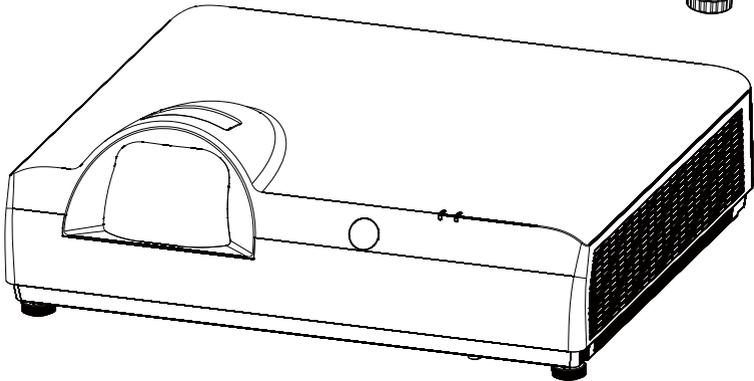
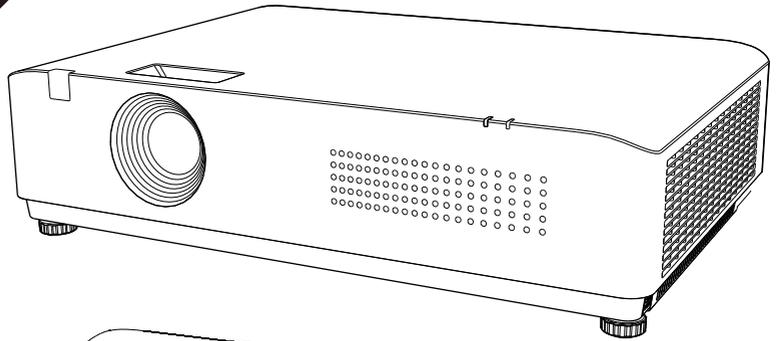


# Operating Manual

## Laser projector



- Thank you for purchasing this product.
- Before using this product, please read this manual carefully, and save this manual for future use.

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## Important safety notice!

**Warning** : This equipment must be grounded.

**Warning** : To prevent damage that may result in fire or electric shocks, do not expose this appliance to rain or moisture.  
This device cannot be used in a direct field of view in a visual display workplace.  
To avoid causing disturbing reflections in the visual display workplace, it is strictly forbidden to place this device in the direct field of view.  
According to ISO 7779, the sound pressure intensity at the operator's position is equal to or less than 70 dB (A).

**Warning** : 1. When not using the device for an extended period of time, be sure to disconnect the power plug from the power outlet.  
2. To avoid electric shocks, do not open the cover. Please contact a qualified person for repairs.  
3. Do not remove the grounding pin on the power plug . This device is equipped with a two-pin grounding type power plug. This plug will only fit a grounding-type power outlet. This is a security function. If you are unable to insert the plug into the outlet, contact an electrician. Do not defeat the purpose of the grounding plug.

**Warning** : This device complies with the Class A standard of CISPR32.  
This is a Class A information technology equipment. When used in a residential environment, it may cause radio frequency interference. In this case, the user will be required to take some appropriate countermeasures.

**Precautions:** To assure continued compliance , follow the attached installation instructions. Including: When connecting to a computer or peripheral device, the attached power cord and shielded interface cables must be used. In addition, any unauthorized changes and modifications to this equipment could void the user's authority to operate this device.

**Warning** : To avoid fire or electric shocks, do not expose this product to rain or moisture.

**Warning** : Risk of electric shock, do not open



Marks on the projector



The lightning flash with arrowhead symbol, within an equilateral triangle on the projector is intended to alert the user to the presence of uninsulated [dangerous voltage] inside the product, which poses a risk of electric shock to persons.



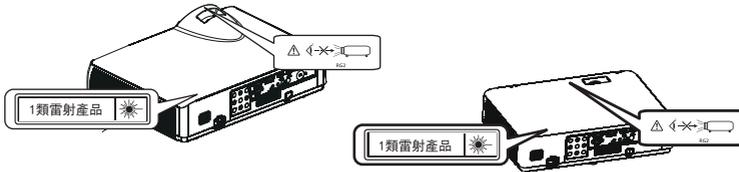
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

**Warning:** Do not look directly into the light emitted from the lens while using the projector.



Mark on the projector

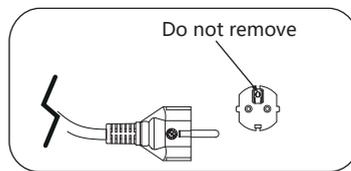
**Laser statement:** This projector falls into the Class I laser products of IEC/EN 60825-1:2014.  
2.This projector is comply with Class II laser products of IEC 64271-5: 2015  
3.According to GB72471-2012 "Safety of Laser Products Part 1: Classification of equipment, Requirements" this product comply with Class II laser products.



**Precautions:** Using control, adjustment, or executive programs other than those specified herein may result in the release of harmful radiation.

**Precautions:**

This device is equipped with a two-pin grounding type power plug. Do not remove the grounding pin on the power plug. This plug will only fit a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician. Do not defeat the purpose of the grounding plug.



**Emergency treatment method:**

To prevent damage to users and others and loss of life and property, if an abnormality occurs, immediately unplug the power plug and stop using it.

**Taiwan-specific empty battery recycling logo**



Recycle empty batteries



## Warning: Power

The wall outlet or the circuit breaker shall be installed near the equipment and shall be easily accessible when problems occur.. If the following problems occur, cut off the power supply immediately.

Continued use of the projector in these conditions will result in fire or electric shocks or visual impairment.

If foreign objects or water gets inside the projector, cut off the power supply.

If the projector is dropped or the cabinet is damaged, cut off the power supply.

If you notice smoke, strange smell, or noise coming from the projector, cut off the power supply.

Please contact an Authorized Service Center for repairs. Do not attempt to repair the projector yourself.

During a thunderstorm, do not touch the projector and cables. Electric shocks can result.

Do not do anything that might damage the power cord or the power plug. If the power cord is used while damaged, electric shocks, short circuits, or fire will result.

Do not damage the power cord, make any modifications to it, bend it excessively, twist it, pull it, or wrap it into a bundle, or place it near any hot objects or place heavy objects on top of it.

Do not use the anything other than the provided power cord. Otherwise, it may result in electric shocks or fire.

**Caution: If the device on the side of the power outlet is not grounded with the provided power cord, it may lead to electric shocks.**

Insert the power plug securely into the wall outlet and ensure that the power connector is securely plugged into the projector.

If the plug is not inserted correctly, electric shocks or overheating will result.

Do not use a broken power plugs which are damaged or wall outlets which are coming loose from the wall.

When the hands are wet, do not touch the power plug or the power connector. Otherwise, it will easily lead to electric shocks.

Do not overload the wall outlet.

If the power supply is overloaded (for example: inserting too many power plugs), overheating may occur and fire will result..

Clean the power plug regularly to to prevent it from becoming covered in dust.. Failure to observe this will cause a fire.

If dust builds up on the power plug, the resulting humidity can damage the insulation.

### **On use/installation**

Do not place the projector on soft materials such as carpets or sponge mats. Doing so will cause the projector to overheat, which can cause burns, fire, or damage to the projector.

Do not set up the projector in humid or dusty places, or in places where the projector may come into contact with oily smoke or steam.

Using the projector under such conditions will result in fire, electric shocks, or components deterioration. Oil may also deform the plastic and the projector may fall down, such as when mounted on the ceiling.

Do not install the projector in a place which is not strong enough to take the full weight of the projector or on top of a surface which is sloped or unstable. Failure to observe this will cause the projector to fall down or tip over the projector, and personal injury or equipment damage could result.

Do not install the projector in a place where people can pass.

People may bump into the projector or trip over the power cord, which may result in fire, electric shocks, or injury.

Warning:

Do not cover the air intake/ the air exhaust port. Doing so will cause the projector to overheat, which can cause fire or damage to the projector.

- Do not place the projector in narrow, badly ventilated places.
  - Do not place the projector on cloth or papers, as these materials could be easily drawn into the air intake port.
  - Keep at least 1m (39-3/8") between the air exhaust port and any wall or object, and keep at least 50cm (19-11/16") between the air intake port and any wall or object.
- Do not look or place your hands directly into the lights emitted from the lens, while the projector is being used.

Do not use optical devices such as magnifiers or mirrors to enter the projection beam.

Doing so can cause burns or impaired vision.

- Strong light is emitted from the projector's lens. Do not look or place your hands directly into this light.
  - Be especially careful not to let children look into the lens. In addition, turn off the power and disconnect the power plug when you are away from the projector.
- Never attempt to remodel or disassemble the projector.

High voltage can cause accidents such as fire or electric shocks.

- For any inspection, adjustment and repair work, please contact an Authorized Service Center.

Avoid metal objects, flammable materials or liquids entering into the projector.

Do not get the projector wet. Otherwise, it may cause a short circuit or excessive temperature, thus resulting in accidents such as fire, electric shocks, etc. or projector failure.

- Do not place liquid containers or metal objects near the projector.
- If liquid gets inside the projector, consult your distributor.
- Please pay special attention to children.

Use an authorized ceiling mount bracket.

Using an unauthorized ceiling mount bracket may cause the machine to fall.

- Install the attached safety cables on the ceiling mount bracket to avoid dropping of the

## Important safety tips!

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Installation work should only be carried out by a qualified technician, such as lifting the projector to the ceiling.

Improper fixing during installation may result in personal injury or electric shocks.

### ●Accessories

Do not use or handle the batteries improperly, and refer to the instructions below.

Failure to observe this will cause burns, batteries to leak, overheat, explode, or catch fire.

- Do not use unspecified batteries.
- Do not charge dry cell batteries.
- Do not disassemble dry cell batteries.
- Do not heat the batteries or place them into water or fire.
- Do not allow the + and - terminals of the batteries to come into contact with metallic objects such as necklaces or hairpins.
- Do not store or carry batteries with metallic objects.
- Store the batteries in a plastic bag and keep them away from metallic objects.
- Make sure the polarities (+ and -) are correct when inserting the batteries.
- Do not use a new battery together with an old battery or mix different types of batteries.
- Do not use batteries with the outer cover peeling away or removed.  
If the battery fluid leaks, do not touch it with bare hands and take the following measures if necessary.
- Battery fluid on your skin or clothing could result in skin inflammation or injury. Rinse with clean water and seek medical advice immediately.
- Battery fluid coming in contact with your eyes could result in loss of sight. In this case, do not rub your eyes. Rinse with clean water and seek medical advice immediately.

Do not allow children to reach the batteries.

Accidental swallowing of accessories can harm your body.

- If swallowed, seek medical advice immediately.

Remove the empty batteries from the remote control immediately.

- If the empty batteries are left in the remote control, it may cause the batteries fluid to leak, the internal temperature to rise abnormally, or even explode.

Precautions

### ●Power

When disconnecting the power cord, hold the plug and power connector.

If the power cord is pulled, the lead will become damaged and fire, short circuits, or serious electric shocks will result.

When not using the projector for an extended period of time, disconnect the power plug from the wall outlet. Failure to observe this may result in fire or electric shocks.

Turn off the power and disconnect the power plug from the wall outlet before replacing the projector lens.

- Accidental projections may cause eye damage.

- If the projector lens is replaced without disconnecting the power plug, electric shocks will result.

Disconnect the power plug from the wall outlet before cleaning or replacing any components. Electric shocks can result if this is not done..

- On use/installation

Do not place any heavy objects on top of the projector. Otherwise, it may cause the projector to become unstable or fall, and result in personal injury or equipment damage, and the projector will be damaged or deformed.

Do not put your weight on the projector. You could fall or the projector could break, and personal injury will result.

- Do not allow children to stand or sit on the projector.

Do not place the projector in extremely hot locations. Doing so will cause the outer casing or internal components to deteriorate, or result in fire.

- Take particular care in locations exposed to direct sunlight or near electric heater accessories.

When moving the lens, do not put your hand into the opening next to the optical lens.

Doing so may result in injury.

Do not place the projector in locations that may be affected by salt or corrosive gases.

Failure to observe this may result in falling due to corrosion. In addition, corrosion can also cause failure.

When using the projector, do not stand in front of the lens. Doing so may cause damage and burn clothes.

- The projector lens emits strong light.

When using the projector, do not place objects in front of the lens. Do not place objects in front of the projector lens to avoid blocking the projection. Failure to observe this may result in fire or object damage and may cause projector failure.

- The projector lens emits strong light.

Unplug all cables from the projector before moving the projector. Moving the projector without unplugging the cables may damage the cables, thus resulting in fire or electric shocks.

When installing the projector on the ceiling, do not allow the mounting screws and power cord to come into contact with the metal components inside the ceiling. Contact with metal components inside the ceiling may result in electric shocks.

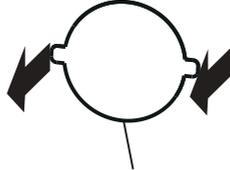
- **Accessories**

When not using the projector for an extended period of time, remove the batteries from the remote control. Failure to observe this will cause the batteries to leak, overheat, catch fire or explode, which may result in fire or contamination of the surrounding area.

### Lens protection material

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To protect the projector lens from vibration during handling, the lens protection material has been covered to the product at the time of purchase. Remove the lens protection material before use and save it for future use. Move the lens to its original position and cover it with the lens protection material when handling.



Lens protection material

### Handling precautions

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- When handling the projector, hold the bottom of the projector to avoid excessive vibration and impact. This can damage internal components and result in malfunctions.
- When handling the projector, the front leg adjusters should be retracted, otherwise the front leg adjusters may be damaged.

### Safety Precautions

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- Do not set up the projector outdoors. The projector is designed for indoor use only.
- Avoid setting up the projector in the following places.
  - Places which are subject to vibration and shocks: For example, in a vehicle such as a car. Failure to observe this may damage internal parts or cause equipment failure.
  - Places close to the sea or where corrosive gases may be present. The projector may malfunction due to corrosion and the component life may be shortened, resulting in malfunctions.
  - Places near the air conditioning exhaust vent: Depending on the conditions of use, the image may be affected by the high temperature air discharged from the exhaust vent or the hot and cold air discharged from the air conditioner, and rare jitter occurs. Make sure that the exhaust from the projector or other equipment or the air from the air conditioner do not blow directly into the front of the projector.
  - Places which are subject to sudden temperature changes: For example, near the light source (the lamp). The service life of the light source may be shortened, or the projector may malfunction due to deformation caused by hot air. The operating ambient temperature of the projector should be followed.
  - Places near high voltage cables or near motors: The projector may be exposed to interference if doing so.
  - Installation work such as installing the projector to the ceiling should be done by a qualified technician or distributor. To ensure the performance and safety of the projector, when installing it to the ceiling or high, it should be done by a qualified technician or distributor.
  - Install the connection cable by a qualified technician or distributor. If the cable transmission characteristics cannot be achieved due to improper installation, image and sound interruption may occur.
  - If there are strong radio waves from radio stations or radios around, the projector may not function properly. If there are any facilities or equipment near the installation location that output strong

## Important safety tips!

radio waves, install the projector away from such radio sources. In addition, you can use a piece of metal foil or a metal conduit that is grounded at both ends to warp the regional network cable connected to the terminal

### ● Lens focus adjustment

The high clarity projector lens is easily affected by the light from the light source, making the focus unstable in the period just after switching on. It is recommended to adjust the lens focus after continuing to project the image for at least 30 minutes.

● Do not install the projector at an elevations 2,700M (8858" ) or higher above sea level.

● Do not use the projector in places where the ambient temperature is above 45°C (113°F). Using the projector in places where the altitude is too high or the operating environment is too hot may shorten the service life of the components or cause equipment failure.

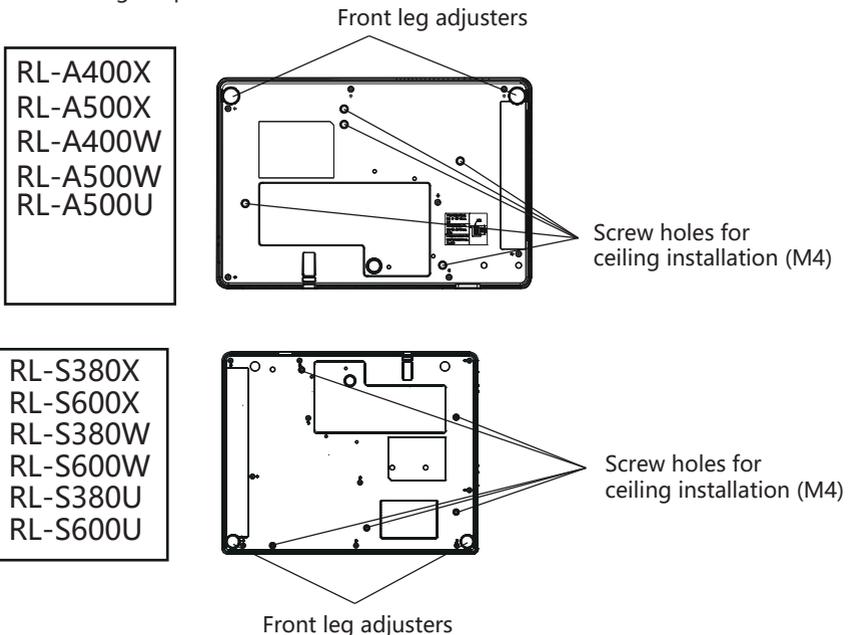
### ● Precautions when installing the projector

● The front leg adjusters are only used to mount on the floor and adjust the angle. Use it for other purposes may damage the projector.

● When installing the projector, use the four screws of the ceiling mount bracket to secure the projector, in addition to floor or ceiling installation with the front leg adjusters.

● (screw diameter: M4, screw hole depth inside the projector: 10mm (15/32' ' ) ,

● Screw locking torque:  $4 \pm 0.5$  N.m.



**Position of screw holes for ceiling installation and front leg adjusters**

## Important safety tips!

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Do not stack multiple projectors.

- Do not use the projector with the top as the support.
- Do not block the projector's ventilation openings (air intake and exhaust ports).
- Avoid blowing hot and cold air from the air conditioning system directly to the ventilation openings (air intake and exhaust ports) of the projector.
- Do not install the projector in a confined space.  
If the projector must be installed in a confined space, air conditioning or ventilation should be installed separately. Accumulated waste heat may trigger the projector's protective circuit when ventilation is poor.
- The company shall not bear any responsibility for any damage to the product due to improper selection of the installation site, even if it is within the effective warranty period.

When using this product, take safety measures for the following events.

- Personal information being leaked via this product.
- Unauthorized operation of this product by a malicious third party.
- Interfering or stopping of this product by a malicious third party.
- Take adequate security measures.
- Try to set a password that is difficult to guess.
- Change the password regularly.
- The company and its affiliates do not directly inquire customers about passwords. Do not say the password when receiving such information.
- The connecting network must be secured by a firewall or other software.
- Set a password for network control and place restrictions on the users who can log in.

### Disposal

When discarding the product, please contact your local authorities or distributor and ask for the correct product disposal method. In addition, do not disassemble this product when discarding it.

### Storage

Store the projector in a dry room.

### Precautions for use

- In order to get the picture quality  
When you create a suitable environment, you can see excellent pictures with higher contrast ratio. Pull down the curtains or blinds and turn off any lights near the screen to prevent outside light or light from indoor lamps from shining onto the screen.
- Do not touch the surface of the projector lens with you bare hand.  
If the surface of the projector lens becomes dirty from fingerprints or anything else, this will be magnified and projected onto the screen.
- LCD panel  
LCD panels are precision-made, but in rare cases, pixels could be missing or always lit.

## Important safety tips!

Please note that these phenomena are not failures.

In addition, when the same image is projected for long periods of time, the afterimage may remain on the LCD panel, in which case the entire white picture may appear for 1 hour or longer. Please note that the afterimage may not disappear completely.

### Optical components

When used in environments with high ambient temperature or large amounts of dust or cigarette smoke, the replacement cycle of optical components such as LCD panels or polarizers may be reduced, even after less than one year of use. For more information, consult your distributor.

### Light source

The light source of this projector is laser.

#### • Computer and external device connection

When connecting a computer or an external device, read this manual carefully for details on the use of the power cord and shielded cable.

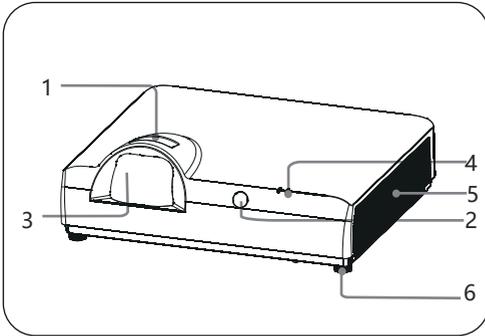
Information on Disposal in other Countries outside the European Union	
 	Such symbols are valid only in the EU. If you wish to discard this product, contact your local authorities or distributor to get the proper disposal method.

## • Restricted substance content indication

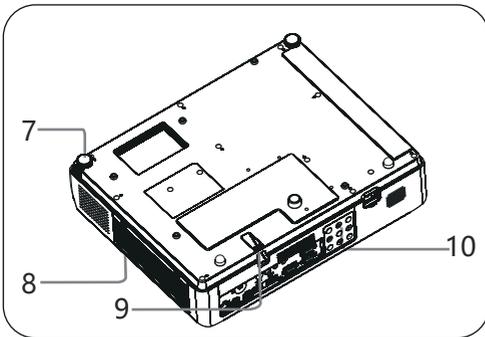
Unit	Restricted substances and their chemical symbols					
	Lead ( Pb )	Mercury ( Hg )	Cadmium ( Cd )	Hexavalent chromium ( Cr <sup>6+</sup> )	Polybrominated biphenyl ( PBB )	Polybrominated diphenyl ether ( PBDE )
Printed circuit board	—	○	○	○	○	○
Projection lens	—	○	○	○	○	○
Projection light source	○	○	○	○	○	○
Enclosure	○	○	○	○	○	○
Mechanical parts	—	○	○	○	○	○
Remote control	○	○	○	○	○	○
Other accessories	○	○	○	○	○	○

Remark 1. “○” only refers to the percentage of the restricted substance not exceeding the percentage content reference value.

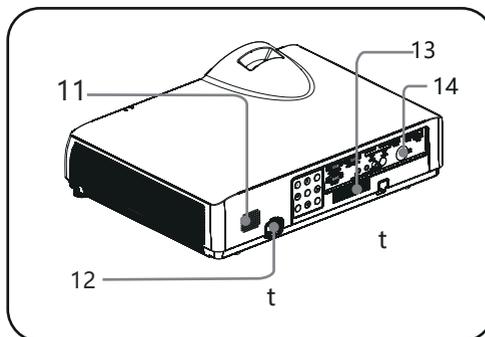
Remark 2. “—” only refers to that the restricted substance is excluded.



- ① Zoom ring  
Focusing ring
- ② Remote control window
- ③ Lens
- ④ Air inlet
- ⑤ Adjustable foot
- ⑥ Air outlet



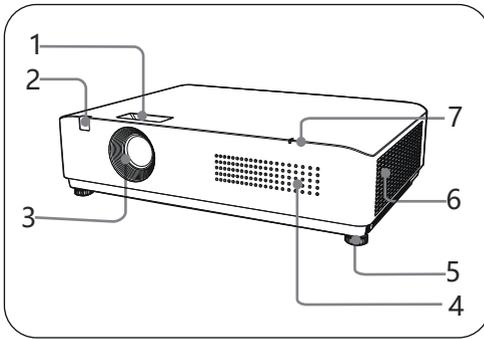
- ⑦ Status indicator
- ⑧ Safety bar
- ⑨ Adjustable foot
- ⑩ Air inlet
- ⑪ Control panel



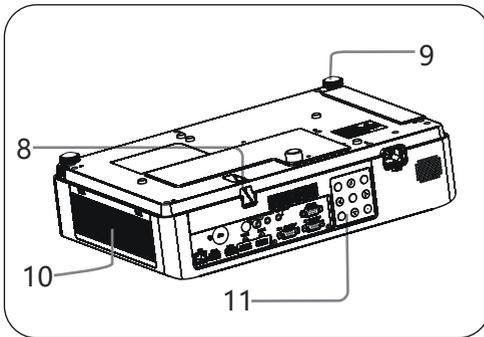
- ⑫ Horn hole
- ⑬ Power socket
- ⑭ Rear remote control window
- ⑮ Safety lock

### Caution

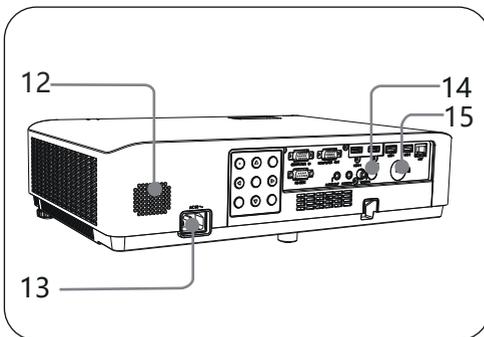
Do not place anything around the vents. Otherwise, it may cause internal heat accumulation. Do not place your hands or deformable items (plastic, etc.) near the vents or around the projector. Otherwise, it may result in damage or personal injury.



- ① Zoom ring  
Focusing ring
- ② Remote control window
- ③ Lens
- ④ Air inlet
- ⑤ Adjustable foot
- ⑥ Air outlet



- ⑦ Status indicator
- ⑧ Safety bar
- ⑨ Adjustable foot
- ⑩ Air inlet
- ⑪ Control panel

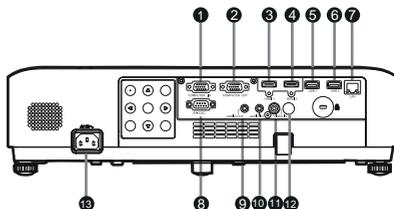
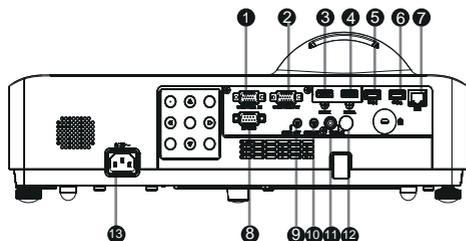


- ⑫ Horn hole
- ⑬ Power socket
- ⑭ Rear remote control window
- ⑮ Safety lock

### Caution

Do not place anything around the vents. Otherwise, it may cause internal heat accumulation. Do not place your hands or deformable items (plastic, etc.) near the vents or around the projector. Otherwise, it may result in damage or personal injury.

## Terminal panel



## ① COMPUTER IN

Connect the computer's RGB output signal to this terminal.

## ② COMPUTER OUT

— This terminal is used to output from the RGB analog signals input from VGA1 to other displays.

## ③ HDMI 1

Connect HDM-compatible video devices and computers.

## ④ HDMI 2

Connect HDM-compatible video devices and computers.

## ⑤ USB 1

When using the "USB Display" function, connect a USB storage device to this terminal.

## ⑥ USB 2

When using the "USB Display" function, connect a USB storage device to this terminal.

## ⑦ LAN

Connect a network cable.

## ⑧ RS-232C

RS-232C compatible control interface. Connect the RS-232C interface of the computer to the RS-232C straight-through cable.

## ⑨ AUDIO OUT

Connect an external audio amplifier to this terminal. This terminal outputs the sound from the AUDIO IN terminal.

## ⑩ AUDIO IN

Connect the audio output connecting the video device to this terminal.

## ⑪ VIDEO IN

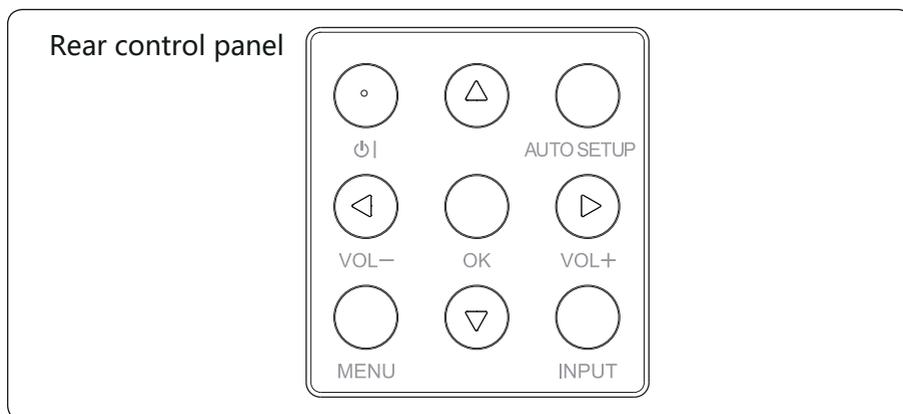
Connect the video output signal or component video output to this terminal.

## ⑫ Remote control signal receiver

Receive remote control signals

## ⑬ AC IN (~) jack

Connect the power cord to this connector.



① I/⏻

Turn the projector on or off.

② ▲▼◀▶/VOL+,VOL-

- Select an item or adjust the data in the on-screen menu.
- Adjust the volume.

③ AUTO SETUP button

Perform various auto settings, including "Input Source Search" .

④ MENU button

Open or close the on-screen menu.

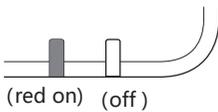
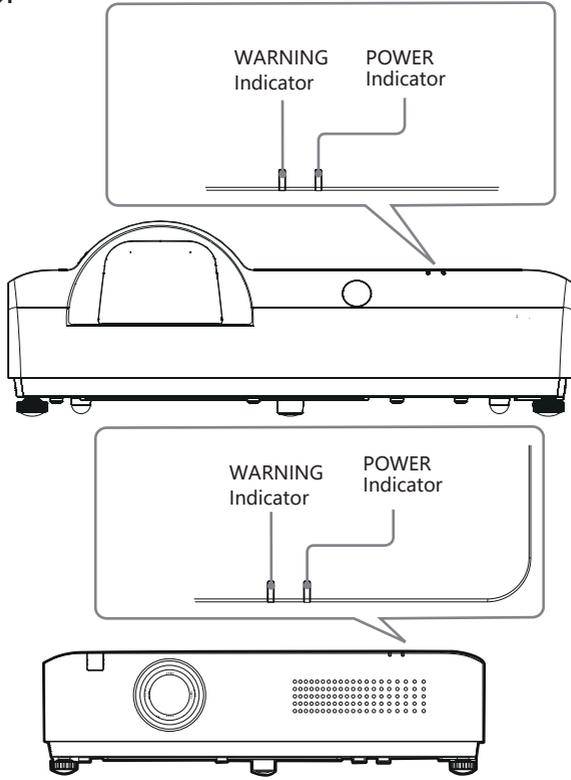
⑤ OK button

- Enter the menu operation.
- Execute the selected item.

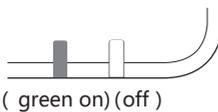
⑥ INPUT button

Select the input source.

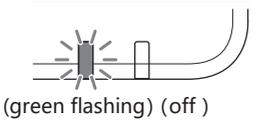
## Indicator



**Standby** The projector is plugged in and in standby mode.

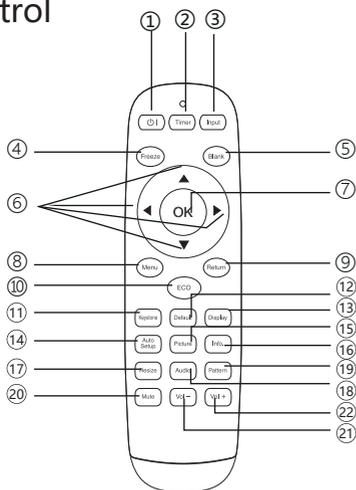


**Power-on state** The projector is ready to project.



**Sleep mode** Enter sleep mode after no signal input for a period of time.

## Remote control



- |   |   |
|---|---|
| <p>① Power button<br/>Turn the projector on or off.</p> <p>② Timer button<br/>Turn the timer on or off.</p> <p>③ Input source button<br/>Enter the input source selection.</p> <p>④ Freeze button<br/>Enter freeze mode.</p> <p>⑤ Black screen button<br/>Enter the black screen mode.</p> <p>⑥ ◀▶▲▼ button<br/>Select an item or adjust the data in the on-screen menu.</p> <p>⑦ OK button<br/>Enter the selected menu or execute the selected adjustment item.</p> <p>⑧ Menu button<br/>Open or close the on-screen menu.</p> | <p>⑨ Exit button<br/>Return to the previous menu.</p> <p>⑩ Energy saving button<br/>Enter the energy saver mode.</p> <p>⑪ Keystone correction button<br/>Perform keystone correction.</p> <p>⑫ Default setup button<br/>Enter the default mode.</p> <p>⑬ Display button<br/>Display the input source information.</p> <p>⑭ Auto setup button<br/>Enter the auto setup.</p> <p>⑮ Image mode button<br/>Select image mode.</p> <p>⑯ Info button<br/>Display the projector information menu.</p> <p>⑰ Aspect ratio button<br/>Select the aspect ratio mode.</p> <p>⑱ Sound mode button<br/>Sound mode selection.</p> <p>⑲ Test pattern button<br/>Enter test image mode.</p> <p>⑳ Mute button<br/>Enter the mute mode.</p> <p>㉑ Volume -<br/>Reduce the volume.</p> <p>㉒ Volume +<br/>Increase the volume.</p> |
|---|---|

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## Remote control operation



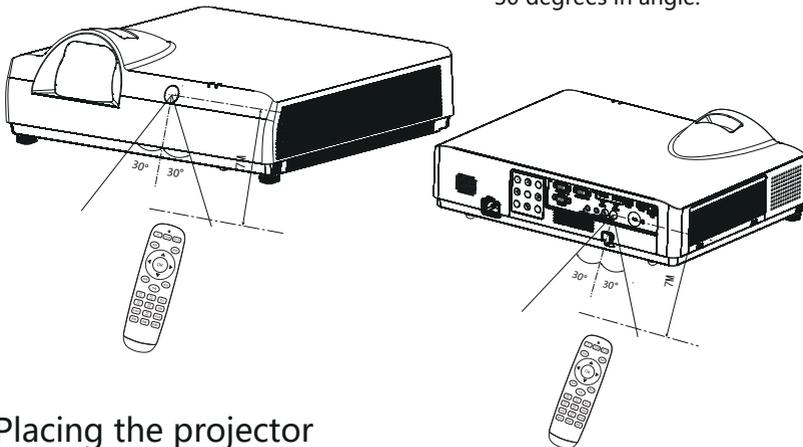
To ensure safe operation, observe the following :

- Use 2 AAA alkaline batteries.
- Replace two batteries at the same time.
- Do not use a new battery and an old battery at the same time.
- Avoid contact with water or other liquids.
- Do not place the remote control in a damp or hot environment.
- Do not drop the remote control.
- If battery fluid leaks in the remote control, carefully clean the battery box and then load a new one.
- There is a danger of explosion if you use a battery other than the one specified in this manual.
- Dispose of used batteries according to the instructions on the battery or local disposal regulations or instructions.
- Insert the battery and make sure that the polarity of the battery matches the (+) and (-) marks in the battery compartment.

## Remote control operating range

When operating, point the remote control at the projector's sensing remote control window (front and back).

The maximum operating range of the remote control is 7 meters in front of and behind the projector and 30 degrees in angle.

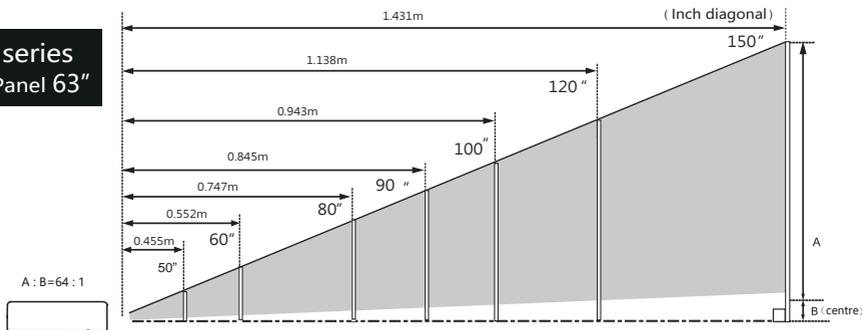


## Placing the projector

- Since the brightness of the room can significantly affect the effect of the projected image, it is recommended to limit the indoor light in order to obtain the best picture.
- The approximate values shown in the figure below may differ from the actual size.

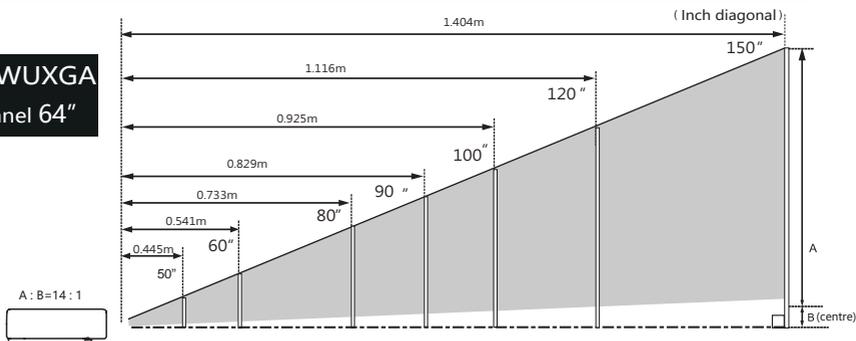
## Throw distance table

**XGA series  
LCD Panel 63"**



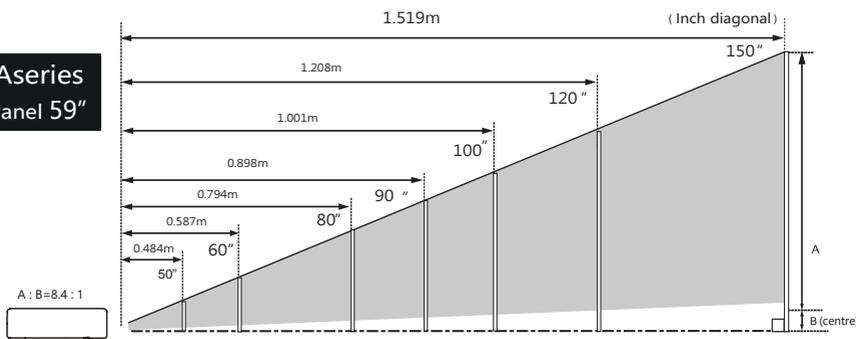
Screen Size (W x H) m	50"	60"	80"	90"	100"	120"	150"
projector distance	0.455 m	0.552 m	0.747 m	0.845 m	0.943 m	1.138 m	1.431 m

**WXGA/WUXGA  
LCD Panel 64"**



Screen Size (W x H) m	50"	60"	80"	90"	100"	120"	150"
projector distance	0.445 m	0.541m	0.733m	0.829m	0.925m	1.116m	1.404m

**WXGAseries  
LCD Panel 59"**



Screen Size (W x H) m	50"	60"	80"	90"	100"	120"	150"
projector distance	0.484 m	0.587m	0.794m	0.898m	1.001m	1.208m	1.519m

## Remote control operation



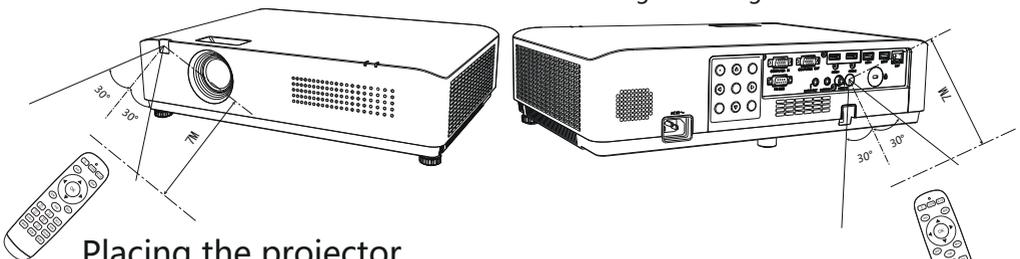
To ensure safe operation, observe the following :

- Use 2 AAA alkaline batteries.
- Replace two batteries at the same time.
- Do not use a new battery and an old battery at the same time.
- Avoid contact with water or other liquids.
- Do not place the remote control in a damp or hot environment.
- Do not drop the remote control.
- If battery fluid leaks in the remote control, carefully clean the battery box and then load a new one.
- There is a danger of explosion if you use a battery other than the one specified in this manual.
- Dispose of used batteries according to the instructions on the battery or local disposal regulations or instructions.
- Insert the battery and make sure that the polarity of the battery matches the (+) and (-) marks in the battery compartment.

## Remote control operating range

When operating, point the remote control at the projector's sensing remote control window (front and back).

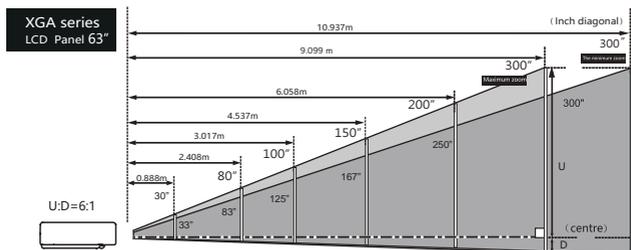
The maximum operating range of the remote control is 7 meters in front of and behind the projector and 30 degrees in angle.



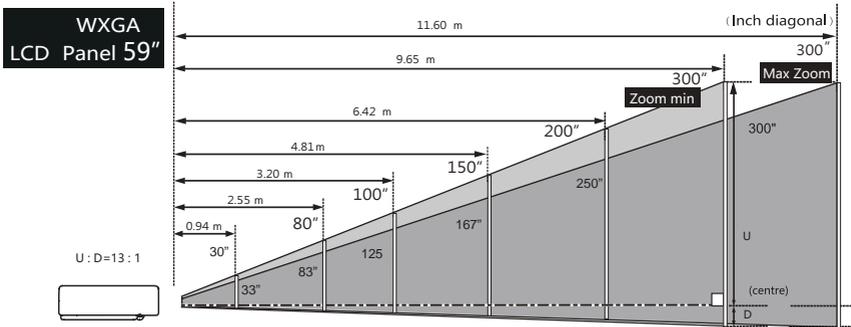
## Placing the projector

- Since the brightness of the room can significantly affect the effect of the projected image, it is recommended to limit the indoor light in order to obtain the best picture.
- The approximate values shown in the figure below may differ from the actual size.

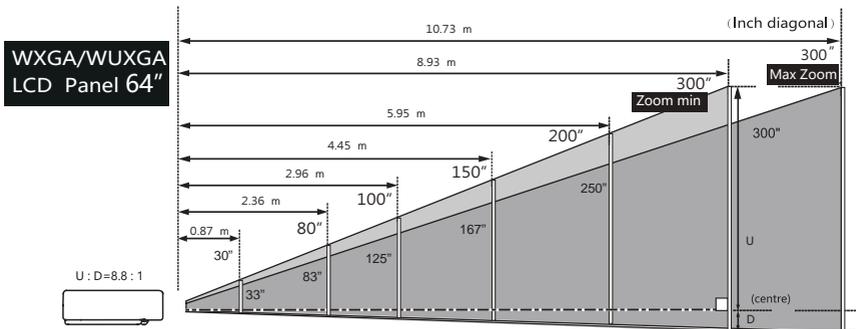
## Throw distance table



Screen Size	30"	80"	100"	150"	200"	300"
(W x H) m	0.609 x 0.457	1.626 x 1.219	2.032 x 1.524	3.048 x 2.286	4.064 x 3.048	6.096 x 4.572
Zoom min	0.89 m	2.41 m	3.02 m	4.54 m	6.06 m	9.10 m
Zoom Max	1.07 m	2.90 m	3.63 m	5.46 m	7.29 m	10.94 m



Screen Size	30"	80"	100"	150"	200"	300"
(W x H) m	0.646 x 0.404	1.723 x 1.077	2.153 x 1.346	3.231 x 2.019	4.308 x 2.692	6.462 x 4.039
Zoom min	0.94 m	2.55 m	3.20 m	4.81 m	6.42 m	9.65 m
Zoom Max	1.14 m	3.07 m	3.85 m	5.79 m	7.72 m	11.60 m

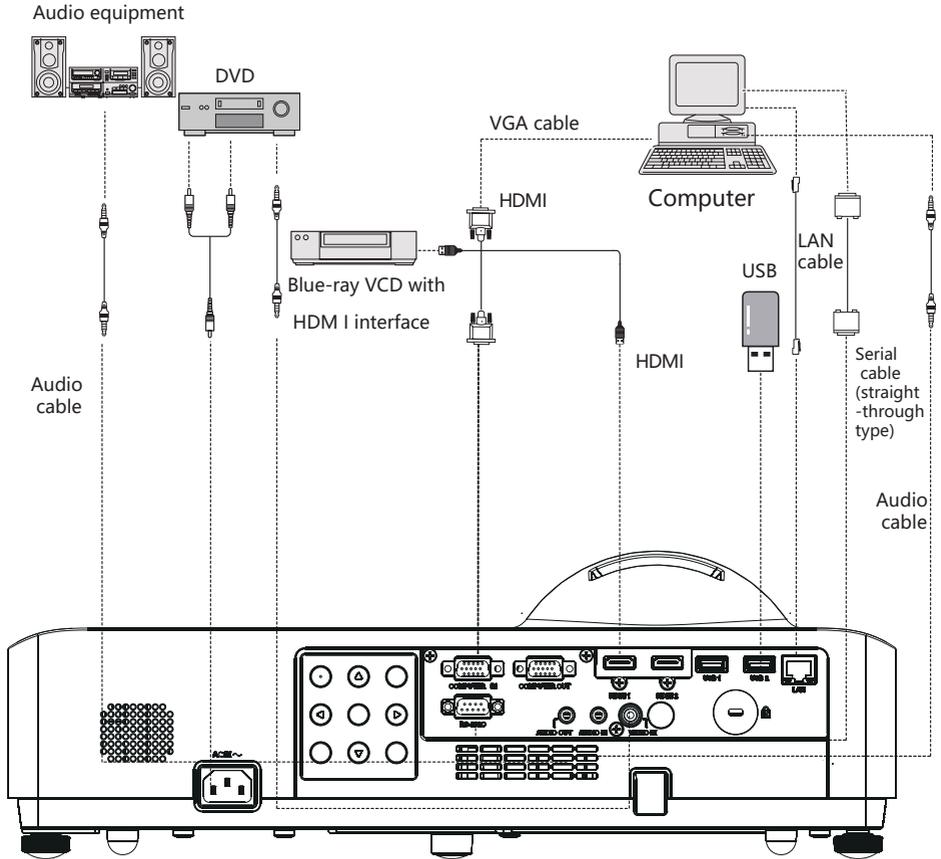


Screen Size	30"	80"	100"	150"	200"	300"
(W x H) m	0.646 x 0.404	1.723 x 1.077	2.153 x 1.346	3.231 x 2.019	4.308 x 2.692	6.462 x 4.039
Zoom min	0.87 m	2.36 m	2.96m	4.45 m	5.95 m	8.93 m
Zoom Max	1.05 m	2.84 m	3.56 m	5.35 m	7.15 m	10.73 m

# Connection

Cable for connection

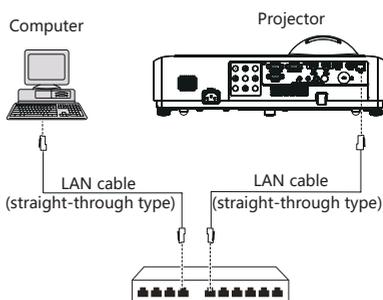
- RS232 serial interface cable\*
  - USB storage device\*
  - HDMI cable\*
- (\*: This projector is not equipped with this cable.)



When connecting the cable, unplug the power cord of the projector and external devices from the power outlet.

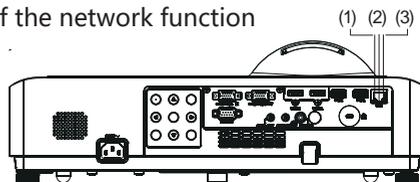
## Network connection

- 1) Equipment: Computer, projector, cable for connection
- 2) Connection steps: Connect the projector to a LAN router or switch with a straight-through or crossover LAN cable. If the projector and computer are connected directly, use the straight-through LAN cable. If they cannot be connected, it is recommended to use a crossover LAN cable.
- 3) The indicator of the LAN interface and computer interface will flash continuously after restarting the computer and the projector is plugged in.



### Names and functions of various parts of the network function

- (1) LAN LINK/ACT indicator (yellow)  
Light up when connected.  
Flash when sending and receiving data.
- (2) <LAN> interface (10 BASE-T/100 BASE-TX)  
Connect the LAN cable.
- (3) LAN 10 /100 indicator (green)  
Light up when connected to 100 BASE-TX



## Caution

- A LAN cable is required for the network function.

## Tips

- When connecting the projector, use a standard network cable. It is recommended to use a Category V cable or a cable with an RJ-45 connector.
- Some network connection issues during setup can be resolved by resetting the router or modem. After connecting the projector to your home network, quickly cut off the power or disconnect the router and modem and then restart.
- When connecting the projector to a wireless router, make sure your router has the wireless function and it has been turned on.
- A 10 BASE-T or 100 BASE-TX port is required to connect the projector, and if your network service does not support it, you will not be able to connect to the projector.
- To connect the projector to a wireless router, verify the router's SSID and security settings. For the corresponding wireless router's SSID and security settings, refer to the user manual.
- When using Ad-Hoc (point-to-point) mode, it may not be able to connect to the appropriate device (such as a laptop).
- The connection methods between different wireless routers are different.

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## Connecting the AC power cord

The projector uses a standard voltage of 100-240V AC power, which automatically adapts to different input voltages. This unit uses a single-phase power system with a neutral grounding

 **Caution:**

The AC power outlet should be close to the projector and easily plugged and unplugged.

Connecting the AC power cord (equipped) to the projector.

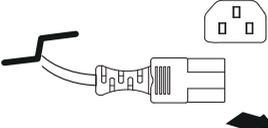
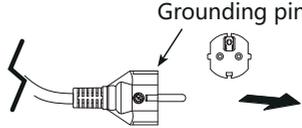
To avoid the risk of electric shocks, do not use any other type of power system. If you are unsure of the type of power supply you are using, consult an authorized dealer or service station. First connect all peripherals before turning on the projector.

✓ **Caution:**

For safety, when not using the projector, unplug the AC power cord. When connecting the projector to an outlet with the AC power cord, the projector is in standby mode and consumes a small amount of power.

### Power cord precautions

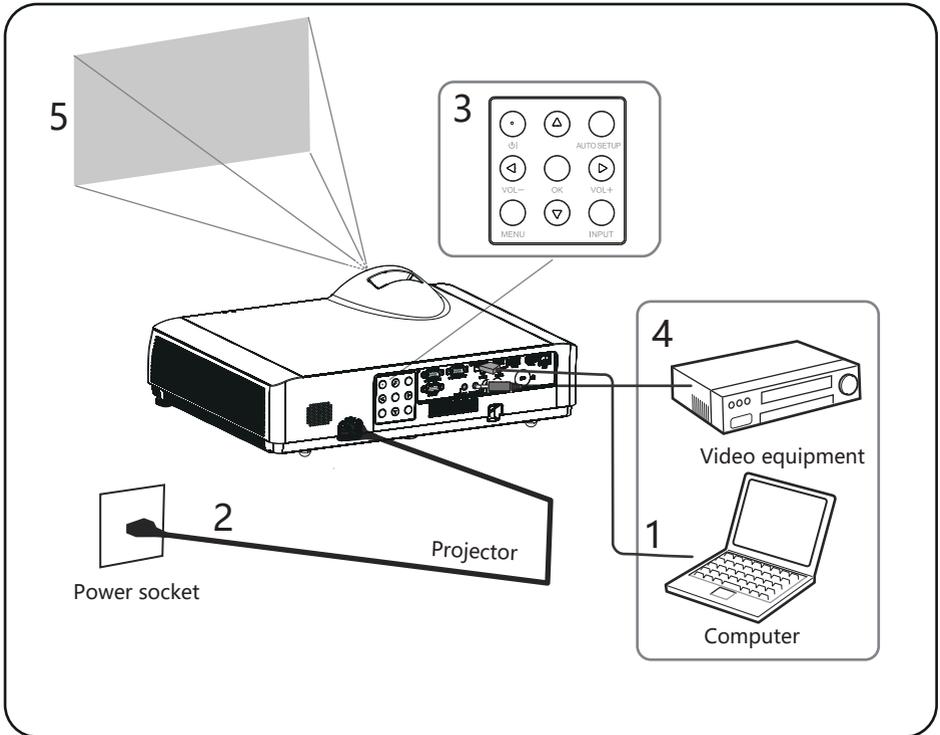
The AC power cord must meet the requirements of the country where the projector is used. Make sure that the AC power plug type is the same as the figure below and that the correct AC power cord must be used. If the provided AC power cord does not match the AC power outlet you are using, contact your distributor.

Projector side	Connect to the AC power socket
 <p data-bbox="165 1161 464 1212">Connecting to the projector's power cord interface</p>	 <p data-bbox="644 1173 996 1200">Connecting to an AC power outlet</p>

✓ **Caution:**

- Using incorrect cables may affect product performance and may even cause electric shocks, fire, etc. To ensure product performance and safety in use, use the same type of cable as the original cable.
- Commonly used connecting cables include AC power cord, audio cables, video cables, and serial interface control cables.

## Turning on the projector



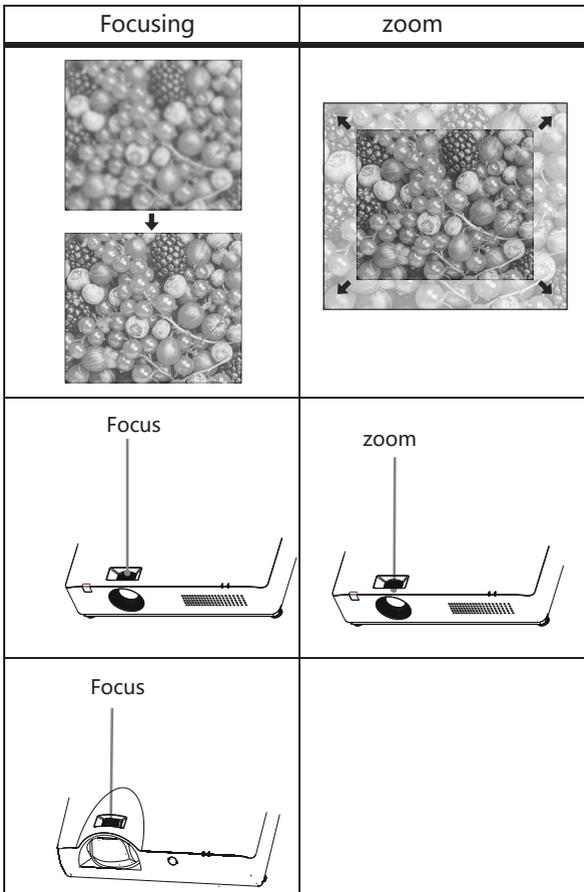
- 1 Before turning on the projector, first complete the connection of the external device.
- 2 Connect the projector's AC power cord to an AC power outlet. The power indicator lights up in red.
- 3 Press the  button to turn on the projector.
- 4 Turn on the connected device.
- 5 Select an input source.  
Press the input selection button INPUT on the projector to display the input source switching menu on the screen. Press the OK button repeatedly to select the device channel you want to project.

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- 
- 6 When projecting a computer image, switch the computer output to an external display. Switching output methods vary depending on the type of computer.

(Example)



- 7 Adjust the focus and size of the projected image



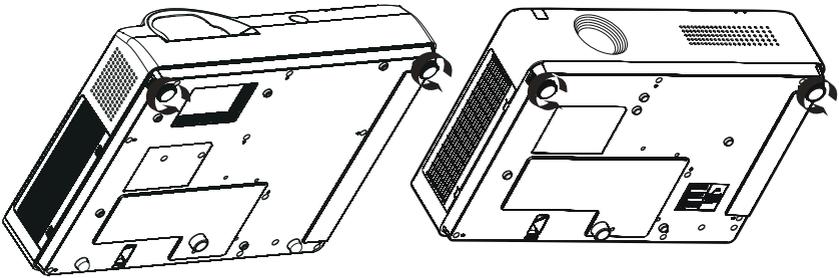


## Caution

- When adjusting the lens shift, do not look directly into the lens.
- When rotating the horizontal lens shift dial, the lens shift may move up and down; when rotating the vertical lens shift dial, the lens shift may move right and left. In this case, use each dial to readjust the lens shift.

## Adjust the tilt of the projector by adjusting the front leg adjusters

Adjust the position of the projected image and change the angle by changing the tilt of the projector with the front leg adjusters.



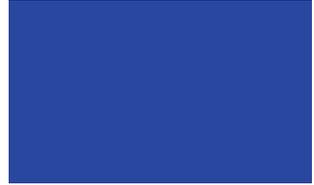
- Place the projector parallel to the screen and install it on a flat surface so that the screen appears as a rectangle.
- If the projector screen is tilted below the actual screen, unfold the front leg adjusters to present a rectangular screen.

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## Turn on the projector

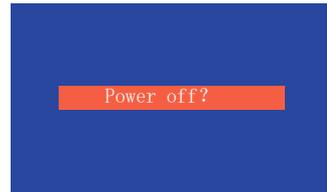
- 1 Please complete the connection of the peripheral device first (with computer and video recorder, etc.) Before turning on the projector
- 2 Connecting the projector's AC power cord to an AC outlet/socket, the power indicator lights up red, and then open the lens cover
- 3 Please press the power button on the rear control panel or remote control, the power indicator lights up green, and the cooling fan starts to work, and the display appears on the screen.



The display disappears after 5 seconds.

## Turn off the projector

Under normal working conditions, press the POWER button of the remote control or the rear control panel, "Power off?" will appear on the screen. Under the OSD display model, if you press the power button again, the projector will be turned off and switch to the standby mode.



"Power off? "

### ✓ Attention:

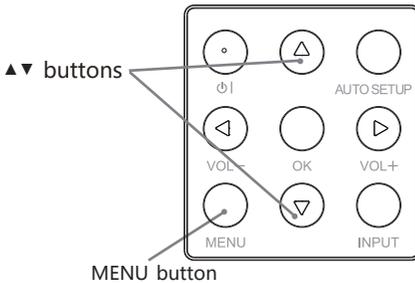
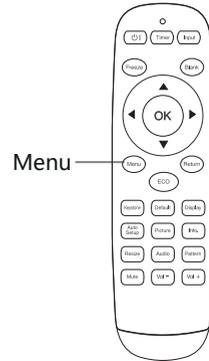
- If you select the "NO" button on boot screen in the menu, the boot screen image will not display on the screen.

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## How to operate the on-screen menu

You can adjust or set up the projector through the on-screen menu. The menu has a multi-layer structure, and each main menu is divided into a number of sub-menus, which are divided into a number of secondary sub-menus. For the steps of each adjustment and setting, refer to the corresponding section of this manual.

Remote control



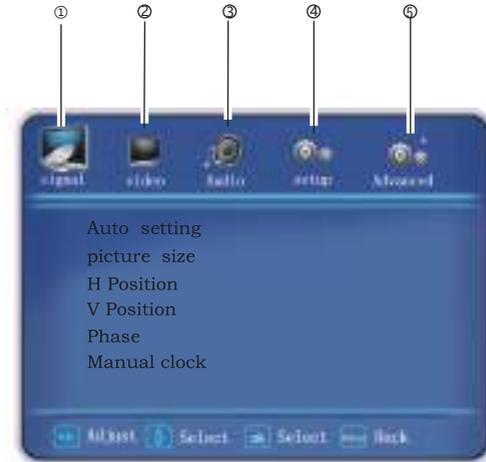
### Menu

- 1 Press the MENU button on the rear control panel, or directly press the menu button on the remote control to display the menu.
- 2 Press ▼ button or ok button to select the desired sub-menu item.
- 3 Press ▲ ▼ ◀ ▶ buttons to adjust the setting or switch between items.
- 4 Press the Menu button to return to the previous level.
- 5 Press the Exit button to exit the menu.



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## Menu bar



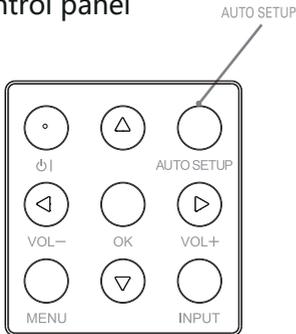
- ① Signal menu  
After VGA signal input, perform auto adjustment, image display mode adjustment, horizontal position, vertical position, phase adjustment, and clock adjustment.
- ② Image menu  
Image mode can be selected as standard, cinema, dynamic, DICOM, color version - red, color version - green, color version - blue, color version - yellow, user.  
Contrast ratio, brightness, saturation, and color temperature can be adjusted in user mode.
- ③ Sound menu  
Used for sound mode selection, adjusting volume or mute.  
Sound mode can be selected as standard, speech, user, music.
- ④ Setup menu  
Used for setting the operation configuration of the projector.
- ⑤ Advanced settings  
Used for network settings and information check.

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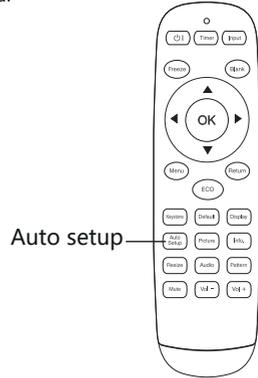
## Auto setup function

This function can automatically execute various settings of "Auto Setup" in the setup menu (including "Input Source Search" ) by simply pressing the "AUTO SETUP" button on the remote control or the "AUTO SETUP" button on the rear control panel.

Rear control panel



Remote control



## Keystone correction

If keystone distortion occurs in the projected image, manually correct the image as follows.

Press the keystone correction button of the remote control and the “Keystone correction” prompt box will appear (including: Keystone correction up and down, keystone correction left and right, four-corner correction, and reset to default settings). Press ▲▼ buttons to switch the item and press the OK button to select. The user can store the adjustment values for the keystone correction.

- When performing four-corner correction, switch to the angle that needs to be adjusted, and the red square icon turns into a red triangle. Press the OK button to change to a green triangle, and then the up and down and left and right corner of keystone can be corrected.
- The arrow is white when there is no correction, and turns to be yellow after correction.
- Press the Exit button or the Menu button to return to the previous level.
- When the keystone correction prompt box is displayed, if the keystone correction button on the remote control is pressed again, the keystone correction adjustment will be canceled.

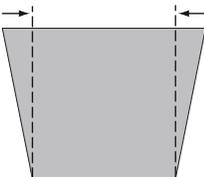


- The adjustable range is limited by the input signal.

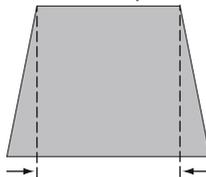
### ✓ Caution:

- The auto keystone correction function can only correct vertical keystone distortion, not horizontal keystone distortion.
- This function does not work when the ceiling function in the setup menu is set to be on.
- The auto setup function does not ensure that the image distortion is completely corrected.
- The total number of points, horizontal and vertical positions of some computers can be adjusted entirely by the auto computer adjustment function. If the image is not correct after this function adjustment, adjust manually.

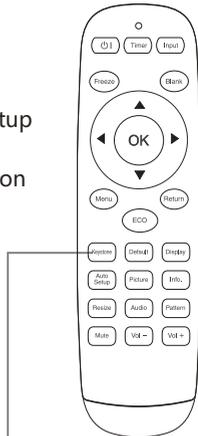
Press ◀ button to decrease the width of the upper part.



Press ▶ button to decrease the width of the lower part.



## Remote control



Keystone correction

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## Volume adjustment

Operate directly, and it is recommended to use the remote control to complete the operation. Press the voice mode button on the remote control to switch between standard, presentation, user, music, etc.

### Volume

Press +/- on the rear control panel or the VOL +/VOL - button on the remote control to adjust the volume.

### Mute

Press the mute button on the remote control to select "On" to temporarily turn off the sound. Press the Mute button again to select "Off" or press the VOL +/- button to re-enable the audio effect. The mute function is also effective for the audio output interface.

### Menu operation

- 1 Press the Menu button on the remote control to display the menu. Press ◀▶ buttons to move the cursor to the sound menu icon.
- 2 Press ▼ button to move the cursor to the following sub-menu item to be selected, then select the sub-menu option.

### Sound mode

Press ◀▶ buttons to switch the sound mode.

### Volume

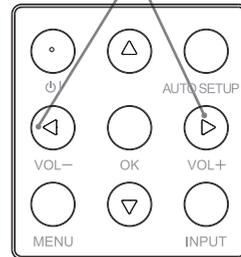
Press ▶ button to increase the volume and press the ◀ button to decrease the volume.

### Mute

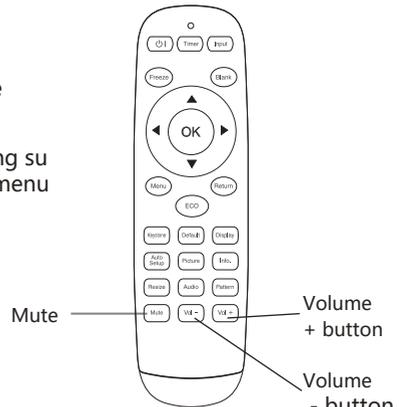
When the sound is turned off after pressing the mute function (on/off), "ON" is displayed. Press the volume +/- button again to turn the sound on.

## Rear control panel

+/-button



## Remote control



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## Remote control operation

For some common operations, it is recommended to use the remote control to operate by pressing one button without the need to call the on-screen menu.

### Freeze button

Press the Freeze button on the remote control to make the screen image still. To release the still function, press the Freeze button or any other button.

### Input source button

Display input source information. Input source information includes video, HDMI1, HDMI2, VGA, USB.

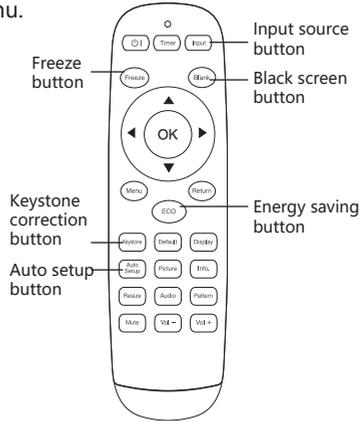
### Auto setup button

Press the Auto Setup button on the remote control to enter the auto search input source mode.

### Energy saving button

Press the energy saving button on the remote control to select the laser mode to change the screen brightness.

- Standard. .... Normal brightness.
- Energy saving 1 ..... Lower brightness.
- Energy saving 2 ..... Minimum brightness



✓ **Caution:**  
For a description of other buttons, see the next page.

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## Black screen button

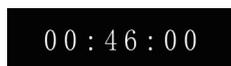
Press the black screen button on the remote control, the picture disappears and a black screen appears. Press the black button again and the picture will return to normal. Each time the black button is pressed, the screen changes as follows:  
Black screen → Normal → Black screen → Normal



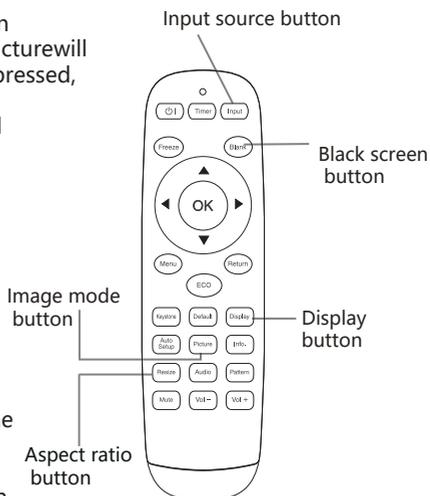
Black screen

## Timer button

Press the timer button on the remote control, the timing display 00:00 appears on the screen, and the timing starts (00:00:00-09:59:59). Press once to display the timing, and press again to pause the timer. Press again to resume the timing; press other buttons to cancel the timing function.



## Remote control



### ✓ Caution:

For a description of other buttons, see the previous page.

## Image mode button

Press the image mode button on the remote control to select the desired image mode.

## Aspect ratio button

Choose 16:9 Screen Size, 4:3 Screen Size, Original, Panorama, Auto, Full Screen, Wide Mode I, Wide Mode II, Normal.

## Display button

Display input channel and resolution information.

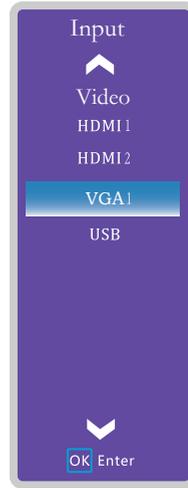
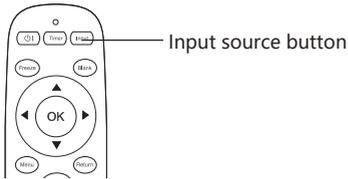
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## Menu operation

Press the input source button on the remote control to display the input source menu. Press ▲▼ buttons to select the input source icon, then press ► button or the OK button to select the input source VGA.

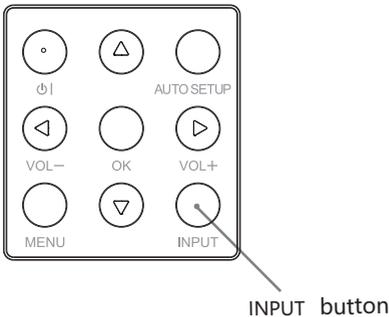
### Remote control



## Direct operation

Select VGA by pressing the INPUT button on the rear control panel or by pressing the input source button on the remote control.

### Rear control panel



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## Auto adjustment

The “Auto Adjustment” function can automatically adjust the horizontal position, vertical position, phase adjustment, and clock adjustment to match your computer.

### Menu operation

- 1 Press the input source button on the remote control, press the ▲▼ button to select the input source VGA icon, and then press ► or the OK button to enter.
- 2 Press the Menu button to enter the menu and press the ◀▶ button to select the signal, then press the ▼ button or the OK button to select the auto adjustment icon, and press the ► button or the OK button to adjust automatically.

### Auto computer adjustment menu



### ● Storage adjustment data

This projector can store data from the auto computer adjustment function

### Horizontal position

The picture position can be moved horizontally if the projected picture position on the screen deviates, provided that the relative position of the projector and the screen are set correctly.

- 1) Press ▲▼ to select [Horizontal position].
- 2) Press the <OK> button.
- 3) Press ▲▼ to adjust the horizontal picture position. Adjustment range is 0 - 255

### Vertical position

Under the premise that the relative position of the projector and the screen is set correctly, if the position of the projected picture on the screen deviates, the picture position can be moved

- 1) Press ▲▼ to select [Vertical position].
- 2) Press the <OK> button.
- 3) Press ▲▼ to adjust the vertical image position. Adjustment range is 0-63.

#### ✓ Caution:

- The horizontal and vertical position of some computers can be adjusted entirely by the auto computer adjustment function. If the image is not correct after this function adjustment, adjust manually.

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## Phase adjustment

When picture jitter or picture contour blurring occurs, adjustments can be made to get the quality picture.

- 1) Press ▲▼ to select [Phase].
- 2) Press the <OK> button.
- 3) Press ▲▼ to adjust the level.

The adjustment range is 0 - +31. Adjust to the status of minimum interference.

## picture size

- 1) Press the aspect ratio button on the remote control to display the image display mode menu.
- 2) Press ► button again to select the image display mode.

The adjustment range is 4:3, 16:9, Original, Panoramic, Automatic, Normal, Full Screen, Widescreen I, Widescreen II.

## Clock adjustment

- 1) Press ▲▼ to select [Clock adjustment].
- 2) Press the <OK> button.
- 3) Press ▲▼ to adjust the level.

The adjustment range is 0 - 255. Adjust to the status of minimum interference.



✓ Caution:

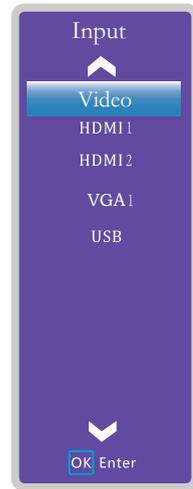
- The horizontal and vertical position of some computers can be adjusted entirely by the auto computer adjustment function. If the image is not correct after this function adjustment, adjust manually.



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## Video system selection

- 1 Press the input source button on the remote control to display the input source menu. Press ▲ ▼ buttons to select the input source icon, then press ► button or the OK button to select the AV input.
- 2 The projector can automatically detect the input video system and adjust itself to its optimum state.



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## Setup

The projector has a “Setup” menu, and you can set other functions as described below.

- 1 Press the Menu button on the remote control to display the menu.  
Press ◀▶ buttons to select the setting,  
then press ◀▶ buttons or the OK button to enter the sub-menu item.
  
- 2 Press the ▲▼ buttons to select the desired item and then  
press the ◀▶ button to enter the selected item.

## Language

The on-screen menu is available in multiple languages.

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## High altitude

The projector provides fan control function in the “Setup” menu. Select the operating speed of the cooling fan according to the following altitude status of the projector.

- Highland 1 ..... Faster than the “Off” mode. When using this projector at high altitudes (600m – 1,300m), the fan cooling effect is reduced. Select this mode.
- Highland 2 ..... Faster than the “Highland 1” mode. When using this projector at higher altitudes (1,300m – 2,500m), the fan cooling effect is even weaker. Select this mode.
- Off ..... Normal speed. When using the projector, set this function to “Off” if the altitude of the surrounding environment is not high.

## Laser mode

This function allows you to change the screen brightness.

- Standard ..... Normal brightness.
- ECO1 ..... Low brightness, reducing power consumption, thus extending laser life.
- ECO2 ..... Lower brightness, reducing power consumption, thus extending laser life.

## Rapid cooling

The operating time of the cooling fan after the projector is turned off.

- Standard ..... After the shutdown, the fan stops operating after running for a long time.
- 10 seconds ..... After the shutdown, the fan stops operating after 10 seconds.
- 0 second ..... After the shutdown, the fan stops operating after 0 second.

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## Keystone correction

Keystone correction up and down.....

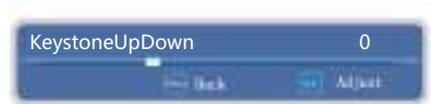
Correct in the vertical direction.

Keystone correction left and right .....

Correct in the horizontal direction.

Four-corner correction ..... Correct the four corners.

Reset to default settings..... Cancel the horizontal, vertical, and four-corner correction settings and restore to the original state.



## Projection mode

Front projection ..... Projecting to the front projection screen.

Rear projection ..... Projecting to the rear projection screen.

Front ceiling projection ..... Projecting to the front projection screen after the projector is lifted to the ceiling.

Rear ceiling projection ..... Projecting to the rear projection screen after the projector is lifted to the ceiling.

Auto... Automatically set the projection or ceiling projection.

## Blue screen

The background of the screen when setting no signal input.

Blue ..... The background of the screen is blue when there is no signal input.

Black ..... The background of the screen is black when there is no signal input.

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## Startup screen

The startup screen uses the default as the startup screen.

No... No startup screen.

Default ..... Display the background color of the screen.

## Sleep mode

Off... Sleep mode is off.

5 minutes ..... When there is no signal input, the projector enters sleep mode after 5 minutes.

10 minutes ..... When there is no signal input, the projector enters sleep mode after 10 minutes.

15 minutes ..... When there is no signal input, the projector enters sleep mode after 15 minutes.

20 minutes ..... When there is no signal input, the projector enters sleep mode after 20 minutes.

25 minutes ..... When there is no signal input, the projector enters sleep mode after 25 minutes.

30 minutes ..... When there is no signal input, the projector enters sleep mode after 30 minutes.

#Input the signal again or press any button of the remote control (except the power button), and then the projector will exit the sleep mode.

## Body button board lock

Off ..... The button board is not locked.

On .....The button board is locked.

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## Remote control lock

Off ..... The remote control is not locked.

On ..... The remote control is locked.

## AC direct startup

On ..... Plug in the power and turn it on directly.

Off ..... Plug in the power and the startup function is turned off.

## Standby mode

This function can be used when operating the projector by the network in standby mode.

Normal ..... Power is still supplied to the network function even after the projector is turned off.

You can turn on and off the projector by the network and change the network environment.

Low power consumption ..... Select the economic mode when not using the projector by the network. When the projector is turned off, its network function stops.

## Test pattern

Display the built-in test image of the projector.

1) Press ▲▼ to select [Test pattern].

2) Press the <OK> button.

3) Press ▲▼ to switch items.

4) Press the <OK> button.

Grayscale 1 / Grayscale 2 / Grayscale 3 / Grayscale 4 / Color Bar / Red / Green / Blue / Grid / White / Black / Gray: Use the menu screen to display the test pattern. Select the test mode to make various adjustments easily.

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## Auto setup

Input source search, auto keystone correction, and auto computer adjustment can be performed by pressing the AUTO SETUP button on the top control panel or the Auto Setup button on the remote control. These function settings can be converted as follows:

### Input Source Search

This function automatically detects the input signal. Stop searching when the signal is found, press ◀▶ buttons to select one of the following options:

Off..... Does not use the input source search function.

On..... Start the input source search function under the following conditions:

- Press the AUTO SETUP button on the top control panel.
- Press the Auto Setup button on the remote control.

✱ If no display or still function is performed, cancel it to perform an input source search. This function is invalid when the on-screen menu is displayed.

## Auto computer adjustment

On.... Press the auto configuration in the menu settings to set the Input Source Search to On and the Auto Computer Adjustment function can be turned on immediately.

Off..... Cancel auto computer adjustment.

## Auto keystone correction

Auto ..... Press the auto setup in the menu settings, Set auto vertical, keystone adjustment to Auto and the auto keystone correction function is turned on immediately.

Manual input ..... Cancel the auto keystone correction and enter the manual mode.

Off ..... Disable the auto keystone correction function.



## Caution

- Only the last selected input source can be checked.
- If you press the INPUT button on the top control panel or the input source button on the remote control while searching for an input source, the input source search will stop and return to the last used input signal.
- The auto keystone correction function does not work when the ceiling function in the setup menu is set to be On.
- The auto keystone correction function can only correct vertical keystone distortion, not horizontal keystone distortion.
- The auto setup function does not ensure that the image distortion is completely corrected. Press the keystone correction on the remote control or select the keystone correction in the setup menu to make manual adjustments.
- The horizontal and vertical position of some computers can be adjusted entirely by the auto computer adjustment function. If the image is not correct after this function adjustment, adjust manually.

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## Network control use

Function: This function is applicable to remote control of the projector by a computer in a LAN.

### Preparation stage

- 1 Required equipment: Projector, computer, network cable;
- 2 Connection process: Connect the projector to a router or switch in the LAN with a straight-through or crossover cable. If the projector and computer are directly connected and the connection cannot be achieved using a straight-through cable, it is recommended to use a crossover cable.
- 3 The indicator of the LAN interface and computer interface will flash continuously after the computer boots up and the projector is plugged in.

### Steps for usage

1 Turn on the projector.

2 Obtain the network address, set DHCP to "On" , and get the IP address automatically. (The personnel who are familiar with the network can manually set the IP address by setting DHCP to "Off" .)

3 Enter network menu settings

(1) Press the MENU button on the remote control or the rear control panel. Press the ▲▼ buttons to select the network icon



(2) Press the <OK> button or press the ▲▼button to enter the network menu.

(3) Press the ▲▼ buttons to select network settings, then press the <OK> button.

(4) Press the ▲▼ buttons to set DHCP to "On" , then press the <OK> button.

(5) Press the ▲▼ buttons to select [OK], press the Select button, and the [Please wait...] picture appears, and wait for it to disappear.

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## Security password

Enter the password to enter the security password settings.  
The factory default password is "0000" .

## On Startup password lock

Off.....Not locked.

On..... Each time the projector is turned on, you will need to enter your password.

## Change Password

You can change the password to the four digit number you want. Press the OK button, select the password change prompt box, then press the ▲▼ buttons to enter the correct password and press the OK button to confirm. After entering the "New Password" , enter the password again to confirm. After the passwords match, the new password is set successfully. A new password is required for powering off and starting up as well as entering a security password setting.

## Password memo

Write the password in the table below and safe keep it with this manual. If you have forgotten or lost the password and cannot operate the projector, contact a service center.

### Password setting

--	--	--	--

Factory setting number 0000

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Factory setting number 0000

\* If this four digit number is changed, the factory setting number will be invalid.

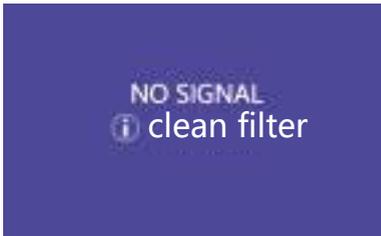
## Reset to default settings

In addition to the user startup screen, password lock, and startup screen password lock, this function can reset all settings to the factory settings.

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■ Please clean the filter or replace the filter components under the following condition

- When displaying the change information.
- Cleaning cycle shows full 500 hours.
- The internal temperature of the projector rises due to blockage, and the warning indicator lights up constantly, causing the projector to turn off.

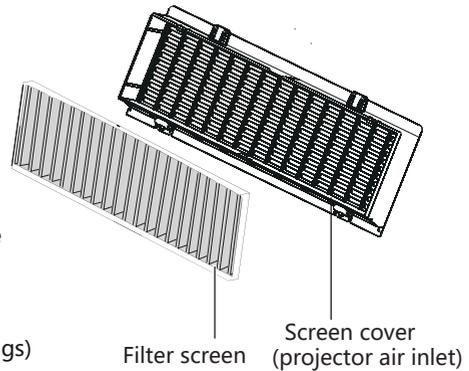
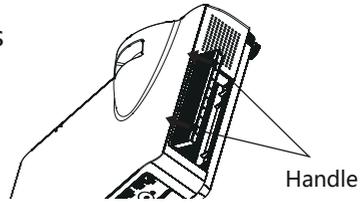


### Attention

- Please install the filter properly, if you are using the projector without a filter installed, the projector maybe damaged by dirt or dust
- If the filter is damaged and the dirt still exists even after cleaning the filter, you should be replacea new filter.

## ■ Replacement of the filter components

- 1) Turn off the projector and unplug the AC power cord from the power socket
- 2) Removing the dust from the projector surface and around the suction hole
- 3) Removing the filter components
  - Pull the Electrostatic dustproof net upwards in the direction of the arrow, and take out the filter components.
- 4) Removing the filter
  - Removing the filter from the filter cover
  - After removing the filter, please eliminate the garbage and dust from the filter storage room and projector air intake vent
- 5) Reinstall a new filter
  - Make sure that the filter components are fully loaded into the projector
- 6) Reset the filter count
  - Turn on the power, in the Execute of the (Filter Counter Reset) in (Advanced Settings) menu



## Attention

- Turn off the power before replacing the filter
- When installing the filter, please make sure that the projector is stable and in a safe working environment to prevent the filter from falling
- After removing the filter components, please do not operate the projector. Otherwise, the dust will adhere to the lens components to damage the image quality
- Do not put small object to the air intake vent, Otherwise, it may cause the projector to malfunction.
- Please use customized filter components to replace
- After replacing the filter, you should reset the filter timer. Otherwise, the power of projector may be turn off to ensure the safety
- Please contact an authorized dealer to purchase the filter components for replacement.

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## Information

Display the model name, serial number, current signal source, signal format, projector usage time and software version, etc.



Model name : Display the model number of the machine

Serial number: Machine series number

Signal source: The input source selected by the projector

resolution

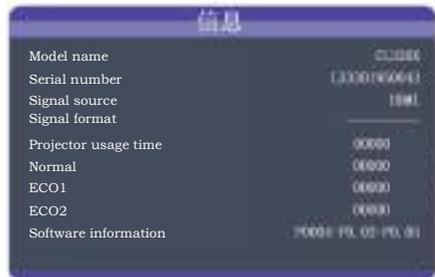
Projector usage time: Usage time

Normal: Normal mode usage time

ECO1: ECO1 mode usage time

ECO2: ECO2 mode usage time

Software information: The projector uses the software information



## USE PJLink Protocol operating projector

This projector is suitable for PJLink 1 Class standard.

PJLink The protocol used to control the projector command is shown below.

To control the content		instruct						return
power supply control	off	P	0	W	R	_	0	OK (correct) or ERR (mistake) 3
	on	P	0	W	R	_	1	OK (correct) or ERR (mistake) 3
Power status query		P	0	W	R	_	?	0 : standby mode 1 : Power on 2 : standby mode (refrigeration) 3 : Power on (preheat)
Input list query		I	N	S	T	_	?	"21 32 33 11 41"
The input change	computer	I	N	P	T	_	1 1	OK (correct) or ERR (mistake) 3
	HDMI	I	N	P	T	_	3 2	OK (correct) or ERR (mistake) 3
	DVI	I	N	P	T	_	3 3	OK (correct) or ERR (mistake) 3
	video	I	N	P	T	_	2 1	OK (correct) or ERR (mistake) 3
	USB VIEWER	I	N	P	T	_	4 1	OK (correct) or ERR (mistake) 3
								OK (correct) or ERR (mistake) 3
Input status query		I	N	P	T	_	?	11 : computer 32 : HDMI 33 : DVI 21 : video 41 : USB VIEWER or ERR (mistake) 3
AV Erasure	off	A	V	M	T	_	3 0	OK (correct) or ERR (mistake) 3
	on	A	V	M	T	_	3 1	OK (correct) or ERR (mistake) 3
AV Mute status query		A	V	M	T	_	?	30 : off 31 : on or ERR (mistake) 3
The light bulb query		L	A	M	P	_	?	Number 1: light source usage time (hours) Second number: 0: light source off 1: light source on
Error status query		E	R	S	T	_	?	First byte: fan error state Second byte: light source error state Third byte: temperature error state Byte 4: unused, returns 0 Byte 5: unused, returns 0 Byte 6: other error states 0 : No error detected 2 : Error detected
Projector name query		N	A	M	E	_	?	SHARPPJ
Manufacturer name enquiry		I	N	F	1	_	?	SHARP
Product name query		I	N	F	2	_	?	PG-CA60U or PG-CA50U or PG-CA40U PG-CA60W or PG-CA50W or PG-CA40W PG-CA60X or PG-CA52X or PG-CA40X
Other information query		I	N	F	0	_	?	Firmware version
Category information query		C	L	S	S	_	?	1

PJLink Authentication :

In regard to PJLink password

PJLink compatible :

This product conforms to PJLink 1 Class standard that can execute all 1 Class instruction.

For details, please visit <http://pjlink.jbmia.or.jp/english/>

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## USB VIEWER

When the USB memory is inserted into the projector, the USB viewer function can project the pictures in the memory.

### ■ USB Device compatibility

USB Appliance USB storage( FAT32 , maxi 32GB )

- USB VIEWER(USB The Viewer) The function does not support displaying Chinese fonts. Folder names and filenames show only alphanumeric characters.



- Do not use USB storage accidental storage devices, can cause a failure.
- Do not use USB hub, USB memory should be directly connected to the projector.
- USB1.1 USB storage may not start properly.
- USB memory with security may not work properly.
- Do not carry the machine with USB memory.
- USB1.1 USB storage may not start properly. A folder can store up to 500 files or folders.
- The folder name and filename cannot contain the following characters: " \* / : < > ? ¥ |
- Filenames longer than 20 characters will not display properly.
- USB VIEWER The function does not support displaying Chinese fonts.
- Folder names and filenames show only alphanumeric characters.

### ■ USB VIEWER features projectable content.

USB VIEWER Features support the following image files.

	Expanded-name	Description	
picture	JPG/JPEG	Baseline code 24 bits	Line by line RGB 24 bits : 5000x5000
		Line by line RGB 24 bits	Line by line RGB 24 bits : 4096x4096
	BMP PNG		Line by line RGB 24 bits : 4096x4096

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## Images broadcast



The picture playback control button is as follows:

-  Play/pause
-  Switch to the previous image
-  Switch to the next image
-  Rotating images.
-  Image resolution
-  Top to bottom
-  Directory play
-  5 second

Play/pause:

Select the play button, press OK to pause, then press continue to play,  
Press ok to pause and loop.

Switch to the previous image:

The left button of the remote control panel selects the button to switch the previous picture, and then switch the picture.

Switch to the next image:

Right click on the control panel of the remote control to select the next picture button, and then switch pictures

Rotating images:

Remote ▲ control key control panel 

Press the key ▲ once and it will rotate clockwise 90 degrees.

Image resolution:

Display image resolution

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## Image Playing



The image playing methods:

Remote control ▼ button on the control panel, and then please rotate the picture playback mode.

Optional: playing the image from top to bottom, bottom to top, left to right, right to left, top left to bottom right, top right to bottom left, bottom left to top right, bottom right to top left, and expanding the image from center to up and down, center to left and right, up and down to center, left and right to center, changing and dissolving the image from surrounding to center, which without using enter into image effect

Playlist:

Remote control (Freeze) button on the control panel, and then select to playing the content.

Optional: playlist, unordered play, shuffle, Single play, repeat once, repeat playlist

The duration time of image play:

Remote control (Timer) button on the control panel, and then selecting the duration time of image play

Optional: 5 seconds, 10 seconds, 20 seconds.

✓ Notes:

- There is no guarantee that all USB devices will be correctly identified and used.

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## USB Video play

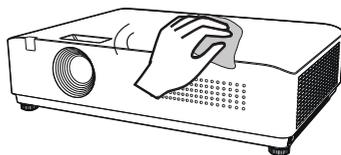
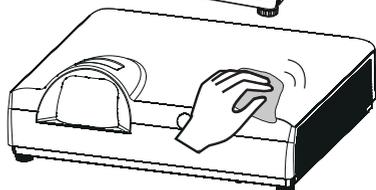
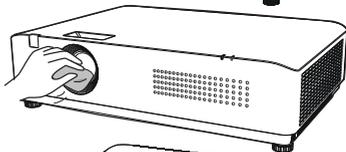
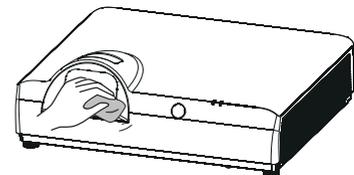
- 1 Please Press the input signal button on the remote control to display the input source menu. According to indicate icon ▲▼ indicate button to select input source (as picture show), and then press ► indicate button and OK button to choose USB input.
- 2 Please enter the USB document file, select video, and then play it.



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## Cleaning the projector lens

Unplug the AC power cord before cleaning. Apply a non-abrasive lens cleaner to a clean cloth, then gently wipe the lens or use a lens cleaning paper or commercial hair dryer to clean the lens. Avoid using too much cleanser. Abrasive cleaner, solvent or other crude chemicals can scratch the lens.



## Cleaning the projector enclosure

Unplug the AC power cord before cleaning. Gently wipe the surface of the projector with a soft, clean cloth. When it is severely dirty, apply a small amount of neutral detergent to a soft, clean cloth and wipe gently. Avoid using too much cleanser. Abrasive cleaners, solvents or other crude chemicals can scratch the surface of the case.

When not using the projector, put the projector in a carrying case to avoid dust accumulation or scratches.

The filter is used to prevent dust accumulation on the surface of the projector's internal lens components. If the filter is blocked by dust, etc., it will reduce the effectiveness of cooling fans. Therefore, resulting in heat accumulation inside projector and shortening the service life of the projector. If there is the "Clean Filter" icon appears on the screen, please clean the filter or replace the filter immediately.

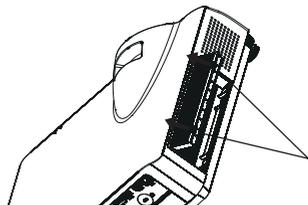
Please clean the filter according the following steps:

1. Turn off the projector and unplug the AC power cord from the power socket

2. Flip the projector and removing the filter.

3. Cleaning the filter with a brush

4. Reinstall the filter



## Specification parameters

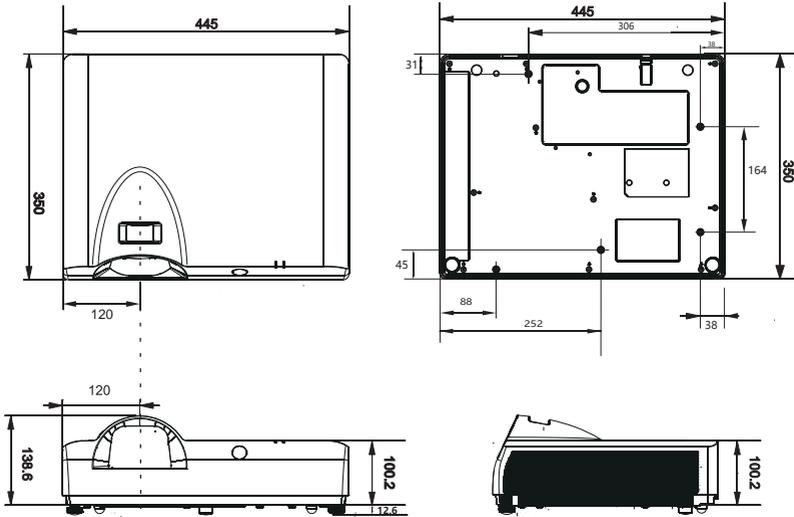
Model		RL-A400X	RL-A500X	RL-A400W	RL-A500W	RL-A500U	
Display technology		Liquid Crystal Display					
LCD panel		3x0.63" (4:3)		3x0.59" (16:10)	3x0.64" (16:10)		
Brightness		4000 lm	5000 lm	4000 lm	5000 lm	5000 lm	
Resolution		XGA (1024x768)		WXGA (1280x800)		WUXGA (1920x1200)	
Contrast ratio		500000:1					
Picture uniformity		≥ 90%					
Lens		F1.6~1.76, f=19.158~23.018mm, 1.2 Zoom ratio					
Projector size		30" -300"					
Projection distance		0.88m~10.9m					
Projection length ratio		1.48~1.78			1.37~1.65		
Aspect ratio		4:3( compatible with 16:9)		16:10(compatible with 4:3)			
Service life of light source		Normal mode: 20,000h, Economic mode: 25000h					
Digital keystone correction		Vertical: ±40° (auto + manual), Horizontal: ±15° (manual)					
Input interface	Computer	VGA (D-sub 15pin) ×1					
	Computer sound effect	Audio in: mini jack ×1 (3.5mm)					
	Video	HDMI ×2, Video ×1 (RCA)					
	Other interface	USB ×2					
Output Interface		VGA (D-sub 15pin) ×1, Audio out (Mini-jack) ×1 (3.5mm)					
Control interface		RS232C (D-sub 9pin) ×1, RJ-45 ×1 (Control)					
Computer signal		PC-VGA,SVGA,XGA,SXGA,WXGA,WUXGA,MXGA,MSXGA,WSXGA+,UXGA / Mac					
Video input signal		PAL,SECAM,NTSC(480i,480p,565p,576i,576p,720p,1080i,1080p)					
Scanning frequency		Horizontal: 15~90kHz, vertical: 24-85Hz					
Noise		Normal mode: 35db Economic model: 28db					
Projection mode		Front/rear projection; desktop/lifting					
Horn		10W×1					
Weight		5.5 kg					
Size(length×height×width)		420×100×280mm(without protruding parts)					
Power supply		100~240V AC (50/60Hz)					
Power consumption of the overall unit		275W				285W	
Standby power consumption		≤ 0.3W					
Operating/storage humidity		Operating temperature: 0°C~40°C Storage humidity: 20%~80°C (no condensation)					
Standard equipment		Chinese remote control, power cord, quick start card, certificate of quality, warranty card					
Function		<ul style="list-style-type: none"> <li>◆ Be equipped with the vertical and horizontal keystone correction, four-corner correction function</li> <li>◆ Support horizontal and vertical 360° rotation installation</li> <li>◆ Multiple image mode selection, support DICOM analog mode</li> <li>◆ USB direct reading picture and video function</li> <li>◆ Fast startup and shutdown function, power-off protection function</li> <li>◆ Support screen freeze, one-button black screen function</li> </ul>			<ul style="list-style-type: none"> <li>◆ Password lock and anti-theft function</li> <li>◆ Auto screen flip function</li> <li>◆ Support Crestron, PJ-Link, AMX multiple</li> <li>◆ High altitude mode</li> <li>◆ Support picture freeze</li> <li>◆ Built-in test pattern, with black board, green board, etc., and other multiple color image modes</li> </ul>		

## Specification parameters

Model	RL-S380X	RL-S600X	RL-S380W	RL-S600W	RL-S380U	RL-S600U
Display technology	Liquid Crystal Display					
LCD panel	3x0.63" (4:3)		3x0.64" (16:10)			
Brightness	4000 lm	5000 lm	4000 lm	5000 lm	4000 lm	5000 lm
Resolution	XGA (1024x768)		WUXGA (1280x800)		WUXGA (1920x1200)	
Contrast ratio	1500000:1					
Picture uniformity	≥90%					
Lens	F1.8, f=6.08					
Projector size	60" -150"					
Projection distance	0.55m~1.40m		0.55m~1.39m			
Projection length ratio	0.46		0.42			
Aspect ratio	4:3 ( compatible with16:9)		16:10 ( compatible with 4:3)			
Service life of light source	Normal mode: 20,000h, Economic mode: 25000h					
Digital keystone correction	Vertical: ±40° (auto + manual), Horizontal: ±15° (manual)					
Input interface	Computer	VGA (D-sub 15pin) ×1				
	Computer sound effect	Audio in: mini jack ×1 (3.5mm)				
	Video	HDMI ×2, Video ×1 (RCA)				
	Other interface	USB ×2				
Output Interface	VGA (D-sub 15pin) ×1, Audio out (Mini-jack) ×1 (3.5mm)					
Control interface	RS232C (D-sub 9pin) ×1, RJ-45 ×1 (Control)					
Computer signal	PC-VGA,SVGA,XGA,SXGA,WXGA,WUXGA,MXGA,MSXGA,WSXGA+,UXGA / Mac					
Video input signal	PAL,SECAM,NTSC (480i,480p,576i,576p,720p,1080i,1080p)					
Scanning frequency	Horizontal: 15~90kHz, vertical: 24-85Hz					
Noise	Normal mode: 37db Economic model: 29db					
Projection mode	Front/rear projection; desktop/lifting					
Horn	10W×1					
Weight	6.5kg	7.2kg	6.5kg	7.2kg	6.5kg	7.2kg
Size(length×height×width)	445×100×350 mm(without protruding parts)					
Power supply	100~240V AC (50/60Hz)					
Power consumption of the overall unit	275W	335W	275W	335W	275W	345W
Standby power consumption	≤0.3W (economic model)					
Operating/storage humidity	Operating temperature: 0°C~40°C Storage humidity: 20%~80°C (no condensation)					
Standard equipment	Chinese remote control, power cord, quick start card, certificate of quality, warranty card					
Function	<ul style="list-style-type: none"> <li>◆ Be equipped with the vertical and horizontal keystone correction, four-corner correction function</li> <li>◆ Support horizontal and vertical 360° rotation installation</li> <li>◆ Multiple image mode selection, support DICOM analog mode</li> <li>◆ USB direct reading picture and video function</li> <li>◆ Fast startup and shutdown function, power-off protection function</li> <li>◆ Support screen freeze, one-button black screen function</li> </ul>		<ul style="list-style-type: none"> <li>◆ Password lock and anti-theft function</li> <li>◆ Auto screen flip function</li> <li>◆ Support Crestron, PJ-Link, AMX multiple</li> <li>◆ High altitude mode</li> <li>◆ Support picture freeze</li> <li>◆ Built-in test pattern, with black board, green board, etc., and other multiple color image modes</li> </ul>			

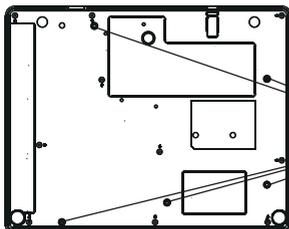
## External size

Unit: mm

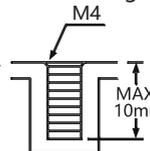


## Safety measures for lifting brackets

- Installation of the lifting bracket should be done by a qualified technician.
- The manufacturer shall not be responsible for the hazards and damage caused by the use of the lifting bracket that is not purchased from the franchisee even during the warranty period.
- Remove the unused lifting bracket immediately.
- Be sure to use a torque screwdriver and follow the instructions.
- For details, refer to the operating instructions.
- The accessories and parts sold separately.
- Make sure that the screws on the ceiling installation assembly do not come into contact with the metal parts (plate metals).

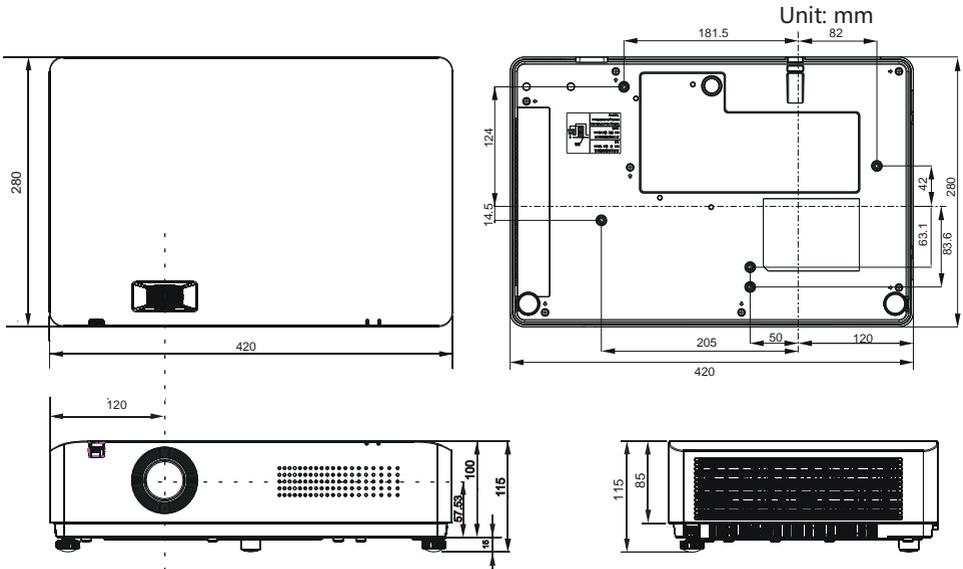


Use a screw with a length of 8mm (minimum) to 10mm (maximum) for ceiling mounting.  
Screw locking torque: (M4)  $4 \pm 0.5$  N.m



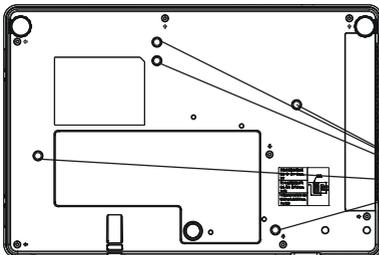
**Ceiling mount hole**

## External size

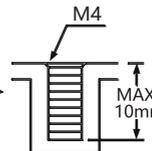


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Use a screw with a length of 8mm (minimum) to 10mm (maximum) for ceiling mounting. Screw locking torque: (M4)  $4 \pm 0.5$  N.m



**Ceiling mount hole**

# Compatible input signal \*1

## Video signal

Specification			
Resolution	H-freq(KHz)	V-freq(Hz)	Pixel clock(MHz)
NTSC	15.734	59.940	13.50
NTSC-443	15.734	59.940	13.50
PAL-M	15.734	59.940	13.50
PAL60	15.734	59.940	13.50
PAL	15.630	50.000	13.50
PAL-N	15.630	50.000	13.50
SECAM	15.630	50.000	13.50

## HDMI and DVI

Specification			
Resolution	H-freq(KHz)	V-freq(Hz)	Pixel clock(MHz)
1440x480i	15.734	59.940	27.000
1440x576i	15.625	50.000	27.000
720x483(480P)	31.469	59.940	27.000
720x576(576P)	31.250	50.000	27.000
1280x720(720/60P)	45.000	60.000	74.250
1280x720(720/60P)	44.955	59.940	74.176
1280x720(720/50P)	37.500	50.000	74.250
1920x1080 i (1080/60)	33.750	60.000	74.250
	33.716	59.940	74.176
1920x1080 i (1080/50)	28.125	50.000	74.250
1920x1080(1080/24P)	27.000	24.000	74.250
	26.973	23.976	74.176
1920x1080(1080/25P)	28.125	25.000	74.250
1920x1080(1080/30P)	33.750	30.000	74.250
	33.716	29.970	74.176
1920x1080(1080/60P)	67.500	60.000	148.500
1920x1080(1080/60P)	67.433	59.940	148.352
1920x1080(1080/50P)	56.250	50.000	148.500
640x480	31.469	59.940	25.175
	35.000	66.667	30.240
	37.861	72.809	31.500
	37.500	75.000	31.500
	43.289	85.008	36.000

Specification			
Resolution	H-freq(KHz)	V-freq(Hz)	Pixel clock(MHz)
800x600	35.156	56.250	36.000
	37.879	60.317	40.000
	48.077	72.188	50.000
	46.875	75.000	49.500
	53.674	85.061	56.250
832x624	49.725	74.550	57.283
1024x768	48.363	60.004	65.000
	56.476	70.069	75.000
	60.023	75.029	78.750
	68.678	84.997	94.500
1152x864	67.500	75.000	108.000
1280x720	45.000	60.000	74.250
1280x768	47.776	59.870	79.500
	60.290	74.890	102.250
	68.630	84.840	117.500
1280x800	49.702	59.810	83.500
	62.795	74.934	106.500
	71.554	84.880	122.500
1280x960	60.000	60.000	108.000
1280x1024	63.981	60.020	108.000
	78.16	71.64	135.060
	79.977	75.025	135.001
	91.150	85.020	157.500
1366x768	47.712	59.790	85.500
	47.720	59.799	84.750
1400x1050	65.317	59.978	121.750
	82.278	74.867	156.000
1440x900	55.935	59.887	106.500
1600x900	60.000	60.000	108.000
1600x1200	75.000	60.000	162.000
1680x1050	65.290	59.954	146.250
1920x1080	67.500	60.000	148.500
1920x1200	74.038	59.950	154.000

## Compatible input signal\*2

### VGA signal

Resolution	Specification		
	H-freq(KHz)	V-freq(Hz)	Pixel clock(MHz)
1440x480i	15.734	59.940	27.000
1440x576i	15.625	50.000	27.000
720x483(480P)	31.469	59.940	27.000
720x576(576P)	31.250	50.000	27.000
1280x720(720/60P)	45.000	60.000	74.250
1280x720(720/60P)	44.955	59.940	74.176
1280x720(720/50P)	37.500	50.000	74.250
1920x1080 i (1080/60i)	33.750	60.000	74.250
1920x1080 i (1080/50i)	33.716	59.940	74.176
1920x1080 i (1080/50i)	28.125	50.000	74.250
1920x1080(1080/24P)	27.000	24.000	74.250
1920x1080(1080/24P)	26.973	23.976	74.176
1920x1080(1080/25P)	28.125	25.000	74.250
1920x1080(1080/30P)	33.750	30.000	74.250
1920x1080(1080/30P)	33.716	29.970	74.176
1920x1080(1080/60P)	67.500	60.000	148.500
1920x1080(1080/60P)	67.433	59.940	148.352
1920x1080(1080/50P)	56.250	50.000	148.500
640x480	31.469	59.940	25.175
	35.000	66.667	30.240
	37.861	72.809	31.500
	37.500	75.000	31.500
	43.269	85.008	36.000

Resolution	Specification		
	H-freq(KHz)	V-freq(Hz)	Pixel clock(MHz)
800x600	35.156	56.250	36.000
	37.879	60.317	40.000
	48.077	72.188	50.000
	46.875	75.000	49.500
	53.674	85.061	56.250
832x624	49.725	74.550	57.283
1024x768	48.363	60.004	65.000
	56.476	70.069	75.000
	60.023	75.029	78.750
	68.678	84.997	94.500
1152x864	67.500	75.000	108.000
1280x720	45.000	60.000	74.250
1280x768	47.776	59.870	79.500
	60.290	74.890	102.250
	68.630	84.840	117.500
1280x800	49.702	59.810	83.500
	62.795	74.934	106.500
	71.554	84.880	122.500
1280x960	60.000	60.000	108.000
1280x1024	63.981	60.020	108.000
	79.977	75.025	135.001
	91.150	85.020	157.500
1366x768	47.712	59.790	85.500
	47.720	59.799	84.750
1400x1050	65.317	59.978	121.750
	82.278	74.867	156.000
1440x900	55.935	59.887	106.500
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1600x1200	75.000	60.000	162.000
1680x1050	65.290	59.954	146.250
1920x1080	67.500	60.000	148.500
1920x1200	74.038	59.950	154.000

### Caution

- When inputting a signal that is not in the table, the image may not be displayed properly.
- When the screen resolution of the input signal is different from that of the panel, the signal will not be displayed at its initial resolution. Text and lines may be distorted.

## Indicator and projector status

Check the indicators to find out the status of the projector.

Indicator		Projector status
POWER Green/red	WARNING Yellow	
		The projector is in "Off" state (the AC power cord
		The projector is in standby mode, press the standby button
		The projector is in the normal on state.
		The projector is cooling or ready to sleep, and the projector will not be turned on until it has cooled down completely and the power indicator has stopped flashing.
		The projector is in sleep state.
—		The yellow indicator of the projector flashes once for 2S, and the fan or color wheel is abnormal.
—		The yellow indicator of the projector flashes twice continuously and then it flashes twice for an interval of 2S, and the light switch is not turned off.
—		The projector temperature is abnormal.

 : Off

 : Red normally on

 : Flashing red

 : Green normally on

 : Green flashing

 : Yellow normally on

 : Yellow flashing

— : It has nothing to do with the status of the indicator.



Order	Options	Order	Options
C18	User	C4C	trellis diagram
C20	INPUT VGA	C52	Mute open
C22	INPUT HD BASET	C53	Mute off
C23	INPUT HDMI	C54	Screen frozen open
C24	INPUT DVI	C55	Screen freeze off
C25	INPUT VIDEO	C56	Automatic search signal adjustment
C26	INPUT USB	C57	volume +
C40	lateral view (blank screen) Exit	C58	volume -
C41	lateral view-red	C8D	KEystone zero
C42	lateral view-green	C8E	KEystone ↓
C43	lateral view -blue	C8F	KEystone ↑
C44	lateral view -white	C93	projective mode : self-motion
C45	lateral view - gray	C94	Lead is cast
C46	test pattern - black (blank screen)	C95	Front hanging cast
C47	colours BAR	C96	The rear is cast
C48	gray scale 1	C97	Lift the rear
C49	gray scale 2		
C4A	gray scale 3		
C4B	gray scale 4		

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## Failure detect

Check the following items again before requesting assistance from your distributor or service center:

Failure	Solution
Power does not turn on	<ul style="list-style-type: none"><li>– Insert the projector's power plug into an AC power outlet</li><li>– Confirm whether the power indicator turns red.</li><li>– Check the warning indicator. If the warning indicator turns orange, you will need to check the indicator, status indication.</li><li>– Do not lock the projector's "Button Lock" function.</li></ul>
The input signal is automatically switched (or not automatically switched)	<ul style="list-style-type: none"><li>– Make sure the input source search function is properly adjusted.</li></ul>
Unclear image	<ul style="list-style-type: none"><li>– Adjust the focal distance of the projector.</li><li>– Provide a suitable throw distance.</li><li>– Check whether the projection lens needs cleaning.</li><li>– Moving the projector from a colder temperature environment to a hotter temperature environment may cause moisture condensation on the projector lens. If this happens, you can turn on the projector until the condensation has disappeared.</li></ul>
The picture flips left/right The picture flips up/down	<ul style="list-style-type: none"><li>– Check the "ceiling/rear" function.</li><li>– Check the "ceiling" function.</li></ul>
The picture is not bright enough	<ul style="list-style-type: none"><li>- Check whether the adjustment of contrast ratio or brightness is appropriate.</li><li>- Check whether the image mode selection is appropriate.</li><li>- Check whether the laser mode selection is appropriate.</li></ul>
No picture	<ul style="list-style-type: none"><li>– Check the connection of your computer or video device to the projector.</li><li>– Check whether the input signal from the computer is correct. When connecting to some laptops, it is often necessary to change the settings of its monitor output. See the computer user manual for settings.</li><li>– The image will be displayed approximately 30 seconds after the projector is turned on.</li><li>– When using the no display function, the image cannot be displayed.</li></ul> <p>Press the black screen button or other button on the remote control.</p>

Color is abnormal	<ul style="list-style-type: none"> <li>– Check the input signal, color system, video system or computer system mode.</li> <li>– Make sure the value of saturation in “Image Mode” is appropriate.</li> </ul>
Auto computer adjustment function is invalid	– Check the input source signal. The auto computer adjustment function is invalid when selecting 480P, 576p, 720p, 480i, 576i, 1080P or 1080i.
Settings cannot be saved after power is turned off	– Make sure that Save is selected after adjusting the settings. Some settings cannot be saved without selecting "Save".
Auto setup does not work properly	<ul style="list-style-type: none"> <li>– Make sure that Off is not selected for all functions of auto setup.</li> <li>– Make sure that the ceiling function is selected as On.</li> </ul>
The picture is distorted or disappears	– Check and adjust the computer adjustment menu or on-screen menu.
A password prompt box appears after startup	– Password lock is set.
The remote control cannot operate	<ul style="list-style-type: none"> <li>– Check the battery.</li> <li>– Make sure that there are no obstacles between the projector and the remote control.</li> <li>– Make sure that the remote control is not too far from the projector. The maximum operating range is 8 meters.</li> <li>– Make sure the remote control code is consistent with the projector code.</li> <li>– Release the button lock of the remote control in the setup menu.</li> </ul>
Indicator Light is on or flashing	– Check the projector status according to the indicator and projector status.
The button board is invalid	– Make sure the button lock in the menu is not turned off.
Cannot unlock startup screen password lock, button lock and password lock	– Contact your distributor or service center.

- Make sure the projector is properly connected to the peripheral device.
- Make sure that all devices are connected to an AC power outlet and that the power is on.
- If the projector cannot project an image of the connected computer, restart the computer.



**Warning:**

This projector is operated under high voltage.

Do not open the case.

If the problem persists after following the above methods, contact your dealer or service center.

Inform the model and explain the problem.

We will tell you how to get repairs.