



User's Manual

1. Usage Notice

2. Introduction

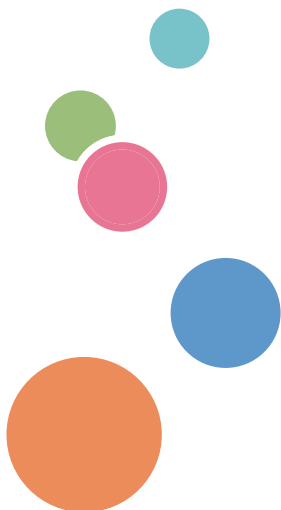
3. Basic Operations

4. User Settings

5. LAN Control

6. Troubleshooting

7. 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.



Table of Contents

Table of Contents	1	<i>OPTIONS</i>	56
Usage Notice	2	<i>3D</i>	61
<i>Precautions</i>	2	LAN Control	63
<i>Safety Labels of This Machine</i>	11	<i>Controlling this Device with Web</i>	
<i>Regulation & Safety Notices</i>	13	<i>Browser</i>	63
<i>Other Information</i>	18	<i>Connecting to the device</i>	63
Introduction	19	<i>Log in</i>	64
<i>Product Features</i>	19	<i>System Status</i>	65
<i>Package Overview</i>	20	<i>General Setup</i>	66
<i>Product Overview</i>	21	<i>Projector Control</i>	67
<i>Connection Ports</i>	22	<i>Network Setup</i>	70
<i>Control Panel</i>	23	<i>Alert Setup</i>	71
<i>Remote Control</i>	25	<i>Crestron</i>	73
<i>Remote Control Battery Installation</i>	27	<i>Crestron Tools</i>	74
<i>Remote Control Operating Range</i>	28	<i>Crestron Info</i>	74
<i>Installing the Projector</i>	29	<i>Contacting the IT administrator of Crestron</i> ..	75
Basic Operations	30	<i>Reset to Default</i>	75
<i>Connecting the Projector</i>	30	<i>Reboot System</i>	76
<i>Connect to Computer/Notebook</i>	30	<i>Control the Projector via the Projector</i>	
<i>Connect to AV Equipment</i>	31	<i>Management Utility</i>	77
<i>Powering On/Off the Projector</i>	32	<i>Installing Projector Management Utility</i> ..	78
<i>Powering On the Projector</i>	32	<i>Control the projector with the projector</i>	
<i>Powering Off the Projector</i>	33	<i>Management Utility</i>	81
<i>Warning Indicator</i>	34	Troubleshooting	83
<i>Adjusting the Projected Image</i>	35	Appendices	87
<i>Adjusting the Position of Projector Image</i> ..	35	<i>List of Compatible Signals</i>	87
<i>Adjusting the Projector Focus</i>	36	<i>Configurations of Terminals</i>	93
<i>Adjusting Lens Shift</i>	37	<i>Terminal: Computer In (Mini D-sub</i>	
<i>Adjusting Projection Image Size</i>	38	<i>15 pin) [Monitor Out]</i>	93
User Settings	40	<i>Terminal: PC Control (D-sub 9 pin)</i>	93
<i>Using the On Screen Display (OSD)</i> ..	40	<i>12V Trigger</i>	94
<i>How to operate</i>	40	<i>Wired Remote</i>	94
<i>PICTURE</i>	41	<i>Specifications</i>	95
<i>SCREEN</i>	45	<i>Cabinet Dimensions</i>	96
<i>SETTINGS</i>	50	<i>Trademarks</i>	97
<i>AUDIO</i>	55		

Usage Notice

Precautions



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

- Warning- **Indicates a potentially hazardous situation which, if instructions are not followed, could result in death or serious injury.**

- Caution- **Indicates a potentially hazardous situation which, if instructions are not followed, may result in minor or moderate injury or damage to property.**

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

Usage Notice

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

Usage Notice

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

Usage Notice

f) For sales or service representatives:

- Use brackets that are strong enough to support the projector. WXL5670/ WUL5670 Series weights less than 11.4kg.

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

- Caution- Keep the machine away from humidity and dust. Otherwise a fire or an electric shock might occur.
- Caution- Do not place any objects on the machine. Doing so may cause the machine to topple over, possibly resulting in injury.
- Caution- Do not place the machine on an unstable or tilted surface. If it topples over, an injury might occur.
- Caution- Do not place the machine or use it in an environment where it might get wet such as from snow, rain, or being near water. Doing so could result in fire or electric shock.
- Caution- Do not put your face or hand near the exhaust vents. Doing so could result in burns or an accident due to hot air coming from the exhaust vents.
- Caution- Do not use the machine on soft material such as paper or cloth that might get sucked into the intake vents. Doing so may cause heat buildup inside the machine, resulting in malfunction, burns, or fire.
- Caution- Do not place the machine in a location where air flow is poor. Doing so may cause fire due to internal components becoming overheated.
- Caution- Do not place or store the machine in a location where direct sunlight or heat generation might occur. The heat may deform or wear out the exterior parts or negatively affect internal parts. Doing so could result in fire.
- Caution- Do not place low heat resistant material near the exhaust vents. Hot air may come from the exhaust vents, resulting in damage to the machine or an accident.
- Caution- Do not obstruct the machine's vents. Doing so risks fire caused by overheated internal components.

Usage Notice

- Caution- Push the power plug all the way into the power outlet. Do not use a power outlet with a loose connection. Doing so may result in heat buildup. Plug the power cord in the correct direction into the base. If they are not plugged in correctly, it could result in smoke, fire, or electric shock.
- Caution- If this machine is not going to be used for several days or longer at a time, disconnect its power cord from the wall outlet.
- Caution- When disconnecting the power cord from the wall outlet, always pull the plug, not the cord. Pulling the cord can damage the power cord. Use of damaged power cords could result in fire or electric shock.
- Caution- Be sure to disconnect the plug from the wall outlet and clean the prongs and the area around the prongs at least once a year. Allowing dust to build up on the plug constitutes a fire hazard.
- Caution- When performing maintenance on the machine, always disconnect the power cord from the wall outlet.
- Caution- Do not place the power cord and connection cable in a way that might cause someone to trip and fall. The machine might fall over and cause an injury.
- Caution- The machine may be very hot after it is turned off, especially the vents and the lower part of the unit where the lamp is located. Avoid touching these areas. Doing so may result in burns.
- Caution- Do not place the machine on other equipment or vice versa. Doing so may cause heat buildup inside the machine or cause the other equipment to malfunction.
- Caution- Do not increase the volume unless you are listening while increasing the volume. Also, lower the volume before turning off the power, because a loud sound may be emitted when the power is turned on and cause hearing damage.
- Caution- If the machine's interior is not cleaned regularly, dust will accumulate. Fire and breakdown can result from heavy accumulation of dust inside this machine. Contact your sales or service representative for details about and charges for cleaning the machine's interior.

Usage Notice

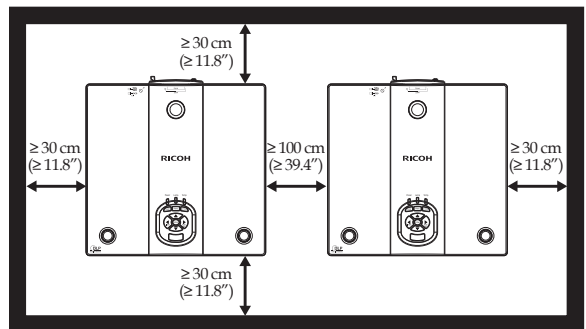
- Caution- Unplug the power cord from the wall outlet before you move the machine. While moving the machine, take care that the power cord is not damaged under the machine. Failing to take these precautions could result in fire or electric shock.
- Caution- Do not use attachments not recommended by RICOH. Use of an incompatible attachments could cause hazards or damage to the product.
- Caution- Unplug this product from the wall outlet and take the product to qualified service personnel if you encounter any of the following conditions:
 - a) The power supply cord or plug is damaged.
 - b) Liquid has been spilled, or objects have fallen into the product.
 - c) The product has been exposed to rain or water.
 - d) The product does not operate normally when following the operating instructions. Adjust only those controls that are covered by the operating instructions.
 - e) The product has been dropped or damaged in any way. (If the cabinet should break, please handle with care to avoid injury.)
- Caution- This product incorporates glass components, including a lens. If this 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.
- Caution- Do not place anything in front of the lens while the projector is operating. Things placed in front of the lens may overheat and burn or start a fire.
- Caution- Unauthorized substitutions may result in fire, electric shock, or other hazards. (Only the replacement of the lamp should be made by users.)

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to verify that the product is in proper operating condition.
- Caution- Do not use the product in a closed installation location. Do not place the product in a box or in any other closed installation location. Otherwise it may overheat, which could result in a risk of fire.

Usage Notice

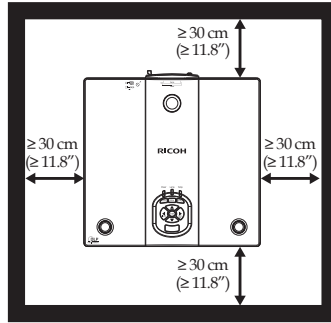
ABOUT THE LASER LIGHT SOURCE

- Warning- Do not look into the lens or vent when the product is on. The bright light may damage your eyes. Be especially careful in an environment with children.
- Caution- This projector has built-in laser module. Possibly hazardous optical radiation emitted from this product. Do not stare into the beam. May be harmful to the eyes.
- Caution- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- Caution- Do not block the projection light when it is on. If you do so, the part that is blocking the projection light may get quite hot and deform, deteriorate or cause a burn or fire. The reflected light may make the lens hot and cause a product failure. To temporarily suspend projection, select the mute function. To suspend longer, turn off the product.
- Caution- Leave 100 cm or over space between the projectors when projectors are installed side by side, so that intake and exhaust vents of the projectors are not obstructed.

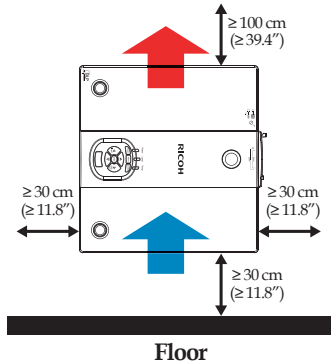


- Caution- For 360° installation, install the projector more than 30 cm away from the wall or the floor. When the air intake and discharge outlet are obstructed, the temperature inside the projector will rise and this may result in a malfunction.

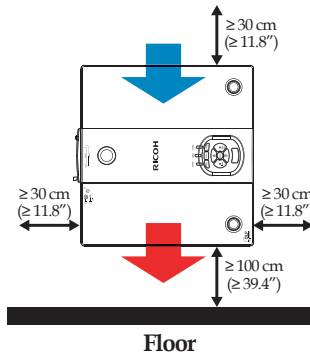
Usage Notice



- **Caution-** When installing the projector on the right side (preferred), leave a space of at least 30 cm between the intake vent and the floor and a space of at least 100 cm for the exhaust vent.



- **Caution-** When installing the projector on the left side, leave a space of at least 100 cm between the exhaust vent and the floor and a space of at least 30 cm for the intake vent.



- **Caution-** Do not pile up more than 3 projectors.

REMOTE CONTROL BATTERY

Warning

- Never throw batteries into a fire.

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

- Keep new and used batteries away from children.

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

Notes

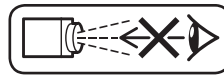
- Be sure to use AAA (R03) size batteries.
- Dispose of batteries in a designated disposal area.
- Attention should be drawn to the environmental aspects of battery disposal.
- If the remote control does not operate correctly, or if the operating range becomes reduced, replace the batteries.
- Avoid contact with water or liquid.
- Do not expose the remote control to moisture or heat.
- Do not drop the remote control.
- If the batteries have leaked in the remote control, carefully wipe the case clean and install new batteries.
- Dispose of used batteries according to the instructions.
- The remote control may fail to operate if the infrared remote sensor is exposed to bright sunlight or fluorescent lighting.

Important:

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

Safety Labels of This Machine

1. Do not look into the lens while the light source is on. The strong light from the light source may cause damage to your eyesight.
2. Do not place anything in front of the lens while the projector is operating. Things placed in front of the lens may overheat and burn or start a fire. If you want to temporarily stop the projected image, use the AV mute on the remote control or the keypad.
3. Do not remove any screws. Do not block or cover the vents.
4. Do not look into the lens. (For USA and Canada only).
- 5-1. Laser aperture warning: (For USA and Canada only).
 - RICOH PJ WXL5670: CLASS 3R LASER PRODUCT-AVOID DIRECT EYE EXPOSURE
 - RICOH PJ WUL5670: CLASS 2 LASER PRODUCT-AVOID DIRECT EYE EXPOSURE
 - Do not look into the light source light using optical instruments (such as magnifying glasses and mirrors). Visual impairment could result.
 - When turning on the projector, make sure no one within projection range is looking at the lens.



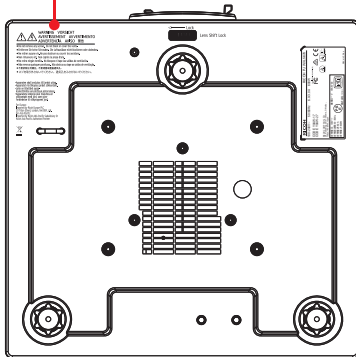
- Keep any items (magnifying glass etc.) out of the light path of the projector. The light path being projected from the lens is extensive, therefore any kind of abnormal objects that can redirect light coming out of the lens, can cause an unpredictable outcome such as a fire or injury to the eyes.
- 5-2. Laser aperture warning: (For other countries).
 - CLASS 1 LASER PRODUCT - RISK GROUP 2
 - Do not stare into the beam, maybe harmful to the eyes.

Usage Notice

3

WARNING VORSICHT
AVERTISSEMENT AVVERTIMENTO
ADVERTENCIA AVISO 警告

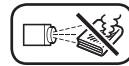
- Do not remove any screws. Do not block or cover the vents.
- Entfernen Sie keine Schrauben. Die Luftauslässe nicht blockieren oder abdecken.
- Ne retire aucun vis. Ne son obtureur ou couvrir les aérations.
- Non rimuovere viti. Non coprire le prese d'aria.
- No retire ningún tornillo. No bloquee ni tape las salidas de ventilación.
- Não remova quaisquer parafusos. Não obstrua ou tape as saídas de ventilação.
- 不要將零件拆掉。不要阻塞或覆蓋通風孔。
- ネジを取外さないでください。通風孔を塞ぎないでください。



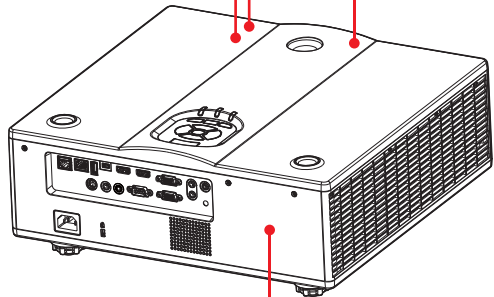
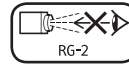
4

LASER APERTURE
DO NOT LOOK INTO THE LENS

2



1



5-1: WXL5670

LASER APERTURE
DO NOT LOOK INTO THE LENS

5-1: WUL5670

LASER APERTURE
DO NOT LOOK INTO THE LENS

5-2

LASER APERTURE
DO NOT LOOK INTO THE LENS

Usage Notice

Regulation & Safety Notices

This appendix lists the general notices of your Projector.

Notice: Users in the United States of America ***FCC notice***

MODEL NAME: RICOH PJ WXL5670/ WUL5670

TRADE NAME: PROJECTOR MODEL NAME: RICOH PJ WXL5670/ WUL5670 Tested To Comply With FCC Standards FOR HOME OR OFFICE USE
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This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference and
2. This device must accept any interference received, including interference that may cause undesired operation.

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

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

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

Usage Notice

RESPONSIBLE PARTY: Ricoh USA Inc.
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.

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.

Usage Notice

Declaration of Conformity for EU countries

- EMC Directive 2014/30/EC (including amendments)
- Low Voltage Directive 2014/35/EC

Notice: Users in EU countries

CE Marking Traceability Information (For EU Countries Only)

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

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

User Information on Electrical and Electronic Equipment

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

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



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

Usage Notice

The 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.

Laser Notice

<For USA and Canada>

- WXL5670: This Product is classified as Class 3R of IEC60825-1:2007 and also complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No.50, dated June 24, 2007.
- WUL5670: This Product is classified as Class 2 and complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No.50, dated June 24, 2007.

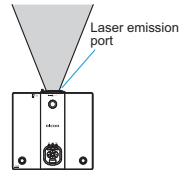
<For EU countries, Japan, and China>

- IEC 60825-1:2014: CLASS 1 LASER PRODUCT - RISK GROUP 2.

Usage Notice

Laser source specification

3.5W laser diode x38
Wavelength: 450-460 nm
Pulse duration: 1.39 ms



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 light-sensitive seizures, consult a doctor before viewing 3D images.

Product Features

Outstanding features include:

- Native resolution WXGA (1280x800), WUXGA (1920x1200)
- Maximum resolution HDMI 1920x1200 @ 60Hz
- Light weight <25.13 lbs (11.4 kg)
- Manual focus projection 1:1.8 zoom lens
- Built-in full screen NTSC / PAL / SECAM video capability with S-video / Composite / component through D-sub terminals
- WUXGA / 1080P / UXGA / WXGA / Quad VGA / SXGA+ / SXGA / XGA / SVGA / VGA / MAC compatibility
- User friendly multilingual on screen display
- Automatic image resizing to WXGA (1280x800), WUXGA (1920x1200) full screen
- The projector supports 360 degree free orientation operation (refer to page 29)

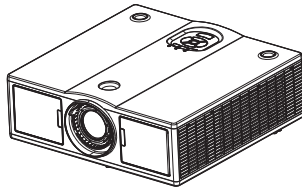
Introduction

Package Overview

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

Note

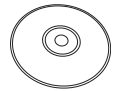
❖ Due to the difference in applications for each country, some regions may have different accessories.



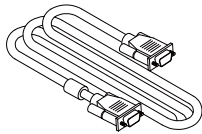
Projector



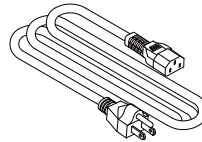
Remote Control
(with Batteries,
please see page
27)



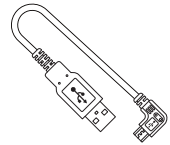
CD-ROM



RGB Cable



Power Cord



Micro USB to USB
Type A Cable
(for dongle power)

Documentation:

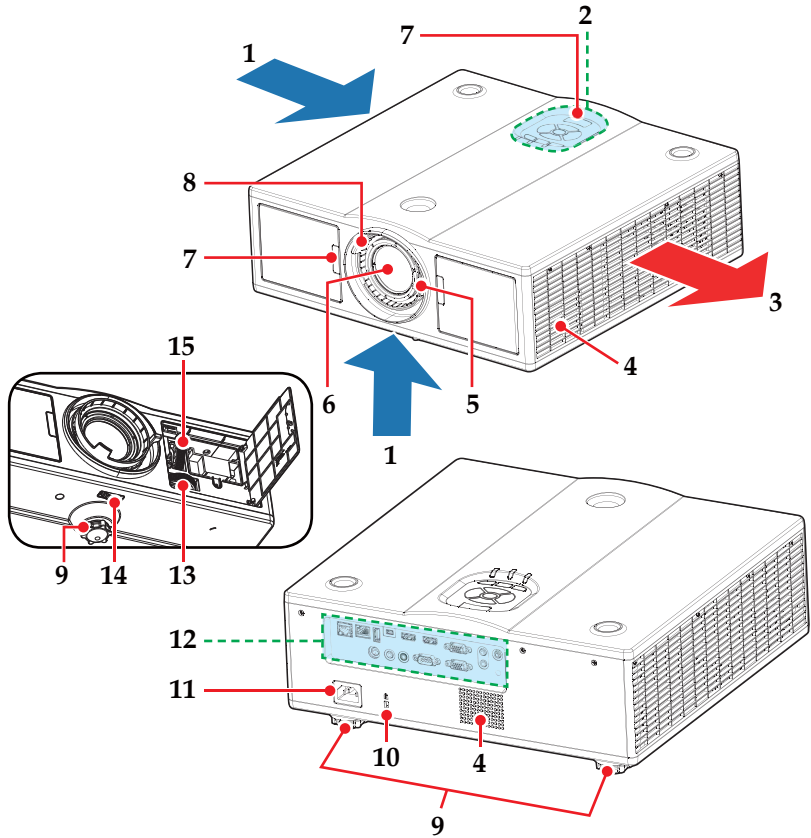
- Read This First
- Warranty Card

❖ About the CD-ROM

Contains an user's manual in PDF format and Projector Management Utility.

Support languages of User's Manual are English, Chinese, and Japanese.

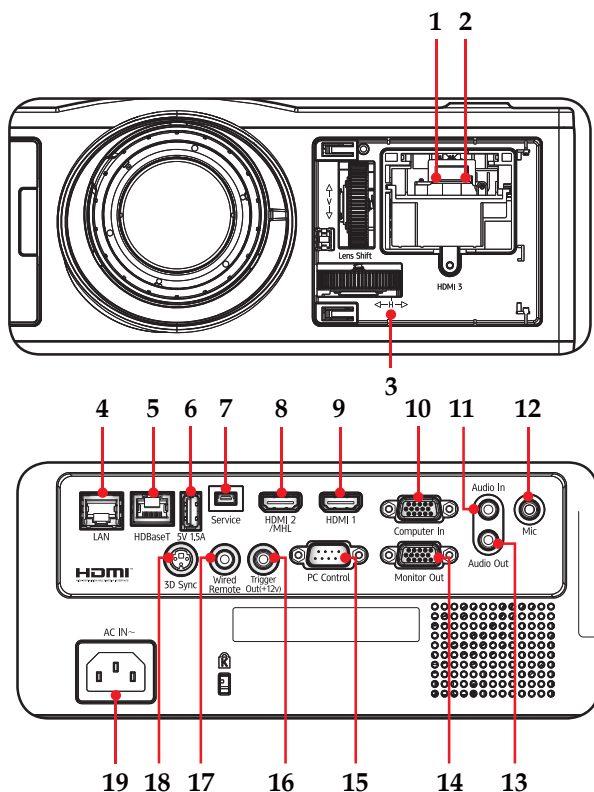
Product Overview



- | | |
|-------------------------|--|
| 1. Ventilation (inlet) | 9. Adjustable feet |
| 2. Control panel | 10. Anti-theft lock hole
(Kensington™ lock) |
| 3. Ventilation (outlet) | 11. AC In socket |
| 4. Speaker | 12. Connection ports |
| 5. Zoom lever | 13. Lens shift (horizontal) |
| 6. Lens | 14. Lens shift lock |
| 7. Remote receiver | 15. Lens shift (vertical) |
| 8. Focus lever | |

Introduction

Connection Ports



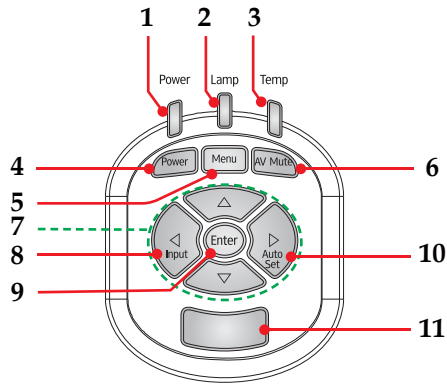
Note

❖ Compatible with MHL version 2.2, the charging current 5V@0.9A.

- | | |
|---|---------------------------|
| 1. HDMI3 In terminal (supports HDMI / MHL dongle) | 9. HDMI 1 In terminal |
| 2. 5V/1.5A terminal | 10. Computer In terminal |
| 3. Lens shift indicator | 11. Audio In terminal |
| 4. LAN terminal | 12. Microphone jack |
| 5. HDBaseT terminal | 13. Audio Out terminal |
| 6. 5V/1.5A terminal | 14. Monitor Out terminal |
| 7. Service terminal | 15. PC Control terminal |
| 8. HDMI 2/MHL In terminal | 16. Trigger Out (+12v) |
| | 17. Wired Remote terminal |
| | 18. 3D Sync terminal |
| | 19. AC In socket |

Introduction

Control Panel

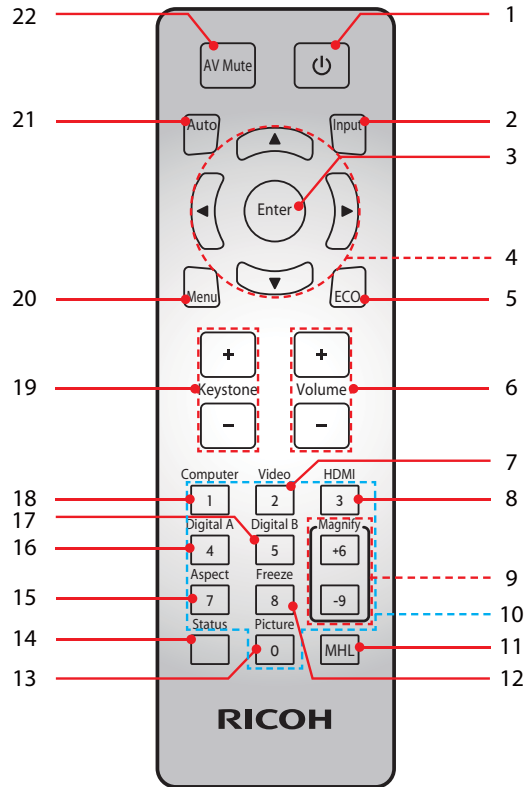


1	Power indicator	Indicate the projector's power status.
2	Lamp indicator	Indicate the projector's lamp status.
3	Temp indicator	Indicate the inside of the projector's temperature status.
4	Power	Refer to the "Power On/Off the Projector" section. (pages 32~33)
5	Menu	Press "Menu" to launch the on screen display (OSD), or go back to the previous menu. (See page 40)
6	AV Mute	Receives signals from the IR remote. Keep the signal path to the sensor unobstructed for uninterrupted communication with the projector.
7	Four Directional Select Keys	Use ▲, ▼, ◀, or ▶ to select items or make adjustments to your selection.
8	Input	Select an input for the main or PIP/PBP image.
9	Enter	Select or confirm settings.

Introduction

10	Auto Set	Automatically optimize image.
11	IR Receiver	Receives signals from the IR remote. Keep the signal path to the sensor unobstructed for uninterrupted communication with the projector.

Remote Control



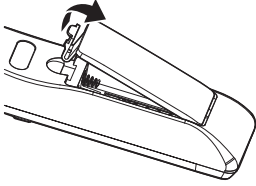
1	Power	Refer to the “Power On/Off the Projector” section. (See pages 32~33)
2	Input	Press “Input” to choose your desired input source.
3	Enter	Confirm your selection of items in sub menu operation.
4	Four Directional Select Keys	Use ▲, ▼, ◀, or ▶ to select items or make adjustments to your selection.

Introduction

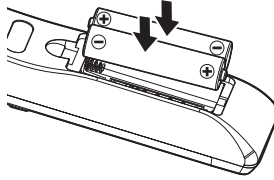
5	Eco	Dim the projector lamp which will lower power consumption and extend the lamp life.
6	Volume +/-	Increase or decrease speaker volume.
7	Video	This function is not supported.
8	HDMI	Press "HDMI" to choose signal from HDMI 1, HDMI 2, or HDMI 3 In terminal.
9	Magnify	Zoom in the projector display.
10	Number (0~9)	Input numbers.
11	MHL	Press "MHL" to control your MHL device.
12	Freeze	Pause the screen image. Press again to resume the screen image.
13	Picture	Select the preset picture mode.
14	Status	Display the projector status.
15	Aspect	Use this function to choose your desired aspect ratio.
16	Digital A	Press "Digital A" to choose a signal from HDBaseT In terminal.
17	Digital B	This function is not supported.
18	Computer	Press "Computer" to choose a signal from Computer In terminal.
19	Keystone +/-	Adjust the image to compensate for distortion caused by tilting the projector.
20	Menu	Press "Menu" to launch the On Screen Display (OSD), back to the top level of OSD for the OSD main menu operation. (See page 40)
21	Auto	Automatically synchronize the projector to the input source.
22	AV Mute	Momentarily turn off/on the audio and video.

Remote Control Battery Installation

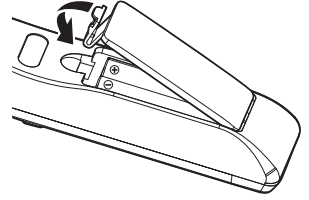
① Push the clip to release the battery cover.



② Install new batteries (AAA/R03). Ensure that you have the batteries' polarity (+/-) aligned correctly.



③ Close the battery cover and press it down until it clicks into place. Do not mix different types of batteries or new and old batteries.



To ensure safe operation, please observe the following precautions :

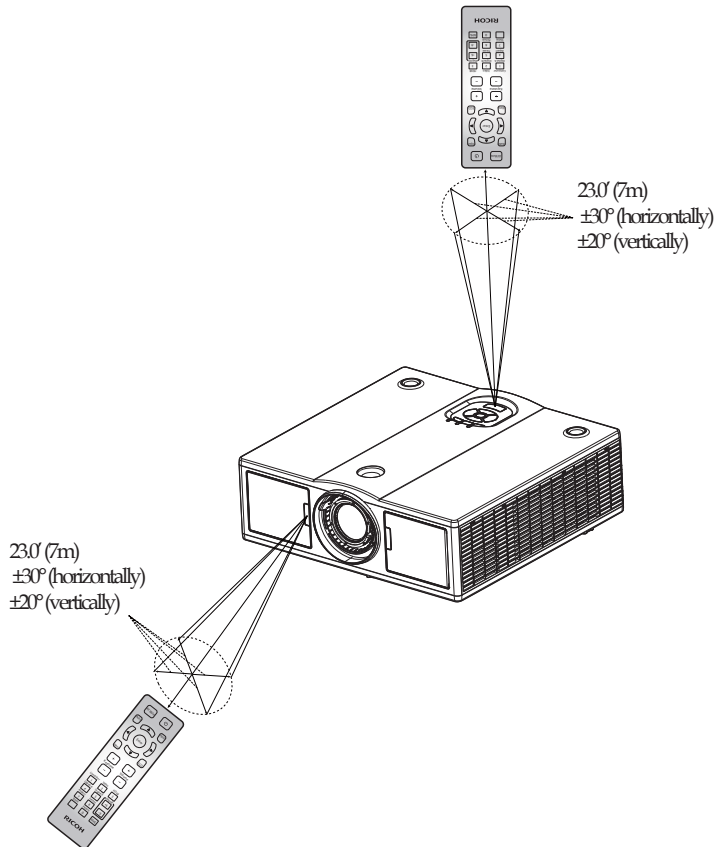
- Use AAA/R03 type battery.
- Avoid contact with water or liquid.
- Do not expose the remote control to moisture or heat.
- Do not drop the remote control.
- If the battery has leaked in the remote control, carefully wipe the case clean and install new battery.
- Risk of an explosion if battery is replaced by an incorrect type.
- Dispose of used battery according to the instructions.
- Remove batteries from remote control when not using for extended periods.
- The remote control may fail to operate if the infrared remote sensor is exposed to bright sunlight or fluorescent lighting.

Introduction

Remote Control Operating Range

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

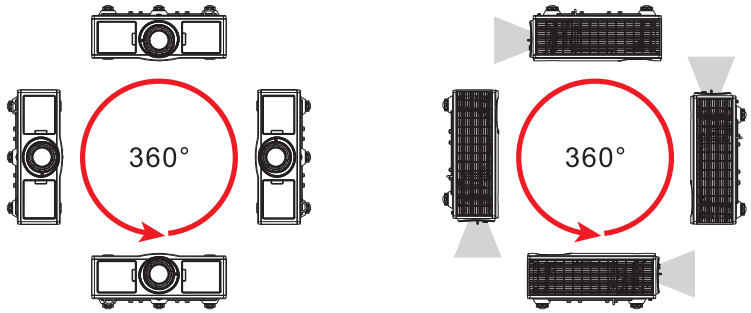
Maximum operating range for the remote control is about 23.0' (7m) and $\pm 30^\circ$ (horizontally), $\pm 20^\circ$ (vertically) in front of the projector.



Installing the Projector

When you select a position for the projector, consider the size and shape of your screen, the location of your power outlets, and the distance between the projector and the rest of your equipment. Follow these general guidelines:

- ❖ Position the projector on a flat surface at a right angle to the screen.
- ❖ Position the projector to the desired distance from the screen. The distance from the lens of the projector to the screen, the zoom setting, and the video format determine the size of the projected image.
- ❖ 360 degree free orientation operation:



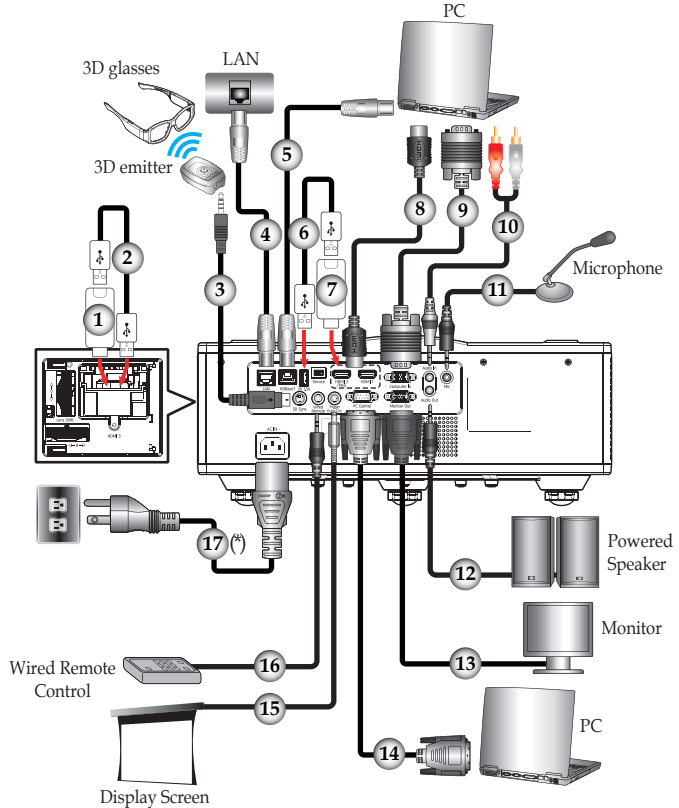
Basic Operations

Connecting the Projector

Connect to Computer/Notebook

Note

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



1.....HDMI dongle	10..... Audio cable
2.....USB cable	11.....Microphone cable
3.....3D emitter cable	12..... Audio cable
4.....LAN cable	13..... RGB cable
5.....LAN cable (Cat5 cable)	14..... RS-232 cable
6.....USB cable	15..... 12V DC jack
7.....HDMI dongle	16..... Wired Remote Control cable
8.....HDMI cable	17.....Power cord (supplied)
9.....RGB cable (supplied)	

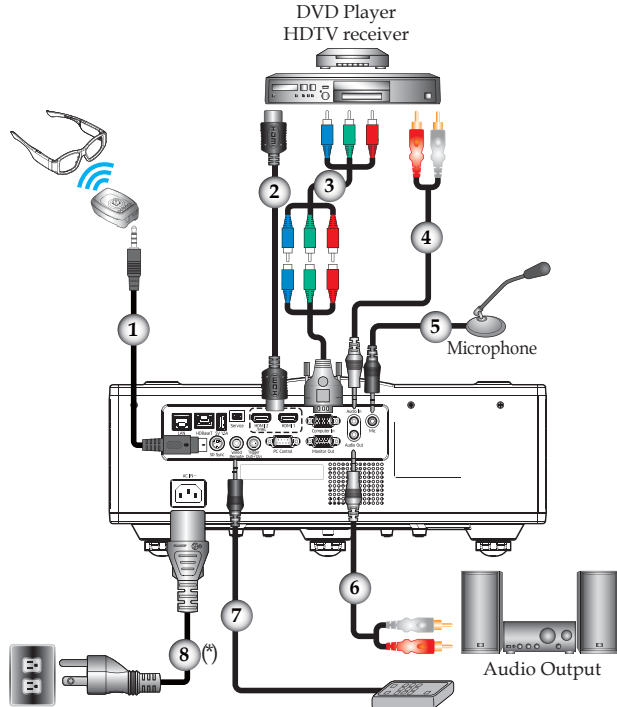
- ❖ To ensure the projector works well with your computer, please make sure the timing of the display mode is compatible with your projector. (See pages 87~77)
- ❖ Use the cables that come with the projector. (*)

Basic Operations

Connect to AV Equipment

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



- | | |
|--------|-----------------------|
| 1..... | 3D emitter cable |
| 2..... | HDMI cable |
| 3..... | Component-RGB cable |
| 4..... | Audio cable |
| 5..... | Microphone cable |
| 6..... | Audio cable |
| 7..... | Wired remote cable |
| 8..... | Power cord (supplied) |



Basic Operations

Powering On/Off the Projector

Powering On the Projector

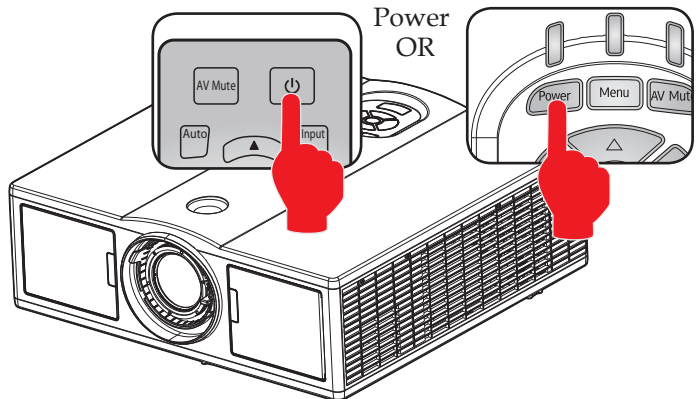
Note

- ❖ If you connect multiple sources at the same time, press "Input" on the control panel or the desired source button on the remote control to switch inputs.
- ❖ Turn on the projector first and then the signal sources.

1. Ensure that the power cord and signal cable are securely connected. The Power indicator will turn red.
2. Turn on the projector by pressing the  button on the control panel or the  button on the remote control. The Power indicator will flash red.
The startup screen will display and the Power indicator will turn blue.
3. 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:

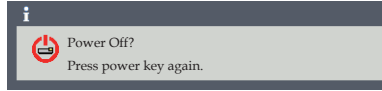
- Do not look into the lens while the laser is on. The strong light from the laser may cause damage to your eyesight.
- Do not block the air intake or exhaust. Doing so could cause a fire due to internal overheating.
- Do not place your hands, face, or other objects near the air exhaust, or the bottom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





Basic Operations

Powering Off the Projector

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



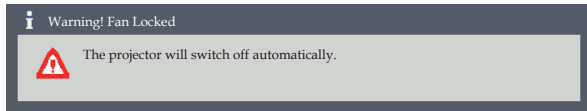
2. Press the  button to turn off the projector. If you do not press the  button again, the warning message will disappear after 10 seconds.
3. Disconnect the power cord from the electrical outlet and the projector.

Warning Indicator

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



- ❖ When the “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.



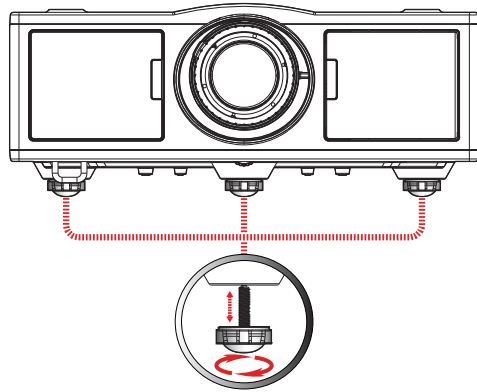
For more information of the warning indicator, please see page 86.

Adjusting the Projected Image

Adjusting the Position of Projector Image

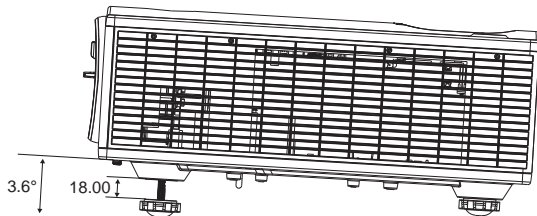
The projector is equipped with rear and front adjustable feet to raise and lower the image to fill the screen.

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.



Note

❖ The projector has one adjustable foot in the front and two adjustable feet on the rear. The maximum length of the feet is 18 mm. The tilt angle is -3.6° to $+3.6^{\circ}$.



Basic Operations

Adjusting the Projector Focus

You may turn the zoom lever to zoom in or out. To focus the image, turn the focus lever to left/right until the image is clear.

Focus Distances (lens to wall):

▶ WXGA (WXL5670):

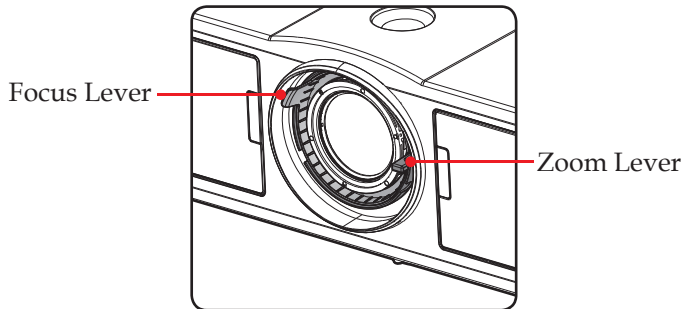
<Wide> from 8.86 to 26.57 feet (from 2.70 to 8.10 meters)

<Tele> from 4.59 to 31.5 feet (from 1.40 to 9.60 meters)

▶ WUXGA (WUL5670):

<Wide> from 8.53 to 25.26 feet (from 2.60 to 7.70 meters)

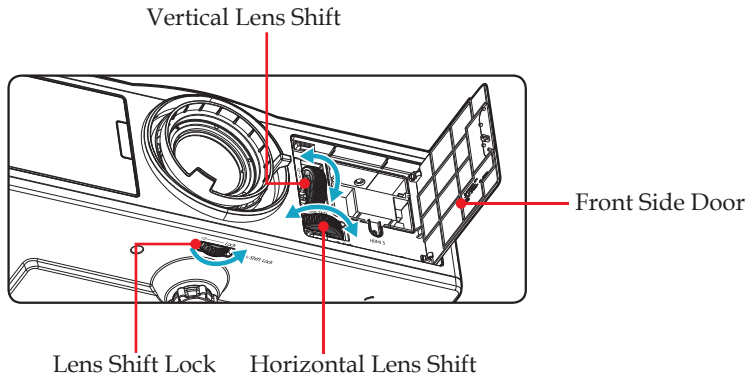
<Tele> from 5.58 to 30.18 feet (from 1.70 to 9.20 meters)



Adjusting Lens Shift

Do adjust lens shift, do the following:

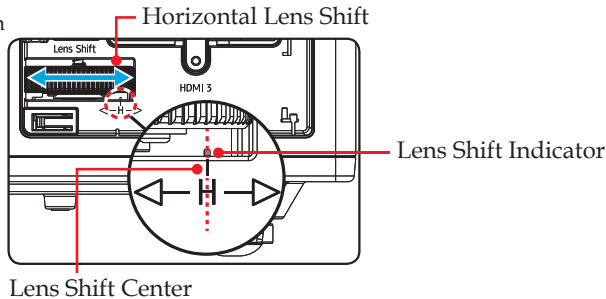
1. Open the front side door of the projector.
2. Unlock the lens lock, before adjusting the lens shift.
3. Turn the vertical/horizontal lens shift knob to shift the lens.
4. Turn the lens lock clockwise to lock the lens in place.
(Lens shift knob can still be rotated).
5. Close the front side door of the projector.



Adjusting Lens Shift to the Center

To adjust the lens to the central position, do the following:

1. Repeat steps 1 ~ 2 in Adjusting Lens Shift.
2. Turn the horizontal lens shift knob until the lens shift indicator is aligned with the lens shift center.



3. Repeat steps 4 ~ 5 in Adjusting Lens Shift.

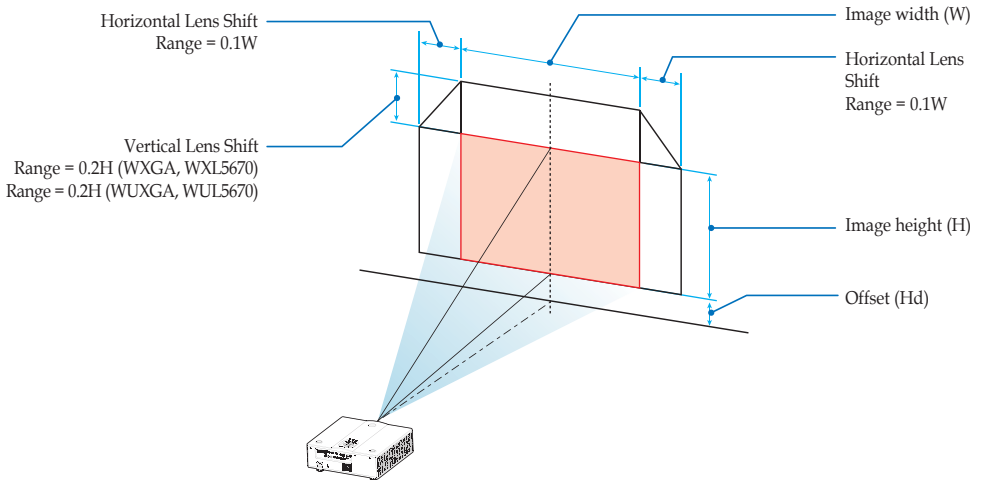
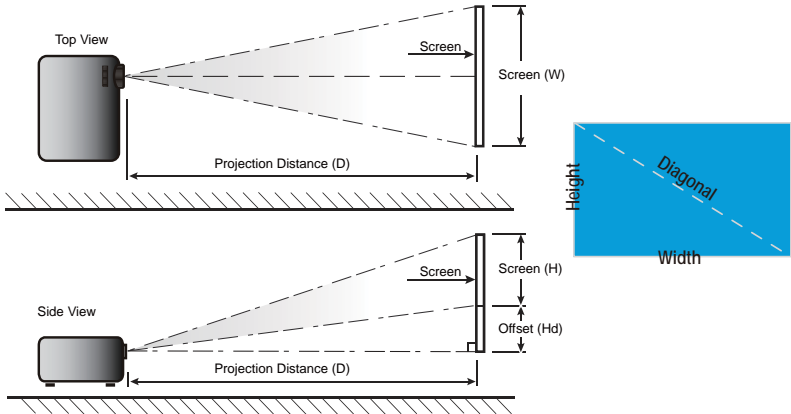
Note

❖ The stroke for the lens shift is designed to be regular triangle. When lens are adjusted to the central position horizontally(*), lens can be vertically shifted to the highest point.

Basic Operations

Adjusting Projection Image Size

- ▶ Projection Image Size (Diagonal) for:
 - WXGA (PJ WXL5670): 30" to 300" (0.76-7.6m).
 - WUXGA (PJ WUL5670): 30" to 300" (0.76-7.6m).



User Settings

WXGA (WXL5670)

Diagonal length (inch) size of 16:10 Screen	Screen Size W x H				Projection Distance (D)				Offset (Hd)			
	(m)		(inch)		(m)		(feet)		(cm)		(feet)	
	Width	Height	Width	Height	Wide	Tele	Wide	Tele	Min	Max	Min	Max
30	0.65	0.40	25.59	15.75	-	1.44	-	4.72	2.0	10.0	0.07	0.33
50	1.08	0.67	42.52	26.38	1.35	2.41	4.43	7.91	3.4	16.8	0.11	0.55
60	1.29	0.81	50.79	31.89	1.62	2.89	5.31	9.48	4.1	20.3	0.13	0.66
70	1.51	0.94	59.45	37.01	1.89	3.37	6.20	11.06	4.7	23.5	0.15	0.77
80	1.72	1.08	67.72	42.52	2.16	3.85	7.09	12.63	5.4	27.0	0.18	0.89
90	1.94	1.21	76.38	47.64	2.43	4.33	7.97	14.21	6.1	30.3	0.20	0.99
100	2.15	1.35	84.65	53.15	2.71	4.82	8.89	15.81	6.8	33.8	0.22	1.11
120	2.58	1.62	101.57	63.78	3.25	5.78	10.66	18.96	8.1	40.5	0.27	1.33
150	3.23	2.02	127.17	79.53	4.06	7.22	13.32	23.69	10.1	50.5	0.33	1.66
180	3.88	2.42	152.76	95.28	4.87	8.67	15.98	28.44	12.1	60.5	0.40	1.98
200	4.31	2.69	169.69	105.91	5.41	9.63	17.75	31.59	13.5	67.3	0.44	2.21
250	5.38	3.37	211.81	132.68	6.76	-	22.18	-	16.9	84.3	0.55	2.76
300	6.46	4.04	254.33	159.06	8.12	-	26.64	-	20.2	101.0	0.66	3.31

❖ This table is for user's reference only.

WUXGA (WUL5670)

Diagonal length (inch) size of 16:10 Screen	Screen Size W x H				Projection Distance (D)				Offset (Hd)			
	(m)		(inch)		(m)		(feet)		(cm)		(feet)	
	Width	Height	Width	Height	Wide	Tele	Wide	Tele	Min	Max	Min	Max
30	0.65	0.40	25.59	15.75	-	1.38	-	4.53	0.0	8.0	0.00	0.26
50	1.08	0.67	42.52	26.38	1.29	2.29	4.23	7.51	0.0	13.4	0.00	0.44
60	1.29	0.81	50.79	31.89	1.55	2.75	5.09	9.02	0.0	16.2	0.00	0.53
70	1.51	0.94	59.45	37.01	1.80	3.21	5.91	10.53	0.0	18.8	0.00	0.62
80	1.72	1.08	67.72	42.52	2.06	3.67	6.76	12.04	0.0	21.6	0.00	0.71
90	1.94	1.21	76.38	47.64	2.32	4.13	7.61	13.55	0.0	24.2	0.00	0.79
100	2.15	1.35	84.65	53.15	2.58	4.59	8.46	15.06	0.0	27.0	0.00	0.89
120	2.58	1.62	101.57	63.78	3.09	5.50	10.14	18.04	0.0	32.4	0.00	1.06
150	3.23	2.02	127.17	79.53	3.86	6.88	12.66	22.57	0.0	40.4	0.00	1.33
180	3.88	2.42	152.76	95.28	4.64	8.25	15.22	27.07	0.0	48.4	0.00	1.59
200	4.31	2.69	169.69	105.91	5.15	9.17	16.90	30.09	0.0	53.8	0.00	1.77
250	5.38	3.37	211.81	132.68	6.44	-	21.13	-	0.0	67.4	0.00	2.21
300	6.46	4.04	254.33	159.06	7.73	-	25.36	-	0.0	80.8	0.00	2.65

❖ This table is for user's reference only.

User Settings

Using the On Screen Display (OSD)

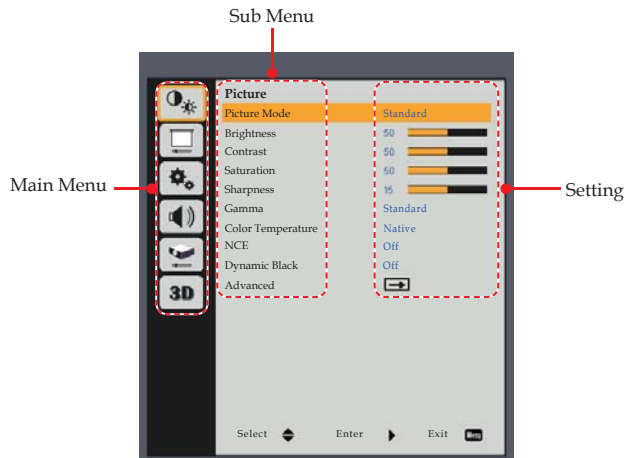
The Projector has a multilingual On Screen Display that allows you to make image adjustments and change a variety of settings.

How to operate

1. To open the OSD, press “Menu” on the Control Panel or Remote Control.
2. 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”, and the screen will return to the previous menu.
6. Press “Menu” or ◀ key to return to the main menu.
7. To exit, press “Menu” again. The OSD menu will close and the projector will automatically save the new settings.

Note

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

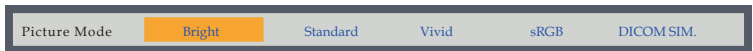




PICTURE

Picture Mode

There are factory presets optimized for various types of images. The available options:



Note

❖ Picture Mode, Color Temperature, NCE, and advanced picture functions are grayed out in 3D mode.

- ▶ Bright: Mode for emphasizing brightness.
- ▶ Standard: Mode for optimizing the balance between brightness and color reproduction.
- ▶ Vivid: Mode for emphasizing color.
- ▶ sRGB: Standard color values.
- ▶ DICOM SIM.: This mode is suitable for projecting a monochrome medical image such as an X ray radiography, MRI, etc.

Brightness

Adjust the brightness of the image.



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

User Settings

Contrast

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



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

Saturation

Adjust the color saturation of the image.



❖ "Saturation" function is only supported under Video signal in Computer source.



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

Sharpness

Adjust the sharpness of the image.



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

Gamma

Use this function to optimize the image output.

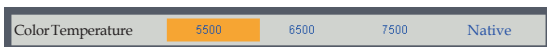
The available options: 1.8 / 2 / Standard(2.2) / 2.4 / Shine.



Color Temperature

Use this function to select the preset color temperature.

The available options: 5500 / 6500 / 7500 / Native.



User Settings

NCE (Natural Color Enhancer)

Use this function to enhance color and reproduce vivid colors.



- ▶ On: Enable NCE.
- ▶ Off: Disable NCE.

Dynamic Black

Use this function to enhance light and shade details of a movie scene.



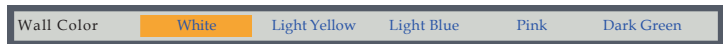
- ▶ On: Enable Dynamic Black.
- ▶ Off: Disable Dynamic Black.

Advanced

Configure the advanced image settings.

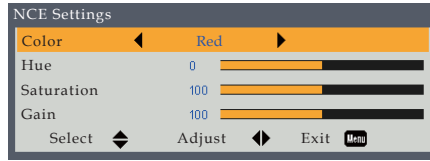


- ▶ Wall Color: Use this function to obtain an optimized screen image according to the wall color. The available options: White/ Light Yellow/ Light Blue/ Pink / Dark Green.



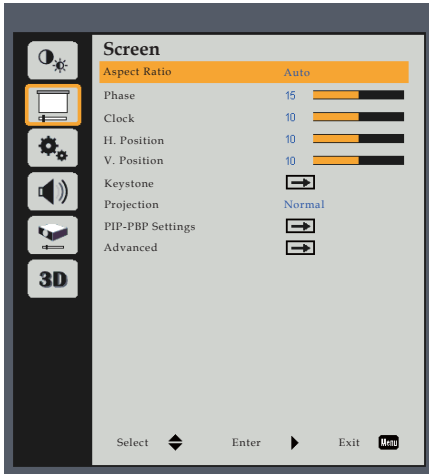
User Settings

- ▶ NCE Settings: Configure the image color settings.



- Color: Use the ◀ or ▶ key to adjust the red, green, blue, cyan, yellow, magenta, and white color of the image.
- Hue: Use the ◀ or ▶ key to adjust the color balance of red and green.
- Saturation: Use the ◀ or ▶ key to adjust the color saturation.
- Gain: Use the ◀ or ▶ key to adjust the color brightness.

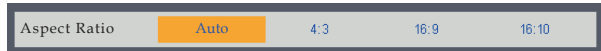
User Settings



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.
- ▶ 16:10: Displays 16:10 aspect ratio.

Phase

Eliminate flicker from the image displayed. Use the ◀ or ▶ 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.



Note

❖ “Phase” and “Clock” functions are only supported under Computer Signal source.

User Settings

Note

❖ “H. Position” and “V. Position” functions are only supported under Computer Signal source.

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.

V. Position (Vertical Position)

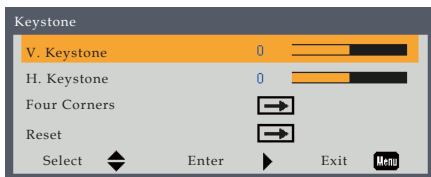
Shift the projected image position vertically.



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

Keystone

Adjust image distortion caused by tilting the projector.



- ▶ V. Keystone: Adjust the vertical keystone.

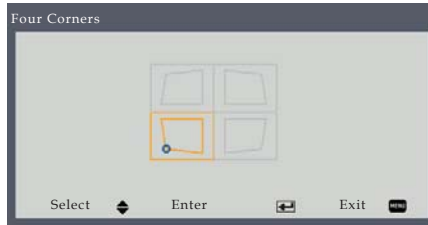


- ▶ H. Keystone: Adjust the horizontal keystone.

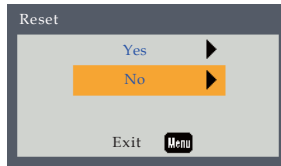


User Settings

- ▶ Four Corner: Compensate for image distortion by adjusting one corner at a time.



- ▶ Reset: Return the keystone settings to the factory default values.



Projection

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



- ▶ Normal: This is the default selection. The image is projected directly onto the screen.
- ▶ Ceiling: When selected, the image will appear upside down.
- ▶ Rear: When selected, the image will appear reversed.
- ▶ Rear Ceiling: When selected, the image will appear reversed in upside down position.

User Settings

Note

❖ PIP/PBP is not supported in the following combinations:

HDMI1xHDBaseT
HDMI2xHDMI3.

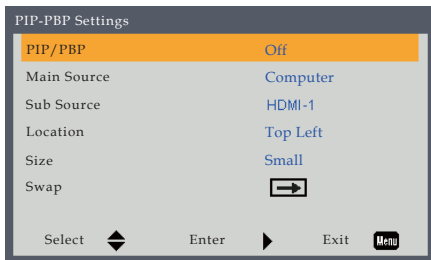
❖ In PIP function, Main Source will be displayed over the whole screen, and Sub Source will be displayed on the part of the screen.

❖ PIP/PBP function is not available when 3D function is turned on.

❖ PIP/PBP function will be automatically canceled if Blu-ray 3D signal is detected.

PIP (Picture in Picture)/PBP (Picture by Picture) Settings

Use this function to display two image sources at once. From the list of active inputs, choose one input as a main source and the other as a sub source.



- ▶ PIP/PBP: Choose your desired PIP/PBP layout. Select “Off” to display image from one input source only.



- ▶ Main Source: Choose the main source from the list of available input sources.



- ▶ Sub Source: Choose the sub source from the list of available input sources.

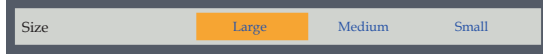


User Settings

- ▶ Location: Choose your desired sub-window location.



- ▶ Location: Choose your desired sub-window size. The available options: Large, Medium, and Small.



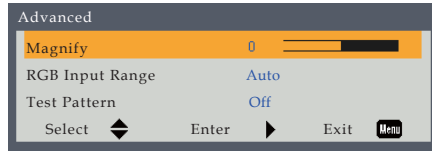
- ▶ Swap: Swap the sources of the main- and sub-windows.

Note

❖ Swapping is available only when PIP/PBP is enabled.

Advanced

Configure the advanced screen settings.



- ▶ Magnify: Use the ◀ or ▶ key to zoom in or zoom out the image.



- ▶ RGB Input Range: Adjust the color range of the HDMI image data.



- Auto: Automatically detect RGB range.
- Limited Range: Process the input image with a limited RGB range.
- Full: Select this mode when computer signal or full range signal from AV equipment is input.

- ▶ HDMI/EQ: Adjust the HDMI equalizer value. Use this function in long cable transmissions.



- ▶ Test Pattern: Use this function to choose your desired test pattern between grid, white, and color bar. Choose "Off" to disable this function.



Note

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

User Settings



SETTINGS

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.



Note

❖ Default value of “Auto Power Off (Min)” is 20 min.

Auto Power Off (Min)

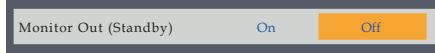
Set the countdown timer interval (in minutes). The countdown timer will start, when there is no signal being sent to the projector. The projector will automatically power off when the countdown has finished. When countdown timer is selected to “0”, auto power off is disabled.



User Settings

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)

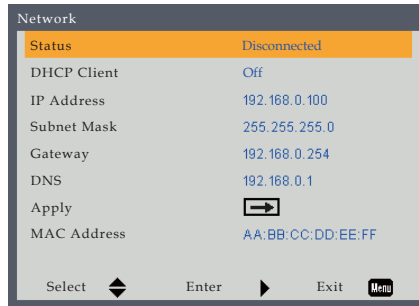
Enable/Disable the network function.



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

Network

Configure the network settings.



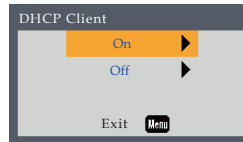
- ▶ Network State: Display the network connection status.

Note

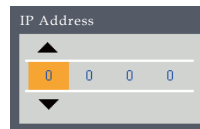
❖ Consult network administrator for network settings.

User Settings

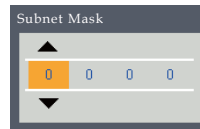
- ▶ DHCP Client: Select “On” to allow the projector to obtain an IP address automatically from your network. Select “Off” to manually assign IP, Subnet Mask and Gateway configuration.



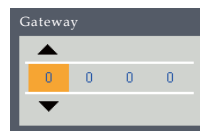
- ▶ IP Address: Set an IP address or display IP address provided from DHCP server when DHCP is set to “On”.



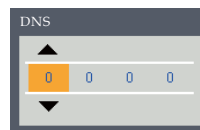
- ▶ Subnet Mask: Set subnet mask number or display subnet mask number provided from DHCP server when DHCP is set to “On”.



- ▶ 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 set to “On”.

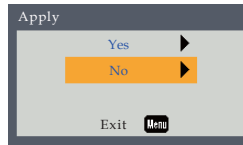


- ▶ DNS: Display the IP address of the domain name system (DNS) server.



User Settings

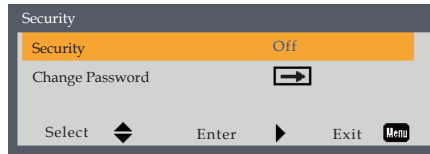
- ▶ Apply: Select “Yes” to apply the changes made in network configuration settings.



- ▶ MAC Address: Display MAC address.

Security

Configure the security settings.



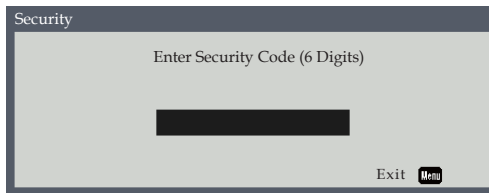
- ▶ Security: Select “On” to use the security verification when the turning on the projector. Select “Off” to be able to switch on the projector without a password verification.

Note

❖ The default security code is “123456”.



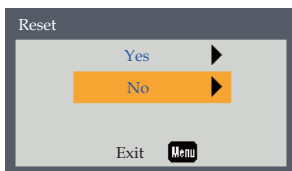
- ▶ Change Password: Set the password.



User Settings

Reset

Return the adjustments and settings to the factory default values. Choose "Yes" to return the display parameters on all menus except Language to the factory default settings.



User Settings



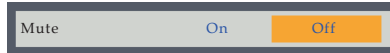
AUDIO

Mute

Temporarily turn off the sound.



❖ “Mute” function affects both internal and external speaker volume.



- ▶ 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.

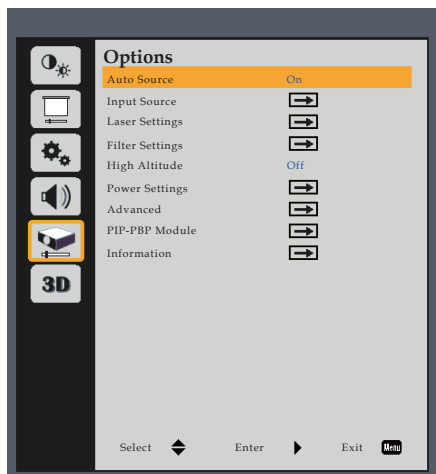
Microphone Volume

Adjust the microphone volume level.



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

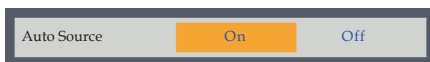
User Settings



OPTIONS

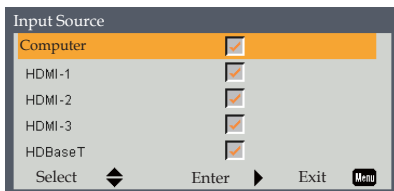
Auto Source

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 Source

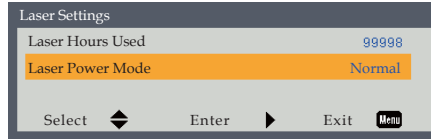
Use this option to enable/disable input sources. Press the ► key to enter the sub menu and select which sources you require. Press "Enter" to finalize the selection. The projector will only search for inputs that are enabled.



User Settings

Laser Settings

Use this option to view the laser diode usage status and configure the laser settings. Press the ► key to enter the sub menu and configure the desired settings.



- ▶ Laser Hours Used: Display the projection time.
- ▶ Laser Power Mode: Set the brightness mode. Choose “Normal” to increase the brightness or choose “Eco.” to dim the projector laser diode which will lower power consumption and extend the laser diode life.



Note

❖ When ambient temperature is over 40°C in operating, the projector will switch to “Eco.” automatically.

Note

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

Filter Settings

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.

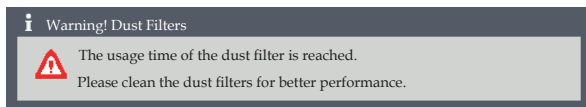


- ▶ Filter Hours Used: Display the filter hours.
- ▶ Filter Reminder: Set the maximum filter time usage.

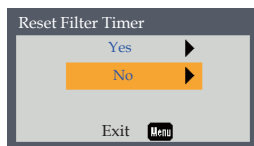


User Settings

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.



- ▶ Reset Filter Timer: Choose this function to reset filter timer.



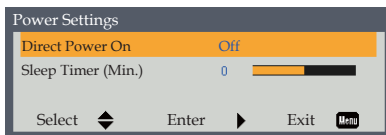
High Altitude

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



Power Settings

Use this option to configure the power settings. Press the ▶ key to enter the sub menu and configure the desired settings. If changes are made, they will take effect the next time the projector is powered on.



- ▶ Direct Power On: Select "On" to automatically power on the projector when the AC power is supplied. If this option is set to "Off", user needs to press the "Power" button on the control panel or the "⏻" button on the remote control to power on the projector.



User Settings

- ▶ **Sleep Timer (Min.):** Set the countdown timer interval. The projector will shut down automatically after the countdown has reached 0.



Advanced

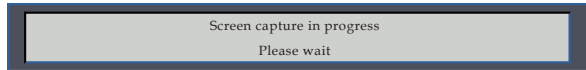
Use this option to configure advanced options. Press the ▶ key to enter the sub menu and configure the desired settings. If changes are made, they will take effect the next time the projector is powered on.



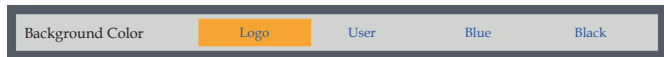
Note

❖ Screen capture function is designed to capture a simple image, such as a company Logo. It may fail to capture a complex image, such as a natural image.

- ▶ **Screen Capture:** Press “Enter” to capture an image of the picture currently displayed on screen in JPEG format.

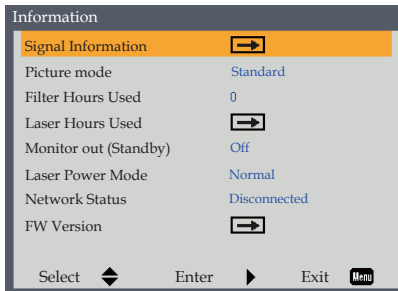


- ▶ **Background Color:** Choose this function to display “Logo”, “Blue”, or “Black” as a background color if no signal is available. Choose “User” to select your desired “Screen Capture” image as the background wallpaper.



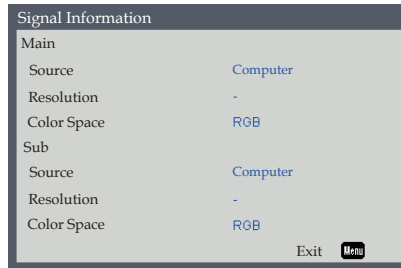
Information


Display the projector information.



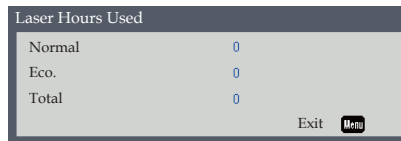
User Settings


- ▶ **Signal Information:** Display the main source and sub source related information.



Signal Information	
Main	
Source	Computer
Resolution	-
Color Space	RGB
Sub	
Source	Computer
Resolution	-
Color Space	RGB
Exit 	

- ▶ **Picture Mode:** Display the currently used picture mode.
- ▶ **Filter Hours Used:** Display the filter hours.
- ▶ **Laser Hours Used:** Display the laser diode hours.

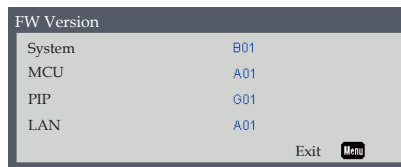



Laser Hours Used	
Normal	0
Eco.	0
Total	0
Exit 	

Note

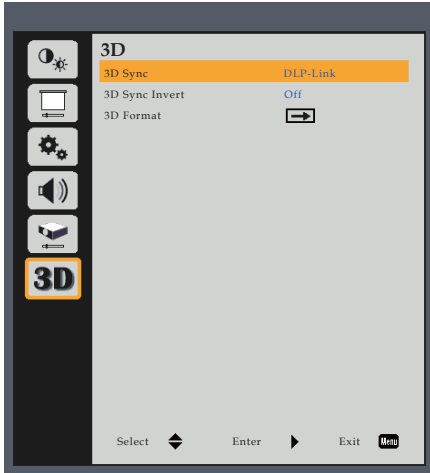
❖ Due to the difference in applications for each country, some regions may have different accessories.

- ▶ **Monitor out (Standby):** Display the monitor out (standby) status.
- ▶ **Laser Power Mode:** Display the laser power mode.
- ▶ **Network Status:** Display the network status.
- ▶ **FW Version:** Display the firmware version for System, MCU, PIP, and LAN.



FW Version	
System	B01
MCU	A01
PIP	G01
LAN	A01
Exit 	

User Settings



3D

3D Sync

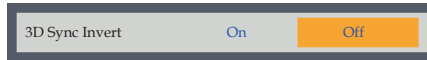
Use this option to select the appropriate 3D function.



- ▶ DLP-Link: Choose “DLP-Link” to use optimized settings for DLP Link 3D Glasses.
- ▶ External: Choose “External” to use optimized settings when using VESA 3D emitter and 3D Glasses.

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.

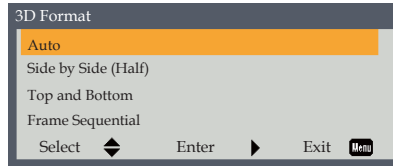
Note

- ❖ Compatible 3D source, 3D content and Optical 3D glasses are 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.

User Settings

3D Format

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



- ▶ Auto: Use this mode to let the system to automatically select the appropriate 3D format content.
- ▶ Side by Side (Half): Use this mode for “Side by Side (Half)” 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.

Controlling this Device with Web Browser

Note

❖ When you are connecting the device to an existing network, set according to the instructions of the network administrator.

You can control this device from a PC by using a web browser.

Connecting to the device

1. Confirmation of the IP address of the device

Select the “Setting” → “Network” in the menu of this device, and verify the IP address. (See pages 48-49 on the projector user’s manual).

Network State	Connected
DHCP	On
IP Address	192.168.0.100
Subnet mask	255.255.255.0
Gateway	192.168.0.254
DNS	192.168.0.1
Apply	[Apply]
MAC	00-00-00-00-00-00
Select	Enter
	Exit

Note

❖ This web page uses Java Script. Turn on and use the Java Script with the settings of the browser you intend to use.

2. Connection

Enter the IP address that was verified by opening the web browser.

For example, enter `http://192.168.0.100/` if the IP address is displayed as shown above.

LAN Control

Log in

1. When you open the web page, you will see a screen like the one below.

If you are controlling by web browser, select "Admin".

When controlling by Crestron, choose "Crestron".

The screenshot shows the login interface for the RICOH Projector Web Server. The page title is "RICOH Projector Web Server" with the projector name "Projector-PJ" below it. On the left, there is a dark sidebar with two buttons: "Admin" and "Crestron". The main area is white and contains a login form with the following elements:

- User Name: admin
- Password: [Empty field]
- Login button
- * Default Password: admin

Note

❖ You can use only alphanumeric characters and symbols in the password. The maximum number of characters is 8. If you enter an invalid character, "Invalid Character" warning is displayed.

2. Enter the password in the "Password" field.

When a password is enabled, you must enter the password. The initial password is "admin". When a password is disabled, the character of the Password will be dimmed.

Login by clicking the [Login] button.

LAN Control

When you log in, a navigation bar for setting the projector will be displayed on the left side of the home screen.

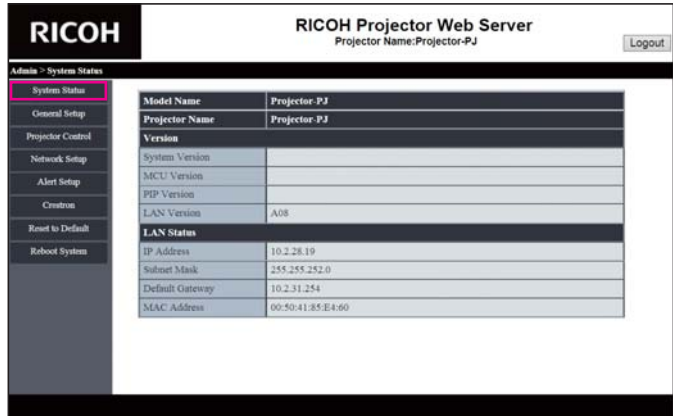
System Status

The current status of the projector is displayed.

You can check information such as firmware version number of the projector and IP address.

Note

❖ The version name displayed on the web page in the diagram may differ from the actual display.



RICOH **RICOH Projector Web Server**
Projector Name:Projector-PJ Logout

Admin > System Status

- System Status
- General Setup
- Projector Control
- Network Setup
- Alert Setup
- Cruston
- Reset to Default
- Reboot System

Version	
Model Name	Projector-PJ
Projector Name	Projector-PJ
System Version	
MCU Version	
PIP Version	
LAN Version	A08

LAN Status	
IP Address	10.2.28.19
Subnet Mask	255.255.252.0
Default Gateway	10.2.31.254
MAC Address	00:50:41:85:E4:60

LAN Control

General Setup

Note

- ❖ The projector name set here is also used in PJLink control.
- ❖ Only alphanumeric characters and symbols can be used as projector name. The maximum number of characters is 22.
- ❖ You can use only alphanumeric characters and symbols in the password. The maximum number of characters is 8. If you enter an invalid character, “Invalid Character” warning is displayed.
- ❖ If the characters of new password and the characters of confirm (new) password do not match, error message will be displayed. In this case, re-enter the password.

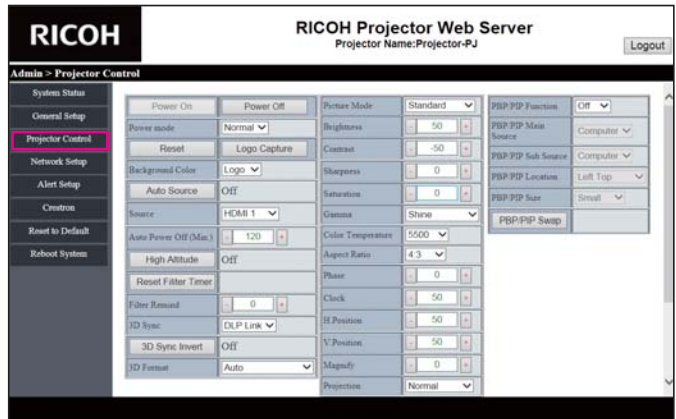
You can change the projector name and password with this item.

The screenshot shows the 'Admin - General Setup' interface of the RICOH Projector Web Server. The page title is 'RICOH Projector Web Server' with 'Projector Name: Projector-PJ' and a 'Logout' button. The left sidebar contains navigation options: System Status, General Setup (highlighted), Projector Control, Network Setup, Alert Setup, Control, Reset to Default, and Reboot System. The main content area is divided into several sections: 1. 'Group Name' with a text input field containing 'Projector' and an 'Apply' button. 2. 'Projector Name' with a text input field containing 'RPU-SERIES' and an 'Apply' button. 3. 'Location' with a text input field and an 'Apply' button. 4. 'Contact' with a text input field and an 'Apply' button. 5. 'Change Password for Webpage' section with three password fields: 'Enter Old password' (filled with asterisks), 'Enter New password' (filled with asterisks), and 'Confirm New password' (filled with asterisks), along with an 'Apply' button. 6. 'PJLink Setting' section with a radio button for 'Enable' (selected) and 'Disable', and a sub-section for 'PJLink Password' with 'Current Password', 'New Password', and 'Confirm Password' fields, and an 'Apply' button.

- ▶ Changing group name.
Enter the new group name in the “Group Name” field.
Click “Apply”.
- ▶ Changing projector name.
Enter the new projector name in the “Projector Name” field.
Click “Apply”.
- ▶ Changing location information.
Enter the new location in the “Location” field.
Click “Apply”.
- ▶ Changing contact name.
Enter a new contact name in the “Contact” field.
Click “Apply”.
- ▶ Changing the password for Webpage (Web Control).
Enter the current password in the “Enter Old Password” field.
Enter the new password in both the “Enter New Password” field and “Confirm New Password” field.
Click “Apply”.
- ▶ Changing the password for PJLink.
Click “Enable” to enable password.
Enter the current password in the “Current Password” field.
Enter the new password in both the “New Password” field and “Confirm Password” field.
Click “Apply”.

LAN Control

Projector Control



You can control the projector with this item.

The items for control are described in this section.

Control button: When you click a button, the corresponding function will be performed.

Power On	The power of the projector turns on. To turn ON, click "Settings" → "Network (standby)".
Power Off	Turns OFF the power of the projector.
Reset	The control settings are reset to the factory defaults.
Logo Capture	The projector captures a screenshot of the currently displayed screen.
Reset Filter Timer	The projector filter timer is reset.
PBP/PIP Swap	The sources of the main- and sub-window are swapped.

LAN Control

Function button: When you click a button, the corresponding function will turn ON/OFF. (Function of the time of ON is described here.)

Auto Source	You will be automatically switched to the next input when the input signal is lost.
High Altitude	The projector is switched to High Altitude mode. Use this mode if the altitude is higher than 2500ft (750m).
3D Sync Invert	The default polarity in projector is automatically reversed and synced with your DLP Link 3D glasses.

Adjustment button: Projector can be adjusted by +/- button.

Auto Power Off (Min.)	Set the countdown timer interval in minutes.
Filter Remind	Set the maximum filter time usage.
Brightness	Adjust brightness by +/- button. Value will return to the initial value when you click the Reset button.
Contrast	Adjust contrast by +/- button. Value will return to the initial value when you click the Reset button.
Sharpness	Adjust sharpness by +/- button. Value will return to the initial value when you click the Reset button.
Saturation	Adjust saturation by +/- button. Value will return to the initial value when you click the Reset button.
Phase	Adjust phase by +/- button. Value will return to the initial value when you click the Reset button.
Clock	Adjust clock by +/- button. Value will return to the initial value when you click the Reset button.
H.Position	Adjust horizontal position by +/- button. Value will return to the initial value when you click the Reset button.

LAN Control

V.Position	Adjust vertical position by +/- button. Value will return to the initial value when you click the Reset button.
Magnify	Adjust magnification by +/- button. Value will return to the initial value when you click the Reset button.

Adjust the projector by selecting a value from the pull-down menu.

Power mode	Select the desired power mode between "Normal" and "Eco".
Background Color	Select a desired color to display as background if no signal is available. The available options include "Logo", "Blue", "Black" or image captured with "Logo Capture" function.s
Source	Select the desired source between "Computer", "HDMI 1", "HDMI 2", HDMI 3, and HDBaseT.
3D Sync	Select an appropriate 3D function between "DLP-Link" or "External".
Picture Mode	Select the desired picture mode between "Bright", "Standard", "Vivid", "sRGB", and DICOM SIM."
Gamma	Select the desired gamma between "1.8", "2.0", "Standard(2.2)", "2.4", and "Shine".
Color Temperature	Select the desired color temperature between "5500", "6500", "7500", and "Native".
Aspect Ratio	Select the desired aspect ratio between "Auto", "4:3", "16:9", and "16:10".
Projection	Select the desired projection between "Normal", "Ceiling", "Rear", and "Rear Ceiling".
PIP/PBP Function	Turn the PIP/PBP function "On" or "Off".

LAN Control

Network Setup

RICOH RICOH Projector Web Server
Projector Name: Projector-PJ Logout

Admin > Network Setup

System Status
General Setup
Projector Control
Network Setup
Alert Setup
Custom
Reset to Default
Reboot System

IP Setup

DHCP On Off

IP Address	10	2	28	19
Subnet Mask	255	255	252	0
Default Gateway	10	2	31	254
DNS Server	192	168	1	167

Apply

Set the network of the projector.

Note

❖ IPv6 cannot be used in this device.

- ▶ Automatically configuring the network settings from DHCP. Check automatic setting and then click "Apply".
- ▶ Configuring the network settings manually. Check manual setting, enter appropriate values in the IP address, Subnet Mask, Default Gateway (Gateway) and DNS Server fields, and then click "Apply".

Note

❖ Only alphanumeric characters and symbols can be used in the password. The maximum number of characters is 32.

❖ If the characters entered in the Current Password field and the characters entered in the Confirm Password field do not match, error message will be displayed. In this case, re-enter the password.

Note

❖ When you have changed the settings, verify that the e-mail settings are done correctly. It is recommended that you send a test mail.

❖ E-mail transmission protocol supports only SMTP. Other protocols cannot be used.

❖ When Japanese or Chinese characters are used in an e-mail content, the e-mail may be received with unreadable characters. In such case, please use English characters for the e-mail content.

Alert Setup

You can send email alerts when an error occurs.
You can carry out settings for alert mail in this section.

The screenshot shows the 'Alert Setup' configuration page. The 'Alert Type' section has radio buttons for various error types. The 'Alert Mail Notification' section has a checked checkbox. The 'SMTP Setting' section includes fields for SMTP Server, From, User Name, and Password. The 'Email Setting' section includes fields for Mail Subject (set to 'Projector Alert'), Mail Content, and To. There are 'Apply' and 'Send Test Mail' buttons at the bottom right.

- ▶ Alert types
Check the type of error for which you want to send alert mail.
- ▶ Alert mail notification
Check and perform the following settings.
- ▶ SMTP Setting
Set the following:
 - SMTP Server: Server address (server name) (SMTP server)
 - From: e-mail address of the sender
 - User Name: User name of the mail server
 - Password: Mail server password
- ▶ Email Setting
 - Mail Subject
 - Mail Content
 - To: Enter the e-mail address of the sender.
 - Click "Apply" to fix the value.

LAN Control

Conditions	Conditions for sending	Title of e-mail
[System Overtemp]	Temperature of the unit is high	Over Temperature:xxx.xxx.xxx.xxx*
[Fan1-5 Error/ DMD Fan Error/ PW Fan Error]	Cooling fan has stopped	Fan Lock:xxx.xxx.xxx.xxx*
[Color Wheel Fail]	Color wheel function has failed.	Color Wheel: xxx.xxx.xxx.xxx*
[Laser Error]	The laser diode has failed.	Laser: xxx.xxx.xxx.xxx*

Enter the IP address of projector in *xxx.xxx.xxx.xxx.

Send Test Mail

When you click [Send Test Mail], test email will be sent.

The text will be "Email Test xxx.xxx.xxx.xxx *".

Even if an error occurs during the e-mail transmission, no error will appear in the web browser.

Crestron

You can use the control of projectors that uses Crestron.

Note

❖ When projector is in standby mode, only the “Power” button will work.



- ▶ Power: Switch ON/OFF the power.
- ▶ Source List: Correspondence between the input display and input terminal of the device is as follows.
 - Computer
 - HDMI 1
 - HDMI 2
 - HDMI 3
 - HDBaseT
- ▶ Other buttons work in the same manner as Projector Control.

LAN Control

Note

- ❖ After setting the user password, you will be able to access Crestron's page by entering the password.
- ❖ After enabling the Admin password, you will be able to access the page of Crestron tool only upon entering the Admin password.

Crestron Tools

You can perform settings of the projector network and Crestron Room View.

The screenshot shows the Crestron Control web interface with three main sections: Crestron Control, Projector, and User Password. The Crestron Control section includes fields for Ip Address (192.168.0.50), IP ID (7), and Port (41794), with a Send button. The Projector section includes fields for Projector Name (PJ WXL5670), Location, Assigned To (Ricoh Projector), DHCP (Enabled), Ip Address (192.168.0.100), Subnet Mask (255.255.255.0), Default Gateway (192.168.0.254), and DNS Server (192.168.0.51), with Send buttons. The User Password section includes an Enabled checkbox, New Password, and Confirm fields, with a Send button. The Admin Password section includes an Enabled checkbox, New Password, and Confirm fields, with a Send button. An Exit button is located at the bottom center.

Crestron Info

You can display information about the firmware version of the projector and status of the lamp.

The screenshot shows the Crestron Info web interface with two main sections: Projector Information and Projector Status. The Projector Information section includes fields for Projector Name (PJ WXL5670), Location, Firmware Version (R01), Mac Address (00:50:41:85:59:81), Resolution, Lamp Hours (7), and Assigned To (Ricoh Projector). The Projector Status section includes fields for Power Status (Power On), Source (S-Video), Picture Mode (Bright), Projection (Front-Desktop), Lamp Power (Normal), and Error Status (0:No Error). An Exit button is located at the bottom center.

LAN Control

Contacting the IT administrator of Crestron

You can contact the IT administrators who are using X-Panel.

Note

❖ Crestron offers the following two types of files.

a) RoomViewExpress
_6_3_3_7.exe

b) Xpanel.exe

The screenshot shows the X-Panel interface with a 'Contact IT Help' button highlighted in the top right. Below it is a 'Title' input field with a 'Send' button. The main area is divided into two columns: 'Projector Information' and 'Projector Status'. The 'Projector Information' column contains fields for Projector Name (PJ WXL5670), Location, Firmware Version (B01), Mac Address (00.50.41.85.59.81), Resolution, Lamp Hours (7), and Assigned To (Ricoh Projector). The 'Projector Status' column contains fields for Power Status (Power On), Source (Video), Picture Mode (Bright), Projection (Front-Desktop), Lamp Power (Normal), and Error Status (0 No Error). An 'exit' button is located at the bottom center.

Reset to Default

You can reset the network to factory settings. Press the reflect button.

The screenshot shows the RICOH Projector Web Server interface. The top left has the 'RICOH' logo, and the top right has 'RICOH Projector Web Server' and 'Projector Name: Projector-PJ'. A 'Logout' button is in the top right corner. On the left side, there is a navigation menu with options: System Status, General Setup, Projector Control, Network Setup, Alert Setup, Crestron, Reset to Default (highlighted with a red box), and Robot System. The main content area shows a warning message: 'Reset Default' with a yellow triangle icon and the text 'This will restore the device to the factory default settings.' An 'Apply' button is located at the bottom right of the message box.

LAN Control

Reboot System

You can restart the system.
Press the restart button.



Control the Projector via the Projector Management Utility

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.

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

Note

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

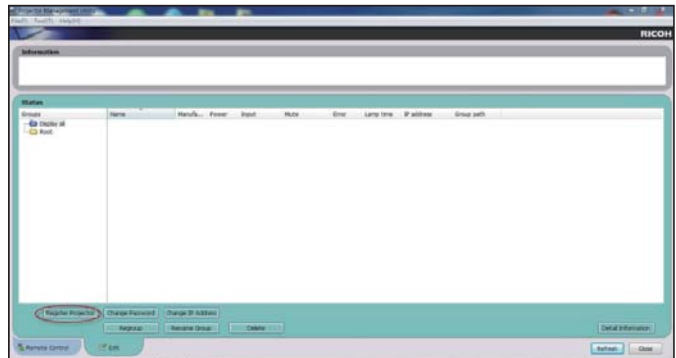
1. Close all applications.
2. Insert the CD-ROM in the CD-ROM drive of your computer, and then click [X] to close the user's manual window.
3. Right click the CD-ROM icon and select OPEN.
4. Open "Projector Management Utility" folder stored on the CD-ROM.
5. Double-click "setup.exe" stored in the "Projector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

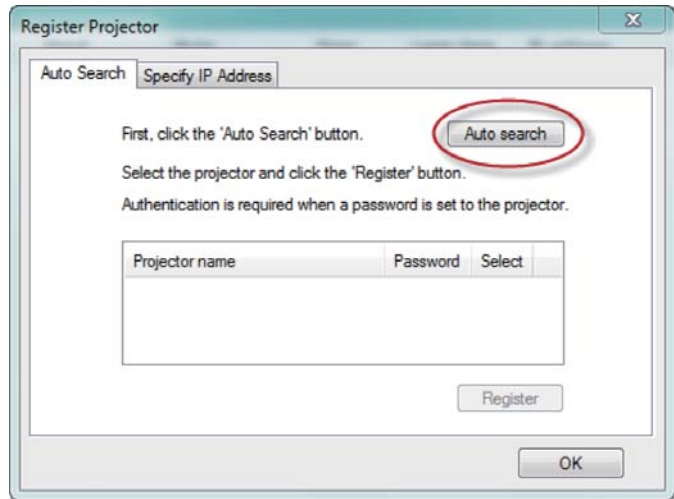
1. Registers the projectors with Auto search

-Click [Register Projector] button.

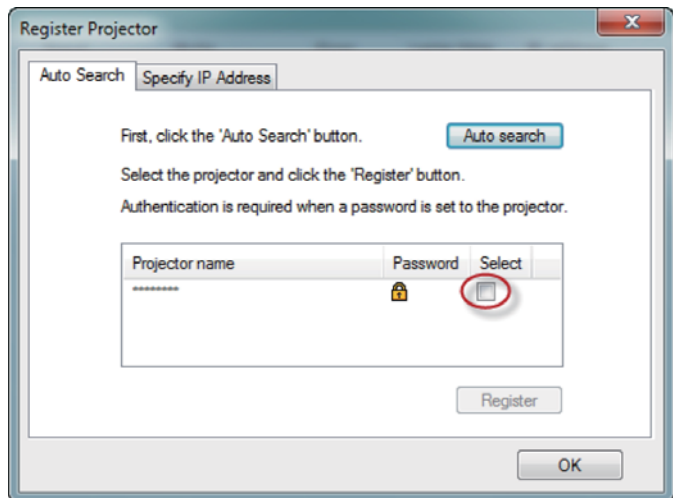


LAN Control

-Click [Auto Search] button.

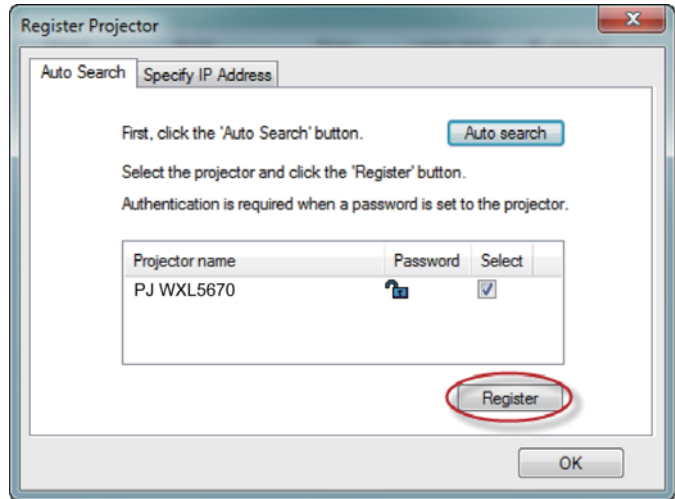


-List of projectors which support PJLink are displayed in the window. Projector name is displayed as "*****" until authorization if password is enable.



LAN Control

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



-Click [**OK**] 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 Utility

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.

The projector	The projector Management Utility
Computer	RGB 1
HDMI1	Digital 1
HDMI2	Digital 2
HDMI3	Digital 3
HDBaseT	Digital 4

LAN Control

[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 “Connecting the Projector” section.
- ▶ Ensure the pins of terminals are not crooked or broken.
- ▶ Make sure the projector is switched on.
- ▶ Ensure that the “AV Mute” feature is not turned on.

Problem: Partial, scrolling or incorrectly displayed image

- ▶ Press “Auto” 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. 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 page 36)

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.



Troubleshooting










































Problem: Image is reversed

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

Problem: Indicator lighting message

Note

Steady light => 
 No light => 

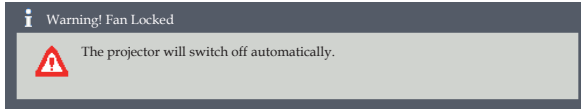
STATUS	POWER indicator		TEMP indicator	LAMP indicator
	(Red)	(Blue)	(Red)	(Red)
STANDBY				
POWER ON				
STANDBY LAN ON				
WARMING UP STATE	Flashing (1s)			
Scalar DownloadMode				
Error Status				
POWERGOOD NG				
FAN LOCK			Flashing (3s)	
CW BREAKDOWN			Flashing (0.5s)	
OVERHEAT				
LD OVERHEAT				
LD VOLTAGE ERROR				

Problem: Message Reminders

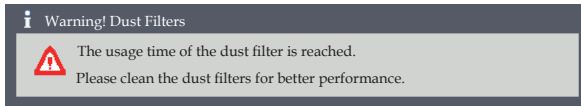
- ▶ Temperature Error - the projector is overheat inside. Check the



- ▶ 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.



Appendices

List of Compatible Signals

A. VGA Analog					
(1) PC Signal					
Modes	Resolution	V.Frequency (Hz)	H.Frequency (kHz)	Pixel CLK [MHz]	EDID Description
VGA	640 x 480	60	31.5	25.2	Established Timings 1
	640 x 480	67	35.0	26.8	Established Timings 1
	640 x 480	72	37.9	31.5	Established Timings 1
	640 x 480	75	37.5	31.5	Established Timings 1
	640 x 480	85	43.3	36.0	
IBM	720x400	70	31.5	28.3	Established Timings 1
SVGA	800 x 600	56	35.1	36.0	Established Timings 1
	800 x 600	60	37.9	40.0	Established Timings 1
	800 x 600	72	48.1	50.0	Established Timings 2
	800 x 600	75	46.9	49.5	Established Timings 2
	800 x 600	85	53.7	56.3	
Apple, Mac II	832x624	75	49.1	57.3	Established Timings 2
XGA	1024 x 768	60	48.4	65.0	WXGA: Established Timings 2 XGA: Established Timings 2 and (Native) Detailed Timing / Descriptor Block 1
	1024 x 768	70	56.5	75.0	Established Timings 2
	1024 x 768	75	60.0	78.8	Established Timings 2
	1024 x 768	85	68.7	94.5	
	1024x768	120	99.0	137.8	Standard Timing Identification
Apple, Mac II	1152x870	75	68.7	100.0	Manufacturer's Reserved Timing

Appendices

A. VGA Analog					
(1) PC Signal					
Modes	Resolution	V.Frequency (Hz)	H.Frequency (kHz)	Pixel CLK [MHz]	EDID Description
SXGA	1280x1024	60	64.0	108.0	
	1280x1024	72	77.0	133.0	
	1280x1024	75	80.0	135.0	Established Timings 2
QuadVGA	1280x960	60	60.0	101.3	Standard Timing Identification
	1280x960	75	75.2	130.0	
SXGA+	1400x1050	60	65.3	121.8	
UXGA	1600x1200	60	75.0	162.0	Standard Timing Identification
	1920x1080	60	67.5	148.5	
WUXGA	1920x1200 (RB)	60	74	154	
(2) Extended Wide Timing					
WXGA	1280x720	60	44.8	74.2	Standard Timing Identification
	1280x800	60	49.6	83.5	WXGA: (Native) Detailed Timing / Descriptor Block 1 XGA: Standard Timing Identification
	1366x768	60	47.7	84.8	
	1440x900	60	59.9	106.5	Standard Timing Identification
WSXGA+	1680x1050	60	65.3	146.3	WXGA: Standard Timing Identification XGA: N/A
(3) Component Signal					
480i	720x480 (1440x480)	59.94(29.97)	15.7	13.5	
576i	720x576 (1440x576)	50(25)	15.6	13.5	
480p	720x480	59.94	31.5	27.0	
576p	720x576	50	31.3	27.0	
720p	1280x720	60	45.0	74.25	
720p	1280x720	50	37.5	74.25	
1080i	1920x1080	60(30)	33.8	74.25	
1080i	1920x1080	50(25)	28.1	74.25	

Appendices

A. VGA Analog

(3) VGA Analog - Component Signal

Modes	Resolution	V.Frequency (Hz)	H.Frequency (kHz)	Pixel CLK [MHz]	EDID Description
1080p	1920x1080	23.98/24	27.0	74.25	
1080p	1920x1080	60	67.5	148.5	
1080p	1920x1080	50	56.3	148.5	

Appendices

B. HDMI Digital					
(1) PC Signal					
Modes	Resolution	V.Frequency (Hz)	H.Frequency (kHz)	Pixel CLK [MHz]	EDID Description
VGA	640x480	60	31.5	25.2	Established Timings 1
	640x480	67	35.0	26.8	Established Timings 1
	640x480	72	37.9	31.5	Established Timings 1
	640x480	75	37.5	31.5	Established Timings 1
	640x480	85	43.3	36.0	
IBM	720x400	70	31.5	28.3	Established Timings 1
SVGA	800x600	56	35.1	36.0	Established Timings 1
	800x600	60	37.9	40.0	Established Timings 1
	800x600	72	48.1	50.0	Established Timings 2
	800x600	75	46.9	49.5	Established Timings 2
	800x600	85	53.7	56.3	
Apple, Mac II	832x624	75	49.1	57.3	Established Timings 2
XGA	1024x768	60	48.4	65.0	WXGA: Established Timings 2 XGA: Established Timings 2 and (Native) Detailed Timing / Descriptor Block 1
	1024x768	70	56.5	75.0	Established Timings 2
	1024x768	75	60.0	78.8	Established Timings 2
	1024x768	85	68.7	94.5	
	1024x768	120	99.0	137.8	Standard Timing Identification
Apple, Mac II	1152x870	75	68.7	100.0	Manufacturer's Reserved Timing
SXGA	1280x1024	60	64.0	108.0	
	1280x1024	72	77.0	133.0	
	1280x1024	75	80.0	135.0	Established Timings 2

Appendices

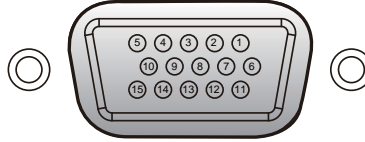
B. HDMI Digital					
(1) PC Signal					
Modes	Resolution	V.Frequency (Hz)	H.Frequency (kHz)	Pixel CLK [MHz]	EDID Description
Quad VGA	1280x960	60	60.0	101.3	Standard Timing Identification
	1280x960	75	75.2	130.0	
SXGA+	1400x1050	60	65.3	121.8	
UXGA	1600x1200	60	75.0	162.0	Standard Timing Identification
	1920x1080	60	67.5	148.5	
WUXGA	1920x1200 (RB)	60	74	154	
(2) Extended Wide Timing					
WXGA	1280x720	60	44.8	74.2	Standard Timing Identification
	1280x800	60	49.6	83.5	WXGA: (Native) Detailed Timing / Descriptor Block 1 XGA: Standard Timing Identification
	1366x768	60	47.7	84.8	
	1440x900	60	59.9	106.5	Standard Timing Identification
WXGA+	1680x1050	60	65.3	146.3	WXGA: Standard Timing Identification XGA: N/A
(3) HDMI - Video Signal					
640x480p	640x480	59.94/60	31.5	25.2	Short Video Descriptor of CEA EDID Timing
480i	720x480 (1440x480)	59.94 (29.97)	15.7	13.5	Short Video Descriptor of CEA EDID Timing
576i	720x576 (1440x576)	50 (25)	15.6	13.5	Short Video Descriptor of CEA EDID Timing
480p	720x480	59.94	31.5	27.0	Short Video Descriptor of CEA EDID Timing
576p	720x576	50	31.3	27.0	Short Video Descriptor of CEA EDID Timing
720p	1280x720	60	45.0	74.25	(Native)Short Video Descriptor of CEA EDID Timing

Appendices

B. HDMI Digital					
(3) HDMI - Video Signal					
Modes	Resolution	V.Frequency (Hz)	H.Frequency (kHz)	Pixel CLK [MHz]	EDID Description
720p	1280x720	50	37.5	74.25	(Native)Short Video Descriptor of CEA EDID Timing
1080i	1920x1080	60 (30)	33.8	74.25	Short Video Descriptor of CEA EDID Timing
1080i	1920x1080	50 (25)	28.1	74.25	Short Video Descriptor of CEA EDID Timing
1080p	1920x1080	23.98/24	27.0	74.25	Short Video Descriptor of CEA EDID Timing
1080p	1920x1080	60	67.5	148.5	Short Video Descriptor of CEA EDID Timing
1080p	1920x1080	50	56.3	148.5	Short Video Descriptor of CEA EDID Timing
(4) HDMI 1.4a mandatory 3D timing- Video Signal					
Frame Packing	720p	50			Short Video Descriptor of CEA EDID Timing
	720p	59.94/60			Short Video Descriptor of CEA EDID Timing
	1080p	23.98/24			Short Video Descriptor of CEA EDID Timing
Side-by-Side	1080i	50			Short Video Descriptor of CEA EDID Timing
	1080i	59.94/60			Short Video Descriptor of CEA EDID Timing
Top-and-Bottom	720p	50			Short Video Descriptor of CEA EDID Timing
	720p	59.94/60			Short Video Descriptor of CEA EDID Timing
	1080p	23.98/24			Short Video Descriptor of CEA EDID Timing
(5) Input signal frequency range:					
<ul style="list-style-type: none"> Analog: fh=15kHz~100kHz, fv=24Hz~60Hz, Max. pixel rate: 162.5MHz. Digital (HDMI): fh=15kHz~100kHz, fv=24Hz~60Hz, Max. pixel rate: 200MHz. 					

Configurations of Terminals

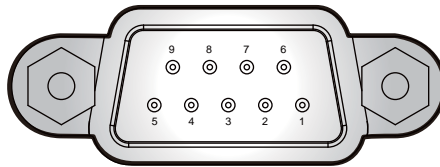
Terminal: Computer In (Mini D-sub 15 pin) [Monitor Out]



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.)	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)

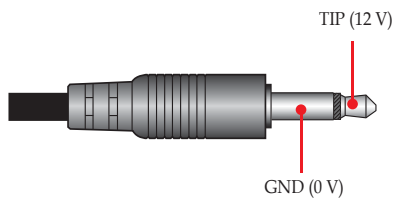


1	NC*	6	NC*
2	TXD (Sending Data)	7	NC*
3	RXD (Receiving Data)	8	NC*
4	NC*	9	NC*
5	GND	* Do not connect anything.	

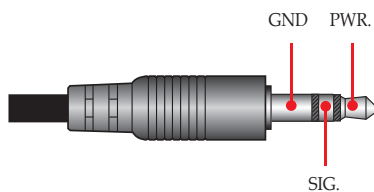
Note

- ❖ Contact your dealer for control cable and commands.

12V Trigger



Wired Remote



Specifications

■ List of general specifications

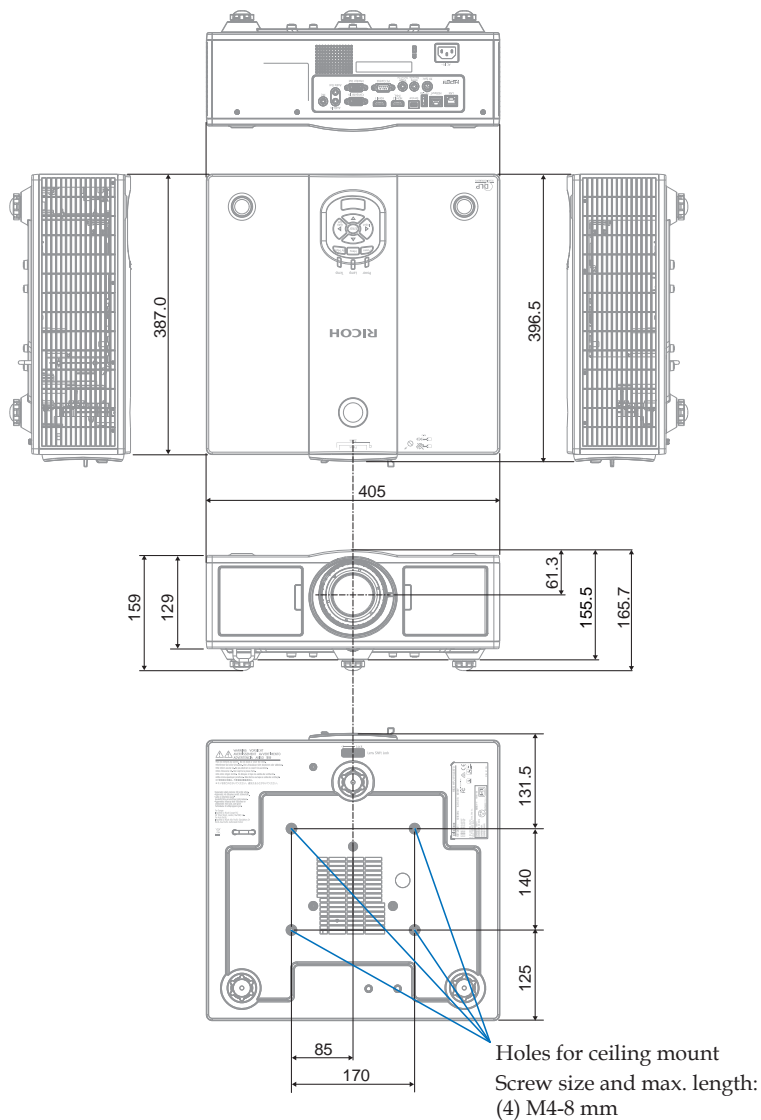
Item	WXGA (PJ WXL5670)	WUXGA (PJ WUL5670)
DLP chip	0.65" DMD WXGA	0.67" DMD WUXGA
Projection Lens	F# 2.3 - 3.15, f=17.63- 31.36mm, 1.8x Zoom Lens	
Projection Distance (Focus range)	<ul style="list-style-type: none"> <Wide> 8.86~26.57 feet (2.70~8.10m) <Tele> 4.59~31.5 feet (1.40~9.60m) 	<ul style="list-style-type: none"> <Wide> 8.53~25.26 feet (2.60~7.70 m) <Tele> 5.58~30.18 feet (1.70~9.20 m)
Throw Ratio (distance/width)	1.26 to 2.24	1.2 to 2.13
Dimension (WxDxH)	387 x 405 x 155.5mm (without protruding part)	
	396.5 x 405 x 165.7mm (with protruding part)	
Weight	Approx. 11.4 kg (25.1 lbs)	
I/O Terminal	<ul style="list-style-type: none"> LAN HDBaseT USB 5V/1.5A Service HDMI 2/MHL HDMI 1 Computer In Monitor Out Audio IN 	<ul style="list-style-type: none"> Audio OUT Microphone PC-Control Trigger Out (+12V) Wired Remote 3D Sync HDMI 3/MHL (located at front cover) USB 5V/1.5A (located at front cover; supports dongle power if necessary)
Speaker	10W x2	
Laser diode life	At least 20 000 hours	
Noise Level (Typ.)	<ul style="list-style-type: none"> Full: Typ 35dB(A) /max 37dB(A) ECO: Typ 29dB(A) /max 31dB(A) 	
Environment	<ul style="list-style-type: none"> Operational Temperatures: 41° to 104°F (5° to 40°C); up to 80% humidity (non-condensing) Storage Temperatures: -4° to 140°F (-20° to 60°C); up to 80% humidity (non-condensing) 	
Power Consumption	<ul style="list-style-type: none"> Eco Mode: 285W Full Mode: 470W 	
Standby Power	0.5W or less	

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.

Cabinet Dimensions

Unit: mm



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