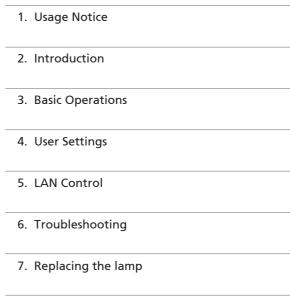
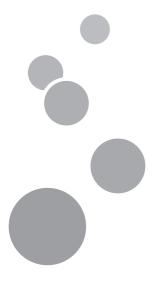


RICOH PJ S2240 / X2240 / WX2240 / TS100 X5460 / WX5460 / HD5450

User's Manual



8. Appendices



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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Precautions



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

uiii.	
■ 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.

■ 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.
- 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 WX2240 Series weighs about 2.6kg (5.75lb.).
 - * PJ WX5460 Series weighs about 3.0kg (6.61lb.).
 - 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.

 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.

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

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

ing messages.

■ 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.

Unplug this product from the wall outlet and take

■ Caution-

= Cutton	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-	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- 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.

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:

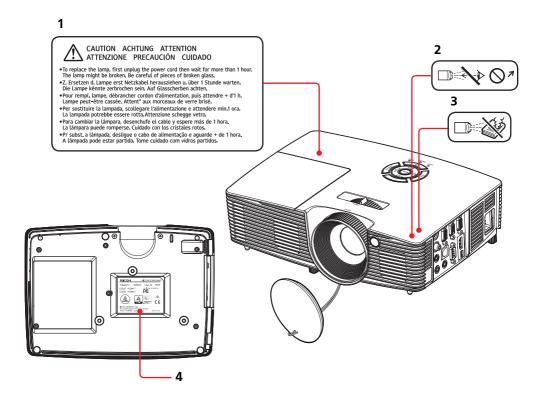
- Block the slots and openings on the unit provided for ventilation.
- Use abrasive cleaners, waxes or solvents to clean the unit.
- Use under the following conditions:
 - Extremely heat, cold or humidity.
 - In areas susceptible to excessive dust and dirt.
 - Near any appliance generating a strong magnetic 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 To replace the lamp, unplug the power cord and then wait for 60 minutes.
- 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 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.
- 4 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.



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 S2240 / RICOH PJ X2240 / RICOH PJ WX2240 / RICOH PJ X5460 / RICOH PJ WX5460 / RICOH PJ HD5450

TRADE NAME: PROJECTOR

MODEL NAME: RICOH PJ S2240 / RICOH PJ X2240 /

RICOH PJ WX2240 / RICOH PJ X5460 / RICOH PJ WX5460/ RICOH PJ HD5450

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.

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.

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*.

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.

• 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.

REMOTE CONTROL BATTERY

Warning

• Never throw battery into a fire.

Using the battery 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 a CR2025 lithium 3V coin battery.
- Dispose of battery 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.
- The remote control may fail to operate if the infrared remote sensor is exposed to bright sunlight or fluorescent lighting.

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

Note to Users Viewing 3D Images

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 lightsensitive seizures, consult a doctor before viewing 3D images.

Product Features

Outstanding features include:

- True RICOH PJ S2240 SVGA / RICOH PJ TS100 SVGA / RICOH PJ X2240 XGA / RICOH PJ WX2240 WXGA / RICOH PJ X5460 XGA / RICOH PJ WX5460 WXGA / RICOH PJ HD5450 1080p addressable pixels
- Single chip DLP® technology
- NTSC M (3.58MHz)/NTSC 4.43 MHz/ 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 (RICOH PJ X2240 / RICOH PJ WX2240)
- Built-in mono 10-Watt speaker (RICOH PJ X5460 / RICOH PJ WX5460 / RICOH PJ HD5450)

Package Overview

Note Due to the

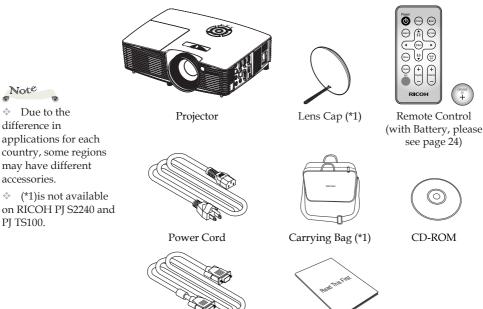
difference in

PJ TS100.

applications for each

may have different accessories.

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.



About the CD-ROM

RGB Cable

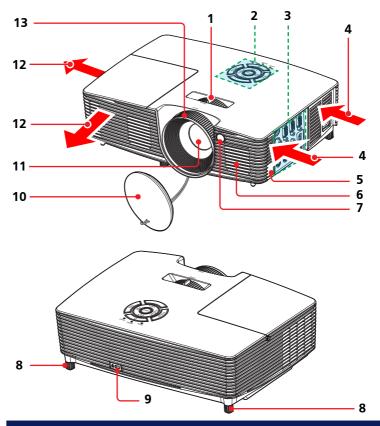
Contains an user's manual in PDF format.

Support languages are English, Japanese and Chinese. For the other languages, visit RICOH Web site.

Read This First

Projector Management Utility Software can be used only RICOH PJ WX5460/X5460/HD5450

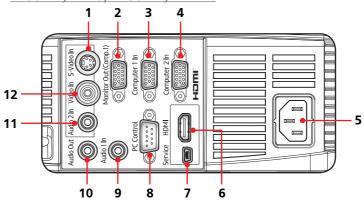
Product Overview



- 1. Zoom lever
- 2. Control panel
- 3. Connection ports
- 4. Ventilation (inlet)
- 5. Security chain opening
- 6. Speaker
- 7. Remote Receiver
- 8. Adjustable feet
- 9. Anti-theft lock hole (Kensington™ lock)
- 10. Lens cap
- 11. Lens
- 12. Ventilation (outlet)
- 13. Focus ring

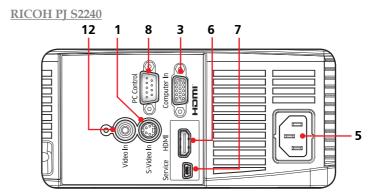
Connection Ports

RICOH PJ X2240 / RICOH PJ WX2240

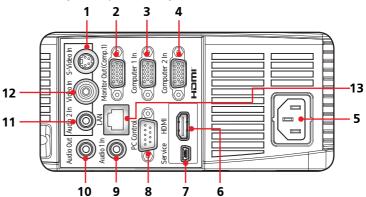


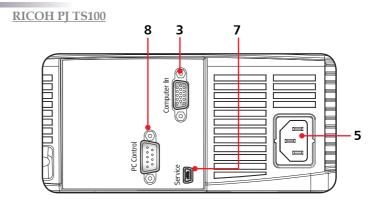
Note

The interface is subject to model's specifications.



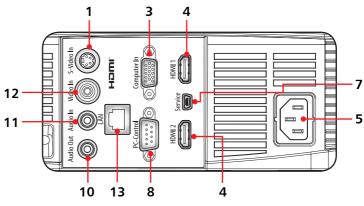
RICOH PJ X5460 / RICOH PJ WX5460





RICOH PJ HD5450

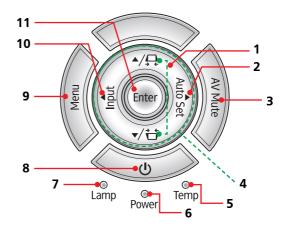
- Note
- * (*1)is not available on RICOH PJ S2240
- * (*2)is available on RICOH PJ WX5460/ X5460/HD5450.
- * (*3)is not available on RICOH PJ TS100.



Connection Ports (continue)

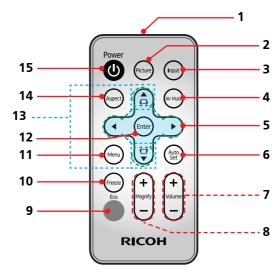
- 1. S-Video In terminal(*3)
- 2. Monitor Out terminal(*1)(*3)
- 3. Computer 1 In terminal
- 4. Computer 2 In terminal(*1)(*3)
- 5. AC In socket
- 6. HDMI Input terminal(*3)
- 7. Service terminal
- 8. PC Control terminal
- 9. Audio 1 In terminal(*1)(*3)
- 10. Audio Out terminal(*1)(*3)
- 11. Audio 2 In terminal (For Video and S-Video)(*1)(*3)
- 12. Video In terminal(*3)
- 13. LAN terminal(*2)

Control Panel



1	Keystone ₽/ᡠ	Use ▲ or ▼ to adjust the image to compensate for distortion caused by tilting the projector.
2	Auto Set	Automatically synchronize the projector to the input source.
3	AV Mute	Momentarily turn off/on the audio and video.
4	Four Directional Select Keys	Use ▲ or ▼ or ◀ or ▶ to select items or make adjustments to your selection.
5	Temp indicator	Indicate the inside of the projector's temperature status.
6	Power indicator	Indicate the projector's power status.
7	Lamp indicator	Indicate the projector's lamp status.
8	Power	Refer to the "Power On/Off the Projector" section. (See pages 35~36)
9	Menu	Press "Menu" to launch the on screen display (OSD), or go back to the previous menu. (See page 42)
10	Input	Select the input source.
11	Enter	Select or confirm settings.

Remote Control



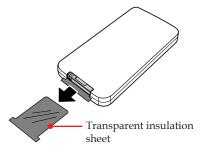
1	Transmitter	Send signals to the projector.
2	Picture	Select the preset picture mode.
<u>2</u> 3	Input	Select the input source.
4	AV Mute	Momentarily turn off/on the audio
		and video.
5	Four Directional	Use ▲ or ▼ or ◀ or ▶ to select items
	Select Keys	or make adjustments to your selection.
6	Auto Set	Automatically synchronize the
		projector to the input source.
7	Volume +/-	Increase/decrease speaker volume.
8	Magnify +/-	Enlarge part of the screen image.
		Reduce the enlarged part of the
		image. (Digital Zoom)
9	Eco	Show "Lamp Power Mode" menu.
10	Freeze	Pause the screen image. Press again to
		resume the screen image.
11	Menu	Press "Menu" to launch the on screen
		display (OSD), or go back to the
		previous menu. (See page 33)
12	Enter	Select or confirm settings.

13	Keystone ₽/廿	Adjust the image to compensate
		for distortion caused by tilting the
		projector.
14	Aspect	Use this function to choose your
		desired aspect ratio for the screen.
15	Power	Refer to the "Power On/Off the
		Projector" section. (See pages 35~36)

Remote Control Battery

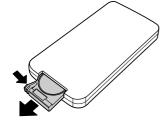
For the First Time

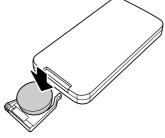
Before using the remote control for the first time, remove the transparent insulation sheet.

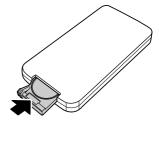


Replace the Battery

- 1 Press the battery compartment release button and then slide out the battery tray.
- Remove the old battery and put the new battery (CR2025) into the battery tray.
- 3 Slide the battery tray back into the battery compartment until it snaps into place.









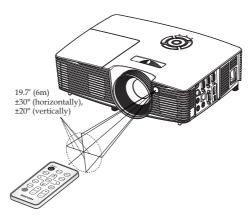
To ensure safe operation, please observe the following precautions:

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

For more detail information, please see page 13.

Remote Control Operating Range

Point the remote control toward the projector (Remote Receiver) when pressing any button.



Maximum operating range for the remote control is about 19.7' (6m) and $\pm 30^{\circ}$ (horizontally), $\pm 20^{\circ}$ (vertically) in front of the projector.

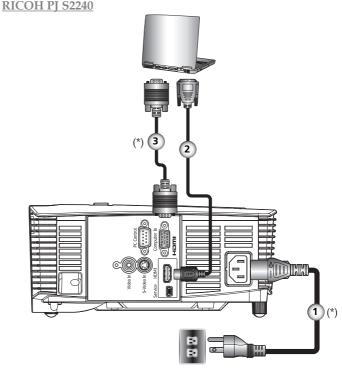
Connecting the Projector

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.





1	Power cord (supplied)
	HDMI/DVI cable
	RGB cable (supplied)

- To ensure the projector works well with your computer, please make sure the timing of the display mode is compatible with your projector. (See pages 76-79)
- * Use the cables that come with the projector. (*)

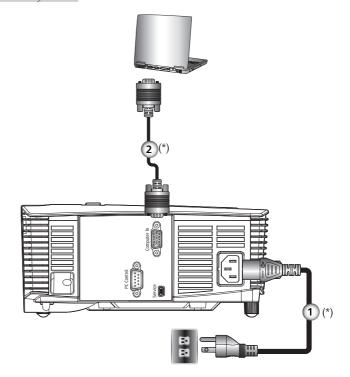
Connect to Computer/Notebook

RICOH PJ TS100



- 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.







- To ensure the projector works well with your computer, please make sure the timing of the display mode is compatible with your projector. (See pages 76-79)
- * Use the cables that come with the projector. (*)

Connect to Computer/Notebook

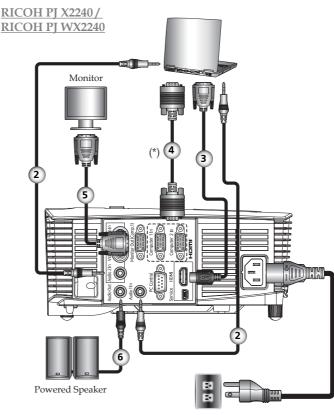


- Make sure that the power plug is fully inserted into both the projector AC inlet and the wall outlet.
- The AC outlet must be near this equipment and must be easily accessible.

Note



- When "MonitorOut(Standby)" is set to "Off", the monitor out and audio out will be deactivated in standby mode.
- When Audio Out is connected, Built-in speaker doesn't sound.



1	Power cord (supplied)
	Audio cable
3	HDMI/DVI cable
4	RGB cable (supplied)
5	RGB cable
6	Audio cable

- speaker doesn't sound. To ensure the projector works well with your computer, please make sure the timing of the display mode is compatible with your projector. (See pages 76-79)
 - * Use the cables that come with the projector. (*)

Connect to Computer/Notebook

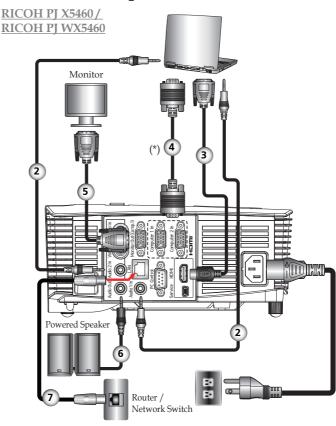


- Make sure that the power plug is fully inserted into both the projector AC inlet and the wall outlet.
- The AC outlet must be near this equipment and must be easily accessible.

Note



- When "MonitorOut(Standby)" is set to "Off", the monitor out and audio out will be deactivated in standby mode.
- When Audio Out is connected, the builtin speaker doesn't produce sound.



	D 1/ 1: 1)
1	Power cord (supplied)
2	Audio cable
3	HDMI/DVI cable
4	RGB cable (supplied)
	RGB cable
6	Audio cable
7	LAN cable

- * To ensure the projector works well with your computer, please make sure the timing of the display mode is compatible with your projector. (See pages 76-79)
- Use the cables that come with the projector. (*)

Connect to Computer/Notebook

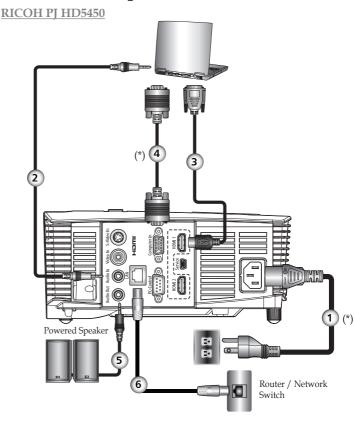


- Make sure that the power plug is fully inserted into both the projector AC inlet and the wall outlet.
- The AC outlet must be near this equipment and must be easily accessible.

Note



- When "Monitor Out (Standby)" is set to "Off", the monitor out and audio out will be deactivated in standby mode.
- When Audio Out is connected, Built-in speaker doesn't sound.



1	Power cord (supplied)
2	Audio cable
	HDMI/DVI cable
4	RGB cable (supplied)
5	Audio cable
6	LAN cable

- To ensure the projector works well with your computer, please make sure the timing of the display mode is compatible with your projector. (See pages 76-79)
- * Use the cables that come with the projector. (*)

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.



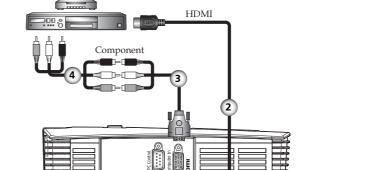
Due to the difference in applications for each country, some regions may have different accessories.

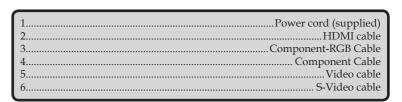
Connect to AV Equipment

RICOH PJ S2240

Video

DVD player, HDTV receiver





❖ Use the cables that come with the projector. (*)

S-Video

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

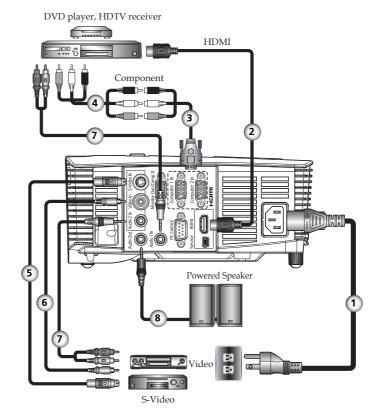
Due to the difference in applications for each country, some regions may have different accessories.

Note

- When HDMI input is selected, only audio signal with HDMI can be output.
- When Audio Out is connected, Built-in speaker doesn't sound.

Connect to AV Equipment

RICOH PJ X2240 / RICOH PJ WX2240



1	Power cord (supplied)
2	HDMI cable
	Component-RGB Cable
4	
5	
6	Video cable Audio cable
7	Audio cable
8	Audio cable

^{*} Use the cables that come with the projector. (*)

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

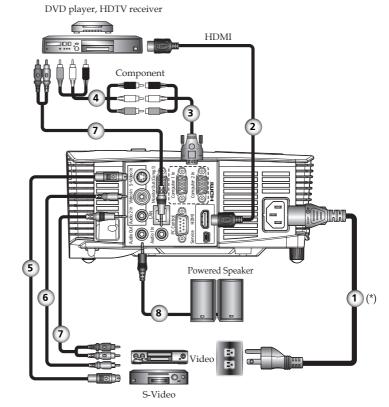
Due to the difference in applications for each country, some regions may have different accessories.

Note

- When HDMI input is selected, only audio signal with HDMI can be output.
- When Audio Out is connected, Built-in speaker doesn't sound.

Connect to AV Equipment

RICOH PJ X5460 / RICOH PJ WX5460



1	Power cord (supplied)
2	HDMI cable
3	Component-RGB Cable
4	
5	
6	Video cable
7	Audio cable
8	Audio cable

Use the cables that come with the projector. (*)

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.

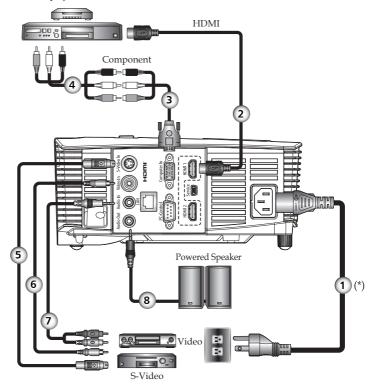
Note

- Due to the difference in applications for each country, some regions may have different accessories.
- When HDMI input is selected, only audio signal with HDMI can be output.
- When Audio Out is connected, Built-in speaker doesn't sound.

Connect to AV Equipment

RICOH PJ HD5450

DVD player, HDTV receiver



- 1
 Power cord (supplied)

 2
 HDMI cable

 3
 Component-RGB Cable

 4
 Component Cable

 5
 S-Video cable

 6
 Video cable

 7
 Audio cable

 8
 Audio cable
- * Use the cables that come with the projector. (*)

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. There is no lens cap on RICOH PJ S2240/PJ TS100.
- 3. Turn on the lamp by pressing the "O" button on the control panel or the remote control. 2 The Power indicator will flash blue.
 - The startup screen will display and the Power indicator will turn blue.
- 4. The first time you use the projector, you will be asked to select the preferred language. Turn on your source (computer, notebook, video player, etc.) The projector will detect your source automatically.
 - Make sure that the "Auto Source" has been set to "On".

CAUTION:

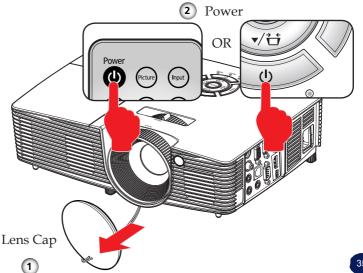
- Do not look into the lens while the lamp is on. The strong light from the lamp may cause damage to your eyesight.
- Do not block the air intake or exhaust. Doing so could cause a fire due to internal overheating.
- Do not place your hands, face, or other objects near the air exhaust, the lamp cover or the bottom of the unit. Doing so could result in injury and/or damage the object.



If you connect multiple sources at the same time, press "Input" to switch inputs.



Turn on the projector first and then the signal sources.



Powering Off the Projector

1. Press the "Φ" button and you will see a message as below on the on-screen display.



- 2. Press the "O" button again to turn off the projector lamp.
- 3. The cooling fan continues to operate for about 30 seconds for cooling cycle and the Power indicator will flash red. After cooling down, the light stops flashing, and then the projector will enter the 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 the " θ " button to restart the projector.
- 4. Disconnect the power cord from the electrical outlet and the projector.

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 sec off) and the message below displays, it indicates the cooling fan failed. Stop using the projector and disconnect the power cord from the electrical outlet, then contact your local dealer or our service center.



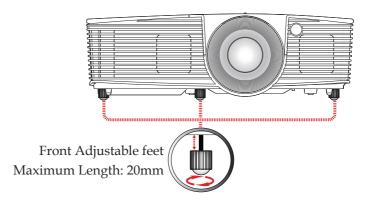
For more information of the warning indicator, please see page 73.

Adjusting the Projected Image

Adjusting the Position of Projector Image

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

- 1. Locate the adjustable foot you wish to modify on the underside of the projector.
- 2. Rotate the adjustable ring clockwise to raise the projector or counter clockwise to lower it. Repeat with the remaining feet as necessary.



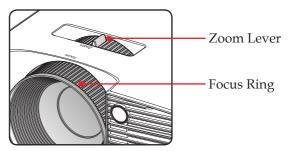


* You can incline the projector up to 6.5° by rotating the adjustable feet.

Adjusting the Projector Zoom and Focus

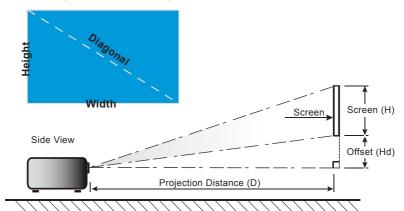
You may turn the zoom lever to zoom in or out. To focus the image, rotate the focus ring until the image is clear.

- ▶ RICOH PJ S2240/PJ TS100/PJ X2240/PJ X5460: Focus at distances from 3.94 to 39.4 feet (1.2 to 12.0 meters).
- ▶ RICOH PJ WX2240/PJ WX5460: Focus at distances from 3.28 to 36.1 feet (1.0 to 11.0 meters).
- RICOH PJ HD5450: Focus at distances from 4.89 to 32.7 feet (1.5 to 10.0 meters).



Adjusting Projection Image Size

- RICOH PJ S2240/PJ TS100/PJ X2240/PJ X5460: Projection Image Size from 30" to 300" (0.76 to 7.6 meters)
- RICOH PJ WX2240/PJ WX5460: Projection Image Size from 30" to 300" (0.76 to 7.6 meters)
- ▶ RICOH PJ HD5450: Projection Image Size from 38" to 300" (0.97 to 7.6 meters)



RICOH PJ S2240 /PJ TS100/ PJ X2240 / PJ X5460

Diagonal length		Screen S	ize W x H		Projection Distance (D)				O#==+ (114)	
(inch) size of	(m)		(inch)		(m)		(feet)		Offset (Hd)	
4:3 Screen	Width	Height	Width	Height	wide	tele	wide	tele	(m)	(feet)
30	0.6	0.5	24.0	18.0	1.2	1.3	3.9	4.3	0.07	0.23
40	0.8	0.6	32.0	24.0	1.6	1.8	5.2	5.7	0.09	0.30
60	1.2	0.9	48.0	36.0	2.4	2.6	7.8	8.6	0.14	0.45
70	1.4	1.1	56.0	42.0	2.8	3.1	9.1	10.0	0.16	0.52
80	1.6	1.2	64.0	48.0	3.2	3.5	10.4	11.5	0.18	0.60
90	1.8	1.4	72.0	54.0	3.6	3.9	11.7	12.9	0.21	0.67
100	2.0	1.5	80.0	60.0	4.0	4.4	13.0	14.3	0.23	0.75
120	2.4	1.8	96.0	72.0	4.8	5.2	15.6	17.2	0.27	0.90
150	3.1	2.3	120.0	90.0	5.9	6.6	19.5	21.5	0.34	1.13
200	4.1	3.1	160.0	120.0	7.9	8.7	26.0	28.7	0.46	1.50
250	5.1	3.8	200.0	150.0	9.9	10.9	32.5	35.8	0.57	1.88
300	6.1	4.6	240.0	180.0	11.9	13.1	39.0	43.0	0.69	2.25

^{*}This table is for user's reference only.

RICOH PJ WX2240 / PJ WX5460

Diagonal length		Screen S	ize W x H		Projection Distance (D)				O#+ (114)	
(inch) size of	(m)		(inch)		(m)		(feet)		Offset (Hd)	
16:10 Screen	Width	Height	Width	Height	wide	tele	wide	tele	(m)	(feet)
30	0.7	0.4	25.4	15.9	1.0	1.1	3.3	3.6	0.05	0.16
40	0.9	0.5	33.9	21.2	1.3	1.5	4.4	4.8	0.07	0.22
60	1.3	0.8	50.9	31.8	2.0	2.2	6.6	7.2	0.10	0.33
70	1.5	0.9	59.4	37.1	2.3	2.6	7.7	8.4	0.12	0.38
80	1.7	1.1	67.8	42.4	2.7	2.9	8.8	9.6	0.13	0.44
90	1.9	1.2	76.3	47.7	3.0	3.3	9.9	10.8	0.15	0.49
100	2.2	1.4	84.8	53.0	3.3	3.7	11.0	12.0	0.17	0.55
120	2.6	1.6	101.8	63.6	4.0	4.4	13.1	14.4	0.20	0.66
150	3.2	2.0	127.2	79.5	5.0	5.5	16.4	18.0	0.25	0.82
180	4.3	2.7	169.6	106.0	6.7	7.3	21.9	24.0	0.33	1.10
200	5.4	3.4	212.0	132.5	8.3	9.2	27.4	30.0	0.42	1.37
300	6.5	4.0	254.4	159.0	10.0	11.0	32.9	36.0	0.50	1.64

^{*}This table is for user's reference only.

RICOH PJ HD5450

Diagonal length Screen Si		ize W x H		Projection Distance (D)				Offset (Hd)		
(inch) size of	(m)		(inch)		(m)		(feet)		Oliset (Hu)	
16:9 Screen	Width	Height	Width	Height	wide	tele	wide	tele	(m)	(feet)
38	0.84	0.47	33.1	18.6	-	1.5	-	5.0	0.08	0.25
45	1.00	0.56	39.2	22.1	1.5	1.8	4.9	5.9	0.09	0.29
50	1.11	0.62	43.6	24.5	1.7	2.0	5.4	6.5	0.10	0.33
60	1.33	0.72	52.3	29.4	2.0	2.4	6.5	7.8	0.12	0.39
70	1.55	0.87	61.0	34.3	2.3	2.8	7.6	9.2	0.14	0.46
80	1.77	1.00	69.7	39.2	2.7	3.2	8.7	10.5	0.16	0.52
90	1.99	1.12	78.4	44.1	3.0	3.6	9.8	11.8	0.18	0.59
100	2.21	1.25	87.2	49.0	3.3	4.0	10.9	13.1	0.20	0.65
120	2.66	1.49	104.6	58.8	4.0	4.8	13.1	15.7	0.24	0.78
150	3.32	1.87	130.7	73.5	5.0	6.0	16.3	19.6	0.30	0.98
200	4.43	2.49	174.3	98.1	6.6	8.0	21.8	26.1	0.40	1.31
300	6.64	3.74	261.5	147.1	10.0	-	32.7	-	0.50	1.96

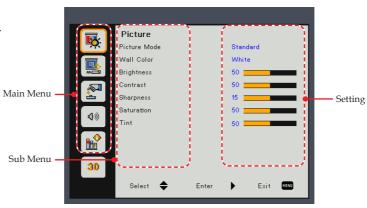
^{*}This table is for user's reference only.

Using the 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.

How to operate

- 1. To open the OSD, press "Menu" on the Control Panel or Remote Control.
- When OSD is displayed, use ▲ ▼ keys to select any item in the main menu. While making a selection on a particular page, press ► or "Enter" key to enter sub menu.
- 3. Use ▲ ▼ keys to select the desired item in the sub menu and press ▶ or "Enter" key to view further settings. Adjust the settings by using ◀▶ key or ▲ ▼ key.
- 4. Select the next item to be adjusted in the sub menu and adjust as described above.
- 5. Press "Enter" or "Menu" to confirm, and the screen will return to the previous menu.
- 6. To exit, press "Menu" again. The OSD menu will close and the projector will automatically save the new settings.





If no button operation is made for 3 - 10 seconds, the OSD will be closed automatically.



Picture

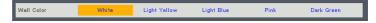
Picture Mode

There are many factory presets optimized for various types of images. Use the \triangle or ∇ key to select the item.

- ▶ Bright: Mode for emphasizing brightness.
- Standard: Mode for optimizing the balance between brightness and color reproduction.
- ▶ Game: For game content.
- Natural: Mode for emphasizing color reproduction.
- User: User defined settings.

Wall Color

Use this function to obtain an optimized screen image according to the wall color. The available options: White/ Light Yellow/ Light Blue/ Pink/ Dark Green.

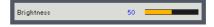


* "Sharpness", "Saturation" and "Tint" functions are only supported under Video/S-Video/ Composite Signal sources.

Note

Brightness

Adjust the brightness of the image.



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

Contrast

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

- ▶ Press the key to decrease the contrast.
- ▶ Press the ▶ key to increase the contrast.

<u>Sharpness</u>

Adjust the sharpness of the image.

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

Saturation

Adjust the color saturation of the image.

- ▶ Press the ◀ key to decrease the amount of color in the image.
- ▶ Press the ▶ key to increase the amount of color in the image.

Tint

Adjust the color balance of the image.

- ▶ Press the ◀ key to adjust the image color grrenish.
- ▶ Press the ▶ key to adjust the image color reddish.



Screen

Aspect Ratio

Use this function to choose your desired aspect ratio.

- Auto: Automatically selects the appropriate display format. When input is 4:3, the image is displayed as 4:3. When input is 16:9 above, the image is displayed as 16:9.
- ▶ 4:3: Displays 4:3 aspect ratio.
- ▶ 16:9: Displays 16:9 aspect ratio.

<u>Phase</u>

Eliminate flicker from the image displayed. Use the \triangleleft or \triangleright key to adjust the value.

Clock

Adjust the number of total dots in one horizontal period. Use the
or key to adjust number to match your PC image.

H. Position (Horizontal Position)

Shift the projected image position horizontally.



- ▶ Press the key to move the image left.
- ▶ Press the ▶ key to move the image right.

are only supported under Computer Signal source.

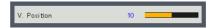
* "H. Position" and

"V. Position" functions

Note

V. Position (Vertical Position)

Shift the projected image position vertically.



- ▶ Press the **** key to move the image down.
- ▶ Press the ▶ key to move the image up.

Digital Zoom

Adjust the digital zoom ratio of the projected image.



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

V. Keystone

Press the ◀ or ▶ key to adjust image distortion vertically. If the image looks trapezoidal, this option can help make the image rectangular.

Projection Mode

Use this function to select the projector mode, depending upon how the projector is mounted.

- ▶ Front: This is the default selection. The image is projected straight on the screen.
- ▶ Front Ceiling: When selected, the image will turn upside down.
- ▶ Rear: When selected, the image will appear reversed.
- Rear Ceiling: When selected, the image will appear reversed in upside down position.

RGB Input Range

Adjust the color range of the HDMI image data.

- ▶ Auto: Automatically detect RGB range.
- ▶ Standard: Process the input image as standard range data.
- ▶ Full: Select this mode when computer signal or full range signal from AV equipment is input.



"RGB Input Range" is only supported under HDMI source.



Setting

Language

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

Monitor Out (Standby)

Enable/Disable the Monitor output function.



- ▶ On: Enable the Monitor Out function at projector standby status.
- Off: Disable the Monitor Out function at projector standby status.

Network (Standby)

(RICOH PJ X5460 / PJ WX5460 / PJ HD5450 only)

Enable/Disable the network function.



- On: Enable the network function at projector standby status.
- ▶ Off: Disable the network function at projector standby status.



"Monitor Out (Standby)" menu option is not available on RICOH PJ S2240/ RICOH PJ TS100.



"Network (Standby)" menu option is only available on RICOH PJ X5460 / RICOH PJ WX5460/ RICOH PJ HD5450.



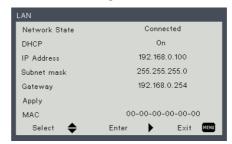
* "Network" menu option is only available on RICOH PJ X5460/ RICOH PJ WX5460/ RICOH PJ HD5450.

Consult network administrator for network settings.

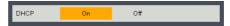
Network

(RICOH PJ X5460 / PJ WX5460 / PJ HD5450 only)

Configure the network settings.



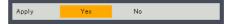
- Network State: Display the network connection status.
- ▶ DHCP: Select **On** to allow the projector to obtain an IP address automatically from your network. Select **Off** to manually assign IP, Subnet Mask, Gateway and DNS configuration.



▶ IP Address: Set an IP address or display IP address provided from DHCP server when DHCP is set to **On**.



- Subnet Mask: Set subnet mask number or display subnet mask number provided from DHCP server when DHCP is set to On.
- ▶ Gateway: Set the default gateway of the network connected to the projector or display the default gateway of the network provided from DHCP server when DHCP is is set to **On**.
- Apply: Select Yes to apply the changes made in network configuration settings.



MAC: Display MAC address.

Reset

Return the adjustments and settings to the factory default values. Choose "Yes" to return the display parameters on all menus except Language and Lamp Hours Used to the factory default settings. LAN Control settings also return to the factory default. Set again after reset.





Volume



* "Volume" menu is not available on RICOH PJ S2240/RICOH PJ TS100.



"Mute" function affects both internal and external speaker volume.

Mute

Temporarily turn off the sound.

- Choose "On" to mute the sound.
- Choose "Off" to turn mute off.

Volume

Adjust the volume level.

- ▶ Press the ◀ key to decrease the volume.
- ▶ Press the ▶ key to increase the volume.



Options

Auto Source

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

Input

Use this option to enable/disable input sources. Press the ▶ key to enter the sub menu and select which sources you require. Press "Enter" to finalize the selection. The projector will only search for inputs that are enabled.





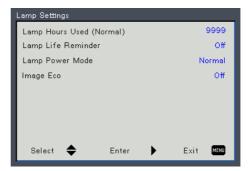
Auto Power Off (Min)

Sets the countdown timer interval. The countdown timer will start, when there is no signal being sent to the projector. The projector will automatically power off when the countdown has finished (in minutes). When countdown timer is selected to "0", auto power off is disabled.



Lamp Settings

Use this option to view the lamp life status and configure the lamp settings. Press the ▶ key to enter the sub menu and configure the desired settings.



- Note
- When ambient temperature is over 40°C in operating, the projector will switch to "ECO" automatically.
- Lamp Hours Used (Normal): Display the projection time.

 Lamp Hours Used in Eco mode or "Image Eco" mode "On" will be converted to Lamp Hours Used in "Normal" mode.
- ▶ Lamp Life Reminder: Choose this function to show or to hide the warning message when the changing lamp message is displayed. The message will appear 30 hours before suggested replacement of lamp.
- ▶ Lamp Power Mode: Set the brightness mode. Choose "Normal" to increase the brightness or choose "ECO" to dim the projector lamp which will lower power consumption and extend the lamp life.
- ▶ Image Eco: Choose "On" to dim the lamp power, depending on the brightness level of images, and significantly reduce the lamp power consumption. The lamp life will be extended.

<u>High Altitude</u>

When "On" is selected, the fans will spin faster. Set High Altitude mode to "On" when the projector is used over 2500ft (750m) elevation.



Dust Filter Reminder

Use this option to view the filter status and configure the filter settings. Press the ▶ key to enter the sub menu and configure the desired settings.

This item is disabled for the projector sold in some regions.



- Filters Remind (Hour): Set the maximum filter time usage.
- Cleaning Up Reminder: Choose this function to show or hide the warning message when the changing filter message is displayed.

If the reminder function is enabled and the usage time reached its limit, a message will appear on the screen to remind you to clean or change the filter.



<u>Information</u>

Display the projector information.



- ▶ Source: Display the input source that is currently connected to.
- Resolution: Display the resolution setting of the current input source.
- ▶ Software Version: Display the firmware version.
- Color Space: Display the currently used color matrix type.
- ▶ Aspect Ratio: Display the currently used aspect ratio setting.



3D



- Compatible 3D source, 3D content and Optical 3D glasses Type 2 is required for 3D viewing.
- * "3D Sync Invert" is only available when 3D is enabled.
- This setting may need to change when re-start running 3D movie.
- 3D function is turned on automatically when Blu-ray 3D source is input.

3D

Use this option to enable/disable the 3D function.

- ▶ Off: Choose "Off" to display normal (2D) picture.
- ▶ On: Choose "On" to display 3D format.

3D Sync Invert

Use this option to enable/disable the 3D sync invert function.

- ▶ Off: Choose "Off" for default frame contents.
- ▶ On: Choose "On" to invert left and right frame contents. Choose "On" if viewing image is not natural or felt 3D incorrect.

3D Format

Use this option to select the appropriate 3D format content.

- ▶ Side by Side: Use this mode for "Side by Side" format 3D content.
- ▶ Top and Bottom: Use this mode for "Top and Bottom" format 3D content.
- ▶ Frame Sequential: Use this mode for "Frame Sequential" format 3D content.

Note

- If you want to connect an existing network system, consult the network administrator for network settings.
- Network settings such as password will be reset when you set "Default settings 2" > "Reset All" in the projector menu system.
- In rare cases, the network function won't work properly due to electrostatic discharge or something. Set "Default settings 2" > "Reset All" in such a case.

Note

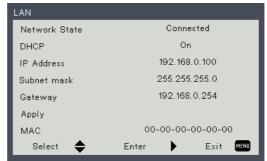
This web pages use Java Script. Please turn on Java Script in your browser.

How to use web browser to control your projector

Connecting to the projector

1. Check IP address of the projector

Check IP address in "Settings" > "Network" in the projector menu system. (See page 44 on the projector user's manual).



2. Connect

Open your web browser and type in the IP address you checked. For example, type "http://192.168.0.100" when IP address is displayed as the screen above.

Login

1. The web browser shows a login page



2. Select a user

You can use all functions (Control Panel, Network setting and Alert setting) when you select "administrator". And you can use only "Control Panel" when you select "user".

Note

- The warning message "Invalid Character" will popup if your password is incorrect.
- * "B01" showed in the top in the web page picture indicates software version of this web page. It may be different from "B01".

3. Enter the Password

If the password setting is enabled the correct password needs to enter.

Default passwords of Administrator: "admin"

Default passwords of User: "user"

If the password setting is disabled the "Password" item will be gray out.

Click [Login] button to login.

4. Login

After login, control tabs will appear. It contains **Home**, **Control Panel**, **Network Setting**, **Alert Setting**, and **Logout**.

Home is automatically selected after login.

Home



This is **Home** page which shows basic information of your projector. There is no control on this page.

1. Projector Status

System Status:

It shows the current system status of the projector. It includes Standby, Warm-up, Power-on, cooling, Power-off and Unknown.

-Input:

[PJ X5460][PJ WX5460]

It shows the current input source of the projector. It includes Computer 1, Computer 2, S-Video, Video, HDMI, None and Unknown.

-Lamp Hours:

It shows the current lamp hours of the projector.

-FW Version:

It shows the current firmware version of the projector.

Projector Control Panel



This page shows the control items of your projector. User can control the projector by this page.

Control Buttons

Execute a function when the button is clicked.

[Power ON]	Power is turned on.
[Power OFF]	Power is turned off.
[Auto Set]	Automatically adjust the RGB signal from the computer.
	Switch among Computer1, Computer2, Video, S-Video, and HDMI.

Setting Buttons

Setting is toggled On and Off by clicking the button.

[Auto Source]	Search the next signal source automatically when the current signal is lost.
	(See p.47 on the Projector User's manual)
[AV Mute]	Momentarily turn off the audio and video.
[Freeze]	Pause the screen image.
[3D Projection]	Set 3D projection mode on.
[L/R Reverse]	Change left and right frame content of 3D projection.
	(See p.50).

Input Select

Select an input source from the drop down list.

Adjusting the Settings

Image

[Brightness]	Adjust brightness by clicking [+] or [-]. Click [Reset] to return the default value 0.
	(See p.39 on the Projector User's manual)
[Contrast]	Adjust contrast by clicking [+] or [-]. Click [Reset]
	to return the default value 0.
[Sharpness]	Adjust sharpness by clicking [+] or [-]. Click [Reset]
	to return the default value 0.
[Picture mode]	Select a picture mode from the drop down list.

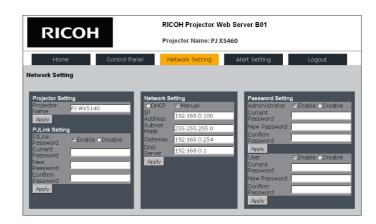
Audio

[Volume]	Adjust volume by clicking [+] or [-]. Click [Reset]
	to return the default value 5

Management

	Select power off timer value after no signal is detected from the drop down list.
	Select lamp power from the drop down list.
[Aspect]	Select aspect ratio from the drop down list.

Network Settings





This projector name is also used in PJLink control. Up to 32 alphanumeric characters and symbols are accepted.



- Up to 32 alphanumeric characters and symbols are accepted for a password.
- When entered the new password and the confirm password are not the same, an error message will be displayed. Re-enter passwords in this case.

Projector Setting

Projector name which is displayed in this web page can be changed.

Enter a new projector name in the box and clock [Apply] button.

PJLink setting

Settings of PJLink password can be changed in this section.

-Change the password.

Confirm "Enable" is checked in PJLink password.

Enter the current password in current password box.

Default password is "admin".

Enter a new password in both New Password box and Confirm Password box.

Click [Apply] button.

-Enable the password when disabled.

Check "Enable" in PJLink password.

Enter a new password in both New Password box and Confirm Password box

Click [Apply] button.

-Disable the password when enabled.

Check "Disable" in PJLink password.

Enter the current password in current password box.

Click [Apply] button.

Network setting

Network settings such as IP address can be set in this section.

DHCP, IP address, and Default gateway can be also set OSD menu in the projector.

DNS Server address can be set only in this section. This is required when E-mail setting is set by domain names.

- -Check DHCP when network settings are provided by DHCP server in your network.
- -Check Manual when you want set network settings manually. And enter the settings to following boxes.

[IP Address], [Subnet mask], [Default gateway], [DNS server]

After settings are changed, click [Apply] button to apply new settings.

Password setting

Passwords setting for web pages can be changed in this section.

A password for "**Administrator**" and "**User**" can be set independently.

-Change the password.

Confirm "Enable" is checked in Administrator or User.

Enter the current password in current password box.

Enter a new password in both New Password box and Confirm Password box.

Click [Apply] button.

-Enable the password when disabled.

Check "Enable" in PJLink password.

Enter a new password in both New Password box and Confirm Password box.

Click [Apply] button.

-Disable the password when enabled.

Check "Disable" in Administrator or User.

Enter the current password in current password box.

Click [Apply] button.

Alert Setting



Alert setting

This projector can send E-mail when an error occurs in the projector.

-Email setting

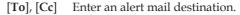
Enter Email settings in the boxes.





Note

- Up to 32 alphanumeric characters and symbols are accepted for a password.
- When entered the new password and the confirm password are not the same, an error message will be displayed. Re-enter passwords in this case.



Only one destination can be entered in each

destination.

[Subject] Enter subject of an alert mail.

[From] Enter a sender of an alert mail.

Click [Apply] to apply settings.

-SMTP Setting

Enter SMTP mail server address in the box.

Click [Apply] to apply settings.

-Alert Condition

Check alert mail conditions that you desire.

Fan Lock

An alert mail is sent when a cooling fan is stopped. The body of the mail is "Fan Lock:xxx.xxx.xxx.xxx*"

Over Temperature

An alert mail is sent when internal temperature is too high. The body of the mail is "Over Temperture:xxx.xxx.xxx.xxx*"

Lamp Hours Running Out

An alert mail is sent when lamp life is ending.

The body of the mail is "Lamp Hours Running out:xxx.xxx.xxx.xxx $xxx^{*"}$

Lamp Fail

An alert mail is sent when the projector fail to light the lamp. The body of the mail is "Lamp Fail:xxx.xxx.xxx.xxx*"

* "xxx.xxx.xxx" means IP address of the projector. (ex. 192.168.0.100)

-Email test

Test Email is sent when click [Email Test].



Be sure Email setting and SMTP setting are correct. Email test is recommended after alert setting is set.

Since no error will be reported even if any error is occurred in sending a test mail.

Check if the test mail is arrived to destination mail box.

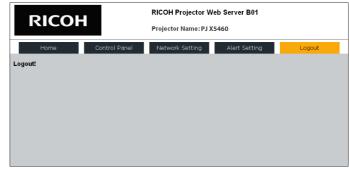
The body of the mail is "Email Test:xxx.xxx.xxx.xxx"

* "xxx.xxx.xxx" means IP address of the projector. (ex. 192.168.0.100)

Logout

Click Logout tab to logout from this projector control web site.

This page will appear for 2 seconds and then jump to login page.





- Be sure Email settings and SMTP settings are correct.
- Email test is recommended after alert setting is set.
- Always set "Control method" to "LAN" in OSD menu in the projector to detect the error.
- Default value of Email setting is a sample setting as followings.

[To] user@mailserver.com [Cc] cc@mailserver.com [Subject] Project alert [From] alert@mailserver.com

 Only SMTP protocol is supported.

Control the Projector via the Projector Management Utility

Projector Management Utility conforms to the PJLink class 1 standards, and is compatible with all class 1 commands.

A maximum of 100 projectors connected to the network can be managed using one computer.

Projector Management Utility operating environment is described below.

- Supported operating system
 - Windows Vista (32-bit/64bit version) Ultimate, Business, Home Premium, Home Basic
 - Windows 7 (32-bit/64bit version) Home Premium, Professional, Ultimate, Enterprise
 - Windows 8 (32-bit/64bit version) Pro, Enterprise
 - Windows 8.1 (32-bit/64bit version) Pro, Enterprise
 - Windows Server 2008 SP2 (32-bit/64bit version)
 - Windows Server 2008 R2 Standard SP1 (64bit version)
- Memory size

Recommended memory size for the operating system of the computer you are using

 Display resolution 800 × 600 pixels or more

Installing Projector Management Utility

Projector Management Utility is included on the supplied CD-ROM.

Log in to the computer with administrator privileges to install or uninstall utilities.

- 1. Close all applications.
- 2. Insert the CD-ROM in the CD-ROM drive of your computer, and then click [X] to close the user's manual window.
- 3. Right click the CD-ROM icon and select OPEN.
- Open "Projector Management Utility" folder stored on the CD-ROM.

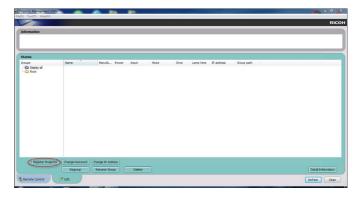
Note

This software is to control and monitor projectors manufactured by our company. The software may not work properly when used to control other projectors.

- 5. Double-click "setup.exe" stored in the "Projector Management Utility" folder.
- 6. Install the application by following the on-screen instruction.
- 7. When the installation is complete, exit the installer.
- A shortcut icon is created on the desktop.

Register projectors

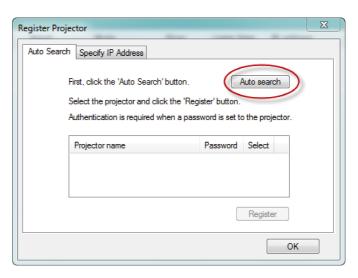
- 1. Registers the projectors with Auto search
 - -Click [Register Projector] button.



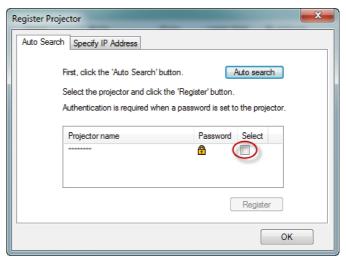
-Click [Auto Search] button.



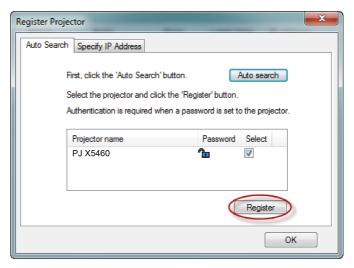
* To uninstall
Projector
Management
Utility, use the
program delete
function in
Control Panel to
delete "Projector
Management
Utility".



-List of projectors which support PJLink are displayed in the window. Projector name is displayed as "*******" until authorization if password is enable.



-Select the desired projector and click [**Register**] button. Password authorization is required if password of the projector is set to enable.



- -Click $\left[OK\right]$ button to return to the original screen.
- 2. Directly specifies the IP address and registers the projector.
- -Enter IP address of the desired projector and click [Confirm] button then the projector name will be displayed. After confirming the projector name, click [Register] button.

Control the projector with the projector Management <u>Utility</u>

Click [Remote Control] tab and select the desired projector in the list. You can control the selected projector by clicking control buttons in the bottom of the window.

[Power] button

Turn "On/Off" the power of the projectors or groups selected from the Projector (/Group) List.



[Input] button

Switches the input source of the projectors or groups selected from the Projector (/Group) List.

Input source will not be changed if the projector doesn't support the selected input source.



A Table of input source name in the projector and the projector management utility.

[PJ X5460][PJ WX5460]

The projector	The projector Management Utility
Computer 1	RGB 1
Computer 2	RGB 2
Video	Video 1
S-Video	Video 2
HDMI	Digital 1

[Mute] button

Turn "On/Off" the muting of the projectors or groups selected from the Projector (/Group) List. The projector only supports Video & Audio mute.



[Detail Information] button

Show detail information of the selected projector.

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. Refer to the "Replacing the lamp" section section for more information.
- 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.
- ▶ 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:
 - First, follow the steps above to adjust resolution of the computer.
 - 2. Press the toggle output settings. For 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 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 "H. Position" or "V. Position" section for more information.
- 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. (refer to pages 39~41)

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

Change the aspect ratio by pressing the "Aspect" button on the remote control or select "Screen > Aspect Ratio" from the 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 the "Aspect" button on the remote control or press the "Menu" button on the projector panel, go to "Screen > Aspect Ratio" and try the different settings.

Problem: Image is reversed

▶ Select "Screen > Projection Mode" from the OSD menu to adjust the image.

Problem: Lamp burns out or makes a popping sound

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

Problem: Indicator lighting message

Message	POWER indicator	TEMP indicator	LAMP indicator
	(Red/Blue)	(Red)	(Red)
Standby (Input power cord)	- ₩ - (Red)	Ø	Ø
Normal (Power on)	(Blue)	Ø	\boxtimes
Powering up (Warming up)	Flashing Blue (0.5 sec)	Ø	\boxtimes
Power off (Cooling Down)	Flashing Red (0.5 sec)	Ø	Ø
Temperature Error (Over temperature On Event)	-) (Blue)	*	Ø
Temperature Error (Over temperature On Standby)	- ₩ - (Red)	*	\boxtimes
Lamp Error (Lamp failed On Event)	(Blue)	Ø	*
Lamp Error (Lamp failed On Standby)	-\(\frac{1}{}\)(Red)	Ø	*
Fan Error (Fan failed On Event)	(Blue)	Flashing (0.5 sec)	\boxtimes
Fan Error (Fan failed On Standby)	-\-(Red)	Flashing (0.5 sec)	\boxtimes
Error (Color Wheel fail / Striking Lamp Fail On Event)	(Blue)	Ø	Flashing (0.5 sec)
Error (Color Wheel fail / Striking Lamp Fail On Standby)	- ₩ - (Red)	Ø	Flashing (0.5 sec)



Steady light => IIII No light => IIII

Problem: Message Reminders

▶ Temperature Error - the projector is overheat inside. Check the environmental condition.



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



Fan Error - the cooling system fan is not working.



▶ Replacing the filter - the filter is about to reach its maximum usage time. Clean or replace the filter soon.

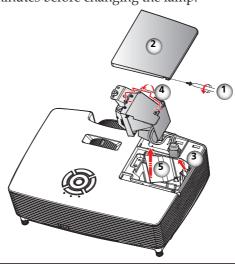


Replacing the lamp

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



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



Warning: 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 14 for PJ WX2240/X2240/S2240.

Warning: For continued safety replace with PJ Replacement Lamp Type 16 for PJ WX5460/X5460/ HD5450.

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:

- Switch off the power to the projector by pressing the "Φ" button.
- 2. Allow the projector to cool down at least 60 minutes.
- 3. Disconnect the power cord.
- 4. Remove the screw on the lamp cover. •
- 5. Slide the lamp cover to the side and remove the cover. 2
- 6. Pull out the lamp connector. 3
- 7. Lift up the lamp handle. 4
- 8. Carefully remove the lamp module. **9**
- 9. 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 - P	C Signal		
Modes	Resolution	V.Frequency (Hz)	H.Frequency (kHz)
	640 x 480	60	31.47
1101	640 x 480	72	37.86
VGA	640 x 480	75	37.5
	640 x 480	85	43.27
	800 x 600	56	35.2
	800 x 600	60	37.88
SVGA	800 x 600	72	48.08
	800 x 600	75	46.88
	800 x 600	85	53.67
	1024 x 768	60	48.36
	1024 x 768	70	56.48
XGA	1024 x 768	75	60.02
	1024 x 768	85	68.67
	1152 x 864	70	63.8
	1152 x 864	75	67.5
	1152 x 864	85	77.1
SXGA	1280 x 1024	60	63.98
	1280 x 1024	72	77.9
	1280 x 1024	75	79.98
	1280 x 1024	85	91.15
0. 11/04	1280 x 960	60	60
Quad VGA	1280 x 960	75	75
SXGA+	1400 x 1050	60	65.32
UXGA	1600 x 1200	60	75
	640 x 480	60	31.5
	640 x 480	66.6(67)	35
Parisan Parals C4	800 x 600	60	37.88
PowerBook G4	1024 x 768	60	48.36
	1152 x 870	75	68.68
	1280 x 960	75	75.2
i Mac DV(G3)	1024 x 768	75	60.3

A. VGA Analog			
(2) VGA Analog -	Extended Wide Timing		
Modes	Resolution	V.Frequency (Hz)	H.Frequency (kHz)
WSVGA	1024 x 600	60	37.3
	1280 x 768	60	47.78
	1280 x 768	75	60.29
WXGA	1280 x 768	85	68.63
WXGA	1280 x 720	60	44.8
	1280 x 800	60	49.6
	1366 x 768	60	47.71
WXGA+	1440 x 900	60	55.9
WSXGA	1680 x 1050	60	65.3
TATELY CA	1920 x 1080-RB	60	66.6
WUXGA	1920 x 1080-EIA	60	67.5
(3) VGA Analog -	- Component Signal		
480i	720 x 480	59.94(29.97)	27
480p	720 x 480	59.94	31.47
576i	720 x 576	50(25)	27
576p	720 x 576	50	31.25
720p	1280 x 720	60	45
720p	1280 x 720	50	37.5
1080i	1920 x 1080	60(30)	33.75
1080i	1920 x 1080	50(25)	33.75
1080p	1920 x 1080	60	67.5
1080p	1920 x 1080	50	56.25

Note
(*1) is not available on RICOH PJ TS100.

B. HDMI			
(1) HDMI - PC Sig	gnal		
Modes	Resolution	V.Frequency (Hz)	H.Frequency (kHz)
	640 x 480	60	31.47
VGA	640 x 480	72	37.86
VGA	640 x 480	75	37.5
	640 x 480	85	43.27
	800 x 600	56	35.2
	800 x 600	60	37.88
SVGA	800 x 600	72	48.08
	800 x 600	75	46.88
	800 x 600	85	53.67



(*1) is not available on RICOH PJ TS100.

B. HDMI						
(1) HDMI - PC Signal						
Modes	Resolution	V.Frequency (Hz)	H.Frequency (kHz)			
	1024 x 768	60	48.36			
XGA	1024 x 768	70	56.48			
AGA	1024 x 768	75	60.02			
	1024 x 768	85	68.67			
	1152 x 864	70	63.8			
	1152 x 864	75	67.5			
	1152 x 864	85	77.1			
SXGA	1280 x 1024	60	63.98			
	1280 x 1024	72	77.9			
	1280 x 1024	75	79.98			
	1280 x 1024	85	91.15			
0 11101	1280 x 960	60	60			
Quad VGA	1280 x 960	75	75			
SXGA+	1400 x 1050	60	65.32			
UXGA	1600 x 1200	60	75			
	640 x 480	60	31.5			
	640 x 480	66.6 (67)	35			
	800 x 600	60	37.88			
PowerBook G4	1024 x 768	60	48.36			
	1152 x 870	75	68.68			
	1280 x 960	75	75.2			
i Mac DV(G3)	1024 x 768	75	60.3			
(2) HDMI - Extend	ded Wide Timing		<u>'</u>			
WSVGA	1024 x 600	60	37.3			
	1280 x 768	60	47.78			
	1280 x 768	75	60.29			
	1280 x 768	85	68.63			
WXGA	1280 x 720	60	44.8			
	1280 x 800	60	49.6			
	1366 x 768	60	47.71			
WXGA+	1440 x 900	60	55.9			
WSXGA	1680 x 1050	60	65.3			
	1920 x 1080-RB	60	66.6			
WUXGA	1920 x 1080-EIA	60	67.5			
	1920 x 1200-RB	59.95	74.04			

Note

(*1) is not available on RICOH PJ TS100.

B. HDMI			
(3) HDMI - Video	Signal		
Modes	Resolution	V.Frequency (Hz)	H.Frequency (kHz)
480i	720 x 480	59.94 (29.97)	27
480p	720 x 480	59.94	31.47
576i	720 x 576	50 (25)	27
576p	720 x 576	50	31.25
720p	1280 x 720	60	45
720p	1280 x 720	50	37.5
1080i	1920 x 1080	60 (30)	33.75
1080i	1920 x 1080	50 (25)	33.75
1080p	1920 x 1080	60	67.5
1080p	1920 x 1080	50	56.25
1080p	1920 x 1080	23.97/24	27

C. 3D Timing							
		Input timing					
		1280 x 720P @ 50Hz	Top - and - Bottom				
l	HDMI 3D	1280 x 720P @ 60Hz	Top - and - Bott	om			
l	Input	1280 x 720P @ 50Hz	Frame packing				
l	(with 3D	1280 x 720P @ 60Hz	Frame packing				
	Info Frame	1920 x 1080i @ 50Hz	Side- by-Side (F	Half)			
	information)	1920 x 1080i @ 60Hz	Side- by-Side (F	Half)			
		1920 x 1080P @ 24Hz	Top - and - Bot	tom			
		1920 x 1080P @ 24Hz	Frame packing				
l		1920 x 1080i @ 50Hz	Side-by-Side (Half)	SBS mode is on			
	HDMI 3D Input (without 3D Info Frame information)	1920 x 1080i @ 60Hz					
Input		1280 x 720P @ 50Hz					
Resolutions		1280 x 720P @ 60Hz					
		1920 x 1080i @ 50Hz					
l		1920 x 1080i @ 60Hz	Top-and-	TAB mode is on			
		1280 x 720P @ 50Hz	Bottom				
		1280 x 720P @ 60Hz					
		480i	НС	is on			
		800 x 600 @ 60Hz	SBS or	TAR			
	VGA (PC)	1024 x 768 @ 60Hz	363 0	TAB			
	VGA (I C)	800 x 600 @ 120Hz	Frame Se	auontial			
		1024 x 768 @ 120Hz	Trante se	quentiai			
	Composite	NTSC	HÇ	PFS			
	S-Video	NTSC	HQFS				

Configurations of Terminals

Terminal: Computer In 1/2 (Mini D-sub 15 pin) [Monitor Out]



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.)	12	Horiz. sync. Input [Output]
6	Ground (Red)	13	(Composite H/V sync. Input)
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)





 Contact your dealer for control cable and commands.

	1	NC*	6	NC*
1	2	TXD (Sending Data)	7	NC*
	3	RXD (Receiving Data)	8	NC*
	4	NC*	9	NC*
	5	GND		* Do not connect anything.

Specifications

■ List of general specifications

	Model Name		
Item	PJ S2240 PJ TS100	PJ X2240	PJ WX2240
DLP chip	0.55" SVGA	0.55" XGA	0.65" WXGA
Lamp Type		190W	
Projection Lens	Manua	al Zoom (1.1x) and Manua	l Focus
Projection Distance (Focus range)	1.2~	12m	1~10m
Throw Ratio (distance/width)	1.95	~ 2.15	1.55~1.7
Dimension (WxDxH)	314.2(W) x	223.5(D) x 88.2(H) mm (w	rithout feet)
Difficusion (WXDXII)	314.2(W)	x 223.5(D) x 101.7(H) mm	(with feet)
Weight		approx. 2.6 kg	
I/O Terminal	Computer in S-Video Video Service PC Control (9 pins) HDMI	Computer 1 In Computer 2 In PC Control (9 pins) S-video Video Audio 1 In	Audio 2 InAudio OutServiceHDMIMonitor Out
Speaker	Not Available	2'	W
Lamp life		Normal: 4500 hours ECO: 6000 hours	
Noise Level (Typ.)		Full: 34dB(A) ECO: 31dB(A)	
Standby Power (Monitor Out Off)	0.5W or less		
Environment	 Operational Temperatures: 41° to 104°F (5° to 40°C); 20% to 80% humidity (non-condensing) Storage Temperatures: -4° to 140°F (-20° to 60°C); 20% to 80% humidity (non-condensing) 		
Power Consumption	Eco Mode: Typ. 204W, max. 224W @ 110Vac Typ. 196W, max. 216W @ 220Vac Full Mode: Typ. 243W, max. 267W @ 110Vac Typ. 232W, max. 255W @ 220Vac		

Note

- (*)S-Video, Video, and HDMI are not available for RICOH PJ TS100.
- 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 14

74		Model Name	
Item	PJ X5460	PJ WX5460	PJ HD5450
DLP chip	0.55" XGA	0.65" WXGA	0.65" 1080P
Lamp Type		260W	
Projection Lens	Manual Zoom (1.1x)	and Manual Focus	Manual Zoom(1.2x) and Manual Focus
Projection Distance (Focus range)	1.2~12m	1~10m	1.5~10m
Throw Ratio (distance/width)	1.95 ~ 2.15	1.55~1.7	1.5~1.8
Dimension (WxDxH)	314.2(W) x	223.5(D) x 88.2(H) mm (wi	ithout feet)
(,	314.2(W) >	(223.5(D) x 101.7(H) mm (with feet)
Weight		approx. 3.0 kg	
I/O Terminal	Computer 1 In Computer 2 In PC Control (9 pins) S-video Video Audio 1 In	 Audio 2 In Audio Out Service HDMI Monitor Out LAN 	Computer In PC Control (9 pins) S-video Video Audio in Audio Out Service HDMI 1 HDMI 2 LAN
Speaker	10W / 8 ohm		
Lamp life		Normal: 3000 hours ECO: 4000 hours	
Noise Level (Typ.)		Full: 37dB(A) ECO: 34dB(A)	
Standby Power (Monitor Out Off)		0.5W or less	
Environment	 Operational Temperatures: 41° to 104°F (5° to 40°C); max. 80% humidity (non-condensing) Storage Temperatures: -4° to 140°F (-20° to 60°C); max. 80% humidity (non-condensing) 		
Power Consumption	Eco Mode: Typ. 280W, max. 308W @110Vac		

Note

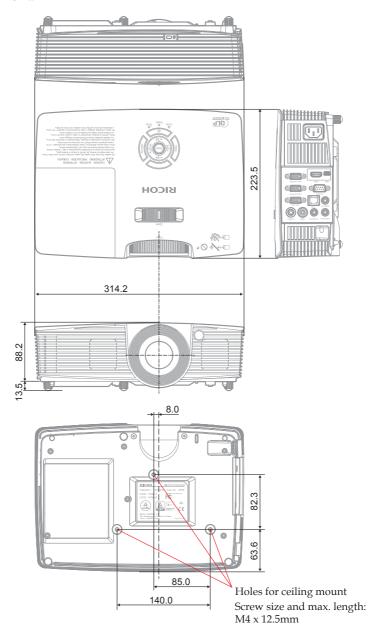
- This model complies with the above specifications.
- Designs and specifications are subject to change without notice.
- This model may not be compatible with features and/or specifications that may be added in the future.

■ Separately sold product PJ Replacement Lamp Type 16



Cabinet Dimensions

Unit: mm



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