RICOH

RICOH PJ X4340 / RICOH PJ RX300

User's Manual

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.

Precautions

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

Warning- This apparatus must be earthed.

Warning- Do not look into the projector's lens when the lamp is on. The bright light may hurt your eyes.

Warning- To reduce the risk of fire or electric shock, do not expose this projector to rain or moisture.

Warning- Do not open or disassemble the projector as this may cause electric shock.

Warning- When replacing the lamp, allow unit to cool down at least 60 minutes, and follow all replacement instructions.

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- Do not remove the cabinet cover, or you may be exposed to dangerous voltage. Refer servicing to qualified service personnel only.

Warning- This product should be operated only from the type of power source which does not exceed the voltage range specified on the rating label and the power cord. If you are not sure of the type of power supply to your home, consult your sales representative or local power company.

Warning- Do not use the polarized plug with an extension cord , receptacle, or other outlet unless the blades can be inserted completely with three wire grounding type to prevent blade exposure. Failure to follow these instructions may result in fire or electric shock.

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.

Caution- 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.

Caution- 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.

Caution- Do not place or keep the projector within the reach of the children. It may fall or tip over, possibly causing serious injury.

Caution- Do not stack other equipment on this product and do not place this product on other equipment. The top and bottom surface of this product increase in temperature during normal use and may damage the other unit.

Caution- Do not use attachments not recommended by RICOH. Use of an incompatible attachments could cause hazards or damage to the product.

Caution- Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious 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.

■ 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- Do not use lens cap when projector is powered on.

■ Caution- Unauthorized substitutions may result in fire, electric shock, or other hazards. (Only the replacement of the lamp should be made by users.)

■ Caution- 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 leave thermal paper documents or easily deformed items on top of the unit or near the air exhaust for long periods of time.

■ Caution- The heat from the unit could erase the information on the thermal paper, or cause deformation or warping.

■ Caution- This projector will detect the life of the lamp itself. Be sure to change the lamp when it shows warning messages.

■ 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.

Installing the Projector on a Wall or Ceiling

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

Safety Precautions to Be Followed

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

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.

For sales or service representatives
- Use brackets that are strong enough to support the projector. The projector weighs about 2.9 kg (6.4 lb.).
- 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 M3×16 screws) to attach the brackets to the projector.
- Use all three of the projector's screw holes to attach the brackets. The locations of the screw holes are shown in the illustration below. Make sure that the screws are tightened firmly.

Usage Notice

Do:

❖ After unpacking this product, read the manual carefully, and follow all the operating and other instructions.

❖ Turn off the product before cleaning.

❖ Use a soft cloth moistened with mild detergent to clean the display housing.

❖ Disconnect the power plug from AC outlet if the product is not being used for a long period of time.

Do not:

❖ Block the slots and openings on the unit provided for ventilation.

❖ Use abrasive cleaners, waxes or solvents to clean the unit.

❖ Use under the following conditions:

- Extremely heat, cold or humidity.
- In areas susceptible to excessive dust and dirt.
- Near any appliance generating a strong magnetic field.
- In direct sunlight.

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 handing or operating this product.

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 look into the lens while the lamp is on. The strong light from the lamp may cause damage to your eyesight.

3   Do not place anything in front of the lens while the projector is operating. Things placed in front of the lens may over-heat 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.

4   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.

5   Do not remove any screws except the lamp cover screws. Do not block or cover the vents.

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 X4340

TRADE NAME: PROJECTOR
MODEL NAME: RICOH PJ X4340
FC 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 inter-ference 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.

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 LO-CAL, 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.

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.

Notice: Canadian users

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

Remarque à l'intention des utilisateurs canadiens

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

Declaration of Conformity for EU countries

- EMC Directive 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

Authorized representative:
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.
• 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.

Remote Control Battery

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.

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.

• Do not ingest battery, Chemical Burn Hazard.

The remote control supplied with this product contains a coin cell battery.

If the coin cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.

• 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 lithium 3.0 V coin 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 battery.
• 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 battery according to the instructions.

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 pur-
  poses or public viewing
• Varying the aspect ratio of images or movies using a function
  that changes the screen size to broadcast images for com-
  mercial purposes or public viewing

Note to Users Viewing 3D Images
Pay attention to the following points when viewing images us-
ing 3D glasses with projector:
• How 3D images are viewed may vary according to the indi-
  vidual.
• 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 lightsen-
 sitive seizures, consult a doctor before viewing 3D images.

Product Features

- XGA (1024x768) Native resolution
- HD compatible – 720p and 1080p supported
- VGA monitor loop through(works in standby mode > 0.5W)
- BrilliantColorTM Technology
- Security Bar and antitheft lock hole
- RS232 control
- Rapid shutdown
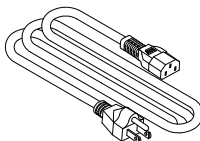- Built-in mono 8 Watt speaker
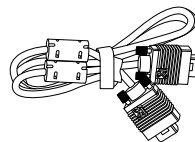- Eco+ and Quick Resume

Introduction

Package Overview

Unpack and inspect the box contents to ensure all parts listed below are in the box. If something is missing, please contact your nearest customer service center.
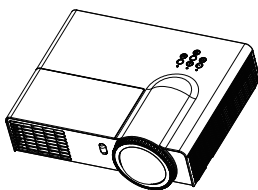
Projector with lens cap

Power Cord

VGA Cable

Remote Control
(CR2025 Battery is
contained.)

CD-ROM

Documentation :

☑ Read This First

Introduction

Product Overview
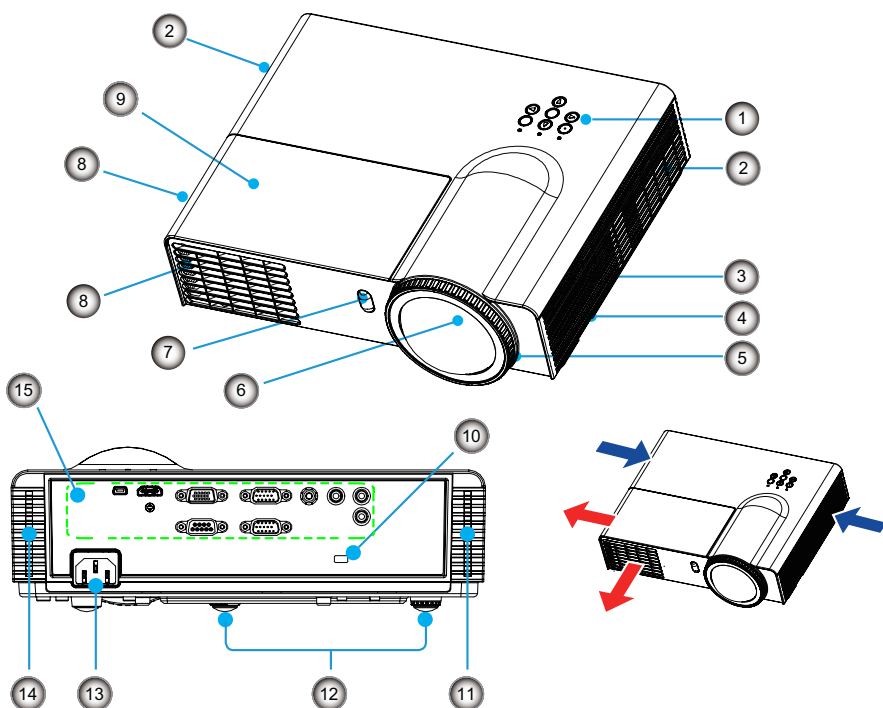
1. Control panel and indicator light
2. Air inlet
3. Speaker
4. Security bar
5. Focus ring
   Adjust the projector's focus
6. Projection lens
7. Remote signal receiver
8. Exhaust port
9. Lamp cover
10. Safety lock
    This lock catch is used to install an anti-theft lock to prevent video machines from being stolen.
11. Air filter (right)
12. Adjustable feet
    Adjust the projection angle
13. Power cord socket
14. Air filter (left)
15. Terminal connection port

Introduction

About Your Projector

Control Panel and Indicators
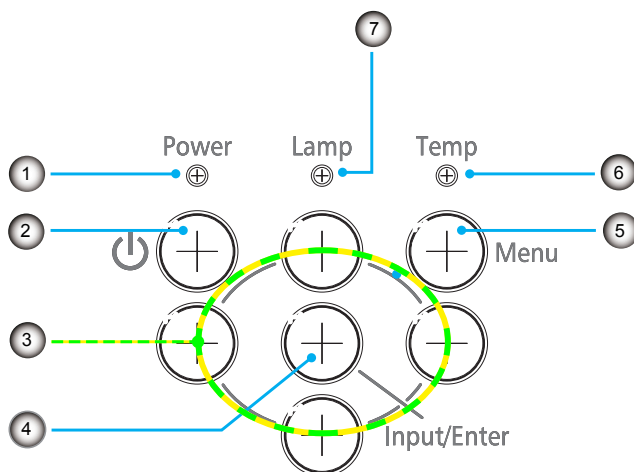
(1) **<Power> indicator**
Indicates the projector's status.

(2) **< ⏻ > button**
Turns the projector on/off.

(3) **▲▼◄► buttons**
Uses to operate menu.

(4) **<Input/Enter> button**
Displays [Source] menu when menu is not displayed. (Confirm your section of items when menu is displayed.)

(5) **<Menu> button**
Turns the main menu on/off.

(6) **<Temp> indicator**
Indicates the status of the internal temperature or the cooling fan of the projector.

(7) **<Lamp> indicator**
Indicates the projector's lamp status.

Introduction

Connecting terminals

RICOH PJ X4340
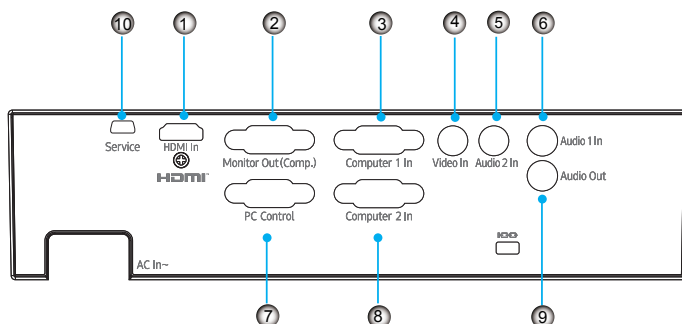
RICOH PJ RX300
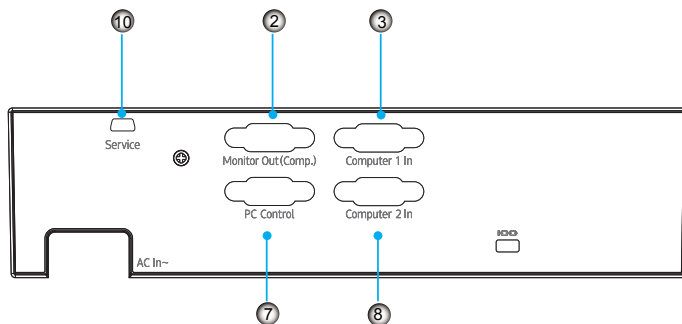
(1) <HDMI In>
This is a terminal to connect to HDMI signal.

(2) <Monitor Out>
This is a terminal to output the RGB signal or component signal via <Computer 1 In> or <Computer 2 In> terminal.

(3) <Computer 1 In>
This is a terminal to input the RGB signal or component signal.

(4) <Video In>
This is a terminal to input the video signal.

(5) <Audio 2 In>
This is a terminal to input the audio signal from the video equipment connected to the <Video In> terminal.

(6) <Audio 1 In>
This is a terminal to input the audio signal from the computer connected to the <Computer 1 In> or <Computer 2 In> terminal.

(7) <PC Control>
This is a RS-232C compatible terminal to externally control the projector.

(8) <Computer 2 In>
This is a terminal to input the RGB signal or component signal.

(9) <Audio out>
This is a terminal to output the audio signal input to the projector. The output level can be adjusted.

(10) Service terminal

Note

- When the <HDMI IN> terminal is connected to a computer via a HDMI-DVI conversion cable, it can only input video signal and the analog audio signal can not be input.

Introduction

Remote control
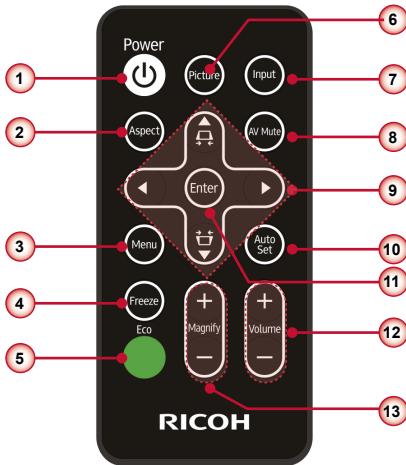
(11) <Enter**> button**
Confirm your section of items in menu system.
(12) <Volume **+/-> buttons**
Adjust sound level.
(13) <Magnify **+/-> buttons**
Adjusts magnification ratio of the displayed image.

Attention

● Do not drop the remote control.
● Avoid contact with liquids.
● Do not attempt to modify or disassemble the remote control.

Note

● The <Auto Set> operation may not optimize the image position or the resolution, depending on the input signal format or the image contents. In this case, switch to a different image and execute <Auto Set> again.

(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 freezed.
(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.
(8) <AV Mute**> button**
Mutes audio and video.
(9) ▲▼◄► buttons
Uses to operate menu.
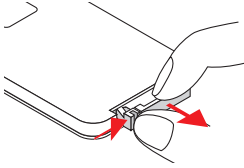Keystone can be adjusted by pressing ▲ and ▼buttons when menu is not displayed.
(10) <Auto Set**> button**
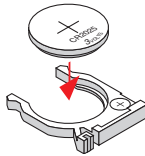Automatically synchronize the projector to the input source.

Changing the battery of the remote control

1. Press firmly and slide the battery cover off.

2. Install new battery into the compartment.

3. Put the cover back.

Remove the old battery and install new one (CR2025). Ensure that the side with a "+" is facing up.
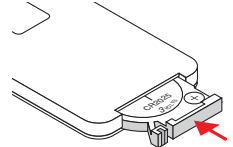
⚠️ **To ensure safe operation, please observe the following precautions :**

■ **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 p.9.

Remote Control Operating

- When pointing the remote control directly toward the projector (Remote control signal receiver), operating range for the remote control is within 8 m (26.25 ft). Also, operation range available for four directions (up, down, left, right to the projector) is ± 30° 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.

8m(26.25ft)
±30°(horizontal)
±30°(Vertical)

Transparent insulation sheet
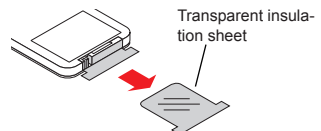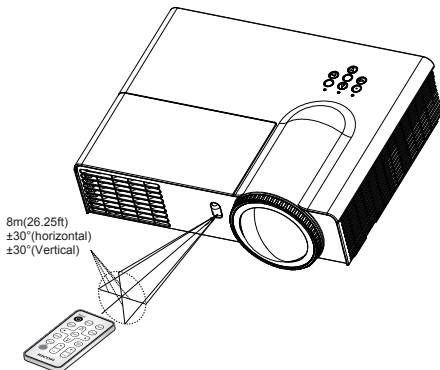
Installation

Connections

Connecting example: Computers

RICOH PJ X4340

Control Computer | Computer | Monitor | Computer | Audio equipment

RICOH PJ RX300

Control Computer | Monitor | Computer
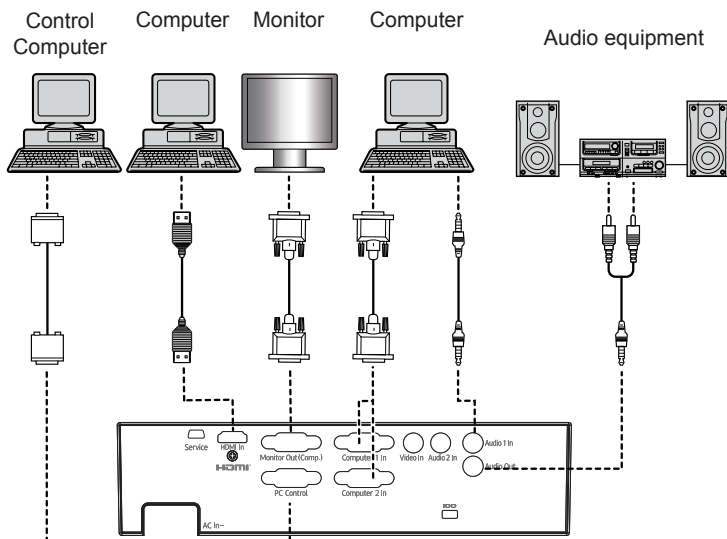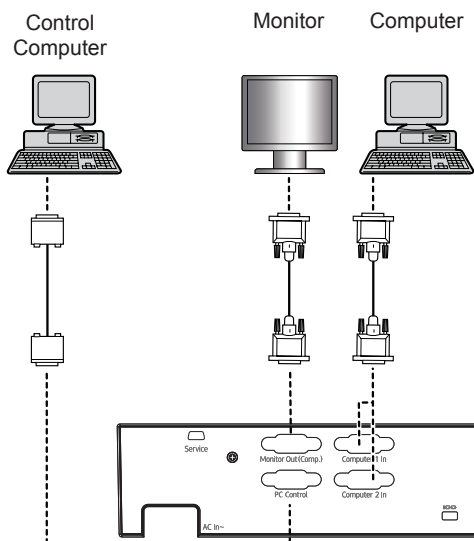
Installation

Connecting example: AV equipment

RICOH PJ X4340

Blu-ray disk
player   DVD player   VCR   Audio equipment
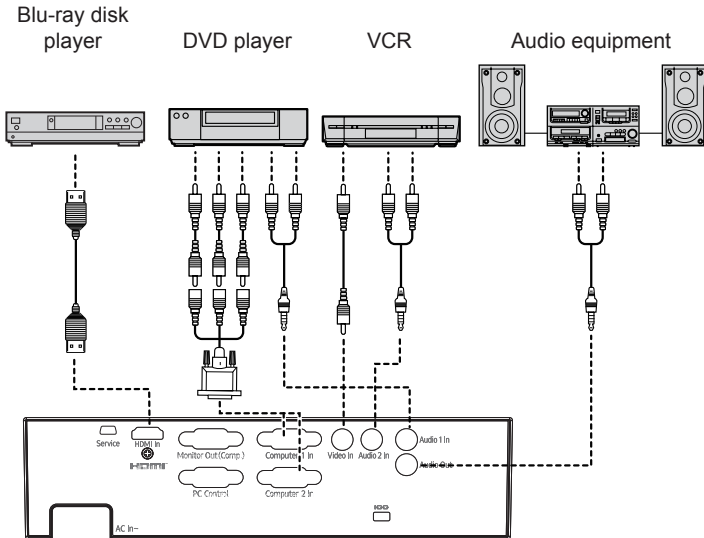
Powering the projector On / Off

Powering On the Projector

1. Remove the lens cap if it is on the lens.
2. Securely connect the power cord and signal cable. When the power cord is connected, the Power indicator will turn Amber.
3. Turn on the lamp by pressing "⏻" button either on the top of the projector or on the remote. The Power indicator will now turn Green.

   The startup screen will display in approximately 10 seconds. The first time you use the projector, you will be asked to select the preferred language and power saving mode.

4. Turn on and connect the source that you want to display on the screen (computer, notebook, video player, etc). The projector will detect the source automatically. If not, push menu button and go to "OPTIONS".
   Make sure that the "Auto Source" has been set to "On". See p.35 (User Controls/Auto source explanation page)

❖ If you connect multiple sources at the same time, press the "Input/Enter" button on the control panel or "Input" button on the remote control to switch between inputs.

❖ When VGA Out (Standby) is set to Off, the Monitor Out output will be deactivated when the projector is in standby.

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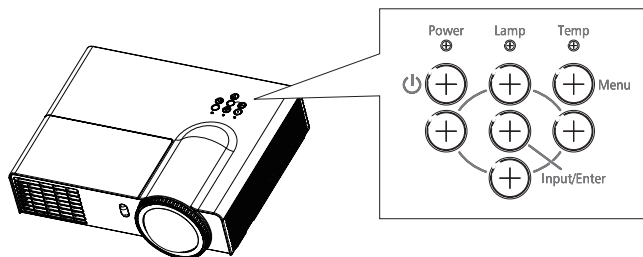
Powering Off the Projector

1. Press the "⏻" button on the remote control or on the control panel to turn off the projector. The following message will be displayed on the screen.

   Power Off?
   Press power key again.

   Press the "⏻" button again to confirm otherwise the message will disappear after 10 seconds. When you press the "⏻" button for the second time, the fan will start cooling the system and will shut down.

2. The cooling fans continue to operate for about 60 seconds for cooling cycle and the Power indicator will Flash Amber. When the Power indicator lights solid Amber, 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 "⏻" button to restart the projector.

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

Warning Indicator

When the warning indicators (see below) come on, the projector will automatically shutdown:

❖ "Lamp" LED indicator is lit red and "Power" indicator flashes amber.

❖ "Temp" LED indicator is lit red and "Power" indicator flashes amber. This indicates the projector has overheated. Under normal conditions, the projector can be switched back on.

❖ "Temp" LED indicator flashes red and "Power" indicator flashes amber.

Unplug the power cord from the projector, wait for 30 seconds and try again. If the warning indicator light up again, please contact your dealer for assistance.

NOTE
✓

❖ Contact your sales representative for repair service if the projector displays these symptoms.

Basic Operations

Setting up

Adjusting the Projector's Height

The projector is equipped with elevator feet for adjusting the image height.
Extend the adjustable feet by rotating in the direction shown in the below picture and retract by rotating in the opposite direction.

Adjustable range
Rear adjustable foot : 10 mm (0.4")

Adjustable range
Front adjustable foot : 19 mm (0.75")
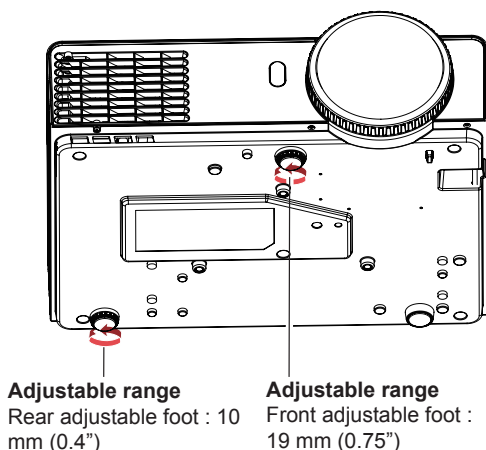
The rear adjustable foot stretch to its end

2.7 °
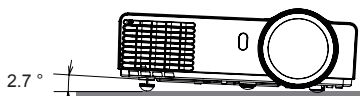
The front adjustable foot stretch to its end

6 °
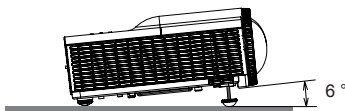
Attention

● It is very hot around the lamp and the air exhaust port when the lamp is lighting and for a while after the lamp is turned off. And, hot air is expelled from the air exhaust port when the lamp is lighting. Do not touch there directly when adjusting the adjustable feet.
● Do not stretch the adjustable feet more than the above mentioned length. Otherwise, the projector may be unstable or the adjustable feet may fall off.

Adjusting the Projector's Focus

To focus the image, rotate the focus ring until the image is clear.
▸ The projector will focus at distances from 0.51 to 2.54 meters (1.67 to 8.34 feet).

Focus Ring
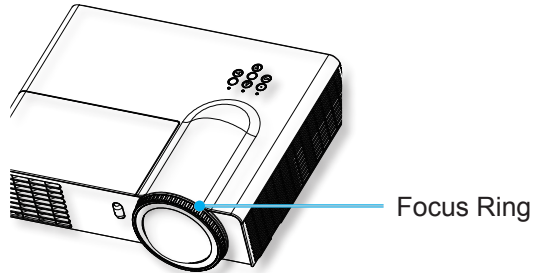
Adjusting Projection Image Size

▸ Projection Image Size from 40" to "200" (1.02 to 5.08 meters).

Top View

Screen

Screen (W)

Projection Distance (D)

Height

Diagonal

Width

Screen

Screen (H)

Offset (Hd)

Side View
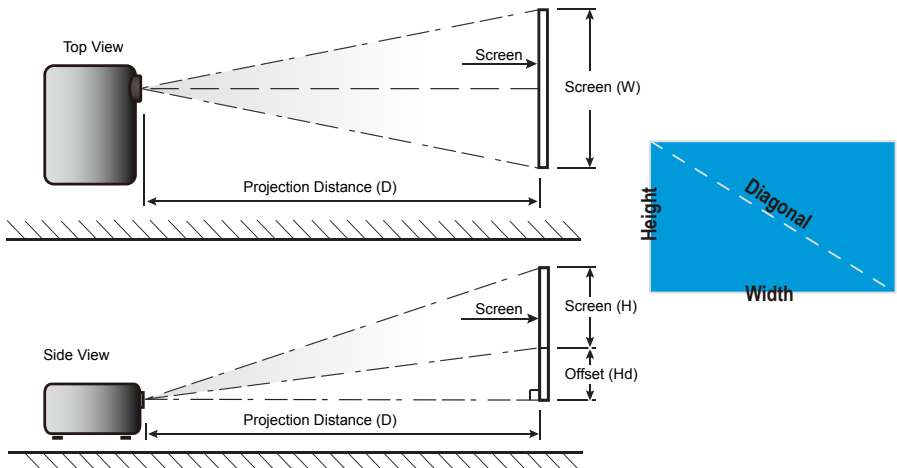
Projection Distance (D)

XGA

Diagonal length (inch) size of 4:3 Screen	Screen Size W x H				Projection Distance (D)		Offset (Hd)	
	(m)		(inch)		(m)	(feet)	(m)	(inch)
	Width	Height	Width	Height				
40.00	0.81	0.61	32.00	24.00	0.50	1.64	0.09	3.60
60.00	1.22	0.91	48.00	36.00	0.75	2.46	0.14	5.40
70.00	1.42	1.07	56.00	42.00	0.88	2.89	0.16	6.30
80.00	1.63	1.22	64.00	48.00	1.00	3.28	0.18	7.20
90.00	1.83	1.37	72.00	54.00	1.13	3.71	0.21	8.10
100.00	2.03	1.52	80.00	60.00	1.25	4.10	0.23	9.00
120.00	2.44	1.83	96.00	72.00	1.50	4.92	0.27	10.80
150.00	3.05	2.29	120.00	90.00	1.88	6.17	0.34	13.50
180.00	3.66	2.74	144.00	108.00	2.26	7.41	0.41	16.20
200.00	4.06	3.04	160.00	120.00	2.51	8.23	0.46	18.00

❖ This table is for user's reference only.

User Controls

On-screen Display Menus

How to operate menu

■ Operation steps

1) **Press <Menu> button on the remote control or on the control panel.**
   - Main Menu displays.

2) **Use ▲▼ to select any item in the Main Menu.**
   - The selected item is highlighted in orange.

3) **Press ►, <Input/Enter> or <Enter>.**
   - Items in the Sub Menu can be selected.

4) **Use ▲▼ to select any item in the Sub Menu.**
   - The selected item is highlighted in yellow.

5) **Press ►, <Input/Enter> or <Enter> to display adjusting box.**

6) **Use ▲▼ to switch or adjust desired item by pressing ◄► keys.**

7) **Press <Menu> button to go back to the Sub Menu and press again to go back to the Main Menu, press <Menu> button once more to close the Main Menu.**

Sub Menu

Main Menu

Setting Value
or
Adjusting Value
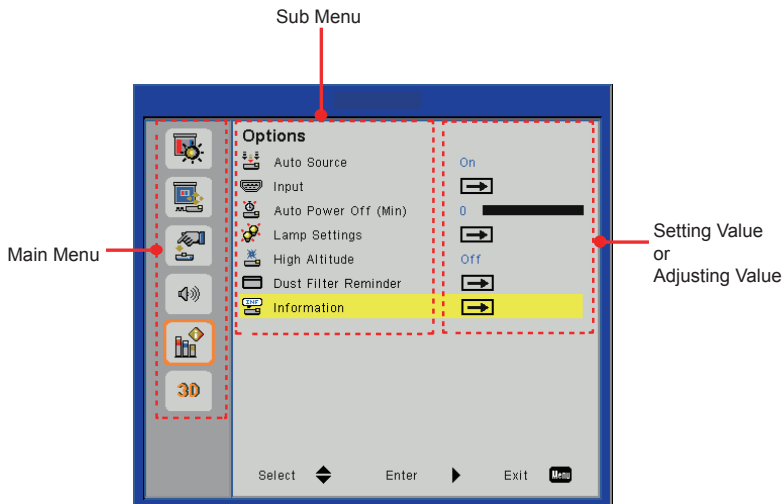
> **Note**
> - Some items may not be adjusted or used for certain signal formats input to the projector. The MENU items that cannot be adjusted or used are shown in gray characters, and they cannot be selected.
> - Some items can be adjusted even if signals are not input.
> - See pages 30 and 31 for details on the items of Sub Menu.

User Controls

Menu Tree

Main Menu	Sub Menu	2nd Sub Menu	Default Value	Range
Picture	Color Mode	Dynamic / PC / Movie / Game / User		
	Wall color	White / Light Yellow / Light Blue / Pink / Dark Green	White	
	Brightness			0 ~ 100
	Contrast			0 ~ 100
	Sharpness			0 ~ 31
	Saturation			0 ~ 100
	Hue			0 ~ 100
	Gamma			0 ~ +3
	Color Temp.	Low / Mid / High		
	Color Space	Auto / RGB / YUV	Auto	
Position	Aspect Ratio	Auto / 4:3 / 16:9 / 16:10	Auto	
	Phase			0 ~ 31
	Clock			-5 ~ 5
	H. Position			
	V. Position			
	Digital Zoom		0	0 ~ 10
	V Keystone		0	-40 ~ 40
	Ceiling Mount	Front / Front Ceiling / Rear / Rear Ceiling	Front	
Setting	Language	English / German / Spanish / French / Italian / Dutch / Portuguese / Simplified Chinese / Polish / Korean / Russian / Swedish / Traditional Chinese/Arabic / Norwegian / Turkish / Thai / Czech / Hungarian / Kazakh	English	
	Menu Location	Left Top / Right Top / Center / Left Bottom / Right Bottom	Center	
	Closed Caption	Off / CC1 / CC2 / CC3 / CC4	Off	
	VGA Out (Standby)	On / Off	Off	
	Test Pattern	On / Off	Off	
	Startup Logo	On / Off	On	
	Reset	Yes / No	No	
Audio	Mute	On / Off	Off	
	Volume		20	0 ~ 32
	In Standby Mode (Audio)	On / Off	Off	

Main Menu	Sub Menu	2nd Sub Menu		Default Value	Range
Options	Auto Source	On / Off		On	
	Input	HDMI, Computer 1, Computer 2, Video			
	Auto Power Off (Min)			0	0~120
	Lamp Settings	Lamp Hours Used (Normal)			
		Lamp Hours Used (ECO)			
		Lamp Life Reminder	Off/On	On	
		Lamp Power Mode	Normal / Auto / ECO1 / ECO2	Normal	
		Clear Lamp Hours	Yes / No		
	High Altitude	On / Off		Off	
	Dust Filter Reminder	Filters Remind (Hour)		0	0 ~ 1000
		Cleaning up reminder	Yes / No		
	Information	Source			
		Resolution			
		Software Version			
		Color Space			
		Aspect Ration			
3D	3D	On / Off			
	3D Invert	On / Off		Off	
	3D Format	Side-by-Side / Top and Bottom / Frame Sequential			

User Controls

Picture

Select [Picture] from the Main Menu (see "How to operate menu" on page 29) and then select the item from the Sub Menu.

```
Picture
    Color Mode        Dynamic
    Wall Color        White
    Brightness        50
    Contrast          50
    Sharpness         15
    Saturation        50
    Hue               50
    Gamma             2
    Color Temp        Low
    Color Space       Auto

    Select      Enter       Exit    Menu
```
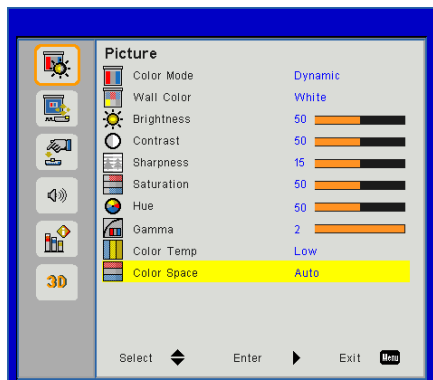
Color Mode

There are factory presets optimized for various types of images.
1) **Press ▲▼ to select [Color Mode].**
2) **Press ►, <Input/Enter> or <Enter> to display the choosing dialog box.**
3) **Press ◄► to select the desired item.**

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

Note

- When [Brightness], [Contrast], [Sharpness], [Saturation], [Hue], [Gamma] or [Color Temp] is adjusted, [Color Mode] will change to [User].
- The adjusted value of [User] depends on the type of the input signal.
  Video, 480i/576i, 480p/576p, 720p, 1080i, 1080p, RGB, HDMI (YUV), HDMI (RGB).
- <Picture> button on the remote also can be used for this function.

Wall color

Select an appropriate color for wall projection.
1) **Press ▲▼ to select [Wall color].**
2) **Press ►, <Input/Enter> or <Enter> to display the choosing dialog box.**
3) **Press ◄► to select the desired item.**

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 projected image.
1) **Press ▲▼ to select [Brightness].**
2) **Press ►, <Input/Enter> or <Enter> to display the adjustment dialog box.**
3) **Press ◄► to adjust the setting value.**

Operation	Adjustment	Adjustment range
Press ►.	Increases the brightness of the screen.	Maximum value 100
Press ◄.	Reduces the brightness of the screen.	Minimum value 0

Contrast

Adjust the contrast.
1) **Press ▲▼ to select [Contrast].**
2) **Press ►, <Input/Enter> or <Enter> to display the adjustment dialog box.**
3) **Press ◄► to adjust the setting value.**

Operation	Adjustment	Adjustment range
Press ►.	Increase the contrast of the screen.	Maximum-value 100
Press ◄.	Decrease the contrast of the screen.	Minimum value 0

Sharpness

Adjust the sharpness of the projected image.
1) **Press ▲▼ to select [Sharpness].**
2) **Press ►, <Input/Enter> or <Enter> to display the adjustment dialog box.**
3) **Press ◄► to adjust the setting value.**

Operation	Adjustment	Adjustment range
Press ►.	Contours become sharper.	Maximum-value 31
Press ◄.	Contours become softer.	Minimum value 0

Note
● [Sharpness] can be adjusted only when Video is selected.

Saturation

Adjust a video image from black and white to saturated color.
1) **Press ▲▼ to select [Saturation].**
2) **Press ►, <Input/Enter> or <Enter> to display the adjustment dialog box.**
3) **Press ◄► to adjust the setting value.**

Operation	Adjustment	Adjustment range
Press ►.	Increase the intensity of the color.	Maximum-value 100
Press ◄.	Decrease the intensity of the color.	Minimum value 0

Note
● [Saturation] can be adjusted only when Video is selected.

Hue

Adjust the skin tone.
1) **Press ▲▼ to select [Hue].**
2) **Press ►, <Input/Enter> or <Enter> to display the adjustment dialog box.**
3) **Press ◄► to adjust the setting value.**

Operation	Adjustment	Adjustment range
Press ►.	Adjust the color to be greenish.	Maximum-value 100
Press ◄.	Adjust the color to be reddish.	Minimum value 0

Note
● [Hue] can be adjusted only when video is selected and the color mode is NTSC or NTSC 4.43.

Gamma

Adjust the gamma table when the dark areas or bright areas of the image is not clear.
1) **Press ▲▼ to select [Gamma].**
2) **Press ►, <Input/Enter> or <Enter> to display the adjustment dialog box.**
3) **Press ◄► to adjust the setting value.**

Operation	Adjustment	Adjustment range
Press ►.	Emphasize detail in dark areas of image.	Maximum-value +3
Press ◄.	Emphasize detail in bright areas of image.	Minimum value 0

Color Temp

Select the color temperature.
1) **Press ▲▼ to select [Color Temp].**
2) **Press ►, <Input/Enter> or <Enter> to display the choosing dialog box.**
3) **Press ◄► to select the desired item.**

Low	The screen looks warmer.
Mid	The medium color temperature.
High	The screen looks colder.

Color Space

Select an appropriate color matrix type from Auto, RGB or YUV.
1) **Press ▲▼ to select [Color Space].**
2) **Press ►, <Input/Enter> or <Enter> to display the choosing dialog box.**
3) **Press ◄► to select the desired item.**

Auto	Switched automatically according tothe input signal.
RGB	For computer input.
YUV	For component input.

Note
● [Color Space] will be in gray and can not be operated when Video is selected.

User Controls

Position

Select [Position] from the Main Menu (see "How to operate menu" on page 29) and then select the item from the Sub Menu.
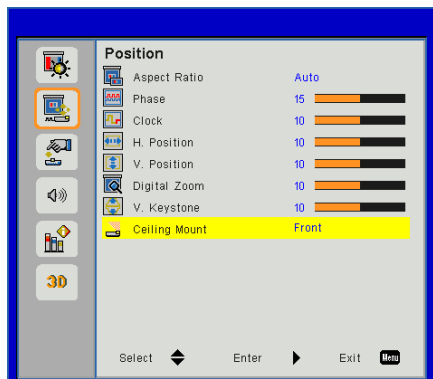
Aspect Ratio

Use this function to choose your desired aspect ratio.
1) Press ▲▼ to select [Aspect Ratio].
2) Press ►, <Input/Enter> or <Enter> to display the choosing dialog box.
3) Press ◄► to select the desired item.

Auto	The projector displays the image by automaticallyswitching 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.

<Aspect> button on the remote also can be used for this function.

> **Note**
> - If an aspect ratio which is different from the aspect ratio for the input signals is selected, the pictures will appear differently from the originals. Be careful of this when selecting the aspect ratio.
> - If using this projector in places such as cafes or ho-

tels to display programs for a commercial purpose or for public presentation, note that adjusting the aspect ratio or using the zoom function to change the screen pictures may be an infringement of the rights of the original copyright owner for that program under copyright protection laws. Take care when using a function of the projector such as the aspect ratio adjustment, zoom function, etc.
- If conventional (normal) 4:3 pictures which are not wide-screen pictures are displayed on a wide screen, the edges of the pictures may not be visible or they may become distorted. Such pictures should be viewed as with an aspect ratio of 4:3 in the original format intended by the creator of the pictures.

Phase

Adjust to achieve an optimal image when there is a flickering image.
1) Press ▲▼ to select [Phase].
2) Press ►, <Input/Enter> or <Enter> to display the adjustment dialog box.
3) Press ◄► to adjust the level.

> **Note**
> - [Phase] can be adjusted only when Computer is selected.

Clock

Adjust to achieve an optimal image when there is a vertical flicker in the image.
1) Press ▲▼ to select [Clock].
2) Press ►, <Input/Enter> or <Enter> to display the adjustment dialog box.
3) Press ◄► to adjust the level.

> **Note**
> - [Clock] can be adjusted only when Computer is selected.

H Position

Shift the projected image position horizontally.
1) Press ▲▼ to select [H Position].
2) Press ►, <Input/Enter> or <Enter> to display the adjustment dialog box.
3) Press ◄► to adjust the level.

> **Note**
> - [H Position] can be adjusted only when Computer is selected.

V Position

Shift the projected image position vertically.
1) Press ▲▼ to select [V Position].
2) Press ►, <Input/Enter> or <Enter> to display the adjustment dialog box.
3) Press ◄► to adjust the level.

Note
● [V Position] can be adjusted only when Computer is selected.

Digital Zoom

Adjust the magnification of the image. Magnification can be set from 1.0x to 2.0x in 0.1 increments.
1) Press ▲▼ to select [Digital Zoom].
2) Press ►, <Input/Enter> or <Enter> to display the adjustment dialog box.
3) Press ◄► to adjust the level.

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. This indicates the zoom function is in use.
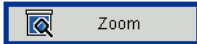
● Under the enlarge status, press ▲▼◄► to move the enlarged image.
● If the input signal is changed under the enlarge status, the magnification of [Digital Zoom] will be reset.
● [Magnify +/-] buttons also can be used to adjust this.

V Keystone

This function is used to adjust keystone distortion of the projected image.
1) Press ▲▼ to select [V Keystone].
2) Press ►, <Input/Enter> or <Enter> to display the adjustment dialog box.
3) Press ◄► to adjust the level.
  ● ▲▼ buttons on the remote also can be used to adjust this when MENU is not displayed.

Operation	Screen image
Press the ▲► on the remote control or the ► on the control panel to adjust the upper of the keystone.	
Press the ▼◄ on the remote control or the ◄ on the control panel to adjust the bottom of the keystone.	

Note
● The adjusted keystone distortion will store automatically even when the signal is interrupted or the AC power cord is plugged out or turned off the projector.
● When the larger amount of keystone correction, the picture quality will degrade and it will get harder to focus with more correction. Set the projector so the correction will be as small as possible.
● When keystone correction is performed, the screen size will also change.
● Part of Closed caption may not be displayed when high compensation values are set in [V Keystone].

Ceiling Mount

This function is used to project the image from a ceiling-mounted projector.
1) Press ▲▼ to select [Ceiling Mount].
2) Press ►, <Input/Enter> or <Enter> to display the choosing dialog box.
3) Press ◄► to select the desired item.

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 translucentscreen).

User Controls

Setting

Select [Setting] from the Main Menu (see "How to operate menu" on page 29) and then select the item from the Sub Menu.
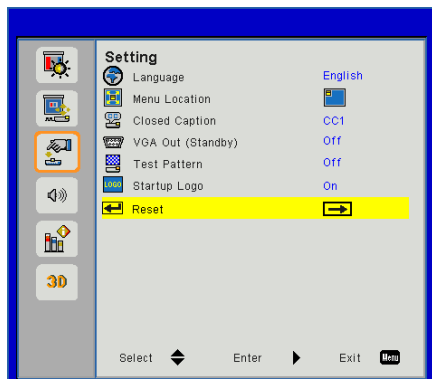
Language

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.
1) Press ▲▼ to select [Language].
2) Press ►, <Input/Enter> or <Enter> to display the language dialog box.
3) Press ▲▼ to select the desired item and Press ►, <Input/Enter> or <Enter> to choose.

Menu Location

Switch the menu location on the display screen.
- Change order: Left Top → Right Top → Center → Left Bottom → Right Bottom.
1) Press ▲▼ to select [Menu Location].
2) Press ►, <Input/Enter> or <Enter> to display the setting dialog box.
3) Press ◄► to select the desired item.

Closed Caption

1) Press ▲▼ to select [Closed Caption].
2) Press ►, <Input/Enter> or <Enter> to display the setting dialog box.
3) Press ◄► to select the desired item.

Off	Do not display Closed Caption.
CC1	Displays the CC1 data.
CC2	Displays the CC2 data.
CC3	Displays the CC3 data.
CC4	Displays the CC4 data.

Note

- The closed caption is mainly used in the north America.This function shows the text information contained in the image signal. Captions may not be displayed with signals from some devices or software.
- You can select [Closed Caption] only when NTSC signal from video terminal.
- When Menu screen is displayed, the caption will not be displayed.
- Part of Closed caption may not be displayed when high compensation values are set in [V Keystone].

VGA Out (Standby)

When in standby mode, choose whether to output the signal from <Computer 1 In> to <Monitor Out> terminal.
1) Press ▲▼ to select [VGA Out (Standby)].
2) Press ►, <Input/Enter> or <Enter> to display the setting dialog box.
3) Press ◄► to switch [On]/[Off].

On	Output image signal from <Monitor Out> terminal when theprojector is in standby mode.
Off	Image signal from <Monitor Out> terminal can not be output when the projector is in standby mode.

Test Pattern

Use this function to display built-in test pattern when installing the projector.
1) Press ▲▼ to select [Test Pattern].
2) Press ►, <Input/Enter> or <Enter> to display the setting dialog box.
3) Press ◄► to switch [On]/[Off].
- If you want to return the normal mode to the previous image, set [Test Pattern] to [Off] in the [Setting] menu.

On	Display the built-in Test Pattern.
Off	Disable the function.

User Controls

Startup Logo

Set this function to display the RICOH logo when the
projector is turning on.
1) **Press ▲▼ to select [Startup Logo].**
2) **Press ►, <Input/Enter> or <Enter> to display
   the setting dialog box.**
3) **Press ◄► to switch [On]/[Off].**

On	The logo will display when the projector is turning on.
Off	The logo will not display when the projector is turning on.

Reset

Return all data to the factory defaults.
1) **Press ▲▼ to select [Reset].**
2) **Press ►, <Input/Enter> or <Enter> to display
   the setting dialog box.**
3) **Press ▲▼ to select [Yes].**
4) **Press ►, <Input/Enter> or <Enter> to ex-
   ecute.**

Note
● Lamp used time in the [Options] menu will not be
reset.

User Controls

Audio

Select [Audio] from the Main Menu (see "How to operate menu" on page 29) and then select the item from the Sub Menu.

Note
- "AUDIO" menu is not available on RICOH PJ RX300.

Mute

Temporarily turn off the sound.
1) **Press ▲▼ to select [Mute].**
2) **Press ►, <Input/Enter> or <Enter> to display the setting dialog box.**
3) **Press ◄► to switch [On]/[Off].**

On	Mute.
Off	Output audio.

Volume

Adjust the volume.
1) **Press ▲▼ to select [Volume].**
2) **Press ►, <Input/Enter> or <Enter> to display the adjustment dialog box.**
3) **Press ◄► to adjust the volume.**

Operation	Adjustment	Adjustment range
Press ►.	Turn up the volume	Maximum value 32
Press ◄.	Turn down the volume	Minimum value 0

- You can also press the <Volume +/-> buttons on the remote control.

In Standby Mode (Audio)

This function is used to switch the output audio signal from the <Audio Out> terminal On/Off at standby mode.
1) **Press ▲▼ to select [In Standby Mode (Audio)].**
2) **Press ►, <Input/Enter> or <Enter> to display the adjustment dialog box.**
3) **Press ◄► to switch [On]/[Off].**

On	Output the audio signal from the <Audio Out> terminal when in Standby mode.
Off	Mute the audio signal from the <Audio Out> terminal when in Standby mode.

Note
- When setting the [In Standby Mode (Audio)] function to [On] and in Standby mode status, the connected audio signal to <Audio 1 In> terminal can be output from the <Audio Out> terminal. The audio signal output level is fixed and cannot be adjusted.

Options

Select [Options] from the Main Menu (see "How to operate menu" on page 29) and then select the item from the Sub Menu.

Options

	Auto Source	On
	Input	→
	Auto Power Off (Min)	0
	Lamp Settings	→
	High Altitude	Off
	Dust Filter Reminder	→
	Information	→

Select   Enter   Exit

Auto Source

Set the automatic signal search function when power on or the source of the signal being received is lost.
1) **Press ▲▼ to select [Auto Source].**
2) **Press ►, <Input/Enter> or <Enter> to display the setting dialog box.**
3) **Press ◄► to switch [On]/[Off].**

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.

• Search and display order: [Computer 1] → [Computer 2] → [HDMI] → [Video] → [Computer 1] →•••.

Input

Set the automatic search signal source for [Auto Source].
1) **Press ▲▼ to select [Input].**
2) **Press ►, <Input/Enter> or <Enter> to display the setting dialog box.**
   • The [Input] menu dialog box is displayed.

Input

HDMI	☑
Computer 1	☑
Computer 2	☑
Video	☑

Select   Enter   ►   Exit

3) **Press ▲▼ to select the input you want to search and press ►.**
   • The input with a 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>.

Auto Power Off (Min)

Set the time to automatically turn off the projector when there is no signal input.
1) **Press ▲▼ to select [Auto Power Off (Min)].**
2) **Press ►, <Input/Enter> or <Enter> to display the adjustment dialog box.**
3) **Press ◄► to adjust off timer (min).**
   • When set to [0 (min)], this function is disable.
   • You can set the time in 5 minutes intervals and the longest set time is 120 minutes.

Note

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

Lamp Settings

Displays and sets detail of the lamp settings.
1) **Press ▲▼ to select [Lamp Settings].**
2) **Press ►, <Input/Enter> or <Enter> to display the setting dialog box.**

■ **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 [Auto] / [ECO1]([ECO]) / [ECO2] lamp power mode. The time is displayed as the sum of the time under each setting of [Auto], [ECO1]([ECO]) and [ECO2] lamp power mode.

■ **Lamp Life Reminder**
1) **Press ▲▼ to select [Lamp Life Reminder].**
2) **Press ►, <Input/Enter> or <Enter> to display the setting dialog box.**
3) **Press ◄► to switch [On]/[Off].**

User Controls

On	Displays the lamp warning message.
Off	The warning lamp message will not be displayed.

Attention

- 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 values at the [Lamp Hours Used (Normal)] and [Lamp Hours Used (ECO)].

■ Lamp Power Mode

- Selects desired lamp power mode under different situations.

1) Press ▲▼ to select [Lamp Power Mode].
2) Press ►, <Input/Enter**> or <**Enter**> to display the setting dialog box.**
3) Press ◄► to select the desired item.

Normal	Normal brightness.
Auto	The brightness level of the content is automatically detected to significantlyreduced lamp power consumption during periods of inactivity.
ECO1	Lower brightness reduces the lamp power consumption and extends the lamp life.
ECO2	Lowest brightness reduces the lamp power consumption and extends the lamp life.

Note

- When there is no signal for more than 5 minutes, the lamp power will be decreased automatically for power saving.

■ Clear Lamp Hours

- Reset the lamp usage time after replacing the lamp unit.

1) Press ▲▼ to select [Clear Lamp Hours].
2) Press ►, <Input/Enter**> or <**Enter**> to display the setting dialog box.**
3) Press ▲▼ to switch [Yes]/[No].
4) Press ►, <Input/Enter**> or <**Enter**> to execute.**

High Altitude

Set to [On] when the projector is used at elevation between approx. 1 000 m (3 300 ft) and approx. 3 000 m (10 000 ft).
1) Press ▲▼ to select [High Altitude].
2) Press ►, <Input/Enter**> or <**Enter**> to display the adjustment dialog box.**
3) Press ◄► to switch [On]/[Off].

On	For the elevation between approx. 1 000 m (3 300 ft) and approx. 3 000 m (10 000 ft).
Off	For the elevation below approx. 1 000 m (3 300 ft).

Note

- When [On] is selected, the speed and the noise of the fan will increase. Do not use this projector in place elevation is over 3000m (10000ft).

Dust Filter Reminder

Set the cleaning cycle of the filters and reset the use time of the filters.
1) Press ▲▼ to select [Dust Filter Reminder].
2) Press ►, <Input/Enter**> or <**Enter**> to display the setting dialog box.**

■ Filters Remind (Hour)

- Set the interval timer to display the Dust Filter Reminder message.

1) Press ▲▼ to select [Filters Remind].
2) Press ►, <Input/Enter**> or <**Enter**> to display the adjustment dialog box.**
3) Press ◄► to set the time.
   - When set to 0 (Hour), this function is disabled.
   - The factory default is 0 hour.
   - You can set the time in between 50 hours and 1000 hours.

■ Cleaning up Reminder

- Reset the air filter used time to zero.
- Reset the air filter hour counter after cleaning or replacing the dust filter.

1) Press ▲▼ to select [Cleaning up Reminder].
2) Press ►, <Input/Enter**> or <**Enter**> to display the setting dialog box.**
3) Press ▲▼ to switch [Yes]/[No].
4) Press ►, <Input/Enter**> or <**Enter**> to execute.**

Note

- It is recommended to clean the air filters regularly every 500 hours of usage.

### Information

Displays the input signal source and setting state information of the projector.

1) Press ▲ ▼ to select [Information].
2) Press ►, <Input/Enter> or <Enter> to display the information dialog box.
  - Displays [Source], [Resolution], [Software Version], [Color Space] and [Aspect Ratio].

User Controls

3D

Select [3D] from the Main Menu (see "How to operate menu" on page 29) and then select the item from the Sub Menu.
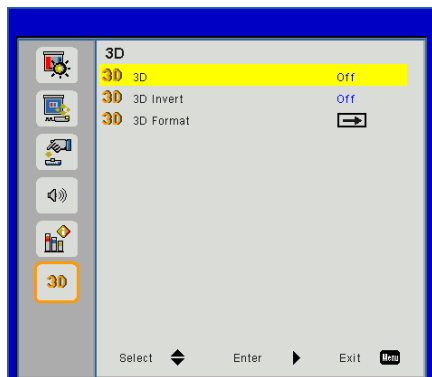
3D

Use this function to set the display mode of the 3D image.
1) Press ▲▼ to select [3D].
2) Press ►, <Enter> to display the setting dialog box.
3) Press ◄► to switch.

On	Compulsory displays the 3D format which is selected in [3D Format].
Off	Turn off [3D] image display.

Note

- Compatible 3D source, 3D content and optional 3D glasses type2 are required for 3D viewing.
- When [3D] is set to [ON],[Picture]menu will change to 3D setting in spite of the input signal, and [Color Mode]or[Color Temp] can not be adjusted.
- When viewing 3D contents, see [Note to Users Viewing 3D Images](→Page 14)

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 strange.
1) Press ▲▼ to select [3D Invert].
2) Press ►, <Enter> to display the setting dialog box.
3) Press ◄► to switch [On]/[Off].

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.
1) Press ▲▼ to select [3D Format].
2) Press ►, <Enter> to display the setting dialog box.
3) Press ▲▼ to select the desired 3D Format item.
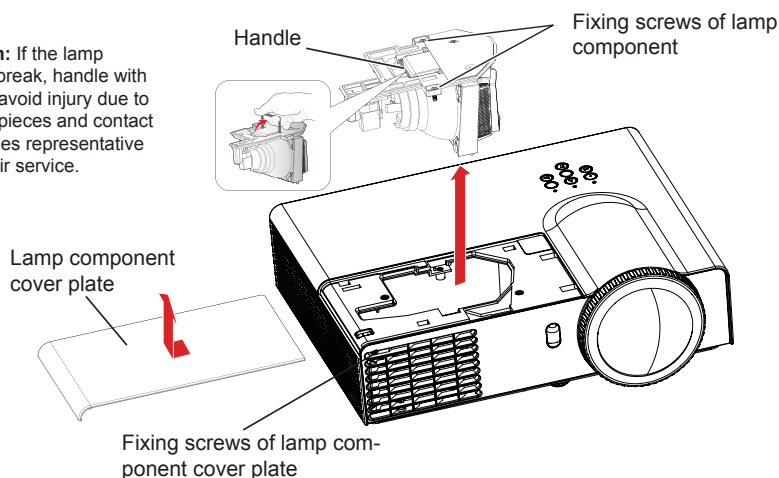4) Press ► to execute.

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.

Lamp Replacement Procedure

NOTE

❖ If ceiling mounted, please use caution when opening the lamp access panel. It is recommended to wear safety glasses if changing the bulb when ceiling mounted. Caution must be used to prevent any loose parts from falling out of projector.
❖ Firmly install the lamp assembly as well as its cover.
❖ If failing to install the lamp bulb smoothly, take it down and try again. If excessive force is used when installing the bulb, the connectors may be damaged.
❖ Do not disassemble any screws other than those specified.

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

Handle

Fixing screws of lamp component

Lamp component cover plate

Fixing screws of lamp component cover plate

1. Turn off the power in accordance with the procedures specified in the "Turning off the Projector". Unplug power cord from the power socket on the wall. Wait for at least one hour until it is confirmed that the lamp components and its surroundings have been completely cooled.
2. Unscrew the fixing screws of lamp components cover plate with cross head screwdriver, and then open the lamp components cover plate.
   ● Slowly pull out the lamp components cover plate according to the direction of arrow.
3. Unscrew two fixing screws of lamp components with cross head screwdriver until the screws are completely loose. Hold the handle, and gently pull up the lamp components from the projector.
4. Insert the unused lamp components in the correct direction. Tighten the two fixing screws of lamp components with cross head screwdriver.
5. Close the lamp components cover plate and tighten its fixing screws with cross head screwdriver.

Reset the lamp usage time

After replacing the lamp components, reset usage time in [Clear the lamp usage time] menu.

Appendices

Compatibility Modes

▸ **Computer/Video/HDMI/Mac Compatibility**

Signal	Resolution	Refresh Rate (Hz)	Video	Analog	HDMI	Mac
NTSC	720 x 480	60	O	-	-	-
PAL/SECAM	720 x 576	50	O	-	-	-
VGA	640 x 480	60	-	O	O	O
	640 x 480	67	-	O	-	-
	640 x 480	72.8	-	O	-	O
	640 x 480	85	-	O	-	O
SVGA	800 x 600	56.3	-	O	-	-
	800 x 600	60.3	-	O	O	O
	800 x 600	72.2	-	O	O	O
	800 x 600	85.1	-	O	O	O
	800 x 600	120	-	O	O	-
XGA	1024 x 768	60	-	O	O	O
	1024 x 768	70.1	-	O	O	O
	1024 x 768	75	-	O	O	O
	1024 x 768	85	-	O	O	O
	1024 x 768	120	-	O	O	-
WSVGA	1024 x 600	60	-	-	O	O
HDTV (720p)	1280 x 720	50	O	O	O	-
	1280 x 720	60	O	O	O	O
	1280 x 720	120	-	O	O	-
WXGA	1280 x 768	60	-	O	O	O
	1280 x 768	75	-	O	O	O
	1280 x 768	85	-	O	O	O
	1280 x 800	60	-	O	O	O
	1366 x 768	60	-	O	O	-
WXGA+	1440 x 900	60	-	O	O	-
SXGA	1280 x 1024	60	-	O	O	O
	1280 x 1024	75	-	O	O	O
	1280 x 1024	85	-	O	O	-
SXGA+	1400 x 1050	60	-	O	O	-
UXGA	1600 x1200	60	-	O	O	-
HDTV (1080p)	1920 x 1080	24	O	O	O	-
	1920 x 1080	30	-	-	O	-
	1920 x 1080	50	O	O	O	-
	1920 x 1080	60	O	O	O	O
HDTV (1080i)	1920 x 1080	50	O	-	O	-
	1920 x 1080	60	O	-	O	-
WUXGA	1920 x 1200	60 [*1]	-	O	O	O

Note

❖ Please note that using resolutions other than native 1024 x 768 (native resolution of this model) may result in some loss of image clarity.

❖ (*1) 1920 x1200 @60Hz only support RB (reduced blanking).

❖ 120Hz input signals may be dependent on graphics cards support.

Signal	Resolution	Refresh Rate (Hz)	Video	Analog	HDMI	Mac
SDTV (576i)	768 x 576	50	O	-	O	-
SDTV (576p)	768 x 576	50	O	-	O	-
SDTV (480i)	640 x 480	60	O	-	O	-
SDTV (480p)	640 x 480	60	O	-	O	-

HDMI 3D Input (with 3D Info Frame Information) -Video

3D mode	Input Resolutions
Top and Bottom	1280 X 720P @ 50Hz
	1280 X 720P @ 60Hz
	1920 X 1080P @24 Hz
Frame packing	1280 X 720P @ 50Hz
	1280 X 720P @ 60Hz
	1920 X 1080P @24 Hz
Side-by-Side(Half)	1920 X 1080i @50 Hz
	1920 X 1080i @60 Hz

HDMI 3D Input (without 3D Info Frame information) -Video

3D mode	Input Resolutions
Side-by-Side(Half) (SBS mode is on)	1280 x 720P @50Hz
	1280 x 720P @60Hz
	1920 x 1080i @ 50Hz
	1920 x1080i @ 60Hz
Top and Bottom (TAB mode is on)	1280 x 720P @50Hz
	1280 x 720P @60Hz
	1920 x 1080i @ 50Hz
	1920 x1080i @ 60Hz

VGA 3D Input -PC

3D mode	Input Resolutions
Side-by-Side (Half)	800x600 @ 60Hz
	1024x768 @ 60Hz
Top and Bottom	800x600 @ 60Hz
	1024x768 @ 60Hz
Frame Sequential	800x600 @ 120Hz
	1024x768 @ 120Hz

Composite 3D Input

3D mode	Input Resolutions
HQFS	NTSC

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.

? 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.

? Partial, scrolling or incorrectly displayed image

▶ Press "Auto Set" on the remote control.

▶ Adjust the computer display settings. Verify the resolution setting is less than or equal to 1600 x 1200 resolution. See your operating system's Help file.

▶ 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.

? The screen of the Notebook 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.

? Image is unstable or flickering

▶ Adjust the "Phase" or "Clock" to correct it. Refer to the page 34.

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

? Image is out of focus

▶ Adjust the Focus Ring on the projector lens.

▶ Make sure the projection screen is between the required distance. (refer to pages 27 - 28)

? 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.

? Image is too small or too large

▶ 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".

[?] Image is reversed

▶ Select "Position --> Ceiling Mount" from the OSD menu to adjust the image.

[?] 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".

[?] Image does not display in 3D

▶ Check if the battery of 3D glasses is drained.

▶ Check if the 3D glasses is turned on.
3D Format is only supported on 3D Timing on page 45.

Appendices

? Indicator lighting message

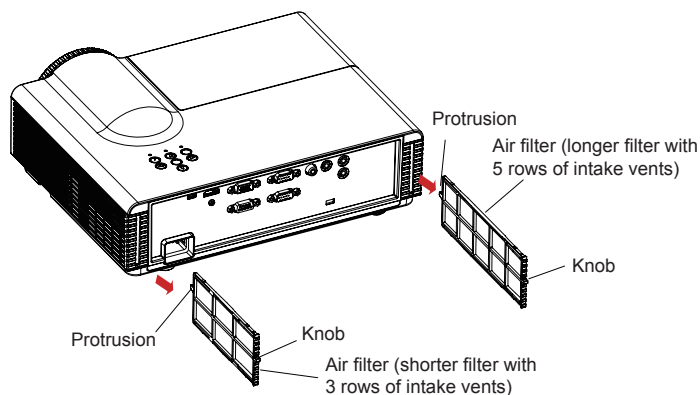| Message	<Power> indicator	<Temp> indicator	<Lamp> indicator
	○	○	○
	(Green/Amber)	(Red)	(Red)
Standby State (Input power cord)	Amber	○	○
Power on (Warming up)	Flashing Green	○	○
Lamp lighting	Green	○	○
Power off (Cooling)	Flashing Amber	○	○
Error (Over Temp.)	Flashing Amber	☀	○
Error (Fan fail)	Flashing Amber	Flashing	○
Error (Lamp fail)	Flashing Amber	○	☀

Steady light ⇨ ☀
No light ⇨ ○

Appendices

Maintaining the filter

We recommends cleaning the dust filter every three months; clean it more often if the projector is used in a dusty environment.

Replacement of the air filters

1. Turn off the projector, and remove the AC power plug from the AC outlet.
2. Clean up the dust on the projector and around the air vents.
3. Pull out the air filters straight and slowly with grabbing the knobs.

Protrusion
Air filter (longer filter with 5 rows of intake vents)
Knob
Protrusion
Knob
Air filter (shorter filter with 3 rows of intake vents)

4. Install the new air filters (Replacement air filters).
   • Hold the air filters with the protrusion up towards the top panel as shown in the picture and insert them until you hear a "click" sound.
5. Reset the [Filter Reminder].
   • Turn on the power and perform [Cleaning up Reminder] in the [Options] menu.

Configurations of Terminals

Terminal: Computer in 1/2 [Monitor Out] (Mini D-sub 15 pin)
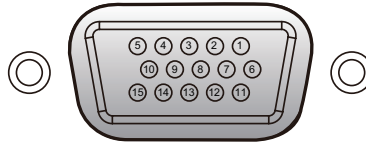
1	Red (R/Cr) Input [R Output]	9	DDC 5V [NC*]
2	Green (G/Y) Input [G Output]	10	Ground (Ver. sync.)
3	Blue (B/Cb) Input [B Output]	11	NC*
4	NC*	12	DDC Data [NC*]
5	Ground (Horiz.sync.)	13	Horiz. sync. Input [Output] (Composite H/V sync. Input)
6	Ground (Red)		
7	Ground (Green)	14	Vert. sync. Input [Output]
8	Ground (Blue)	15	DDC CLK [NC*]
	* Do not connect anything.		

Terminal: PC Control (D-sub 9 pin : female)

❖ Contact your dealer for control cable and commands.
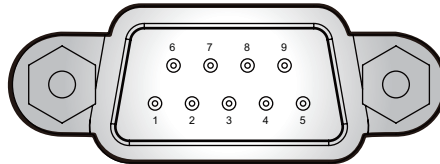
1	NC*	6	NC*
2	TXD (Sending Data)	7	NC*
3	RXD (Receiving Data)	8	NC*
4	NC*	9	NC*
5	GND	* Do not connect anything.	

Appendices

Specifications

List of general specifications

Item	Specification
Consumption Power	240W (ECO mode) / 295W (Full mode)
Weight	2.8kg
Dimensions (WxHxD)	220 x 288 x 100 mm (with 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	1024 × 768 pixels (XGA)
Lens	F#2.8, f=7.26mm
Lamp	High-pressure mercury lamp (240W)
Lamp Life	3500hours typical (Full Mode) / 5000 hours typical (ECO1/ECO2 Mode) / 10000hours typical (Auto Mode)
Projection screen size	40 - 200 inch
Projection distance	0.51 - 2.54m (Focus range)
Speaker	8W (Mono)

	Connection terminal	
	Computer In terminal× 2	Mini D sub 15 pin RGB / Y/P_B / P_R (dual use)
	Monitor Out terminal	Mini D sub 15 pin
	HDMI terminal	HDMI
	Video terminal	RCA Pin Jack
	PC Control terminal	D sub 9 pin Female (RS-232C compliant)
	Audio In terminal × 2	3.5mm diameter mini-jack (1) Computer 1 or Computer 2 (2) Video
	Audio Out terminal	3.5mm diameter mini-jack

Cabinet Dimensions

Unit: mm

220.09

288.0

70.8

48.04

42.7

64.0

82.3

157.58

75.28

55.0 55.0
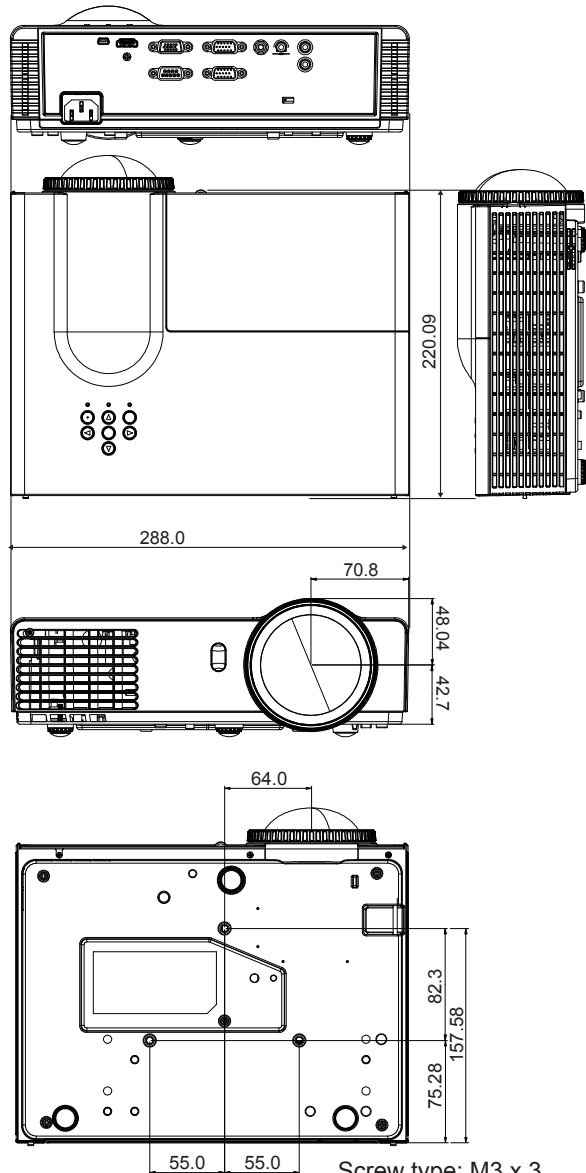
Screw type: M3 x 3
Maximum screw length: 6mm

Appendices

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