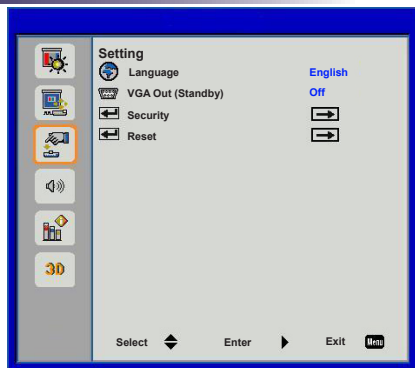
This function is used to adjust keystone distortion of the projected image.

## Ceiling Mount

This function is used to project the image from a ceiling-mounted projector.

- ▶ Front: When setting on a desk/floor and projected from front side of the screen.
- ▶ Front Ceiling: When mounting on the ceiling and projected from front side of the screen.
- ▶ Rear: When setting on a desk/floor and projected from back side of the screen. (Using translucent screen).
- ▶ Rear Ceiling: When mounting on the ceiling and projected from back side of the screen. (Using translucent screen).

# User Settings



## Setting

### Language

The language used in the On-Screen Menu is available in English, German, Spanish, French, Italian, Dutch, Portuguese, Simplified Chinese, Polish, Korean, Russian, Swedish, Traditional Chinese, Arabic, Norwegian, Turkish, Thai, Czech, Hungarian and Kazakh.

### VGA Out (Standby)

When in standby mode, choose whether to output the signal from “Computer 1 In” to “Monitor Out” terminal.

- ▶ On: Output image signal from “Monitor Out” terminal when the projector is in standby mode.
- ▶ Off: Image signal from “Monitor Out” terminal can not be output when the projector is in standby mode.

### Security

Configure the security settings.



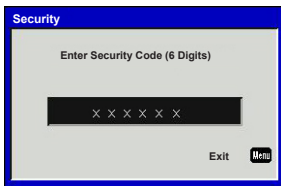
- ▶ Security: Select “On” to use the security verification when the turning on the projector. Select “Off” to be able to switch on the projector without a password verification.



# User Settings

When you enable the security function for the first time, you need to enter the default password:

1. The default password : ▲▼◀▶▲▼
2. Use the remote control to enter your password.



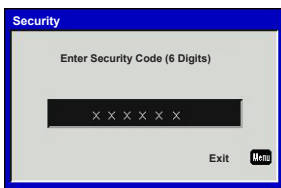
## Note

❖ The default password is "▲▼◀▶▲▼".

- ▶ Change Password: Change the password.

To change the password, do the following:

1. Press "Enter" to enter the *Change Password* submenu.
2. Enter the current password.



3. Use the remote control to enter your old password.
4. Use the direction keys on the remote control to enter your new password.
5. Enter the new password again.

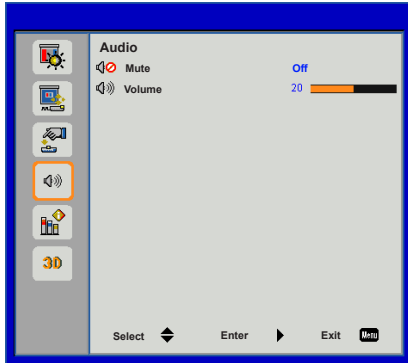
If you have forgotten your password, please contact your local office for support.

## Reset

Return all data to the factory defaults.

- ▶ Press the ▲ or ▼ to select "Reset" function.
- ▶ Press the ▶, "Input Enter" or "Enter" to display the setting dialog box.
- ▶ Press the ▲ or ▼ to select "Yes".
- ▶ Press the ▶, "Input Enter" or "Enter" to execute.

# User Settings



## *Audio*

### Mute

Temporarily turn off the sound.

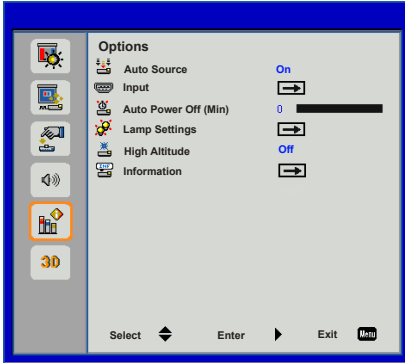
- ▶ On: Mute audio.
- ▶ Off: Output audio.

### Volume

Adjust the volume.

- ▶ Press the ► to turn up the volume (up to 32)
- ▶ Press the ◀ to turn down the volume (minimum value 0).

# User Settings



## Options

### Auto Source

Set the automatic signal search function when power on or the source of the signal being received is lost.

- ▶ On: It will automatically search and display the signal sources marked in the “Options” > “Input” when power on or the source of the signal being received is lost.
- ▶ Off: When the source of the signal being received is lost, it will not search other sources.

### Input

Set the automatic search signal source for “Auto Source”.

- ▶ Press the ▲ or ▼ to select “Input”.
- ▶ Press the ►, “Input Enter” or “Enter” to display the setting dialog box.
- The Input menu dialog box is displayed as follows:



#### Note

❖ The input with the check mark will be able to be searched when “Auto Source” is set to “On”.

❖ To remove the check mark, choose the desired item and press ►, “Input/Enter” or “Enter”.

- ▶ Press the ▲ or ▼ to select the input you want to search and press the ►.

# User Settings

## Note

❖ When “AV MUTE” is set to “On”, the projector may turn off automatically after certain time, depending on “Auto Power Off (Min)” setting.

❖ 60 seconds before the auto power off, the countdown screen will appear. The countdown screen will disappear if there is signal input or operation to the projector.

## Note

❖ If “Lamp Life Reminder” is set to “Off”, the lamp warning message will not be displayed when the lamp used time reaches the end of lamp life. In this case, please check the lamp life with the value at the “Lamp Hours Used (Normal)” and “Lamp Hours Used (ECO)”.

## Auto Power Off (Min)

Set the time to automatically turn off the projector when there is no signal input.

## Lamp Settings

Displays and sets detail of the lamp settings.

- ▶ Lamp Hours Used (Normal): Displays the used lamp hours under “Normal” lamp power mode.
- ▶ Lamp Hours Used (ECO): Displays the used lamp hours (in real time) under “Normal”, “Auto”, “ECO” lamp power mode. The time is displayed as the sum of the time under each setting of “Normal”, “Auto”, “ECO” lamp power mode.
- ▶ Lamp Life Reminder
  - On: Displays the lamp warning message.
  - Off: The warning lamp message will not be displayed.
- ▶ Lamp Power Mode
  - Select desired lamp power mode under different situations.
  - Auto: The brightness level of the content is automatically detected to significantly reduced lamp power. consumption during periods of inactivity.
  - ECO: Lowest brightness reduces the lamp power consumption and extends the lamp life.
- ▶ Clear Lamp Hours
  - Reset the lamp usage time after replacing the lamp unit.

## High Altitude

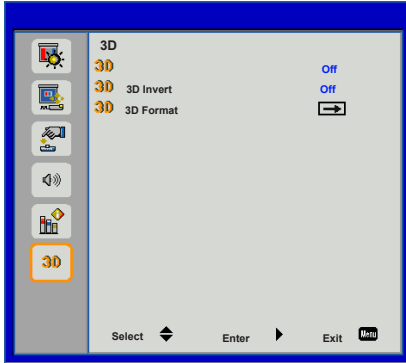
Set to “On” when the projector is used at elevation between approximately 1 000 m (3 300 ft) and approximately 3 000 m (10 000 ft).

- ▶ On: For the elevation between approximately 1 000 m (3 300 ft) and approximately 3 000 m (10 000 ft).
- ▶ Off: For the elevation below approximately 1 000 m (3 300 ft).

## Information

Displays the input signal source and setting state information of the projector. Displays “Source”, “Resolution”, “Software Version”, “Color Space” and “Aspect Ratio”.





## 3D

### 3D

Use this function to set the display mode of the 3D image.

- ▶ On: Compulsory displays the 3D format which is selected in "3D Format".
- ▶ Off: Turn off "3D" image display.

### 3D Invert

Flips the timing of the switch between the left and right of an image to display. Change the setting if the 3D images you see appear not as expected.

- ▶ On: Select when left and right 3D images are swapped to be displayed.
- ▶ Off: If the 3D images are displayed correctly, do not change the "Off" settings.

### 3D Format

When "3D" is set to "On", it will compulsorily display the 3D setting mode.

- ▶ Side-by-Side: Displays the Side-by-Side 3D image in spite of the input signal format.
- ▶ Top and Bottom: Displays the Top and Bottom 3D image in spite of the input signal format.
- ▶ Frame Sequential: Displays the Frame Sequential 3D image in spite of the input signal format.

## Troubleshooting

*If you experience trouble with the projector, refer to the following information. If the problem persists, please contact your local dealer or service center.*

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

- ▶ Ensure all the cables and power connections are correctly and securely connected as described in the “Installation” section.
- ▶ Ensure the pins of terminals 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: Partial, scrolling or incorrectly displayed image**

- ▶ Press “Auto Set” on the remote control.
- ▶ 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]+[F3]

PANASONIC, NEC => Fn+F3  
HP, SHARP, TOSHIBA => Fn+F5  
IBM, SONY => Fn+F7  
DELL, EPSON => Fn+F8  
FUJITSU => Fn+F10  
APPLE => F7

- ▶ 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**

- ▶ Adjust the "Phase" or "Clock" to correct it. Refer to the "Image Adjustment | Position" section for more information.
- ▶ Change the monitor setting from your computer.
- ▶ Check and reconfigure the display mode of your graphic card to make it compatible with the product.

## **Problem: Image is out of focus**

- ▶ Adjust the Focus Ring on the projector lens.
- ▶ Make sure the projection screen is between the required distance. Please see pages 34~35.

## **Problem: The image is stretched when displaying 16:9 DVD**

Change "Aspect" by pressing the key on remote control or OSD menu to show image with proper aspect ratio.

## **Problem: 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 "Aspect" button on the remote control or press "Menu" button on the projector panel, go to "Position --> Aspect Ratio" and try the different settings.

# Troubleshooting

## **Problem: Image is reversed**































- ▶ Select "Default Settings 1-->Projection Mode" 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".


# Troubleshooting

## Problem: Indicator lighting message

Message	POWER indicator	TEMP indicator	LAMP indicator
	(Red/ Blue)	(Red)	(Red)
Standby (Input power cord)	 (Red)		
Normal (Power on)	 (Blue)		
Powering up (Warming up)	Flashing Blue (0.5 sec)		
Power off (Cooling Down)	Flashing Red (0.5 sec)		
Error (Over temp. On Event)	 (Blue)		
Error (Over temp. On Standby)	 (Red)		
Error (Lamp failed On Event)	 (Blue)		
Error (Lamp failed On Standby)	 (Red)		
Error (Fan failed On Event)	 (Blue)	Flashing	
Error (Fan failed On Standby)	 (Red)	Flashing	
Error (Color Wheel fail / Striking Lamp Fail On Event)	 (Blue)		Flashing
Error (Color Wheel fail / Striking Lamp Fail On Standby)	 (Red)		Flashing

### Note

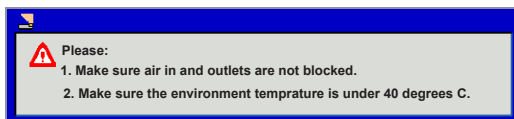
Steady light => 

No light => 

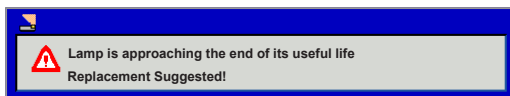
# Troubleshooting

## Problem: Message Reminders

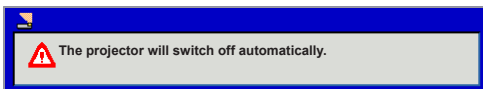
- ▶ Over temperature - the projector has exceeded its recommended operating temperature and must be allowed to cool down before it may be used.



- ▶ Replacing the lamp - the lamp is about to reach its maximum life-time. Prepare to replace it soon.



- ▶ Fan failed - the system fan is not working.



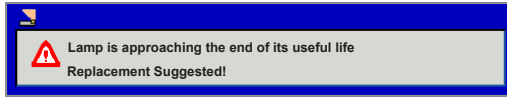
# Replacing the lamp

## Replacing the lamp

The projector will detect the lamp life itself. It will show you a warning message



Warning: To avoid burns, allow the projector to cool for at least 60 minutes before you replace the lamp!



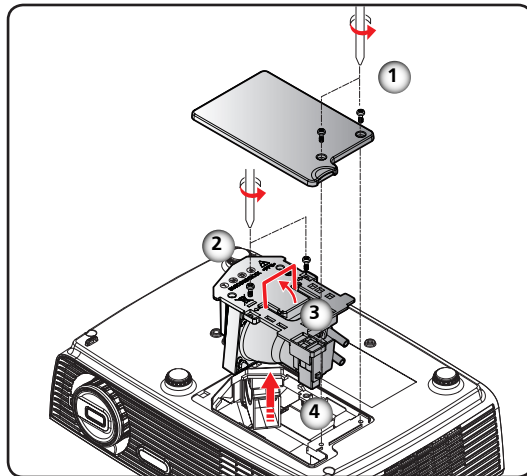
When you see this message, change the lamp as soon as possible. Make sure the projector has been cooled down for at least 60 minutes before changing the lamp.



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

Warning: For continued safety replace with PJ Replacement Lamp Type 26.

Caution: If the lamp should break, handle with care to avoid injury due to broken pieces and contact your sales representative for repair service.



### Lamp Replacing Procedure:

1. Switch off the power to the projector by pressing the "Power".
2. Allow the projector to cool down at least 60 minutes.
3. Disconnect the power cord.
4. Use a screwdriver to remove the 2 screws from the cover. ①
5. Push up and remove the lamp cover.
6. Loosen the 2 screws from the lamp module ② and pull up the lamp bar. ③
7. Pull out the lamp module by force. ④
8. Install the new lamp module by reversing the previous steps. See the lamp's manual for instructions on resetting the lamp time.

### Used Lamps

This projector's lamp contains trace amounts of environmentally harmful inorganic mercury. Be careful not to break used lamps, and dispose of them in accordance with local regulations or contact your sales representative.

## List of Compatible Signals

A. VGA Analog				
(1) VGA Analog - PC Signal				
Modes	Resolution	V.Frequency (Hz)	H.Frequency (kHz)	Clock (MHz)
VGA	640 x 480	60	31.47	25.18
	640 x 480	72	37.86	31.50
	640 x 480	75	37.50	31.50
	640 x 480	85	43.27	36.00
SVGA	800 x 600	56	35.20	36.00
	800 x 600	60	37.88	40.00
	800 x 600	72	48.08	50.00
	800 x 600	75	46.88	49.50
	800 x 600	85	53.67	56.25
	800 x 600	119.85	77.20	-
XGA	1024 x 768	60	48.36	65.00
	1024 x 768	70	56.48	75.00
	1024 x 768	75	60.02	78.75
	1024 x 768	85	68.67	94.50
	1024 x 768	119.804	98.80	-
SXGA	1152 x 864	70	63.80	94.50
	1152 x 864	75	67.50	108.00
	1152 x 864	85	77.10	121.50
	1280 x 1024	60	63.98	108.00
	1280 x 1024	72	77.90	134.60
	1280 x 1024	75	79.98	135.00
	1280 x 1024	85	91.15	157.50
QuadVGA	1280 x 960	60	60.00	108.00
	1280 x 960	75	75.00	126.00
SXGA+	1400 x 1050	60	65.32	121.75
UXGA	1600 x 1200	60	75.00	162.00
PowerBook G4	640 x 480	60	31.50	25.17
PowerBook G4	640 x 480	66.6(67)	35.00	30.24
PowerBook G4	800 x 600	60	37.88	40.00
PowerBook G4	1024 x 768	60	48.36	65.00
PowerBook G4	1152 x 870	75	68.68	100.00
PowerBook G4	1280 x 960	75	75.20	126.00
i Mac (G3)	1024 x 768	75	60.30	80.00



# Appendices

## A. VGA Analog

### (2) VGA Analog - Extended Wide

Modes	Resolution	V.Frequency (Hz)	H.Frequency (kHz)	Clock (MHz)
WXGA	1280 x 768	60	47.78	79.50
	1280 x 768	75	60.29	102.25
	1280 x 768	85	68.63	117.50
	1280 x 720	60	44.80	74.25
	1280 x 800	60	49.60	83.50
	1440 x 900	60	55.90	106.50
	1680 x 1050	60	65.30	146.25
	1366 x 768	60	47.74	85.50
	1920 x 1080-RB	60	66.60	138.50
	1024 x 600	60	37.30	50.40

### (3) VGA Analog - Component Signal

480i	720 x 480	59.94 (29.97)	27.00	-
480p	720 x 480	59.94	31.47	-
576i	720 x 576	50 (25)	27.00	-
576p	720 x 576	50	31.25	-
720p	1280 x 720	60	45.00	-
720p	1280 x 720	50	37.50	-
1080i	1920 x 1080	60 (30)	33.75	-
1080i	1920 x 1080	50 (25)	33.75	-
1080p	1920 x 1080	60	67.50	-
1080p	1920 x 1080	50	56.25	-

## B. HDMI Digital

### (1) HDMI - PC Signal (Same as DVI)

Modes	Resolution	V.Frequency (Hz)	H.Frequency (kHz)	Clock (MHz)
VGA	640 x 480	60	31.47	25.18
	640 x 480	72	37.86	31.50
	640 x 480	75	37.50	31.50
	640 x 480	85	43.27	36.00
SVGA	800 x 600	56	35.20	36.00
	800 x 600	60	37.88	40.00
	800 x 600	72	48.08	50.00
	800 x 600	75	46.88	49.50
	800 x 600	85	53.67	56.25
	800 x 600	119.85	77.20	-
XGA	1024 x 768	60	48.36	65.00
	1024 x 768	70	56.48	75.00
	1024 x 768	75	60.02	78.75
	1024 x 768	119.804	98.80	-

# Appendices

## B. HDMI Digital

### (1) HDMI -PC Signal (Same as DVI)

SXGA	1152 x 864	75	67.50	108.00
	1152 x 864	85	77.10	121.50
	1280 x 1024	60	63.98	108.00
	1280 x 1024	72	77.90	134.60
	1280 x 1024	75	79.98	135.00
	1280 x 1024	85	91.15	157.50
QuadVGA	1280 x 960	75	75.00	126.00
PowerBook G4	640 x 480	60	31.50	25.17
PowerBook G4	640 x 480	66.6(67)	35.00	30.24
PowerBook G4	800 x 600	60	37.88	40.00
PowerBook G4	1024 x 768	60	48.36	65.00
PowerBook G4	1152 x 870	75	68.68	100.00
PowerBook G4	1280 x 960	75	75.20	126.00
i Mac (G3)	1024 x 768	75	60.30	80.00

## B. HDMI Digital

### (2) HDMI Analog - Extended Wide

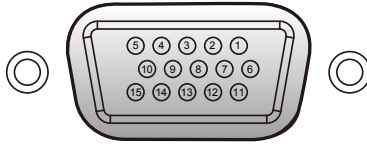
Modes	Resolution	V.Frequency (Hz)	H.Frequency (kHz)	Clock (MHz)
WXGA	1280 x 768	60	47.78	79.50
	1280 x 768	75	60.29	102.25
	1280 x 768	85	68.63	117.50
	1280 x 720	60	44.80	74.25
	1280 x 800	60	49.60	83.50
	1440 x 900	60	55.90	106.50
	1680 x 1050	60	65.30	146.25
	1366 x 768	60	47.74	85.50
	1920 x 1080-RB	60	66.60	138.50
	1920 x 1080-EIA	60	66.60	148.50
	1024 x 600	60	37.30	50.40

### (3) HDMI Analog - Video Signal

480i	720 x 480 (1440 x 480)	59.94 (29.97)	27.00	-
480p	720 x 480	59.94	31.47	-
576i	720 x 576 (1440 x 576)	50 (25)	27.00	-
576p	720 x 576	50	31.25	-
720p	1280 x 720	60	45.00	-
720p	1280 x 720	50	37.50	-
1080i	1920 x 1080	60 (30)	33.75	-
1080i	1920 x 1080	50 (25)	33.75	-
1080p	1920 x 1080	60	67.50	-
1080p	1920 x 1080	50	56.25	-
1080p	1920 x 1080	24/23.98	27.00	-

## Configurations of Terminals

### Terminal : Analog RGB (Mini D-sub 15 pin)



1	Red (R/Cr) Input/R Output	9	DDC 5V / NC
2	Green (G/Y) Input/G Output	10	Ground (Ver. sync.)
3	Blue (B/Cb) Input/B Output	11	ICP download
4	ICP download / NC	12	DDC Data / NC
5	Ground (Horiz.sync.)	13	Horiz. sync. Input / Output (Composite H/V sync. Input)
6	Ground (Red)		
7	Ground (Green)	14	Vert. sync. Input / Output
8	Ground (Blue)	15	DDC CLK / NC

# Appendices

## Specifications

### ■ List of general specifications

Item	Specification
Consumption Power	225W (ECO mode) / 280W (Full mode)
Weight	5.2 lbs (2.4 Kg)
Dimensions (WxHxD)	286x100x208 mm (include protruding parts)
Environmental Considerations	Operational Temperatures : 41° to 95°F (5° to 35°C), 20% to 80% humidity (non-condensing) Storage Temperatures : -4° to 140°F (-20° to 60°C), 20% to 80% humidity (non-condensing)
Projection System	Single DLP® 0.55" chip
Resolution	RICOH PJ S2340: 800 × 600 pixels (SVGA) RICOH PJ X2340: 1024 × 768 pixels (XGA)
Lens	F# 2.41 ~ 2.55, f=21.79 ~ 23.99 mm, 1.1X Zoom Lens
Lamp	High-pressure mercury lamp (190W)
Lamp Life	4500H(Normal)/6000H(Eco)
Projection screen size	30 ~ 300 inch
Projection distance	1.2 ~ 13.1m (Focus range)
Speaker	2W (Mono)
Connection terminal	Computer In terminal
	Mini D sub 15 pin RGB / Y/P <sub>B</sub> / P <sub>R</sub> (dual use)
	Monitor Out terminal
	Mini D sub 15 pin
	HDMI terminal
	HDMI type A connector
	Video terminal
	RCA Pin Jack
	Audio In terminal
	3.5 mm diameter mini-jack for COMPUTER IN/VIDEO (multiple use)
	Audio Out terminal
	3.5 mm diameter mini-jack

### Note

- This model complies with the above specifications.
- Designs and specifications are subject to change without notice.
- This model may not be compatible with features and/or specifications that may be added in the future.

### ■ Separately sold product

PJ Replacement Lamp Type 26

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