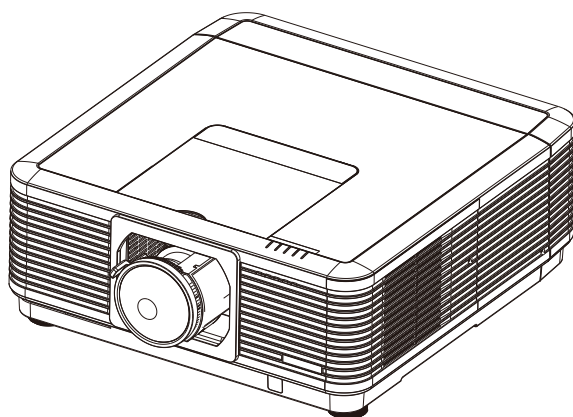




Owner's manual



Multimedia Projector

S1002

S1002P

Features and Design

This Projector is designed with the most advanced technology for durability and ease of use. This projector utilizes built-in multimedia features, a palette of 1.07 billion colors and matrix liquid crystal display (LCD) technology.

Simple Computer System Setting

The projector has the Multi-scan system to conform to almost all computer output signals quickly. Up to 4K resolution can be accepted.

Useful Functions for Presentations

The digital zoom and focus function allows you to focus on the crucial information during a presentation.

-Lens shift feature provides greater installation flexibility.

Brightness Control

Laser control selection allow you to setting the suitable brightness for different usage.

Logo Function

The Logo function allows you to customize the screen logo.

Multilanguage Menu Display

The screen menu of the projector is available in 26 languages: English, German, French, Italian, Spanish, Polish, Swedish, Dutch, Portuguese, Japanese, Simplified Chinese, Traditional Chinese, Korean, Russian, Arabic, Turkish, Finnish, Norwegian, Danish, Indonesian, Hungarian, Czech, Kazakh, Vietnamese, Thai, Farsi.

Maintenance-Free

With long life time laser light source and excellent dust resistant system, there is no need to change the Light source and filter.

Security Function

The Security function helps you to ensure security of the projector. With the Key lock function, you can lock the operation on the control panel or remote control. PIN code lock function prevents unauthorized use of the projector.

LAN Network Function

This projector is loaded with the wired LAN network function. You can operate and manage the projector via network.

Auto Setup Function

This function enables input source search and auto PC adjust by simple pressing the AUTO button on the remote control.

Colorboard Function

At the time of simple projection on the colored wall, you can get the close color image to the color image projected on a white screen by selecting the similar color to the wall color from the preset four colors.

Power Management

The Power management function would reduces power consumption to save the energy.

✓ Note:

- The screen menu and images in the manual may slightly differ from the real product.
- The manual is subject to change without prior notice.

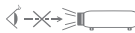
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Safety operation guideline

Safety instructions

This document and your projector employ certain symbols to illustrate how to use your projector safely. They are described below: Please get yourself familiar with them before going through this document.

 Caution	Ignoring messages indicated by this symbol may lead to personal injuries or deaths due to human errors.
 Note	Ignoring messages indicated by this symbol may lead to personal injuries or property damage.
	High voltage inside with risks of electric shock.
	Do not look into the lens while the light source is ON. The strong light from the light source may cause damage to your eyesight. Do not stare into the beam which may be harmful to the eyes.
	Do not place anything in front of the lens while the projector is operating. Things placed in front of the lens may overheat and burn or start a fire. If you want to temporarily stop the projected image, use the Blank key on the remote control.

Please read this manual carefully before installing and operating your projector.

Your projector comes with a lot of convenient features and functions. You may make the most of these features and keep your projector in good working conditions by using it correctly. Invalid operation of your projector may not only shorten its life cycle but also may lead to product failure, fire, or other incidents.

In case of any operation abnormality, refer to this manual to check your operation and connections and try solutions given in the “Troubleshooting” section at end of this manual. If the problem persists, call your dealer or our service center.

	Caution	
	Danger of electric shock DO NOT open this.	
Note: DO NOT remove the casing (or back cover) as it may result in electric shock. Users shall not execute any maintenance work on components within your projector except replacing lamps. Call qualified maintenance personnel in case of any maintenance requirements.		



High voltage inside with risks of electric shock.



Operation and maintenance tips about these components.

Safety operation guideline

Warning:

DONOT leave the projector in the rain or expose it to moisture environment to prevent fire or electric shock.
The proposed plug should not be used in an extension cord outlet or other outlet unless the pin is fully plugged in.



Warning:

This projector is an RG3 product. The projector is for professional use and must be installed in location where safety is assured. For this reason, be sure to consult your dealer as installation and attachment/detachment of the lens unit must be performed by a professional service personnel. Never try to install the projector by yourself. This may result in visual impairment etc.



Caution:

Avoid displaying stationary images for a prolonged period of time.
Doing so can result in these images being temporarily sustained on the surface of the LCD panel.
If this should happen, continue to use your projector. The static background from previous images will disappear..



Caution

Safety precautions:

- GROUND your projector.
- Lens of your projector projects strong light. DO NOT look at the light beam directly. You may get your eyesight hurt. This is especially the case with children.
- Unplug the AC power plug if your projector will not be used for long time.
- DO NOT overload the socket of power cord as it may lead to fire or electric shock. DO NOT subject the power cord to any object. DO NOT place your projector in locations where its power cord may become damaged by treading by passersby.
- Disconnect the power plug before cleaning your projector. DO NOT apply liquid or sprays to your projector. DO NOT wipe your projector with wet cloth.
- Please follow warnings and instructions given in labels attached to your projector. Unplug your projector when your projector is exposed to thunderstorm weather, is unmanned, or not in use for long periods to prevent damage caused by lightning and power surges.
- DO NOT use accessories without recommendation by the manufacturer as it may result in potential risks.

Safety operation guideline

Disposing of your used product



In the European Union

EU-wide legislation as implemented in each Member State requires that used electrical and electronic products carrying the mark (left) must be disposed of separately from normal household waste. This includes projectors and their electrical accessories. When you dispose of such products, please follow the guidance of your local authority and/or ask the shop where you purchased the product.

After collecting the used products, they are reused and recycled in a proper way. This effort will help us reduce the wastes as well as the negative impact to the human health and the environment at the minimum level.

The mark on the electrical and electronic products only applies to the current European Union Member States.

Outside the European Union

If you wish to dispose of used electrical and electronic products outside the European union, please contact your local authority and ask for the correct method of disposal.



For EU:

The crossed-out wheeled bin implies that used batteries should not be put to the general household waste! There is a separate collection system for used batteries, to allow proper treatment and recycling in accordance with legislation.

According the EU directive 2006/66/EC, the battery can't be disposed improperly. The battery shall be separated to collect by local service.

Warning:

This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

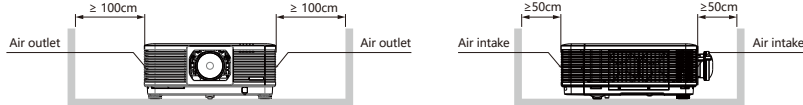
Safety operation guideline



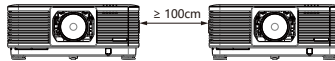
Caution:

Precautions on air outlet / air intake:

- Keep adequate clearance around your projector for its ventilation and cooling. See figure below for the least clearance requirements. The least clearance is a MUST when your projector is placed within a cabinet or other closed environment.



And the clearance between multi projectors MUST be more than 100cm as the following figure.



- DO NOT cover the air outlet of your projector. Poor ventilation not only shorten life cycle of your projector but also may lead to risks.
- Slots and openings at rear and bottom of your projector are designed for ventilation. Keep your projector from overheated to ensure its steady operation.
- DO NOT cover the air outlet with cloth or other objects. DO NOT place your projector on the surface of bed, sofa, carpets, or similar object as this may block the air outlets at its bottom.
- DO NOT place your projector in closed environment, e.g. a bookcase, unless it is well ventilated.
- Keep any matter from falling in your projector through the air outlets as they may touch high voltage parts and lead to fire or electric shock by short circuits. DO NOT splash liquid to your projector.



Note:

Precautions on location of your projector:

- Place your projector in a proper location or it may result in fire.
- DO NOT expose your projector in rain or high humidity environments or it may result in fire or electric shock. DO NOT place your projector near water or splashing water. DO NOT place any water container, e.g. flower vase, atop your projector.
- DO NOT place your projector in environments of soot, moisture or smoke, e.g. your kitchen, or it may lead to product failure or accidents. Your projector may be damaged by contact with oil or chemicals.
- DO NOT place your projector near exhaust pipe or air conditioning equipment.
- DO NOT place your projector near radiator or heating pipes.
- DO NOT place your projector atop unstable truck, rack, or table. It may fall of the surface and lead to personal injuries and property damages. Please use cart or rack recommended by the manufacturer or included with your product. Please follow steps given in installation guideline included with the wall and ceiling mount racks for installation. Use installation components approved by the manufacturer.
- Be careful when moving your projector with cart. Abrupt stops, pushing too hard and rugged surfaces may topple your projector and the cart together.

Safety operation guideline

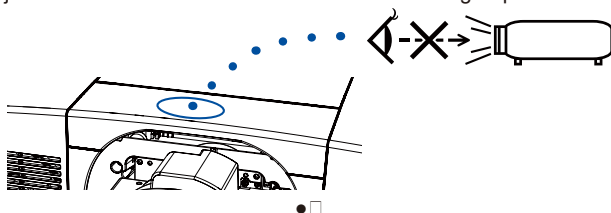
Notes



Caution:

Safety precautions:

- GROUND your projector.
- Lens of your projector projects strong light. DO NOT look at the light beam directly. You may get your eyesight hurt. This is especially the case with children.
- Do not use optical instruments (such as magnifying glasses and reflectors) to peer into the light of the source. Because this can cause visual impairment.
- The operator should control access to the beam within the hazard distance or install the product at a height that prevents the observer's eyes from being exposed within the hazard distance.
- Adjust from the side or back of the projector. If adjusted from the front, the eyes may be exposed to bright light, which can cause eye damage.
- Do not place any object (magnifying glass, etc.) within reach of the projector's light. The light path projected from the mirror is divergent. Therefore, any type of abnormal object that can change the light can cause accidents such as fire or eye injury.
- Do not allow children to operate the projector alone. Children operating the projector should be carefully supervised by an adult present.
- The following illustration marked near the lens on the case indicates that the risk category of this projector is classified as IEC/EN 62471-5:2015 risk group 3.



- Unplug the AC power plug if your projector will not be used for long time.
- DO NOT overload the socket of power cord as it may lead to fire or electric shock. DO NOT subject the power cord to any object. DO NOT place your projector in locations where its power cord may become damaged by treading by passersby.
- Disconnect the power plug before cleaning your projector. DO NOT apply liquid or sprays to your projector. DO NOT wipe your projector with wet cloth.
- Please follow warnings and instructions given in labels attached to your projector. Unplug your projector when your projector is exposed to thunderstorm weather, is unmanned, or not in use for long periods to prevent damage caused by lightning and power surges.
- DO NOT use accessories without recommendation by the manufacturer as it may result in potential risks.

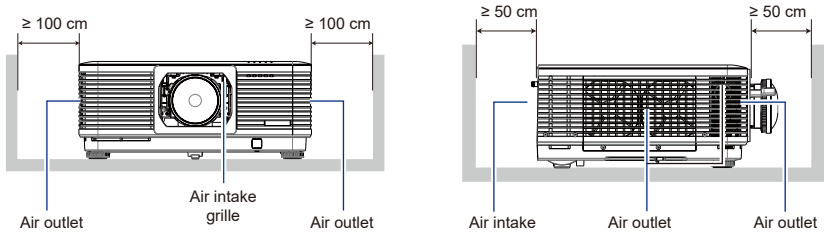
Safety operation guideline



Warning:

Precautions on air outlet:

- Keep adequate clearance around your projector for its ventilation and cooling. See figure below for the least clearance requirements. The least clearance is a must when your projector is placed within a cabinet or other closed environment.



When multiple projectors are used for multi-screen projection, there shall be sufficient air intake and outlet space around the projector. When the air intake and outlet are blocked, the internal temperature of the projector will rise, which may cause a fault.



- Do not cover the air outlet of your projector. Poor ventilation not only shortens life span of your projector but also may lead to risks.
- Slots and openings at side and bottom of your projector are designed for ventilation. Keep your projector from overheating to ensure its steady operation.
- Do not cover the air outlet with cloth or other objects. Do not place your projector on the surface of bed, sofa, carpet, or similar objects as this may block the air outlets at its bottom.
- Do not place your projector in a closed environment such as a bookcase, unless it is well ventilated.
- Keep any matter from falling in your projector through the air outlets as they may touch high voltage parts and lead to fire or electric shock by short circuits. Do not splash liquid on your projector.

Safety operation guideline



Note:

Precautions on using your projector:

- DO NOT project the same image for long time as residual images may be left in the panel. This is a property of LCD panel.
- Use power as indicated in tags attached to your projector. If you have doubts over available power type, consult your dealer or local power company first.
- DO NOT open or remove the casing for maintenance as this may lead to electric shock or other damages. Call qualified maintenance personnel in case of any maintenance requirements.
 - In case of the following, unplug the power cord and call qualified maintenance personnel for service immediately:
 - a. Damaged or broken power cord or plug
 - b. Liquid splashed in your projector
 - c. Your projector exposed to rain or water
 - d. If your projector fails to work as expected by following operation instructions, adjust it according to given instructions. Other invalid operations may damage your projector, which requires the technician to spend more time before returning it back to normal.
 - e. The projector falls off to ground or its casing is damaged.
 - f. In case of any abnormal change in your projector during its use, then maintenance services would be required.
- In case components replacement is required, make sure the replacements have been approved by the manufacturer and features the same with the one being replaced. Use of unauthorized parts may lead to fire, electric shock or personal injury.
- After the completion of maintenance or repair work, get the maintenance personnel to run routine safety check to ensure your projector's safety operation status.

Information for users in the European Union

This is a device to project images onto a screen, etc., and is not intended for use as indoor lighting in a domestic environment.

Directive 2009/125/EC.

About High Altitude mode

- Set [HIGH ALTITUDE] to [ON] in the Setting menu when using the projector at altitudes approximately 1400 meters or higher.
Using the projector at altitudes approximately 1400 meters or higher without setting to [HIGH ALTITUDE] can cause the projector to overheat and the projector could shut down. If this happens, wait a couple minutes and turn on the projector.
- Using the projector at altitudes less than approximately 1400 meters and setting it to [ON] can cause the light module to overcool, causing the image to flicker. Switch [FAN MODE] to [OFF].
- Using the projector at altitudes approximately 1700 meters or higher can shorten the life of optical components such as the light module.

Safety operation guideline

Light Module

- A light module containing multiple laser diodes is equipped in the product as the light source.
- These laser diodes are sealed in the light module. No maintenance or service is required for the performance of the light module.
- End user is not allowed to replace the light module.
- Contact qualified distributor for light module replacement and further information.
- Outline of laser emitted from the built-in light module:
Wavelength: 455 nm
Maximum power: 224.5W



Note:

Please heed all precaution for safety

To install the projector

- This projector is an RG3 product. The projector is for professional use and must be installed in location where safety is assured. For this reason, be sure to consult your dealer as installation and attachment/detachment of the lens unit must be performed by a professional service personnel. Never try to install the projector by yourself.
This may result in visual impairment etc.
- For planning the layout of the projector, make sure to take safety measures instructed on the installation manual.
- In order to refuse danger, install either a wall outlet within easy reach for pulling out the power plug in emergency or a device as a breaker to shut down the power supply to the projector.
- Take safety measures preventing human eyes from entering the RG3 zone.
- Considering the installation place, select an appropriate lens and secure safety zone that is determined for each lens. For operation on the powered projector as light adjustment, make sure appropriate safety measures have been taken.
- Check the validity of taken security measures if appropriate safety zone based on the installed lens is secured.
Periodically check the validity and keep these results.
- Educate the administrator of the projector (operators) about safety before starting to operate the projector.

To use the projector

- Instruct the administrator of the projector (operators) to perform inspections before powering on the projector. (Including the safety check against emitted light by the projector)
- Instruct the administrator of the projector (operators) to be in circumstances able to control the projector whenever the projector is powered on for an emergency.
- Instruct the administrator of the projector (operators) to keep the installation manual, user's manual and inspection records to a place where they can take these documents out easily.
- Instruct them to clarify if the projector is conformed to standards of each country and region.

Safety operation guideline

Laser safety caution

- This product is classified as Class 1 of IEC 60825-1:2014, EN 60825-1:2014+ A11:2021.
- Obey the laws and regulations of your country in relation to the installation and management of the device.
- Regarding the installation and management of the equipment, please comply with the relevant laws and regulations of your country.
- The laser module is equipped in this product. Use of controls or adjustments of procedures other than those specified herein may result in hazardous radiation exposure.



Class 1 laser product of IEC 60825-1:2014

- No direct exposure to the beam.
- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Risk groups

This projector is classified as either IEC/EN 62471-5:2015 risk group 3, which is intended for professional use and must be installed by professional installer to ensure safety.



WARNING

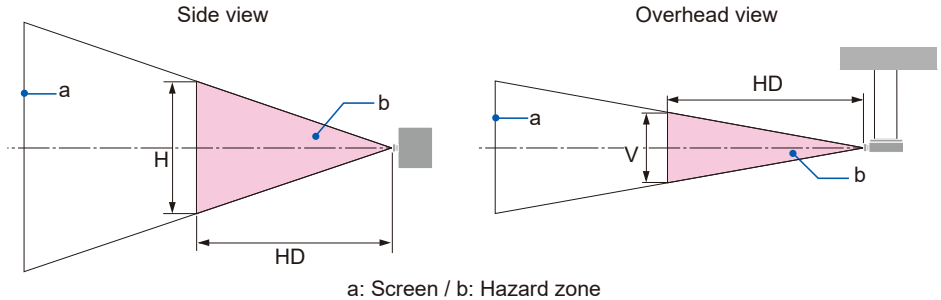
RG2 PRODUCT OF IEC/EN 62471-5:2015

- When classified as RG3, this projector is for professional use and must be installed in location where safety is assured. For this reason, be sure to consult your dealer as installation must be performed by a professional installer. Never try to install the projector by yourself. This may result in visual impairment etc.
- No direct exposure to the beam shall be permitted, RG2 IEC/EN 62471-5:2015.
- Do not look into the projector's lens. Serious damage to your eyes could result.
- Operators shall control access to the beam within the hazard distance or install the product at the height that will prevent exposures of spectators' eyes within the hazard distance.
- When turning on the power, operate from the side or rear of the projector (outside the hazard zone). Also, when turning on the power, make sure no one within the projection range is looking at the lens.

Safety operation guideline

Radiation Zone (HD: Hazard Distance)

- The below table describes the radiation zone of emitted light by the projector that is classified as Risk Group 2 (RG2) of IEC/EN 62471-5 First edition 2015.



About the precautionary zone

By providing a precautionary zone or physical barriers, it is possible to prevent human eyes from entering the hazard zone.

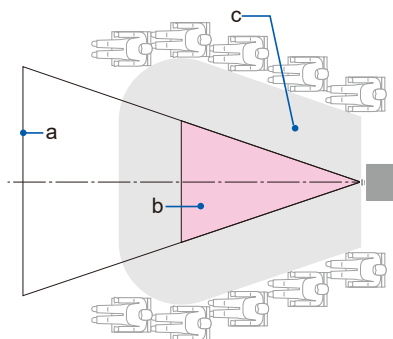
When the manager of the projector (operator) cannot prevent spectators from entering the hazard zone such as in public facilities, it is recommended to secure a space of 1 m or more from the hazard zone as "the precautionary zone" for the safety of the spectators. When installing the projector overhead, it is recommended that the distance between the floor and the hazard zone be at least 3 m in the vertical direction.

[In the United States, provide a horizontal distance of 2.5 meters from the hazard zone.](#)

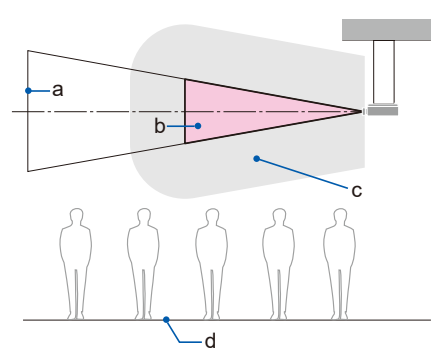
[When installthe projector overhead, provide a vertical distance of 3 meters from the floor to the hazard zone.](#)

Installation example considering the precautionary zone

① Floor or desktop installation example



② Ceiling installation example



a: Screen / b: Hazard zone / c: Precautionary zone / d: floor

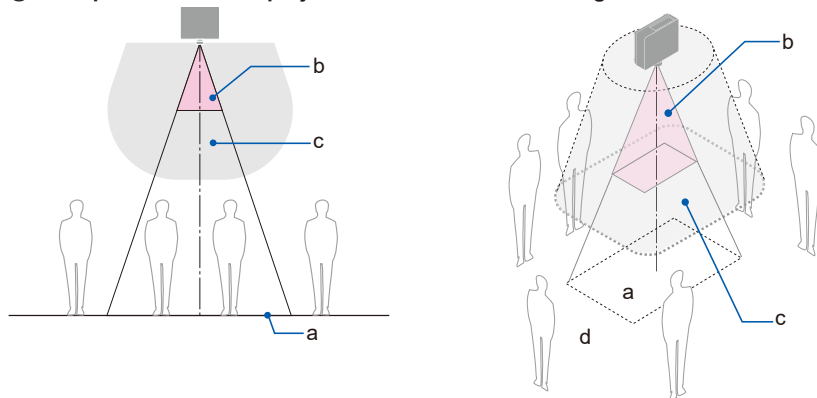


CAUTION

- If it is expected that spectators will intrude into the hazard zone when installed on the ceiling, it is necessary to prevent spectators from entering that area.

Safety operation guideline

③ Example of downward projection installed on the ceiling



a: Screen / b: Hazard zone / c: Precautionary zone / d: floor



CAUTION

- If the precautionary zone between the floor and the hazard zone cannot be secured, it is necessary to prevent spectators from entering the area around the screen as shown in the figure on the right.



Note: _

- ☐ If using the lens shift, please consider the shift of projected image according to the volume of lens shift. Installation example considering the precautionary zone.

Safety operation guideline

Combining lens units and risk groups

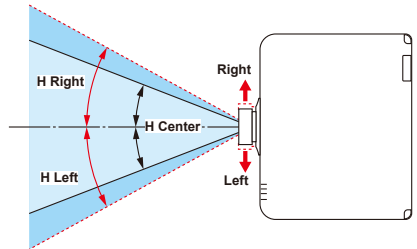
Lens model name	Throw ratio	Risk group
AH-S21030	1.08 - 1.76	RG2
AH-S22070	0.679 - 0.821	RG2
AH-S24010	1.74 - 2.97	RG2

Radiation Zone

The below table describes the radiation zone of emitted light by the projector

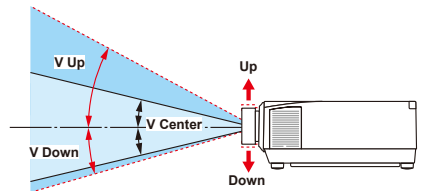
Horizontal

Lens		Radiation zone(degree)		
		Far Right	Center	Far Left
		H Right	H Center	H Left
AH-S21030	Wide	33.32	24.84	33.32
	Tele	23.93	15.83	21.93
AH-S22070	Wide	47.06	36.36	47.06
	Tele	41.66	31.36	41.66
AH-S24010	Wide	22.76	16.03	22.76
	Tele	13.81	9.56	13.81



Vertical

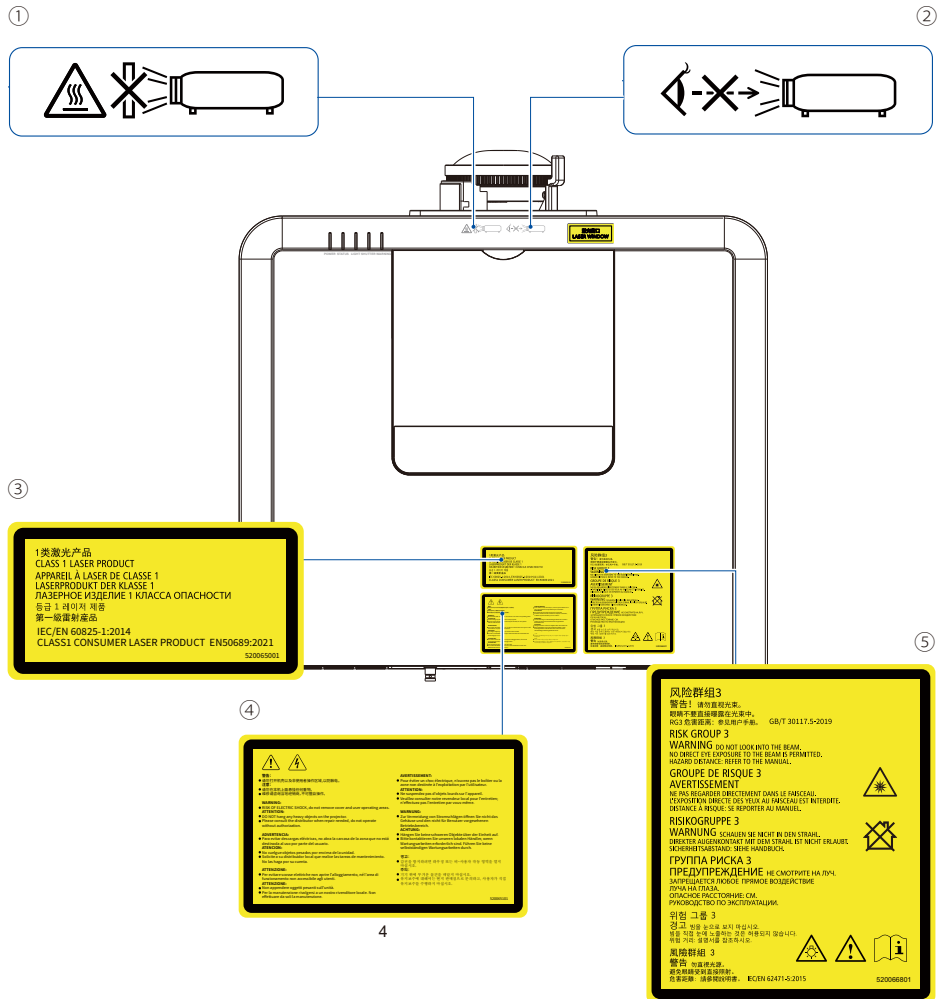
Lens		Radiation zone(degree)		
		Top	Center	Bottom
		V Up	V Center	V Down
AH-S21030	Wide	28.8	16.13	16.13
	Tele	18.61	10.05	10.05
AH-S22070	Wide	42.62	24.71	24.71
	Tele	37.3	20.85	20.85
AH-S24010	Wide	19.76	10.18	19.76
	Tele	11.88	6.01	11.88



Safety operation guideline

Safety Labels

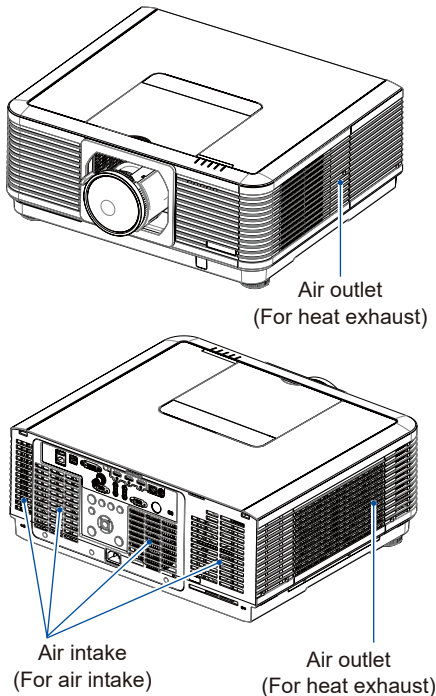
- ① Do not look directly into the projector lens. The strong light from the projector while it is working can damage your eyes.
- ② Do not place anything in front of the lens while the projector is running. Things placed in front of the camera can overheat, burn, or catch fire. If you want to temporarily stop projecting images, use the Blank key on your remote control.
- ③ Class 1 laser product warning.
- ④ Do not remove the screws. Do not block or cover vents.
- ⑤ Photobiological Level RG3 warning label.



Safety operation guideline

Air ventilation

Openings in the casing are designed for ventilation and overheating prevention. DO NOT block or cover these openings to keep your projector in normal operation and from overheating.



Note:

Heat exhaust at the air outlet. Keep the following in mind when using or installing your projector:

- DO NOT place flammable materials or sprayers near your projector.
- Keep the air outlet one meter away from other objects.
- DO NOT touch the area close to the air outlet especially the metal components, e.g. screws. This area and parts will get very hot once your projector starts operating.
- DO NOT place any object atop your projector. They may not only be damaged but also lead to fire after being overheated.

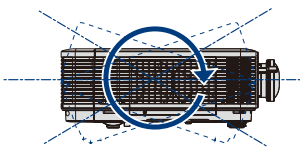
Cooling fans are designed for cooling your projector. Fan speed is auto adjusted subject to internal temperature of your projector.

Place your projector correctly

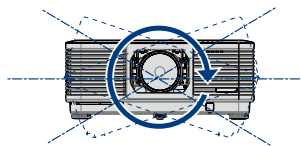
Use your projector at specified location in correct way. Invalid projector location may shorten light source's life-cycle or even lead to severe incidents or fire.

360° projection

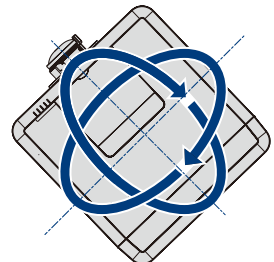
Our projector support 360° projection.



Vertical 360°



Horizontal 360°



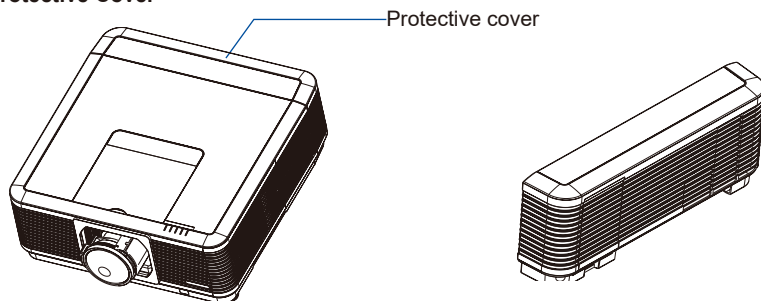
Vertical & Horizontal 360°

Safety operation guideline

Protective cover

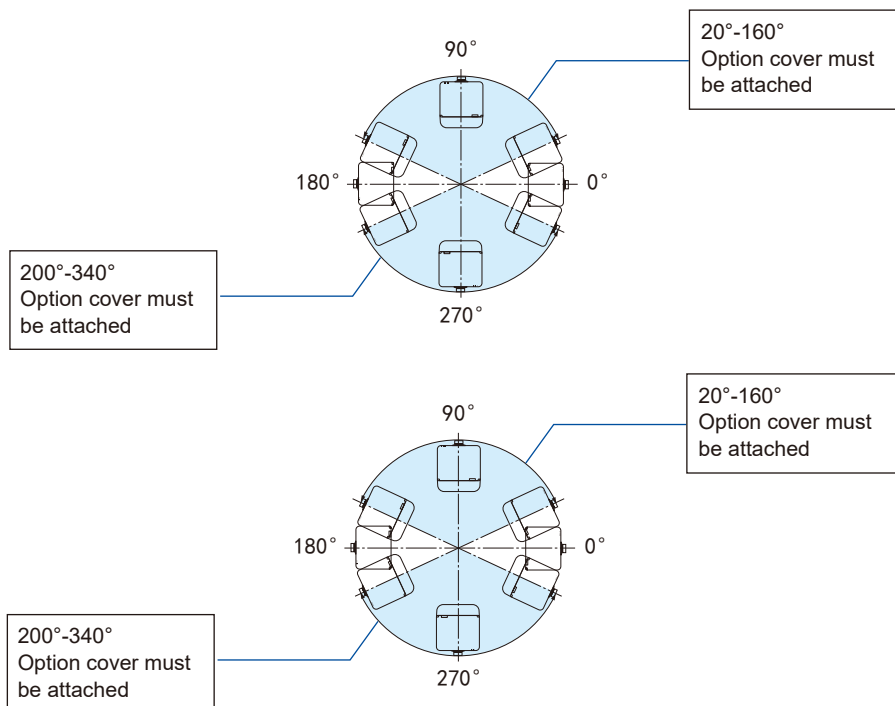
For the safety reason, while installation as following position, please add the optional protective cover to avoid the damage caused by the falling parts throw the intake or exhaust vent.

Protective Cover



Application scenarios

As the installation angle as following figure, please attach the protective cover



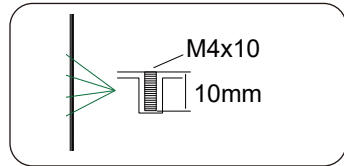
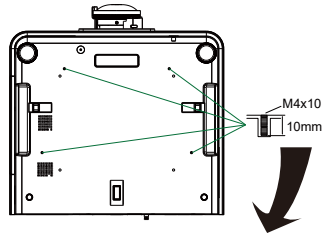
Safety operation guideline



Note:

Precautions on ceiling mount bracket installation:

- Get qualified technician to install the ceiling mount bracket.
- Warranty of your projector does not cover hazards and damage caused by using ceiling mount brackets provided by unauthorized dealers.
- Remove the ceiling mount bracket when it is not in use.
- Apply torque driver instead of power driver or impact driver in your projector.



Moving your projector

When moving your projector close its adjustment legs as they may damage the lens and casing. Keep your projector in suitable box when it is not to be used for a long time.



Note:

Precautions on moving or shipping your projector:

- DO NOT drop or impact your projector as it may get damaged or failed in operation.
- Please employ proper container for movement.
- Prohibit express or other shipping service provider personnel from shipping your projector with improper boxes. Your projector may become damaged. Please consult your dealers for shipping your projector by express or other shipping service providers.
- Place your projector in box only after it has been fully cooled down.

Safety operation guideline

Precautions on dealing with your projector:

DO NOT lift or move your projector by holding the lens as it may damage the lens and your projector.

Be careful when handling your projector. DO NOT drop it, subject it to external forces, or place objects atop it.



Note:

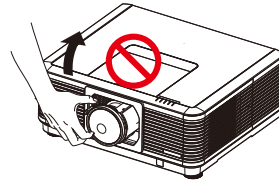


Lens of your projector is electric powered.

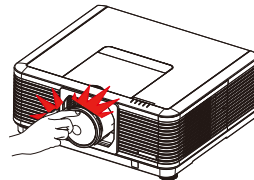


Precautions on using your projector:

- DO NOT touch the lens when it is working as your fingers may get hurt.
- DO NOT let children touch the lens.



DO NOT hold the lens or area around it!



DO NOT touch the lens when it is working!.

Compliance

FCC Caution

Declaration of Conformity

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

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

To assure continued compliance, follow the attached installation instructions and do not make any unauthorized modifications.

CAUTION:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Model Number : S1002 series

Trade Name : EIKI

Responsible party : EIKI International, Inc.

Address : 22552 Avenida Empresa Rancho Santa Margarita CA 92688

Telephone No. : 800-242-3454 (949-457-0200)

AC Power Cord Requirement

The AC Power Cord supplied with this projector meets the requirement for use in the country you purchased it.

AC Power Cord for the United States and Canada:

AC Power Cord used in the United States and Canada is listed by the Underwriters Laboratories (UL) and certified by the Canadian Standard Association (CSA).

AC Power Cord has a grounding-type AC line plug. This is a safety feature to be sure that the plug will fit into the power outlet. Do not try to defeat this safety feature. Should you be unable to insert the plug into the outlet, contact your electrician.

AC Power Cord for the United Kingdom:

This cord is already fitted with a moulded plug incorporating a fuse, the value of which is indicated on the pin face of the plug. Should the fuse need to be replaced, an ASTA approved BS 1362 fuse must be used of the same rating, marked thus . If the fuse cover is detachable, never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is of the same colour as that visible on the pin face of the plug (i.e. red or orange). Fuse covers are available from the Parts Department indicated in your User Instructions.

If the plug supplied is not suitable for your socket outlet, it should be cut off and destroyed.

The end of the flexible cord should be suitably prepared and the correct plug fitted.

WARNING : A PLUG WITH BARED FLEXIBLE CORD IS HAZARDOUS IF ENGAGED IN A LIVE SOCKET OUTLET.

The Wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow Earth

Blue Neutral

Brown Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol  or coloured green or green-and-yellow.

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

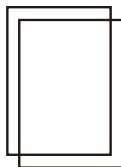
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

WARNING: THIS APPARATUS MUST BE EARTHED.

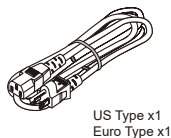
THE SOCKET-OUTLET SHOULD BE INSTALLED NEAR THE EQUIPMENT AND EASILY ACCESSIBLE.

Accessories

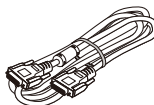
Quick Start Guide



AC Power Cord



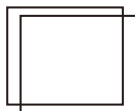
VGA Cable



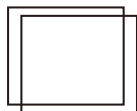
Remote Control



Safety Information



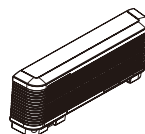
Warranty Sheet
(For US only)



Dust proof Cover for Lens
(Attached to the projector)



Protective Cover A
(Optional)

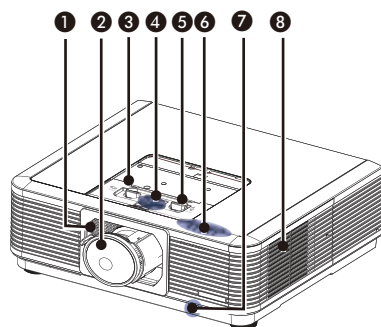


Overview

This chapter presents names and functions of individual component.

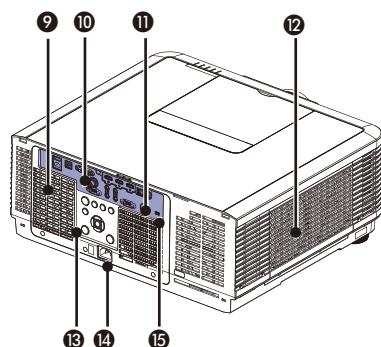
Name and function of your projector

Front/Top(lens cover removed)



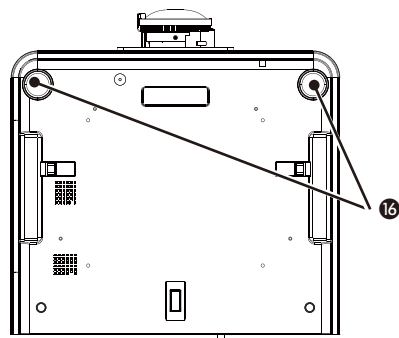
- ① Air intake
- ② Projection lens
- ③ Lens shift knob(Horizontal)
- ④ Lens lock lever
- ⑤ Lens shift knob(Vertical)
- ⑥ LED indicator
- ⑦ IR remote receiver (Front)
- ⑧ Air outlet

Rear/Side



- ⑨ Air intake
- ⑩ Input / Output terminal
- ⑪ IR remote receivedr (Rear)
- ⑫ Air outlet
- ⑬ Control panel
- ⑭ AC power cord connector
- ⑮ Kensington Security Slot
This slot is for a Kensington lock used to deter theft of the projector.
* Kensington is a registered trademark of ACCO Brands Corporation

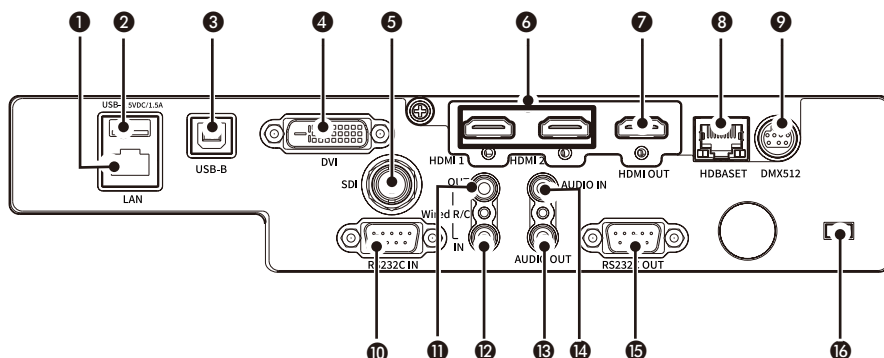
Bottom



- ⑯ Adjustable feet

Name and function of your projector

Terminal



1 LAN

Connect network cable to this port for controlling and operating your projector via network

2 USB-A IN

When using the Memory Viewer function, insert the USB memory directly to this terminal.

3 USB-B IN

The terminal is to use the USB display function, when connected the projector to computer with USB cable

4 DVI-D IN

Connect DVI output signal to this terminal.

5 3G SDI IN

Connect 3G SDI output signal to this terminal.

6 HDMI 1 / HDMI 2 IN

Connect HDMI digital output signals to this terminal.

7 HDMI OUT

Transmit signals from 6 to other displays

8 HDBaseT

Connect to HDBaseT source via network cable.

9 DMX512

Through the DMX 512 connection cable, connect this terminal to realize the multiple projectors control by the DMX512 device.

10 RS232C IN

Connect serial cable to this terminal when using RS232 device to control or operate your projector.

11 Wired R/C OUT

Transmit wired remote controller signals of 12 to another projector when a wired remote controller is used.

12 Wired R/C IN

Connect wired remote controller to this terminal. Connection of a wired remote controller will disable the wireless remote control function

13 AUDIO OUT

Output audio signals to amplifier or other audio equipment.

14 AUDIO IN

"Line out" to "AUDIO OUT" terminal from input audio signals. (Speakers are not equipped.)

15 RS232C OUT

Connect serial cable to this terminal when using RS232 device to control or operate your projector.

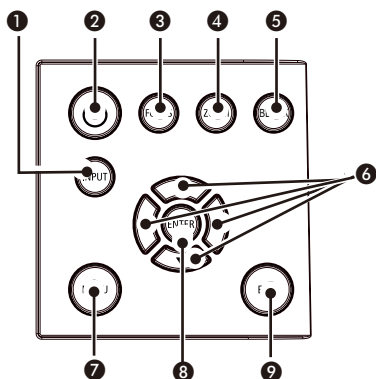
16 Kensington Security Slot

This slot is for a Kensington lock used to deter theft of the projector.

* Kensington is a registered trademark of ACCO Brands Corporation

Name and function of your projector

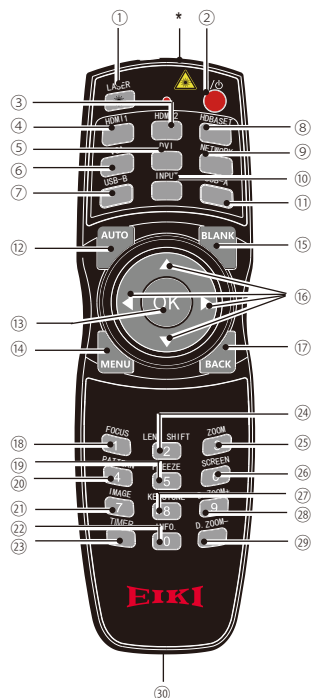
Control Panel



- 1 INPUT**
Open / Close the Input source menu
- 2 POWER**
Power On / Power off the projector
- 3 FOCUS**
Arrange the focus while projected image
- 4 ZOOM**
Adjust the image size
- 5 BLANK**
Dark out screen images temporarily
- 6 ◀ ▶ ▲ ▼**
Select or setting the value at the OSD
- 7 MENU**
Open or close the On Screen Display menu.
- 8 ENTER**
 - Get into the submenu of OSD
 - Confirm the selection of OSD
- 9 EXIT**
 - Stop the current function
 - Return the previous menu of OSD

Name and function of your projector

Remote controller



* Laser Transmitting Window:

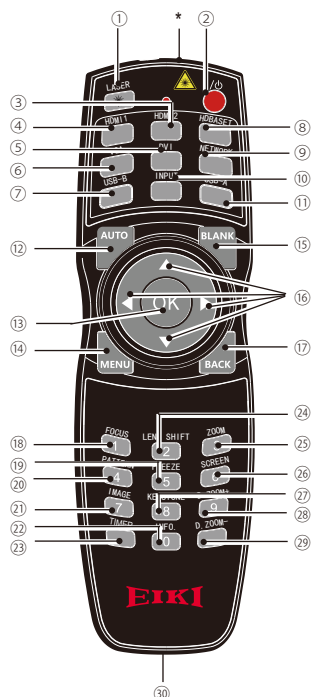
Laser beam will emit from this window while pressing LASER button during the projection to use the remote controller as a laser pointer.

Do not stare directly at the laser transmitting window or aim the window at human body, to avoid any physical injury.

- ① **LASER**
Press the LASER button during presentation to use the remote controller as laser pointer
- ② **POWER**
Power on or off your projector.
- ③ **HDMI 2**
Select HDMI2 input source
- ④ **HDMI 1**
Select HDMI1 input source
- ⑤ **DVI**
Select DVI input source
- ⑥ **VGA**(no function with this model)
Select VGA input source
- ⑦ **USB-B**
Select USB-B input source for USB Display
- ⑧ **HDBaseT**
Select HDBaseT input source
- ⑨ **NETWORK**
Select LAN input source for Network Display
- ⑩ **INPUT**
Open or close the INPUT menu
- ⑪ **USB-A**
Select USB-A input source for Memory Viewer
- ⑫ **AUTO**
Enter auto adjustment mode
- ⑬ **OK**
Enter the OSD menu or select options in it
- ⑭ **MENU**
Open or close the OSD menu
- ⑮ **BLANK**
Dark out screen images temporarily
- ⑯ **▲▼◀▶ (Arrow)**
– Select items or adjust values in the OSD menu
– Select display area in digital zoom+ mode
- ⑰ **BACK**
Return to the previous menu while using OSD
- ⑱ **FOCUS**
Enter the focus adjustment mode
- ⑲ **FREEZE**
Freeze projected images
- ⑳ **PATTERN**
Select built-in test pattern of your projector
- ㉑ **IMAGE**
Select image mode
- ㉒ **INFO.**
Display current status information of your projector
- ㉓ **TIMER**
Enable the timer function
- ㉔ **LENS SHIFT**(no function with this model)
Enter the lens moving mode

Name and function of your projector

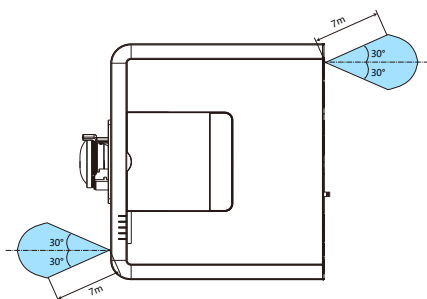
- ②5 **ZOOM**
Enter the zooming mode
- ②6 **SCREEN**
Select screen size
- ②7 **KEYSTONE**
Keystone calibration
- ②8 **D.ZOOM+**
Digital zoom in projected image
- ②9 **D.ZOOM-**
Digital zoom out projected image
- ③0 **Wired remote controller output terminal**
Connect cable of wired remote controller to this port while operating the projector by wired remote control



Remote controller operation range

Point your remote controller to the IR receiver of your projector

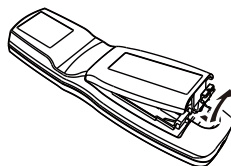
Maximum operation range of your remote controller is an area of radius 7 meters and arc 60° in front of and behind your projector



Name and function of your projector

Install battery of remote controller

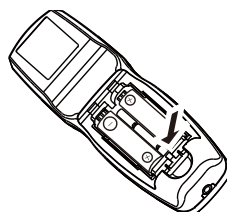
- ❶ Open the battery cover.



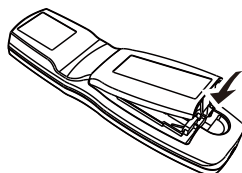
- ❷ Insert a new battery in it.

Two AA (LR6) batteries

Place your batteries with its anode and cathode (+ and -) in correct direction. Keep both poles in good connection to the contacts within the compartment.



- ❸ Put the cover back.



Please follow the following rules for safety operation:



- Use two of AA or LR6 alkaline batteries.
- Replace both batteries at the same time.
- Do not mix new and old batteries as one pair.
- Keep your remote controller away from water or other liquids.
- Do not expose your remote controller to environments with high humidity or temperature.
- Do not drop your remote controller.
- In case of any battery solution leaking in the compartment, clear it thoroughly before placing new batteries in it.
- Using battery of other types than what specified on this manual may lead to risks of explosion.
- Please dispose your old battery by following instructions given in tag of the battery or local regulations.

Installation

This chapter introduces the information of install.

Installation

Lens installation

Please follow steps given below to install lens after its replacement or when optional ones are employed. Please consult your dealers for details on optional lenses.

Installing lens

- 1 Remove the Dust Proof Cover as the first time installation.

Remove the Lens cap at the lens

- 2 Ensure the position of the notch on the lens mount is as shown as the fig.2.
Align the position of the connector as marked and gently insert it as far back as possible.
- 3 Turn the lens clockwise slowly until you hear a click. Make sure the lens is fully inserted in your projector.

fig. 1

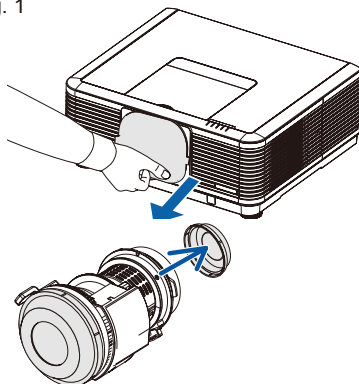
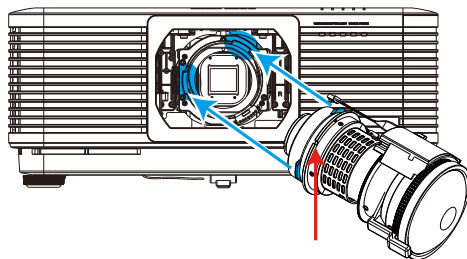


fig. 2



Installation

Remove the lens

- 1 Turn the decoration ring as counterclockwise to release and remove it.
- 2 Release the screw that above of the lens to release the Lens Shift Cover.
- 3 Pull up to remove the Lens Shift Cover.
- 4 Switch the Lens lock lever to the UN-LOCK position, then turn the lens counterclockwise to remove the lens.
- 5 Put the lens cap back to the lens to avoid the damage of the lens.
Put the Lens Shift Cover back and then install the decoration ring as turn it as clockwise, put the Dust Proof Cover back to the projector to avoid the dust.

fig. 1

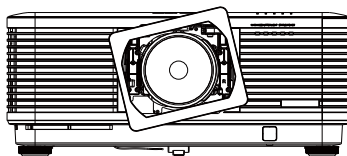


fig. 2

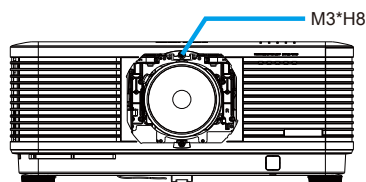


fig. 3

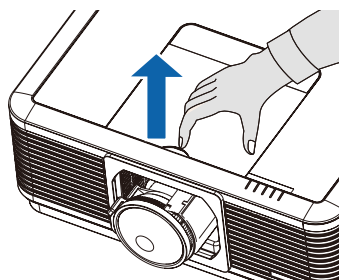


fig. 4

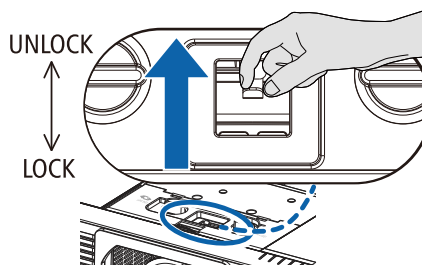
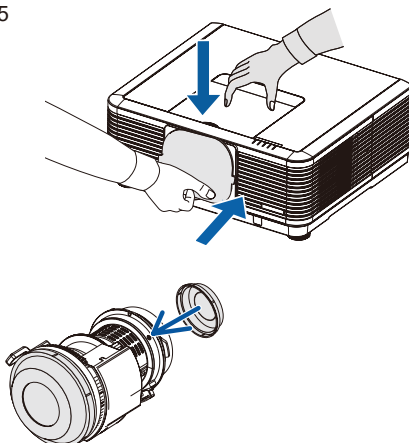


fig. 5



Installation



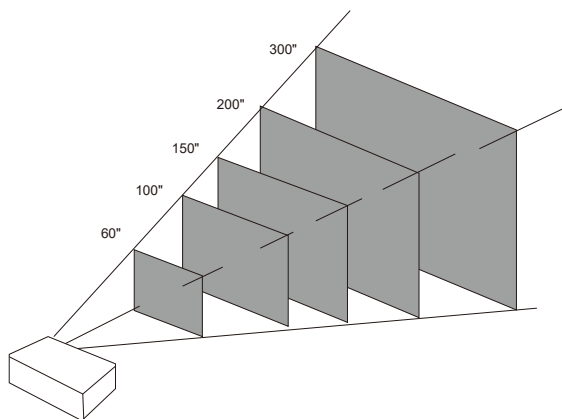
Note: _

- Do not touch or remove any other component except the lens and parts related to it. Otherwise, you may experience product failure, electric shock, fire, or other incidents.
- Make sure model of the lens is compatible with your projector before installing it.
- For details of lens and the installation, please contact your dealers.
- When replacing the optional lenses, it must be done by qualified personnel. Pay attention to mechanical hazards and high temperature injuries during replacement.
- Be careful in removing the lens. Do not drop it.
- For safety reasons, please ensure power off while replacing the optional lens to avoid electric shock fire and other accidents.
- When replacing the optional lens, just for safety reasons, please be sure to cut off power to avoid electric shock fire and other safety accidents.
- The projector and lenses are made of precision parts. Do not subject them to shock or excessive forces.
- Remove the separately sold lens when moving the projector. If not, the lens could be subject to shock while the projector is being moved, damaging the lens and the lens shift mechanism.
- If the projector must be moved with the lens unit attached, such as when it is installed in a high or specific location, use the screws included with the lens unit to secure it to the projector. Do not hold the lens when moving the projector.
- When dismantling the lens from the projector, return the lens position to the home position before turning off the power. Failure to do so may prevent the lens from being mounted or dismantled because of narrow space between the projector and the lens.
- Never touch the lens surface while the projector is operating.
- Be very careful not to let dirt, grease, etc., on the lens surface and not to scratch the lens surface.
- Perform these operations on a flat surface over a piece of cloth, etc., to prevent the lens from getting scratched.
- When leaving the lens off the projector for long periods of time, mount the dust cap on the projector to prevent dust or dirt from getting inside.

Installation

Set up your projector

- Ambient brightness may affect your projection image quality. For the optimal image effect, it is recommended to control brightness in your environment.
- Values shown in figure below are approximates only. They may differ from the actual ones.



16:10

Unit:m

Lens Model No.		Screen Size (Diagonal)											
		30 inch		50 inch		100 inch		200 inch		300 inch		500 inch	
		Width	Hight	Width	Hight	Width	Hight	Width	Hight	Width	Hight	Width	Hight
		0.65	0.40	1.78	0.67	2.15	1.35	4.31	2.69	6.46	4.04	10.77	6.73
AH-S21030	Wide	0.68		1.15		2.33		4.70		7.06		--	
	Tele	1.12		1.89		3.81		7.64		11.47		--	
AH-S22070	Wide	--		0.71		1.48		3.01		4.55		7.62	
	Tele	--		0.86		1.78		3.63		5.47		9.16	
AH-S24010	Wide	--		1.87		3.75		7.50		11.24		16.87	
	Tele	--		3.20		6.40		12.79		19.19		31.99	

Installation

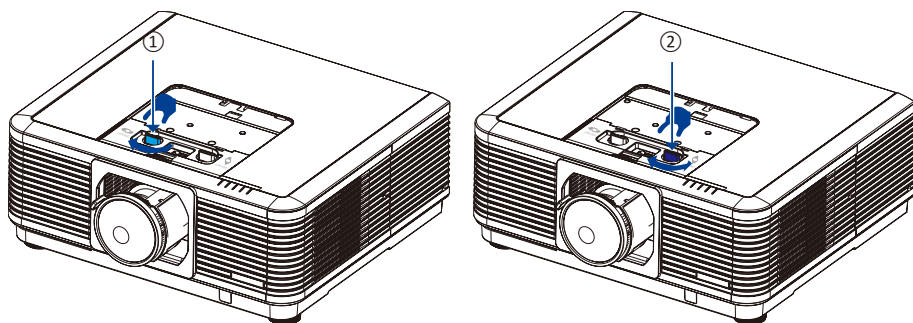
Lens shift adjustment

The lens shift function may adjust your lens in all four directions. This function enables easy image position adjustment.

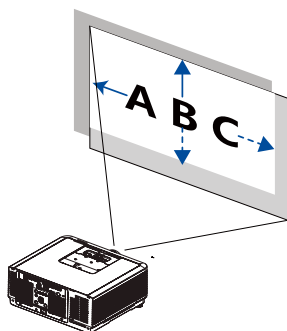
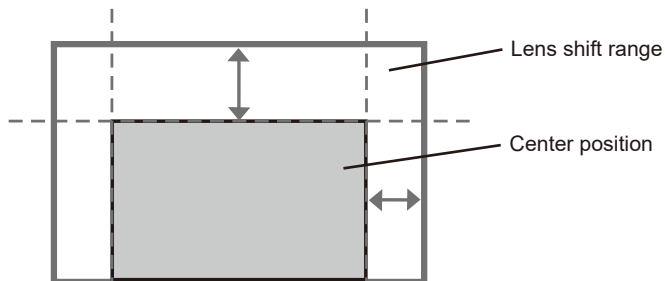
Manually adjust lens shift with knobs ① and ②.

By rotating knob ①, the screen can be shifted vertically above and below the lens shift center axis by +45% (AH-S21030), +50% (AH-S22070, AH-S24010) of the projected height.

By rotating knob ②, the screen can be shifted horizontally to the left and right of the lens shift center axis by 21% (AH-S21030), 23% (AH-S22070, AH-S24010) of the projected width.



Lens shift scope



*When the setting of LENS SHIFT as the maximum position, the corner of projection image might be darker.

Installation

Adjustment pad

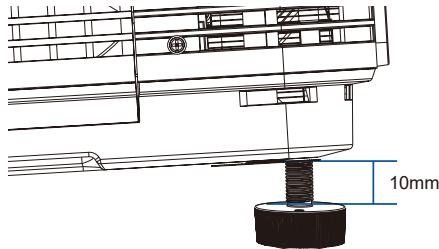
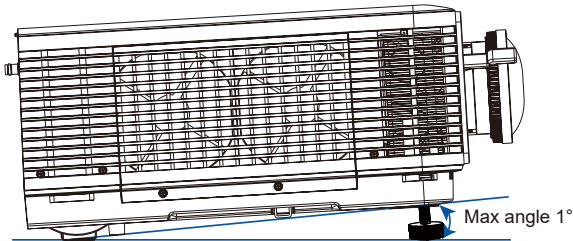
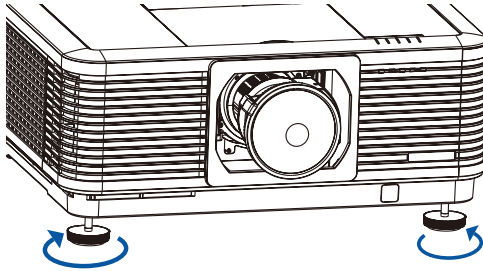
You may use the adjustment leg to raise your projector up to 10 mm.

Turn the pad to tilt your projector to required height.

To raise your projector, turn both pads clockwise.

To lower down your projector or close the pad, turn both pads counterclockwise.

You may use the auto setup function to adjust your projector's keystone distortion automatically or do this with the remote controller or OSD menu manually.



Connection to Power

Connect the AC power cord

Standard voltage employed by your projector is AC 100-240V. It adapts to different input voltage automatically. Your projector employs 2-phase power cord with neutral ground cable.

Do not use any other type of power cords or you may face the risks of electric shock. In case you have any doubt on type of power cord you are using, please call authorized dealer or service center for help. Before powering on your projector, get all external equipment connected in advance.

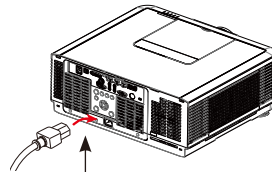


Note:

Keep your AC power socket close to your projector for easy plugging and unplugging.

✓ Note:

For safety reasons, unplug the AC power cord when your projector is not in use. Your projector will consume a small amount of power when it is connected to AC grid power and in standby mode.



Connect included AC power cord to your projector.

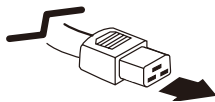
Precautions on power cord

Your AC power cord should meet regulations of the country/district where your projector is used.

Please make sure the type of the power plug is compliant with those given in figure below. Make sure you are using a valid AC power cord.

In case the included AC power cord does not comply with the AC power socket in your location, call your dealer for replacement.

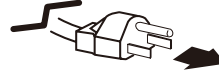
The projector side



Connect to power cord connector of your projector

Connect to the AC power socket

Grounding end



Connect to AC power socket

✓ Note:

- Use of invalid power cord may hamper product performance or even lead to electric shock, fire, and other incidents. Please use power cord compliant with the included one to ensure product performance and operation safety.
- The frequently used cables are: AC power cord, VGA cable, audio cable, video cable, and RS232 control cable.

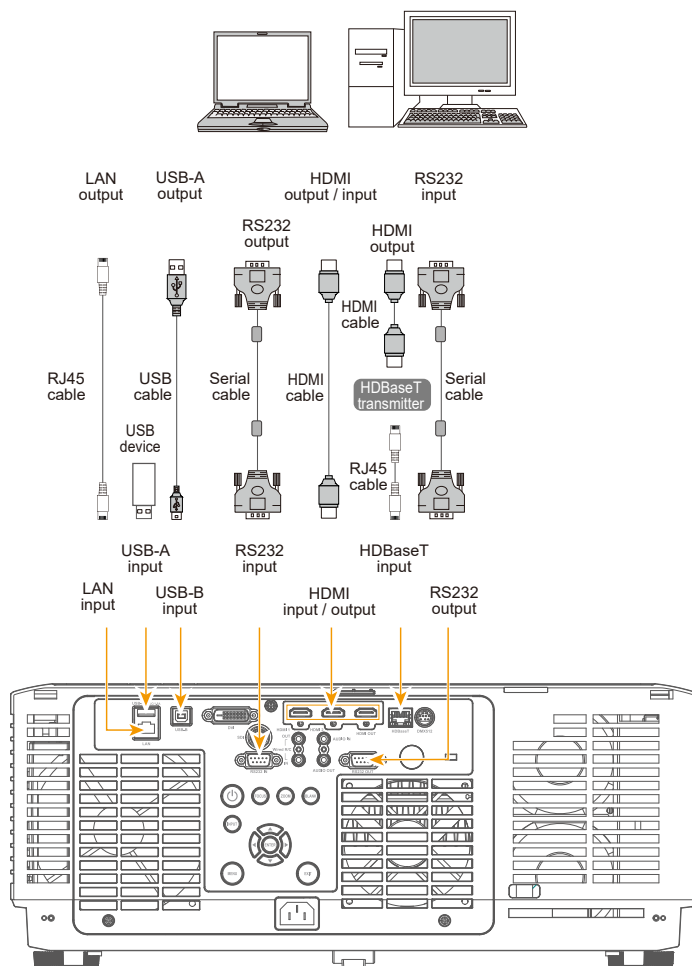
Connection to equipment

Connection to computer

Cables used for connection:

- VGA cable
- USB cable*
- DVI cable*
- HDMI cable*
- USB device*
- Serial cable*

(*Cables are not supplied with the projector)



Unplug power cords of the projector and all external equipment before connecting any cable to them.

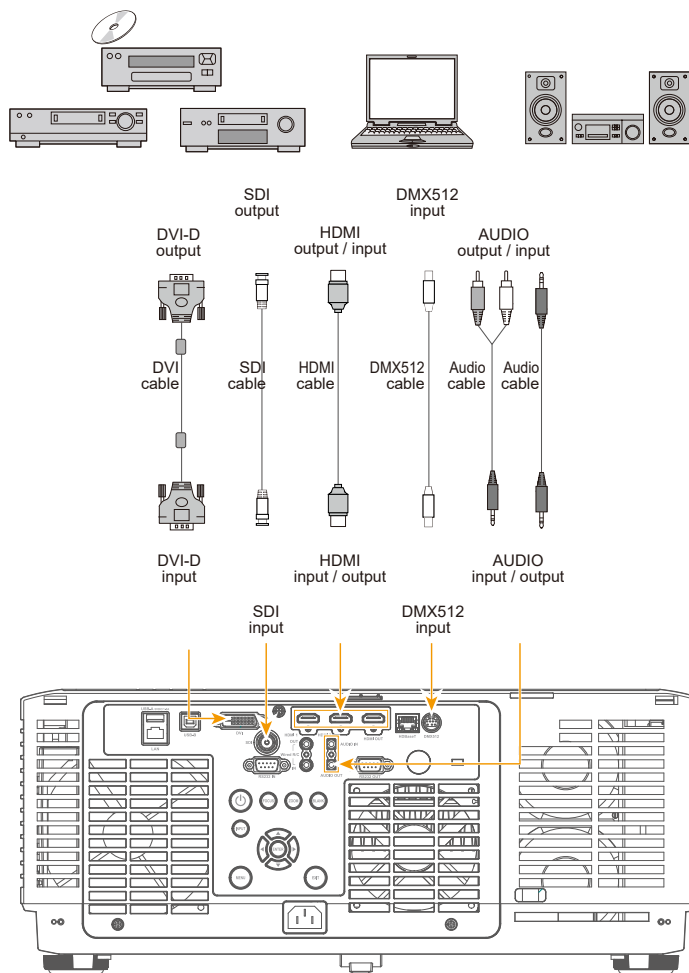
Connection to equipment

Connection to video and audio equipment

Cables used for connection:

- DMX512 cable* • RJ45 cable* • DVI cable*
- Audio cable* • HDMI cable*

(*Cables are not supplied with the projector)



Unplug power cords of the projector and all external equipment before connecting any cable to them.

Operation

This chapter introduces you to basic operation of your projector.

Basic operation

Power on your projector

1. Connect all external equipment to your projector (e.g. computer or camera) before powering it on.
2. Connect AC power cord of your projector to an AC power socket. The Power indicator turns on in red.
3. Press the Power button on the rear control panel or the remote controller. The Power indicator lights in green and the cooling fan starts running.
4. If your projector is setting as password protected, the password dialog box displays. Enter your password as instructed below.



✓ Note:

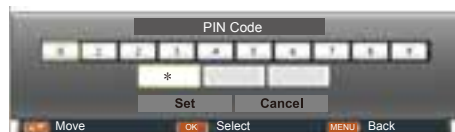
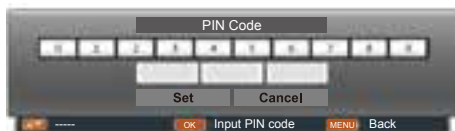
- In case the "Logo Select" option is set to OFF, then no welcome image will display in screen.

Enter password (PIN)

Press OK button to insert the PIN code. Press ◀▶ button to select number, then press OK button to set it and the cursor would move to next field automatically. The number you set is displayed as "*" . Repeat to fill in a 3-digit number. If any mistake, press MENU button to reset.

After fill in the PIN code, the cursor would move to the "Set" selection. Press the OK button and now you are ready to use your projector. Or press ▶ button select "Cancel" to give up the setting.

If the password is invalid, the password displayed as "***" in red and reset within one second automatically. Please try again with a valid one.



What is a password (PIN)?

A password (PIN) is an ID code for identifying people who know about it to operate your projector. A password (PIN) setting may help preventing your projector from unauthorized use.

You password (PIN) code is a 3-digit number. To find out more about protecting your projector with a password (PIN), please refer to the PIN Code Lock function in the Securit menu on Page 64 for details.

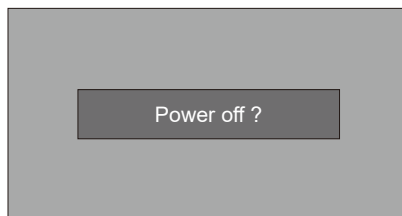
Precautions on password (PIN) operation

You cannot operate a password (PIN) protected projector without correct password (PIN). Please set up a new password (PIN) and keep your operation manual in safe place. In case the password (PIN) is lost or forgotten, contact your dealer or service center.

Basic operation

Power off your projector

1. Press the Power button at the control panel or the remote controller, then "Power off?" message displays.
2. Press the Power button again within 4 seconds after the "Power off?" message prompted to you. The POWER indicator flashes red while the cooling fan continues running. Unplug the power cord after the fan stops running. Failure to do so may shorten life cycle of your projector or lead to power on failures or operation abnormalities.
3. The POWER indicator stops flashing once the projector has been cooled down to ready for power on again.



"Power off ? " disappears after 4 seconds.



To maintain the life cycle of the laser light source, power off your projector after it has been turn on for at least five minutes.

Do not use your projector without stop. As it may hurt the life cycle of your lamp. Power off your projector at least once every 24 hours and have it idle for an hour.

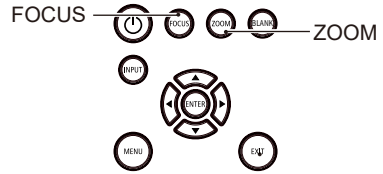
✓ Note:

- If the "Direct power on" function is set to "On", your projector will power on once it is connect-
ed to an AC power socket. (Refer to page 56)
- Speed of the cooling fan varies with internal temperature of your projector.
- Do not place your projector in any box before it is fully cooled down.
- In case the POWER indicator flashes or turns red, refer to the "Light indicator status" for
instructions. (Refer to page 88)
- The POWER indicator flashes when the lamp is cooling down. Do not power on your projector
at this time. Power on your projector only after the POWER indicator turns steady red.
- Unplug the power cord after your projector has been turned off. The fan stops running.
- The POWER indicator turns red when your projector is ready for power on again. It takes less
time to restart your projector after it was powered off in the standard power off procedure than
that of the non-standard one.

Basic operation

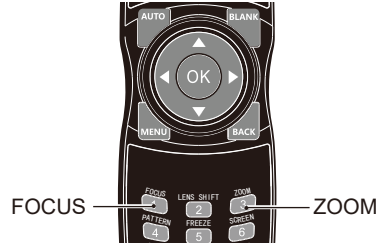
Focus function(with AH-S22070 only)

1. Press the  FOCUS button on the control panel or "FOCUS" button on the remote controller to adjust the projection image with Focus function.
2. Press   button to adjust the focus of the image .



Zoom function(with AH-S22070 only)

1. Press the  ZOOM button on the control panel or "ZOOM" button on the remote controller to adjust the projection image with zoom function.
2. Press   button to zoom in and out.



Focus



Zoom



Basic operation

Keystone adjustment

You may adjust keystone distortion of image with the keystone adjustment.

Follow steps below to adjust keystone distortion of projected image manually.

Press the KEYSTONE button on your remote controller.

The Keystone selection menu show up, press ▲▼ button to select the adjustment.

The keystone adjustment dialog box displays, press ▲▼◀▶ button to adjust keystone distortion.

You may save your settings for keystone adjustment.

H/V Keystone

Adjust the projected image when the projector is on the horizontal or vertical keystone distortion.

4-Corner correction

Adjust the projected image when the projector is keystone distortion of four corners

6-Corner correction

Adjust the projected image when the projector is keystone distortion of six corners

Curved correction

Adjust the projected image when the projector linearity is uneven or the projected images bent vertically and horizontally.

Grid adjustment

Adjust the projected image by the grid of the image.

Reset value

The correction values will be restored to the factory defaults.



KEYSTONE

Keystone adjustment

H/V keystone

4-Corner correction

6-Corner correction

Curved correction

Grid image tune

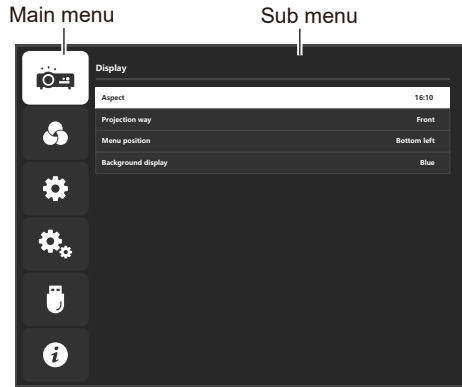
Reset value

✓ Note:

- The adjustable range is subject to input signal.
- For details please refer to page 61

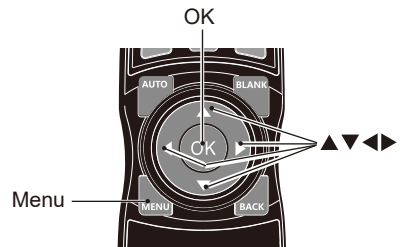
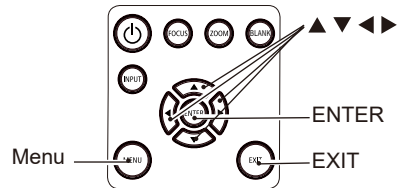
Basic operation

How to use the OSD



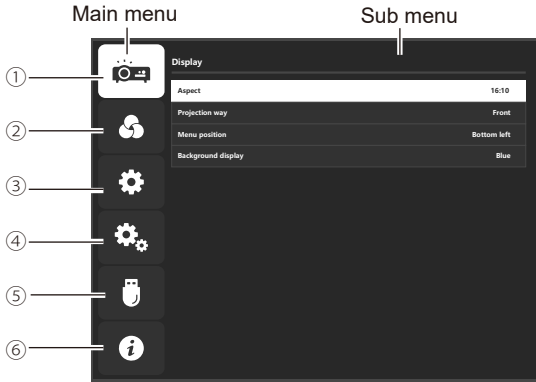
Menu operation

1. Press the MENU button on the control panel or the MENU button on the remote controller and the OSD displays.
2. Press button to act on or select one main menu item. Press button or ENTER/OK button to enter a submenu.
3. Press button to select required sub-menu, then press ENTER/OK button or button to set up or enter an option.
4. Press button to select settings or navigate options, then press ENTER/OK button to act on the item.
5. Press button or EXIT button to return to mainmenu.
6. Press the MENU button on remote controller or EXIT button on the control panel to exit the OSD.



Basic operation

Menu item overview



- ① **Display**
Select Aspect, Project way, Menu position, and Background display align each parameter with input source.
- ② **Color adjust**
The color adjust options for different input source:
Image mode, Contrast, Brightness, Color temp., Sharpness, Gamma and Advanced color adj..
- ③ **Setting**
Used to set the projector's operating configurations.
- ④ **Expand**
Setting the Language, Auto setup, Keystone, Logo, Security, Power management, Lens adjust., Test pattern, Network and Factory default function as you need.
- ⑤ **Memory Viewer**
Setting the display method of Memory Viewer page as Set slide, Slide transition effect, Sort order, Best fit, Rotate, Repeat and Apply.
- ⑥ **Info.**
Display the information about projector.

Basic operation

Remote controller operation

Use your remote controller for common operations.

Image mode selection (IMAGE)

Press the IMAGE button to select required image mode.

Timer (TIMER)

Press the TIMER button, a timer animation (00:00) displays and starts timing in format of (00:00-59:59).

Press the TIMER button again to stop timing. Press the TIMER button again to disable the timing function.



Timer display

Blank (BLANK)

Press the BLANK button, a blank screen displays to replace existing image. Press the BLANK button or any other button to restore the image. Press the BLANK to toggle switch your screen as shown below:

BLANK → Normal → BLANK → Normal →

Screen size selection (SCREEN)

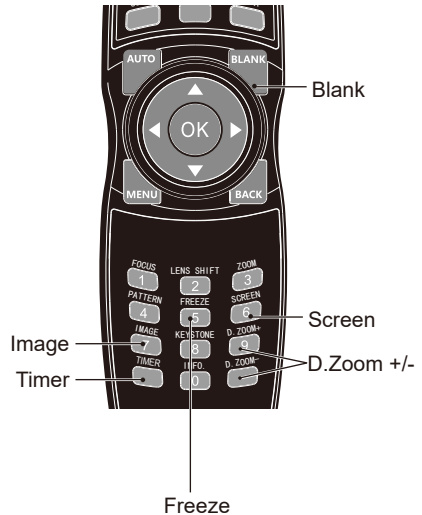
Press the SCREEN button to select required screen size.

Digital Zoom (D.ZOOM+/-)

Press the D.ZOOM+/- button to enter the Digital Zoom mode.

Freeze (FREEZE)

Press the FREEZE button to freeze image on the screen. Press the FREEZE button or any button to disable the freeze function.



The "Blank" notification will disappear in 4 seconds.

Input selection

Input select

Direct Operation

Press HDMI 1, USB-B, HDMI 2, DVI, HDBASET, NETWORK or USB-A on the remote control as input source.

Menu operation

- 1 Press INPUT button on the remote control or control panel to display the input select menu.
- 2 Press ▲▼ button to select HDMI 1, HDMI 2, HDBaseT, SDI, DVI, Memory Viewer, Network or USB Display, then press the OK button.

HDMI 1

When input source is from equipment connected to HDMI terminal with HDMI cable, please select "HDMI 1".

HDMI 2

When input source is from equipment connected to HDMI terminal with HDMI cable, please select "HDMI 2".

DVI

Select it when the video input signal is connected to DVI IN terminal.

HDBase T

When input source is from equipment connected to HDBaseT terminal with RJ45 cable, please select "HDBaseT".

*This function is not available for EK-512X

SDI

Select it when the video input signal is connected to SDI IN terminal.

Memory Viewer

When input source is from device connected to USB-A terminal, please select "Memory Viewer".

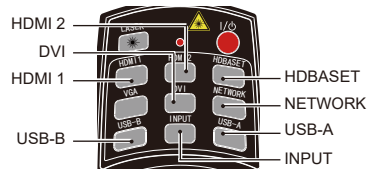
Network

When input source is from network connected to LAN terminal with LAN cable, please select "Network".

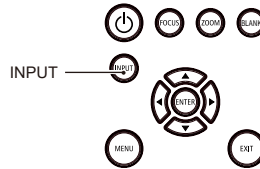
USB Display

When input source is from the device connected to USB terminal, please select "USB Display".

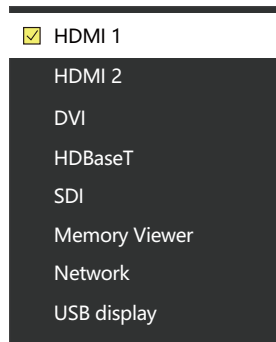
Remote control



Control Panel



Input select menu



✓ Note:

- When the "Input search" function is set to "On" in the "Auto setup" function, the input signal HDMI1, HDMI2, DVI and HDBaseT will be searched automatically.
- When input signal is from "USB Display", "Memory Viewer" and "Network", the FREEZE, ASPECT, AUTO SETUP and TEST PATTERN function cannot work.

OSD Setting-Display

Aspect

Press ▲▼ button to choose the selection to set the screen size to fit the image while maintaining the aspect ratio of the input signal.

Normal.....Projects the image at the maximum size while maintaining the aspect ratio of the input signal.

16:9.....Projects the image at 16:9 aspect ratio.

16:10 To provide an image to fit the screen.

4:3.....Projects the image at 4:3 aspect ratio.

16:6.....Projects the image at 16:6 aspect ratio.

✓ Note:

- The [Aspect] would show as "Zoom In" while using the digital zoom function.
- The [Aspect] would be disable while input source as "Memory Viewer", "Network" and "USB display".

Project way

Press ▲▼ button to select the project way.

Front Projects to front screen when projector is front standing.

Rear.....Projects to rear screen when projector is front standing.

Ceiling/Front Projects to front screen when projector is in ceiling state.

Ceiling/Rear Projects to rear screen when projector is in ceiling state.

Auto Ceiling/Front: Projects to front screen when projector is in ceiling state automatically.

Auto Ceiling/Rear: Projects to rear screen when projector is in ceiling state automatically.

Menu position

Press▲▼ button to select the position of the on screen menu.

Upper left.....Menu locates on upper left of the screen.

Upper right.....Menu locates on upper right of the screen.

CenterMenu locates at the center of the screen.

Lower left.....Menu locates on lower left of the screen.

Lower right.....Menu locates on lower right of the screen.

Background display

Press ▲▼ button to select the screen background of the projector when there is no signal detected.

Black Select black background.

Blue Select blue background.

✓ Note:

- The [Background display] would be disable while input source as "Memory Viewer", "Network" and "USB display".

OSD setting-Color Adjust

Color Adjust

Menu operation

- 1 Press the MENU button on remote controller and the OSD displays. Press ▲▼ button select Color Adjust icon, press ► button or OK button to confirm your selection.
- 2 Press ▲▼ button to point to required item and press OK button to confirm your selection.

Image mode

Switch image mode to fit the image source and the projector. (default setting is Standard)

Dynamic

The light output is maximized for use in bright room.

Standard

Normal picture level preset on the projector.

Cinema

Enriched grayscale for viewing movies.

Blackboard (Green)

An image mode designed for displaying on a blackboard (Green). It boosts quality of image projected on blackboard (Green). This is designed for a board in green rather than black as indicated by its name.

DICOM

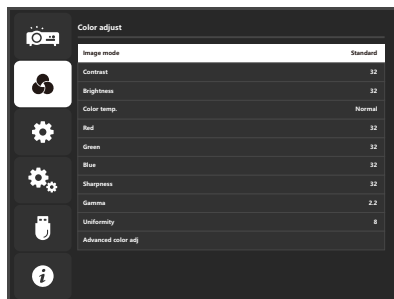
A highly clear X-ray image is reproduced. Digital radiographs with excellent detail and clarity for medical training, presentations and conferences.

Colorboard

Image mode suitable for image projecting on surface of wall in red, blue, yellow or green.

User Image

Default image mode set by users in the Image Adjust menu.



Contrast

Press ▼ button to decrease contrast, press ▲ button to increase contrast.

Brightness

Press ▼ button to decrease brightness, press ▲ button to increase brightness

Color Temp.

Press ▼ button to lower the color temp, press ▲ button to higher the color temp.

Sharpness

Press ▼ button to soften image and ▲ button to sharpen it.

Gamma

Press ▼ ▲ button to select appropriate gamma setting for different environment.

- 1.8: Project with the brightest image
- 2.0: Project with the brighter image than default setting.
- 2.2: Default setting for the brightness of image.
- 2.4: Project with the darker image than default setting.
- 2.6: Project with the darkest image

OSD setting-Color Adjust

Advanced color adj.

Press ▼▲ button to select the item you would like to arrange.

Hue:

Arrange the hue level of the projection image

Luminance:

Adjust the brightness of the projection image.

Saturation:

Arrange the saturation of the projection image.

Level:

Adjust the color attribute according to the preset level.

Red:

Adjust the red color attribute.

Yellow:

Adjust the yellow color attribute.

Green:

Adjust the green color attribute.

Cyan:

Adjust the cyan color attribute.

Blue:

Adjust the blue color attribute.

Purple:

Adjust the purple color attribute.

Reset:

Reset data back to factory defaults.

OSD setting-Setting

Setting

Your projector comes with convenient adjustment function.

- 1 Press the MENU button on remote controller and the OSD displays. Press ▲▼ button to select Setting icon, press ► button or OK button to confirm your selection.
- 2 Press ▲▼ button to point to required item and press OK button to confirm your selection.

Direct power on

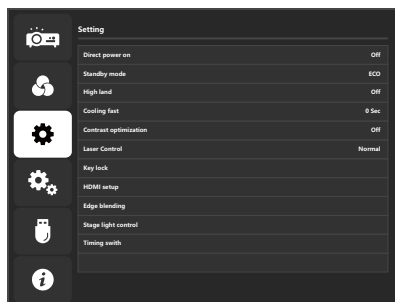
Setting the projector to be turned on automatically just by connecting the AC power cord.

On ... Start the projection immediately.

OffStart up in the standby mode.

✓ Note:

- There need to wait for 30 seconds to power on the projection again after unplug-replug the power cord.
- The projector can not power on immediately after unplug-replug the power cord.



Direct signal on

Setting the projector to be turned on automatically by connecting the HDMI input source.

On ... Enable to start the projection immediately while plug-in with the HDMI input source.

OffEnable the direct signal on function.

✓ Note:

- This function can only launched with the setting of Standby mode as Normal, and unplug-replug the HDMI cable.

Standby mode

Setting the power consumption in standby mode.

Eco.....Restrict some functions in the standby mode to reduce power consumption. In this case, you could control the projector with limited.

Normal ...Do not restrict network function and serial communication function even in the standby mode.

Network..Power on the projector via Wake on LAN software.

High land

Control the fan speed while cooling according the operating condition.

Off Normal speed. Set it so if the projector is operated at a lower altitude.

On Faster than Off. Set it so if the projector is operated at a higher altitude.

Auto..... Enable the High land function automatically.

✓ Note:

- When operating the projector around 1700~3650m altitude, please setting it as ON.
- While operating around 1700m altitude, the projector will switch to lower brightness automatically to protect the projector

OSD setting-Setting

Contrast optimization

Select this function to optimize and compensate signal automatically on the basis of the image, to get the best contrast image.

Off Disable this function.

Mode 1 Increase the contrast of the image.

Mode 2Increase the contrast of the image.

✓ Note:

- Mode 1 would turn off the power of light source while input with 0% white image, and will turn on automatically with any image.

4K mode (for S1002P series only)

Setting the projector to project the image with pixel shift function.

On ... Enable the pixel shift function.

OffDisable the pixel shift function.

✓ Note:

- When input signal is from "USB Display", "Memory Viewer" and "Network", the 4K mode function cannot work.

Laser Control

Modify the brightness according to the environment and the aim during the projectino.

Light source mode:

Normal:

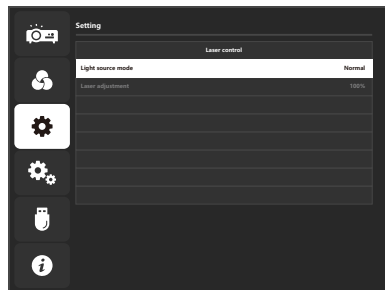
Enable to adjust the brightness from 50% to 100%.

Long life span mode:

80% brightness with lower power to extend the life time of light source .

Silent mode:

Lower the brightness to 50% and reduce the operation noise of projector.



Keylock

Set the security for the projector operation.



Off...The control panel and remote controller are effective.



Projector...Lock the operation of the control panel. Use the remote control to unlock.



Remote Control ...Lock the operation of the remote control. Use the control panel to unlock.

✓ Note:

- If the control panel accidentally becomes locked and you do not have the remote control nearby or there is something wrong with your remote control, contact the dealer where you purchased the projector or the service center.

OSD setting-Setting

Remote control

Prevent the interference from the remote controller while multiple projectors or video devices are operated at the same time. (default setting is Code 0)

Change code on Projector:

Code 0 ~ code 9 Select the specified ID number to control the individual projectors.

Change code on remote controller:

Press and hold the OK button with one of the number button for 5 seconds to set the code as the number you pressed. The code is set successfully when the light indicator on the remote controller flashed.

✓ Note:

- The projector and the remote controller must be paired with the same code.

HDMI setup (for HDMI input source only)

Switch the settings of "Image" or "Sound" in "HDMI setup" menu, if the image is not projected properly.

Image

64-940 / 0-1023.....Switch the signal level to project the image with special input signal.

AutoSwitch the signal level automatically.

✓ Note:

- The optimal setting varies depending on the output setting of the connected external device. Refer to the operation instruction of the external device regarding the output of the external device.

Sound

HDMI The image and audio are transmitted.

ComputerThe audio signal is input by "AUDIO IN" terminal.

EDID

Standard.....The image and audio are transmitted.

EnhancementThe audio signal is input by "AUDIO IN" terminal.

Edge fusion

Adjust the edge of projection image of multiple projectors to project the large image with indistinguishable edge. This function allow the multiple projectors setting as most of 4 units at horizontal way.

Edge fusion

On: Enable the edge fusion function

Off: Disable the edge fusion function

Regional setting

Auxiliary lines:

Set the auxiliary line as Off / Line / Grid

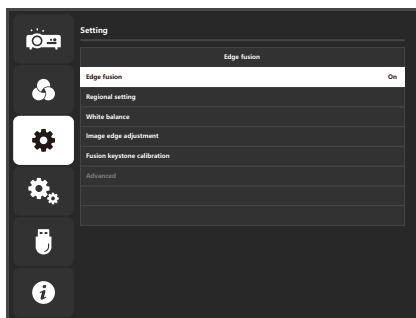
Left / Top / Right / Bottom:

Enable auxiliary line with the fusion edge at left / top / right / bottom of the projector.

Left Range / Top Range / Right Range / Bottom

Range:

Adjust the fusion edge range at left / top / right / bottom of the projection image. The default adjustment range is 20% of the image.



OSD setting-Setting

White balance

R / G / B gain:

Adjust the brightness and color gain value for Red / Green / Blue of the image. The default value is 32.

R / G / B offset:

Fine-tune the brightness and color gain value for Red / Green / Blue of the image. The default value is 32.

Reset:

Reset the setting value and get back with default value.

Image edge adjustment

Blending Area (Left / Top / Right / Bottom / Other):

Select the edge fusion area as target to adjust the value.

Level (Level 0 / Level 1 / Level 2 / Level 3 / Level 4 / Level 5):

Select the brightness level of the edge fusion area as target to adjust the value.

R / G / B:

Adjust the color brightness of the edge fusion area.

Gain: Adjust the level of color gain of the edge fusion area.

Reset: Reset and get back with default value.

Keystone correcting of edge fusion area

Four-point fusion correction:

Correct the distortion for the image with 4 point fusion correction function.

Grid Image Tune:

Tune the distortion for the edge fusion area with grid point.

Reset: Reset the setting value and get back with default value.

Advanced (only for HDMI input)

Horizontal quantity: Determine the total quantity of projector that setting with the edge fusion at horizontal row.

Horizontal Position: Determine the projector position of the horizontal rows.

Vertical quantity: Determine the total quantity of projector that use to setting the edge fusion at vertical column.

Vertical position: Determine the projector position of the vertical columns.

Horizontal Range 1: Setting the width of the first blending area that counting from left.

Horizontal Range 2: Setting the width of the second blending area that counting from left.

Horizontal Range 3: Setting the width of the third blending area that counting from left.

Vertical Range 1: Setting the width of the first blending area that counting from top.

Vertical Range 2: Setting the width of the second blending area that counting from top.

Stage Light Control

Enable the DMX512 controller to achieve synchronous control or separate control of multiple projector at the same time, so as to control the stage light.

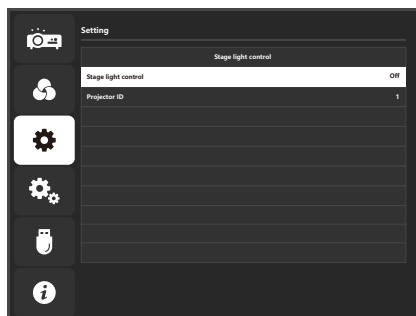
Stage light control

On: Enable the stage light control function

Off: Disable the stage light control function

Projector ID:

0 ~ 12 Select the ID of the projector to suitable the ID setting of the DMX512 controller.



OSD setting-Setting

Timed startup and shutdown

Timed startup and shutdown

Press ▼▲ button to switch On / Off to Enable / Disable the timed startup and shutdown function

Startup time

Press ▼▲ button to select the day and press ◀▶ to arrange the time to startup the projector.

Timed startup repetition

Sunday ~ Saturday:

Select the operating startup setting day by weekly

Timed shutdown switch

Press ▼▲ button to switch On / Off to Enable / Disable the timed shutdown function

Shutdown time

Press ▼▲ button to select the day and press ◀▶ to arrange the time to shutdown the projector.

Timed shutdown repetition

Sunday ~ Saturday:

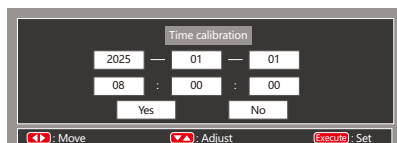
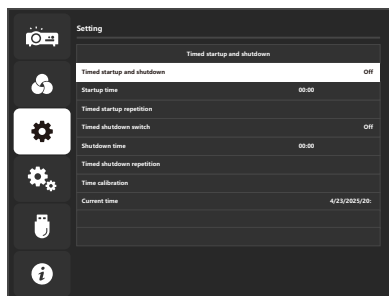
Select the operating shutdown setting day by weekly

Time calibration

Press ▼▲ button to select the adjustable item and press ◀▶ to arrange the time of the projector.

Current time

Showing the time of projector.



OSD setting-Expand

Expand

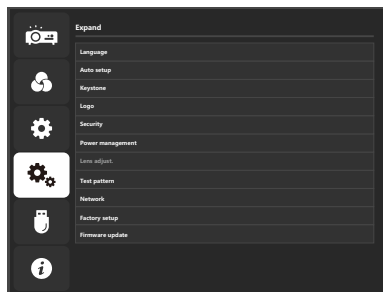
Select the Expand menu to set up other functions of your projector.

1. Press the MENU button on remote controller and the OSD displays. Press ▲▼ button to select Expand icon, press ► button or OK button to enter the submenu.
2. Press ▲▼ button to point to required item, press ► button or OK button to confirm your selection.
3. Press ▲▼ button to point to required item, press OK button to confirm your selection.

Language

This projector provides multi-language on screen display menu.

You can press ▲▼ button to select the language you want: English, German, French, Italian, Spanish, Polish, Swedish, Dutch, Portuguese, Japanese, Simplified Chinese, Traditional Chinese, Korean, Russian, Arabic, Turkish, Finnish, Norwegian, Danish, Indonesian, Hungarian, Czech, Kazakh, Vietnamese, Thai and Farsi.



Keystone

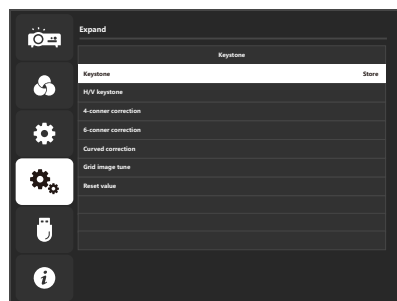
This function is used to correct the distortion image.

Keystone

Sets whether or not to keep the keystone correction after turn off the projector or plug out the power cord.

Store.... The keystone correction will be kept after unplug the power cord or turn off the projector.

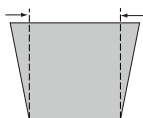
Reset... The keystone correction will be canceled after unplug the power cord or turn off the projector.



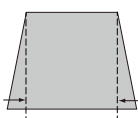
H/V Keystone

Adjust when the horizontal or vertical trapezoid of the projected image is distorted.

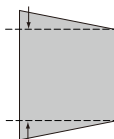
Reduce the upper width with ▲ button.



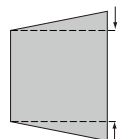
Reduce the lower width with ▼ button.



Reduce the left width with ◀ button.



Reduce the right width with ▶ button.



✓ Note:

- The white arrows indicate that there is no correction.
- A red arrow indicates the direction of correction.
- An arrow disappears at the maximum correction

OSD setting-Expand

4-Corner correction

Adjust when the four corners of the projected image are distorted.

Press ▲ ▼ ◀ ▶ to adjust the item.

4-Corner correction			
Upper left 	Upper right 	Lower left 	Lower right

6-Corner correction

Adjust when the six corners of the projected image are distorted.

Press ▲ ▼ ◀ ▶ to adjust the item.

6-Corner correction					
Upper left 	Upper right 	Upper middle 	Lower middle 	Lower left 	Lower right

Curved correction

Adjust when the linearity is not uniform or the vertical and horizontal lines are distorted.

Press ▲ ▼ ◀ ▶ to adjust the item.

Items	Operation	Adjustment	
Curved correction - X/Y Gain	Press the ◀ & ▶ button	Adjust the right & left of the width	
	Press the ▲ & ▼ button	Adjust the top & bottom of the width	
Curved correction - X Offset	Press the ◀ / ▶ button	Adjust the left / right of the distortion	
	Press the ▲ / ▼ button	Adjust the top / bottom of the distortion	
Curved Correction - Y Offset	Press the ◀ / ▶ button	Adjust the left / right of the distortion	
	Press the ▲ / ▼ button	Adjust the top / bottom of the distortion	

OSD setting-Expand

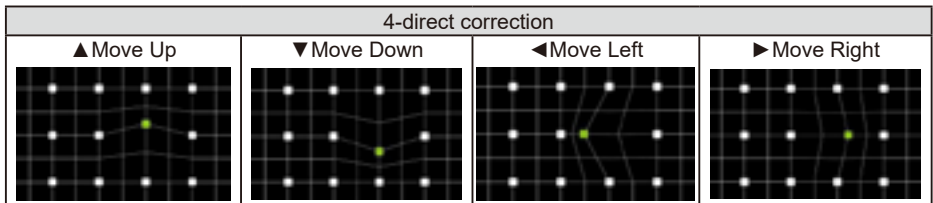
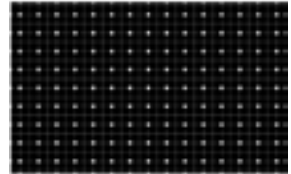
✓ **Note:**

- The adjusted value will be reset when you switch the keystone correction with another one.
- The "Curved Correction X Offset" and the "Curved Correction Y Offset" can not be adjusted independently. After adjusting the "Curved Correction X/Y Gain" at the beginning, please adjust the "Curved Correction X Offset" and "Curved Correction Y Offset".
- Correcting up to $\pm 30^\circ$ for the tilt in the vertical direction and $\pm 15^\circ$ for the tilt in the horizontal direction are available for adjustments with "Keystone". However, the image quality will degrade and it will get harder to focus with more correction. Install the projector so that the correction will be as small as possible.
- Screen size will also change when "H/V Keystone" is used to perform various adjustments.
- Aspect ratio of the image size may shift depending on the correction.

Grid image tune

Correct the image via grid point.

Press **▲ ▼ ◀ ▶** to adjust the selected grid point.



Reset value

Return the corrected values to the factory default values.

Press **▲ ▼** to select "Reset value", and then press the OK button, the state of the keystone correction is released.

OSD setting-Expand

Logo

This function allows you to customize the screen logo with Logo select, Capture, Logo PIN code lock and Logo PIN code change functions.

Logo Select

This function decides on the starting-up display from following options.

Default . Show the factory-set logo.

User..... Show the image captured by user.

Off..... Show the countdown display only.

Capture

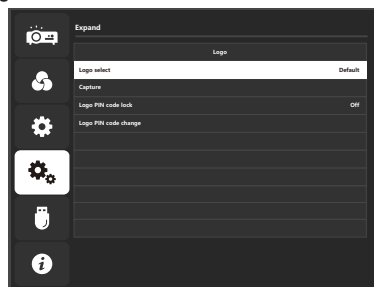
You can capture a projected image as start logo .

Select "Capture" and press the OK button on remote control or control panel.

Confirmation dialog box appears, select "Yes" to start capturing.

✓*Note:The captured user logo image is deleted when factory default is executed.*

Logo



Logo PIN code Lock

This function prevents an unauthorized person from changing the screen logo.

Off The screen logo can be changed freely from the Logo menu.

On The screen logo cannot be changed without a Logo PIN code.

If you want to change the Logo PIN code lock setting, press the OK button and the Logo PIN code dialog box appears. Enter a Logo PIN code by following the steps below. The default PIN code is "111".

Press OK button to enter the PIN code. Press ◀▶ button to select a number, and then press the OK button to enter this number, the cursor automatically move to next box. If you fixed an incorrect number, press MENU button to reset it again.

Repeat this step to complete entering a three-digit number.

After entering the three-digit number, the cursor automatically move to "Set", and press the OK button, then you can start to operate the projector.

If you entered an incorrect PIN code, the number (***) turn red, it will be reset automatically within one second. Enter the correct PIN code all over again.

Logo PIN code change

You can change the Logo PIN code (three number). Press the OK button to select Logo PIN code change. Logo Pin code dialog box appears, press ◀▶ button to enter the correct PIN code. The New Logo PIN code input dialog box appears. Set a new Logo PIN code, confirmation box appears, select Yes to set the new Logo Pin code.

Be sure to note the new Logo PIN code and keep it on hand. If you lost the number, you could no longer change the Logo PIN code setting.

CAUTION:

WHEN YOU HAVE CHANGED THE LOGO PIN CODE, WRITE DOWN THE NEW PIN CODE IN COLUMN OF THE LOGO PIN CODE NO. MEMO ON PAGE 99, AND KEEP IT SECURELY. SHOULD THE LOGO PIN CODE BE LOST OR FORGOTTEN, THE LOGO PIN CODE SETTING CAN NO LONGER BE CHANGED.

OSD setting-Expand

Security

This function allows you to use the PIN code lock and PIN code change functions to set the security for the projector operation.

PIN code lock

This function prevents the projector from being operated by unauthorized persons and provides the following setting options for security.

Off Unlocked.

On Enter the PIN code every time while power on the projector. If you want to change PIN code lock setting or PIN code, you must enter the PIN code.

The default PIN code is "111".

If you want to change the PIN code lock setting, press the OK button, then PIN code dialog box appears.

Enter the PIN code

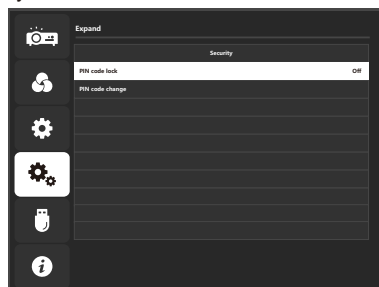
Press ◀▶ button to select a number, and then press the OK button to enter this number, the cursor automatically moves to next box. If you fixed an incorrect number, press MENU button to reset it again.

Repeat this step to complete entering a three-digit number.

After entering the three-digit number, the cursor automatically move to "Set", and press the OK button, then you can change the PIN code lock setting.

If you entered an incorrect PIN code, the number (***) turn red, it will be reset automatically within one second. Enter the correct PIN code all over again.

Security



PIN code change

The PIN code can be changed to three-digit number. Press ▲▼ button to select PIN code change. Pin code dialog box appears, Press ◀▶ button to enter the correct code. The New PIN code input dialog box appears. Set a new PIN code.

Forget the PIN code

Hold the [POWER] and [ENTER] button on the control panel at the same time and then plug in the power cord. Keeping pressing the [POWER] and [ENTER] button together till the "PIN code" screen appears. Enter the default PIN code as "111".

Select [Security]→[PIN code lock]→ [On]. As the [PIN code] screen appears again, enter the default password (111) and set a new passcode.

CAUTION:

WHEN YOU HAVE CHANGED THE PIN CODE, WRITE DOWN THE NEW PIN CODE IN COLUMN OF THE PIN CODE NO. MEMO ON PAGE 99, AND KEEP IT SECURELY. SHOULD THE PIN CODE BE LOST OR FORGOTTEN, THE PIN CODE SETTING CAN NO LONGER BE CHANGED.

OSD setting-Expand

Power management

For reducing power consumption as well as maintaining the light source life time, the Power management function will turn off the projection light source after lost the input signal longer than 30 seconds. Select one of the following options:

Ready -

After the countdown time up, and the light source has been fully cooled down. The projector would get into Power management mode. And the projection light source will be turned on with the input signal is reconnected or any button on the remote control or control panel is pressed.

Power off -

After the countdown time up, and the light source has been fully cooled down. The projector would get into Stand-by mode.

Off -

Disable the Power management function.

Timer -

If the input signal is interrupted and no button is pressed for longer than 30 seconds, the timer appears and starts to countdown to launch the power management mode. Press ▲▼ button to set the Timer(1~30min.)

Ready countdown -

Setting the period as 0 to 30 min. countdown for that projector automatically switch from Power management mode to standby mode.

0 Min means switch manually.

In Power management mode, press POWER button to switch to standby mode, and press any other button to turn on the projector.

Lens Adjust.(for AH-S22070 only)

Set this function to adjust the lens, so as to adjust its size and clarity of the projected image to achieve the best projection effect.

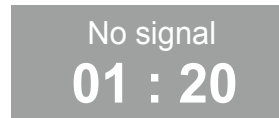
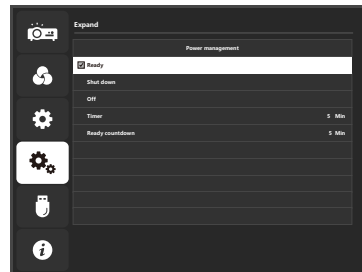
Focus.....Adjust the focal length of the projected image to make it more clear.

Zoom.....Zoom in or out to the projected image.

Test Pattern

This function is used to set the internal test pattern: Gray scale 1, Gray scale 2, Gray scale 3, Gray scale 4, Color bar, Red, Green, Blue, Cross hatch, White, Black and Raster gray.

Power management



Countdown timer .

✓ **Note:**

*Factory default: "Timer: 5 min",
"Ready countdown: 5 min".*

OSD setting-Expand

Network

Function : PC controls projector via LAN.

Preparation:

1. Equipments: PC, projector, cables
2. Connection procedures:
Connect the projector to routers or switches of the LAN by direct or cross cable. If it fails to connect PC and projector by parallel cable, please switch to cross cable as suggested.
3. After the computer is booted and the projector is plugged in, indicator lights of LAN interface on will flash continuously.

Operation procedures:

- 1 Turn on the projector.
- 2 Obtain network address. DHCP set is displayed as On and obtain network address automatically. (If familiar with network, you can set DHCP as Off and obtain network address manually)
- 3 Enter network settings menu.

(1) Press MENU button on the remote control to display OSD menu. Press ▲▼ button to select Expand icon, and then press the OK button.

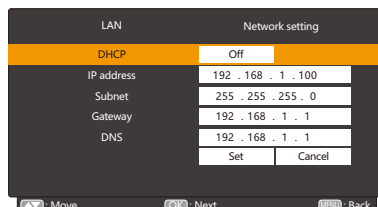
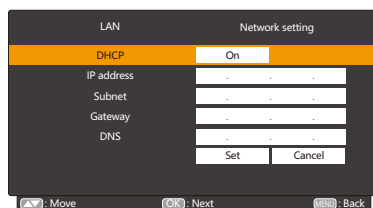
(2) Press ▲▼ button to select Network, and then press the OK button to enter the network menu.

MAC address ... Displays the MAC address of wired network of this projector.

IP addressDisplays the IP address of wired network of this projector.

(3) DHCP setting as On, IP address, Subnet, Gateway and DNS will be obtained automatically, press the OK at "Set" to confirm the parameters.

DHCP setting as Off, press the OK button to enter IP address, then press ▼ button to enter Subnet, Gateway and DNS respectively, press the OK at "Set" to confirm the parameters.



✓ Note:

- See page 67 for usage of Network.

Factory default

This function returns all setting values except for the PIN code lock, Logo PIN code lock and Light source counter to the factory default settings.

✓ Note:

- Reset all the setting as factory default except the "LOGO-User", "LOGO-Pin Lock" and "Light source used time"
- Press the "Menu" button to cancel launch the factory default process.

Firmware Update

Follow the following steps to upgrade the firmware.

1. Preparing the USB device with the file of firmware
2. Plug in the USB device to the USB-A connector of projector
3. Enable the Firmware Update function at projector.
4. The upgrade process would launch while inspect with firmware file on USB device
5. Restart the projector after complete the upgrade process.

✓ Note:

- Do not Turn off the projector or operating any function during updating the firmware.

OSD setting-Memory Viewer

Memory Viewer(for Memory Viewer input only)

The Memory Viewer function allow to project the pictures which are stored in the USB memory Device. This function only available when the USB memory device inserted into the projector.

- 1 Press MENU button on the remote control to display screen menu.
- 2 Press ▲▼ button to select "Memory Viewer", then press the OK button.
- 3 Press ▲▼ button to select the item you want to set, press the OK button.
- 4 Press ▲▼ button to adjust the item, then press the OK button.

Set Slide

Start the slide show of pictures with full screen display.

Slide transition effect

Set the slide transition effect while the images switching as slide show.

Slide down.....Switch the image from the top to the bottom.

Slide right..... Switch the image from the left to the right.

Press▲▼to select "Apply" and press the OK button to execute the setting.

Sort Order

Set the sort order of the slide show.

Extend OrderSort files or folders in extended order.

Size OrderSort files or folders in amount of data order.

Time OrderSort files or folders in stored time order.

Name Order.....Sort files or folders in name order.

Press▲▼to select "Apply" and press the OK button to execute the setting.

Rotate

Set the rotate direction of image.

No Rotate Rotate is disabled.

270 Degrees.... Rotate 270 degrees in anti-clockwise direction.

180 Degrees.... Rotate 180 degrees.

90 Degrees..... Rotate 90 degrees in anti- clockwise direction.

Press▲▼to select "Apply" and press the OK button to execute the setting.

Best Fit

Set the image whether or not to fit with the projected screen.

On.....Display the image to fit with the aspect of the projected screen.

Off.....Display in the normal pixels of the image.

Press▲▼to select "Apply" and press the OK button to execute the setting.

Repeat

Enable or disable repeat function of the slide show.

On.....Display all of the files repeatedly.

Off.....Return to the thumbnail page after the last file is broadcasted.

Press▲▼to select "Apply" and press the OK button to execute the setting.

Apply

Execute the setting in slide show mode.

Press ▲▼ to select "Apply", then press the OK button, to launch the setting effect of slid show.

OSD setting-Info.

Information

The information menu is used to detect signal of projected image and running state.

Menu operation

Press MENU button on the remote control or control panel to display the screen menu. Press ▲▼ to select Info., the information menu will appear as the right picture.

The status of projector will display in information menu.

Input

The selected input source is displayed.

H-sync freq .

The horizontal frequency of the input signal is displayed in KHz or - - - -KHz when no signal is detected.

V-sync freq .

The vertical frequency of the input signal is displayed in Hz or - - - - Hz when no signal is detected.

Light source counter

The usage time of the lamp is displayed.

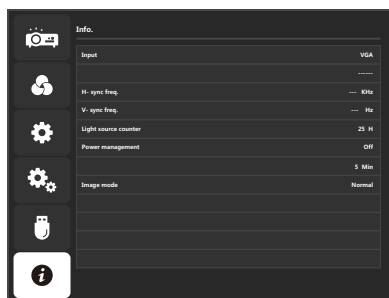
Power management

The setting status of "Power management" is displayed.

Image mode

The setting status of "Image mode" is displayed.

info. menu



Description on using
useful function

Description on network control operation

LAN control

Function : PC controls projector via LAN.

Preparation:

1. Equipments: PC, projector, cables
2. Connection procedures:

Connect the projector to routers or switches of the LAN by direct or cross cable. If it fails to connect PC and projector by parallel cable, please switch to cross cable as suggested.

3. After the computer is booted and the projector is plugged in, indicator lights of LAN interface and computer interface will flash continuously.

Operation procedures:

- 1 Turn on the projector.
- 2 Obtain network address. DHCP set is displayed as on and obtain network address automatically. If familiar with network, you can set DHCP as close and obtain network address manually.

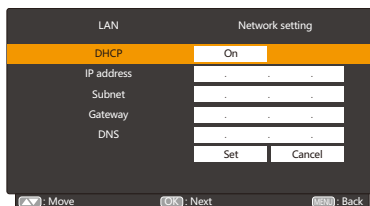
- 3 Enter network settings menu.

(1) Press MENU button on control panel or remote control to display screen menu. Press ▲▼ button to select "Expand" icon, then press the OK button.

(2) Press ▲▼ button to select "Network" setting and press the OK button enter the network setting.

(3) Press ▲▼ button to set DHCP as on.

(4) Press ▲▼ button to "Set" and press the OK button. "Please wait..." appears.



Description on network control operation

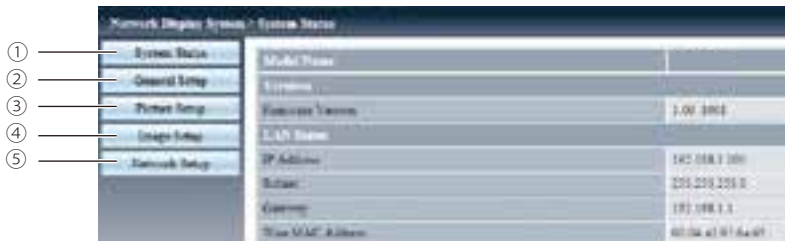
4. Activate the Web browser in the personal computer.
5. Enter the IP address + /html (i.e. "192.168.1.100/html") set by the projector into the URL input field of the Web browser.
(When entering the IP address only, Web browser will open Crestron Roomview page.)
6. Select "Login" to login the Network Display System page. (Both the initial name and passwords are "admin".)



✓ Note:

- You can click the upper right corner of the web browser screen to select the display language.
- Do not perform setting or control simultaneously by starting up multiple web browsers. Do not set or control the projector from multiple computers.
- Change the password first. (8 half-width characters).
- If the screen for the web control is not displayed, consult your network administrator.

7. Items in Network Display System page including: "System Status", "General Setup", "Picture Setup", "Image Setup" and "Network Setup".

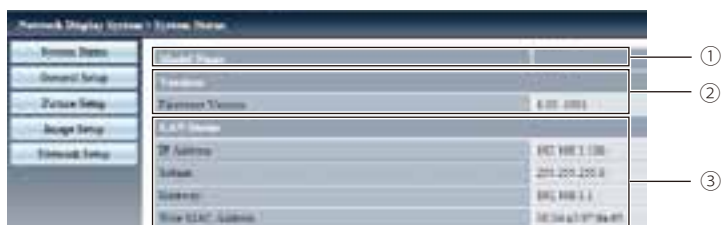


- | | |
|---|---|
| <p>① System Status
The "System Status" page is displayed by clicking this item.</p> <p>② General Setup
The "General Setup" page is displayed by clicking this item.</p> <p>③ Picture Setup
The "Picture Setup" page is displayed by clicking this item.</p> | <p>④ Image Setup
The "Image Setup" page is displayed by clicking this item.</p> <p>⑤ Network Setup
The "Network Setup" page is displayed by clicking this item.</p> |
|---|---|

Description on network control operation

"System Status" page

Display the status of the projector for the following items.



① Model Name

Displays the model No. of the projector.

② Versions

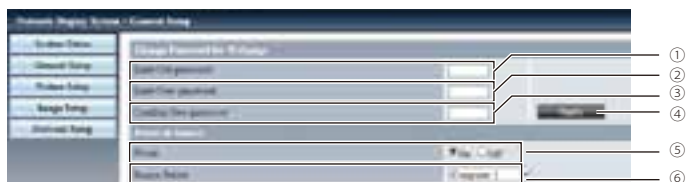
Displays the version of the firmware of the projector.

③ LAN Status

Displays the connection status of the LAN.

"General Setup" page

Change Password for Webpage is displayed.



① Enter Old password

Enters the configured password.

② Enter New password

Enters the new password.

③ Confirm New password

Enters the wanted new password again for confirmation.

④ Apply

Updates the settings.

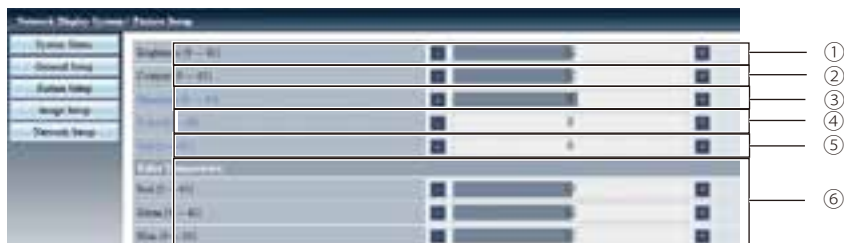
⑤ Power

Switches on/off the power of the projector.

⑥ Source Select

Switches the input source of the projector.

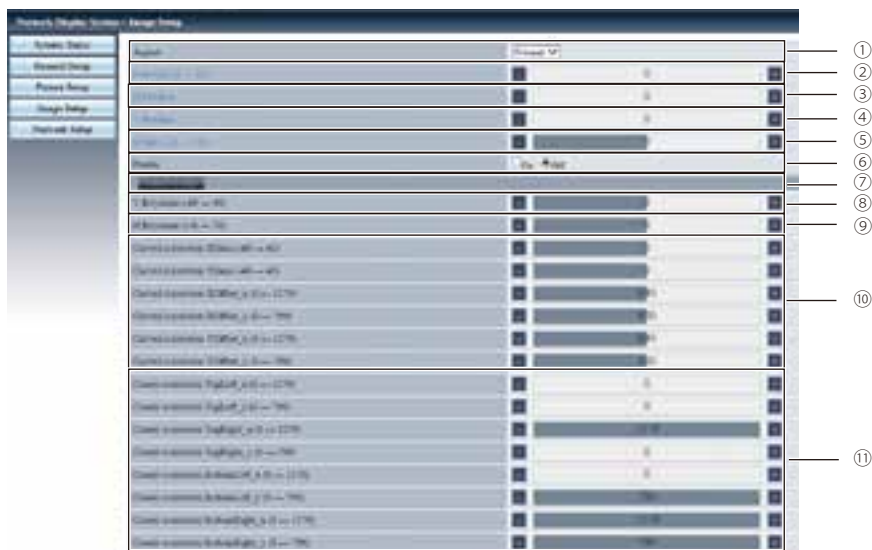
"Picture Setup" page



Description on network control operation

- ① Brightness
Adjusts the brightness of the projected image.
- ② Contrast
Adjusts the contrast of the projected image.
- ③ Sharpness
Adjusts the sharpness of the projected image.
- ④ Color
Adjusts the color saturation of the projected image.
- ⑤ Tint
Adjusts the skin tone of the projected image.
- ⑥ Color Temperature
Adjusts the color temperature of the projected image.

"Image Setup" page



- ① Aspect
Switches the aspect of the projected image.
- ② Fine sync
Adjusts the fine sync of the projected image.
- ③ H Position
Adjusts the horizontal position of the projected image.
- ④ V Position
Adjusts the vertical position of the projected image.
- ⑤ H.Size
Adjusts the total number of dots of the projected.
- ⑥ Freeze
Switches the freeze function between on and off.
- ⑦ Auto PC adj.
Executes the Auto PC adj. function.
- ⑧ V Keystone
Corrects the keystone in vertical direction.
- ⑨ H Keystone
Corrects the keystone in horizontal direction.
- ⑩ Curved Correction
Corrects the pincushion or barrel of the projected image.
- ⑪ Corner correction
Corrects the four corners of the projected image.

Description on network control operation

"Network Setup" page



① LAN Setup

Select [Obtain an IP address automatically] if you want to enable the DHCP client.

IP Address

Enter the IP address when not using a DHCP server.

Subnet

Enter the subnet mask when not using a DHCP server.

Gateway

Enter the default gateway address when not using a DHCP server.

DNS

Enter the DNS server when not using a DHCP server.

② Apply

Updates the settings.

Description on network display operation

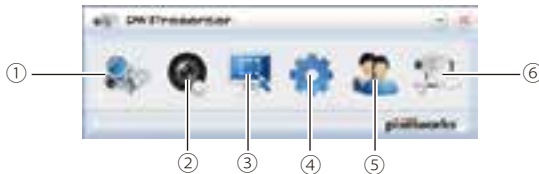
Network Display function

1. PwPresenter software: when "Network" is selected in Source Select, you can project the current computer images via network.

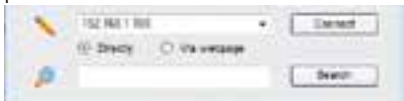
Input the IP address of the projector in webpage to enter the Network Display System, click "Download" to download the PwPresenter software according to your operation system.



2. Launch the pwPresenter software.



① Search for projector display
Click to enter Search, select the projector and connect it. Please setting the same IP address of the projector in pwPresenter software, (such as: 192.168.1.100). Both the initial name and passwords are "admin".



✓Note:

- Before use PwPresenter software to search, you need change Source Select to "Network".

Description on network display operation

② Play/Pause

Play or pause the selected image.

③ Choose capture mode

Choose a capture mode from "Full Screen", "Fixed Size" or "Alterable."

④ Parameters Setting

Basic Setting

Setting language, region of capture image etc.



Advanced Setting

Setting image quality, network port etc.



Global Setting

Setting remote control, capture by audio or screen etc.



Description on network display operation

Multicast Setting

Setting Sound volume, Bandwidth and Capture rate etc.



- ⑤ Network Display Management
Setting device and password management.



- ⑥ Disconnect the projector.

Description on using Memory Viewer function

Memory Viewer function

The Memory Viewer function is used to project the pictures which are stored in the USB memory when the USB memory is inserted into USB A(VIEWER) terminal of the projector.

Memory Viewer function supports the following image files.

Picture	Extension	Format	Description
	jpg/jpeg	Baseline encoder 24 bit	Max. resolution : 10000 x 10000
		Progressive RGB 24 bit	Max. resolution : Panel Resolution
	bmp	1, 4, 8 bit Palette-based RGB 24, 32 bit	Max. resolution : 1280 x 800
	png	24, 48 bit True color	24 bit color palette space Max. resolution : 1024 x 768
	gif	1, 4, 8 bit Palette-based	Max. resolution : 800 x 600
	tiff	—	Max. resolution : 800 x 600

Display the Memory Viewer screen

1. Press the INPUT button on the remote control or on the control panel to select the input source as Memory Viewer.
2. Insert the USB memory into the USB-A terminal of the projector directly, the standby screen appears when the USB memory icon is displayed on the screen.
3. Press the OK button on the remote control, the root directory of the USB memory will show as thumbnail on the screen.

Termination of the Memory Viewer

1. Press ▲▼◀▶ to the thumbnail  which is displayed on the upper left corner.
2. Press the OK button on the remote control to return to the standby screen of Press "OK".
3. Remove the USB memory directly.

Play the pictures

It will display a picture when play the picture manually every time.

1. Press ▲▼◀▶ to select a file on the thumbnail screen.
2. Press the OK button, the picture will display on the full screen.
3. Press ▶ to switch to the next picture, press ◀ to return to the previous picture.
4. Press the OK button on the remote control to return to thumbnail screen.

Executing the slide

All pictures in the same folder will play automatically when "Slide Transition Effect" of "Memory Viewer" menu is set to the special setting.

1. Press ▲▼◀▶ to select a file.
2. Press the "MENU" button to select the "Memory Viewer" → "Set Slide".
3. Press the OK button.
 - The picture will display on the full screen.
 - Press the OK button to return to the thumbnail screen.

Description on using USB display function

USB Display function

The USB Display function is used to project the image from the computer which is connected to USB-B (DISPLAY) terminal of the projector by a USB converting cable.

■ When using Windows

Windows operation environment

OS	Windows XP, Windows7 32/64 bit, Windows8 32/64 bit, Windows10 32/64 bit
CPU	Intel Core 2 Duo 2.0 GHz or faster compatible processor
Amount of memory	256 MB or more (Recommended : 512 MB or more)
Hard-disk free space	20 MB or more
Display	Resolution 640 x 480 to 1920 x 1080

- There is no guarantee for all computers that meet the above conditions will operate properly.

Projecting the USB Display

1. Connect the USB-B terminal of the projector to a computer with a USB converting cable.
2. Press the Input button on the remote controller or control panel to switch the input source as USB Display.
 - The startup screen will be displayed automatically due to the driver which is built-in the projector, and executes the installation according to the instructions of the screen. The displaying of the auto installation screen depends on the setting of computer. At this time, please select "Run autorun.exe". Please double-click "autorun.exe" in the folder of the USB Display when the automatically startup is disabled.
 - The image on the computer screen is projected.
3. Click the driver icon  in the task bar of computer and select one item in Pop-up menu.
 - Pop-up menu is only displayed in English.
 - The item which is displayed in gray is unavailable.

Active audio/ Disable audio	Set whether to output the audio from the computer.
Play video/ Pause video	Switch between play and pause the image.
Start/Stop	Set whether to display the image from the computer.
Exit	Exit USB Display.

✓ Note:

- The driver is not installed in your computer, and it will be removed from the computer when disconnecting the USB cable.
- It will take a while when you want to project the computer screen.
- Connect a USB cable directly to the USB connector of a computer. It will not work when connecting through a USB hub.

Termination of the USB display

When terminate the USB display, remove the USB cable directly. There is no need to follow "Remove hardware safely" when a USB cable is disconnected.

Description on using USB display function

■ When using Mac OS

Mac OS operating environment

OS	Mac OS X 10.5, 10.6, 10.7, 10.8, 10.10, 10.11, 10.12, 10.13
CPU	Power PC G4 1GHz or faster
Amount of memory	512 MB or more
Hard-disk free space	20 MB or more
Display	Resolution 640 x 480 to 1600 x 1200

- There is no guarantee for all computers that meet the above conditions will operate properly.

Projecting the USB Display

1. Connect the USB-B terminal of the projector to a computer with a USB converting cable.
2. Press the INPUT button on the remote control or Control panel to switch the input source to USB Display.
 - The image on the computer screen is projected.
3. Double-click "Monitor.app" in the virtual disk that has been mounted.
4. Right-click the driver icon  in the dock of computer and select one item in Pop-up menu.
 - Pop-up menu is only displayed in English.
 - The item which is displayed in gray is unavailable.

Active audio/ Disable audio	Set whether to output the audio from the computer.
Play video/ Pause video	Switch between playing and pausing the image.
Start/Stop	Set whether to display the image from the computer.
Quit	Terminate the USB Display.

✓ Note:

- It will take a while when you want to project the computer screen.
- Connect a USB cable directly to the USB connector of a computer. It will not work when connecting through a USB hub.

Termination of the USB display

When terminate the USB display, remove the USB cable directly.

Maintenance

This chapter describes the regular maintenance procedure of your projector to ensure its optimal operation status for long.

Regular maintenance

Status indicator

The status indicator shows status of projector protection function. Check STATUS and POWER indicator for good maintenance operation.



Note:

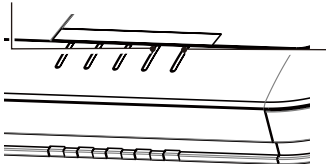
Unplug the AC power cord in case of any abnormality as it may lead to fire or electric shock.

The projector turns off, then the power indicator steady red and status indicator flashes red.

Your projector powers off automatically to protect components within it when it is overheated. The POWER indicator flashes red when your projector is cooling down. Press the STANDBY button to power your projector on again when it is cooled down to normal operation temperature.

The status indicator
flashing red

The power indicator
steady red



✓ Note:

The status indicator keep flashing after the internal temperature cooled down and it will stop after restart the projector.

Check the following:

- Is adequate clearance provided for your projector's ventilation? Check the installation status and any air outlet block.
- Is your projector installed at location close to outlet of air conditioning equipment? Keep your projector away from air outlet of air conditioning equipment.
- Is the filter in clean condition? Please clean the filter regularly.

Regular maintenance

Clean your projector when it is contaminated by foreign matter or its display effects are getting worse.



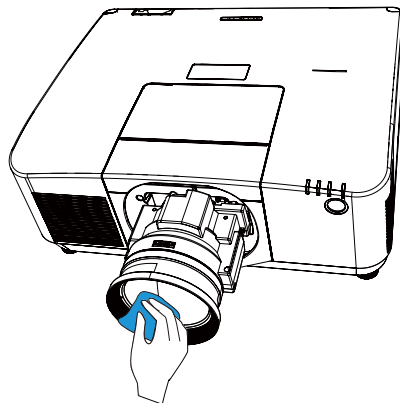
Note:

Unplug the AC power cord before any cleaning operation.

Clean the lens

Wipe the lens with clean cloth dampened with non-abrasive camera lens cleaner or clean it with lens cleaning paper or air blower.

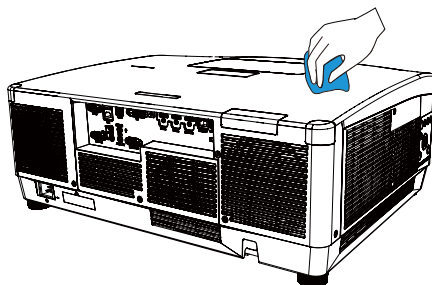
Do not over apply cleaner to the lens. Abrasive cleaner, solution, or other rough chemical may scratch the lens.



Clean casing of your projector

Wipe the casing surface with clean and soft cloth. Gently wipe the casing with clean and soft cloth dampened with small amount of neutral detergent to remove heavy dirt. Do not over apply cleaner to the casing. Abrasive cleaner, solution, or other rough chemical may scratch the casing surface.

Place your projector in proper container after use to protect it from dirt and dust and being scratched.



Note:

Do not insert any small object in the air outlet. It may fail your projector.

Appendix

Appendix

Troubleshooting

Check the following before calling your dealer or service center:

Troubleshooting	Solution
Power on failure	– Plug the power cord of your projector in an AC socket. – Make sure the POWER light indicator turns red. – When the TEMPTURE light indicator turns red, the projector can not power on. – Disable the Key Lock function of your projector.
Logo screen display failure	– Make sure the Off and Countdown Off is selected in the Display function.
The Logo screen differs from the standard settings.	– Make sure you did not select User or Off in the Logo Screen.
Input signal switch (or do not switch) automatically.	– Make sure you have correctly set up the Input Search function.
Image looks fuzzy	– Adjust the focus of the projection image. – Provide proper projection distance. – The projection lens requires cleaning. – Moving your projector from a colder environment to a hotter one may result in condensing on the lens. If this is the case, wait until the condensing water evaporated before powering on your projector.
Image mirror reflected / Image turns upside down	– Check the Ceiling and Rear settings. – Check the Ceiling settings.
Image looks dim	– Check the contrast and brightness settings. – Check for correct image mode settings – Check the laser control settings.
No image displays	– Check for the connection between projector and computer or image equipment. – Check for correct input signal from computer. Connection with certain notebook / computer may mandate changes to its display output settings. See the user manual included with the computer for details on settings. – It takes about 5 seconds for projector to display image. – Check the setting mode of signal, color system, image system, or computer system. – Make sure the ambient temperature is within given range (41°F–95°F; 0°C–45°C). – Image does not display in BLANK mode. Press the BLANK button or other buttons on the remote controller.
Abnormal color	– Check the setting mode of signal, color system, image system, or computer system. – Make sure Blackboard mode is not selected in Image mode.

Appendix

Some operations are invisible	– Check the display function.
Settings do not store after power off	– Make sure you have selected Store after settings adjustment. Some settings do not keep without selecting with Store.
Power management failure	– In case of Freeze or Blank operation, the power management function does not work.
Image distorted or disappeared	– Check and revise the PC Adj. menu or On Screen Display menu.
A password prompt displays after power on	– You have set up the Logo PIN Code lock function
Remote controller does not work	– Check the battery. – Make sure there is no obstacles stand in between your projector and the remote controller. – Make sure the remote controller is not too far away from your projector. The maximum operation range is 5m. – Make sure the remote controller and your projector are paired with the same remote control code. – Disable the key lock of the remote controller in the Security menu.
Light indicator turns on or flashes	– Check status of your projector according to the light indicator status.
Exclamation mark displays	– Invalid operation, please operate your projector correctly.
Control panel does not work	– Disable the key lock on control panel function in the Security menu.
Cannot disable the Logo Select password, Key Lock, and PIN Code lock function	– Please call your dealer or contact the service center.

- Make sure your projector is correctly connected to external equipment.
- Make sure all devices have plugged in an AC power source and have been powered on.
- If your projector fails to project image of the connected computer, restart the computer.

Warning:

Your projector employs high voltage power for operation. Do not open its casing. If the problem persists, call your dealer or service center. Along with model number of your projector and a description to your problem. You will be advised on getting our services.

Appendix

Light indicator status

Check light indicator to learn status of your projector.

POWER	STATUS	LIGHT	SHUTTER	WARNING	Projector status
 Off	 Off	 Off			AC off
 Orange (steady)	 Off	 Off			Standby (normal)
 Orange (flashing ¹)	 Off	 Off			Standby (network)
 Orange (flashing ²)	 Off	 Off			Standby (ECO)
 Orange (flashing ⁰)	 Off	 Off			Power on
 Off	 Orange (steady)	 Off			The key is locked, or the remote controller ID does not match
 Green (steady)	 Off	 Green (flashing ¹)			Light source on status (ECO)
 Green (steady)	 Off	 Green (steady)			Light source on status (non-ECO)
 Green (flashing ⁰)	 Off	 Off			Power management (standby)
 Red (flashing ⁰)	 Off	 Off			Cooling status
 Red (steady)	 Red (flashing ²)	 Off			Abnormal temperature
 Red (steady)	 Orange (flashing ¹)	 Off			Abnormal fan 1
 Red (steady)	 Orange (flashing ²)	 Off			Abnormal fan 2
 Red (steady)	 Orange (flashing ³)	 Off			Abnormal fan 3

Appendix

POWER	STATUS	LIGHT	SHUTTER	WARNING	Projector status
 Red (steady)	 Orange (flashing ^{*4})	 Off			Abnormal fan 4
 Red (steady)	 Orange (flashing ^{*7})	 Off			Abnormal fan 7
 Red (steady)	 Orange (flashing ^{*8})	 Off			Abnormal fan 8
 Red (steady)	 Orange (flashing ^{*10})	 Off			Abnormal fan 10
 Red (steady)	 Orange (flashing ^{*11})	 Off			Abnormal fan 11
 Red (steady)	 Orange (flashing ^{*12})	 Off			Abnormal fan 12
 Red (steady)	 Orange (flashing ^{*13})	 Off			Abnormal fan 13
 Red (steady)	 Orange (flashing ^{*14})	 Off			Abnormal fan 14
 Red (steady)	 Orange (flashing ^{*15})	 Off			Abnormal fan 15
 Red (steady)	 Orange (flashing ^{*16})	 Off			Abnormal fan 16
 Red (steady)	 Orange (flashing ^{*17})	 Off			Abnormal fan 17
 Red (steady)	 Red (flashing ^{*1})	 Orange (steady)			Abnormal color wheel
 Red (steady)	 Red (steady)	 Red (*1)			SSL&LD communication abnormality
 Red (steady)	 Red (steady)	 Red (flashing ^{*3})			LD 55V overvoltage
 Red (steady)	 Red (steady)	 Red (flashing ^{*4})			LD 55V undervoltage
 Red (steady)	 Red (steady)	 Red (flashing ^{*5})			LD overvoltage protection

Appendix

POWER	STATUS	LIGHT	SHUTTER	WARNING	Projector status
 Red (steady)	 Red (steady)	 Red (flashing ⁶⁾)			LD undervoltage protection
 Red (steady)	 Red (steady)	 Red (flashing ⁷)			LD overcurrent protection
 Red (steady)	 Red (steady)	 Red (flashing ⁸)			LD undercurrent protection
 Red (steady)	 Red (steady)	 Red (flashing ⁹)			LD high temperature abnormality
 Red (steady)	 Red (steady)	 Red (flashing ¹⁰)			LD low temperature abnormality
 Red (steady)	 Red (steady)	 Red (flashing ¹¹)			LD current abnormality
 Red (steady)	 Red (flashing ³)	 Red (steady)			TH3 abnormality
 Red (steady)	 Red (flashing ⁶)	 Red (steady)			TH6 abnormality
 Red (steady)	 Red (flashing ⁷)	 Red (steady)			TH7 abnormality
 Red (steady)	 Red (flashing ⁸)	 Red (steady)			TH8 abnormality
 Red (steady)	 Red (flashing ⁹)	 Red (steady)			TH9 abnormality
 Red (steady)	 Red (flashing ¹⁰)	 Red (steady)			TH10 abnormality
 Red (steady)	 Red (flashing ¹¹)	 Red (steady)			TH11 abnormality
 Red (flashing ¹⁰)	 Red (flashing ¹⁰)	 Red (flashing ¹⁰)			SSL&PW communication abnormality
 Orange (steady)	 Orange (steady)	 Orange (steady)			Initialization

Appendix

POWER	STATUS	LIGHT	SHUTTER	WARNING	Projector status
---	---	---	 Green (steady)		Contrast optimization
---	---	---	---	 Orange (flashing ¹⁾)	High land warning

Flashing 0: Turn on for 0.5 seconds and then turn off for 0.5 seconds

Flashing 1: Flash once and then turn off for 2 seconds

Flashing 2: Flash twice and then turn off for 2 seconds

Flashing 3: Flash three times and then turn off for 2 seconds

Flashing 4: Flash four times and then turn off for 2 seconds

Flashing 5: Flash five times and then turn off for 2 seconds

And so on...

Appendix

Compatible computer specifications

Your projector is designed to accept every computer signal below DCLK 600MHz.
See table below for details on resolution and relevant frequency.

OSD Display	HDMI	DVI	HDBT	Specification			
				Resolution	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock (MHz)"
720x480i, 60Hz	○	-	○	720(1440)x480i	15.734	59.940	27.000
720x576i, 50Hz	○	-	○	720(1440)x576i	15.625	50.000	27.000
720x480, 60Hz	○	-	○	720x480P	31.500	60.000	27.027
720x576, 50Hz	○	○	○	720x576(576P)	31.250	50.000	27.000
1280x720p, 60Hz	○	○	○	1280x720p	45.000	60.000	74.250
1280x720p, 50Hz	○	○	○		37.500	50.000	74.250
1920x1080i, 60Hz	○	○	○	1920x1080i	33.750	60.000	74.250
1920x1080i, 50Hz	○	○	○		28.125	50.000	74.250
1920x1080p, 24Hz	○	○	○	1920x1080p	27.000	24.000	74.250
1920x1080p, 60Hz	○	○	○		67.500	60.000	148.500
1920x1080p, 50Hz	○	○	○		56.250	50.000	148.500
2560X1080, 60Hz	○	-	○	2560x1080p	66.000	59.940	198.000
3840x2160, 30Hz	○	-	-	3840x2160p	67.500	30.000	297.000
3840x2160, 60Hz	○	-	-		135.000	60.000	594.000
3840x2400, 60Hz	○	-	-	3840x2400p	148.125	59.994	592.500
640x480, 60Hz	○	○	○	640x480	31.469	59.940	25.175
640x480, 85Hz	○	○	○		43.269	85.008	36.000
800x600, 56Hz	○	○	○	800x600	35.156	56.250	36.000
800x600, 60Hz	○	○	○		37.400	59.910	38.250
800x600, 72Hz	○	○	○		48.077	72.188	50.000
800x600, 85Hz	○	○	○		53.674	85.061	56.250
1024x768, 60Hz	○	○	○	1024x768	48.363	60.004	65.000
1024x768, 85Hz	○	○	○		68.678	84.997	94.500
1280x720, 60Hz	○	○	○	1280x720	44.772	59.855	74.500
1280x768, 60Hz	○	○	○	1280x768	47.776	59.870	79.500
1280x768, 85Hz	○	○	○		68.630	84.840	117.500
1280x800, 60Hz	○	○	○	1280x800	49.702	59.810	83.500
1280x800, 85Hz	○	○	○		71.554	84.880	122.500
1280x960, 60Hz	○	○	○	1280x960	60.000	60.000	108.000
1280x1024, 60Hz	○	○	○	1280x1024	63.981	60.020	108.000
1280x1024, 72Hz	○	○	○		78.16	71.97	135.060
1280x1024, 85Hz	○	○	○		91.146	85.024	157.500

Appendix

OSD Display	HDMI	DVI	HDBT	Specification			
				Resolution	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock (MHz)"
1366x768, 60Hz	○	○	○	1366x768	47.720	59.799	84.750
1400x1050, 60Hz	○	○	○	1400x1050	65.317	59.978	121.750
1440x900, 60Hz	○	○	○	1440x900	55.935	59.887	106.500
1600x900, 60Hz	○	○	○	1600x900	55.920	60.000	118.998
1600x1200, 60Hz	○	○	○	1600x1200	75.000	60.000	162.000
1680x1050, 60Hz	○	○	○	1680x1050	65.290	59.954	146.250
1920x1080, 60Hz	○	○	○	1920x1080	67.500	60.000	148.500
1920x1200, 60Hz	○	○	○	1920x1200	74.038	59.950	154.000

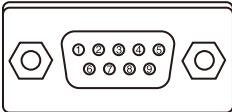
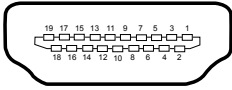
"○" indicates that the input signal source supports this format; "-" indicates that the input signal source does not support this format.

✓ **Note:**

- Changes to this manual may be made without notice..

Appendix

Terminal configuration

SERIAL Terminal(D-SUB 9)				
	1	----	6	----
	2	RXD	7	----
	3	TXD	8	----
	4	----	9	----
	5	GND		
LAN Terminal				
 87654321	1	TX +	5	----
	2	TX -	6	----
	3	----	7	RX +
	4	----	8	RX -
HDBaseT Terminal				
 87654321	1	HDBT_P0	5	HDBT_P2
	2	HDBT_N0	6	HDBT_N2
	3	HDBT_P1	7	HDBT_P3
	4	HDBT_N1	8	HDBT_N3
HDMI Terminal (HDMI Type A 19)				
	1	TMDS Data2+	11	TMDS Clock Shield
	2	TMDS Date2 Shield	12	TMDS Clock-
	3	TMDS Date2-	13	CEC
	4	TMDS Date1+	14	Reserved (N.C. on device)
	5	TMDS Date1 Shield	15	SCL
	6	TMDS Date1-	16	SDA
	7	TMDS Date0+	17	DDC/CEC Ground
	8	TMDS Date0 Shield	18	+5V Power
	9	TMDS Date0-	19	Hot Plug Detect
	10	TMDS Clock+		

Appendix

Menu tree

Main menu	Sub-menu	Setting	Default value	Remarks
Display	Aspect	Normal / 16:6/4:3/16:10/16:9	Normal	
	Project way	Front	Front	
		Rear		
		Ceiling / Front		
		Ceiling / Rear		
	Menu position	Auto ceiling / Front	Upper Left	
		Auto ceiling / Rear		
Color adjust	Background display	Black/Blue	Blue	
	System			
	Image mode	Dynamic	Standard	
		Standard		
		Cinema		
		Blackboard (Green)		
		DICOM SIM		
		Colorboard		
		User Image		
	Contrast	0 - 32	16	
	Brightness	0 - 32	16	
	Color temp	6500 - 12000	9300	
	Sharpness	0 - 15	8	
	Gamma	1.8/2.0/2.2/2.4/2.6	2.2	
	Advanced color adjustment	Advanced color adjustment	Tint	
			Brightness	
			Saturation	
		Level	Level 1 - 7	
		Red	0 - 63	
		Yellow	0 - 63	
		Green	0 - 63	
		Cyan	0 - 63	
		Blue	0 - 63	
		Purple	0 - 63	
	Uniformity	Reset		

Appendix

Main menu	Sub-menu	Setting		Default value	Remarks
Setting	Direct power on	On / Off		Off	
	Signal power on	On / Off		Off	
	Standby Mode	Normal / Eco / Network		Eco	
	High land	On / Off / Auto		Auto	
	Contrast optimization	Off / Mode 1 / Mode 2		Off	
	4K mode	On / Off		On	4K model only
	Laser control	Light source mode	Normal / Long life span mode / Silent mode	Normal	
		Laser adjustment	0 - 100%		
	Key lock	Key lock	Off / Projector / Remote controller	Off	
		Remote control	Code 0 - Code 9	Code 0	
	HDMI setup	Image	Auto / 64-940 / 0 - 1023	Auto	
		Sound	HDMI / Computer	HDMI	
		EDID	Standard / Enhanced	Standard	4K model only
	Edge fusion	Edge fusion		On/Off	Off
		Regional setting	Auxiliary lines	Off/Line/Grid	Off
			Left	On/Off	Off
			Top	On/Off	Off
			Right	On/Off	Off
			Bottom	On/Off	Off
			Left amplitude	0-100%	20%
			Top amplitude	0-100%	20%
			Right amplitude	0-100%	20%
			Bottom amplitude	0-100%	20%
		White Balance	Red Gain	0-64	32
			Green Gain	0-64	32
			Blue Gain	0-64	32

Appendix

Main menu	Sub-menu	Setting			Default value	Remarks	
Setting	Edge fusion	White Balance	Red Offset	0-64	32		
			Green Offset	0-64	32		
			Blue Offset	0-64	32		
			Reset				
		Image edge adjustment	Fusion area	Left / Right / Top / Bottom /Non-fusion area		Left	
			Level	Level 0 - Level 5		Level 0	Level 5 is for Non-fusion area
			Red	0 - 255		0	
			Green	0 - 255		0	
			Blue	0 - 255		0	
			Gain	0-5		2	
			Reset				
			Fusion keystone calibration	Four-point fusion calibration			
		Grid Image Tune					
		Reset					
		Advanced	Horizontal quantity	1 - 4		1	for HDMI input only
			Horizontal position	1 - 4		1	
			Vertical quantity	1 - 3		1	
			Vertical Position	1 - 3		1	
			H Range 1	0 - 100%		20%	
			H Range 2	0 - 100%		20%	
			H Range 3	0 - 100%		20%	
			V Range 1	0 - 100%		20%	
			V Range 2	0 - 100%		20%	
	Stage light control	Stage light control		On / Off	Off		
		Projector ID		1 - 12	1		
	Timed startup and shutdown	Timed startup switch		On / Off	Off		
		Startup time			00:00		
		Timed startup repetition					

Appendix

Main menu	Sub-menu	Setting		Default value	Remarks	
Setting	Timed startup and shutdown	Timed shutdown switch		On / Off	Off	
		Shutdown time		00:00		
		Timed shutdown repetition				
		Time calibration				
		Current time				
Expand	Language	26 Languages		English		
	Keystone	Keystone	Store / Reset		Store	
		H/V Keystone				
		4-Corner correction				
		6-Corner correction				
		Curved correction				
		Grid image tune				
		Reset value				
	Logo	Logo select		Normal/Off	Normal	
		Capture				
		Logo Lock		On/Off	Off	
		Logo PIN Code Change				
	Security	PIN code lock		On/Off	Off	
		Enter PIN code				
		PIN code change				
	Power management	Ready / Shut down / Off / Timer / Ready Countdown		Ready		
	Lens Adjust	Focus			Enable with AH-S22070 only	
		Zoom				
	Test pattern	Off / Gray scale / Color bar / Red / Green / Blue / Cross hatch / White / Black / Raster gray		Off		
	Network	Network setup	LAN			
			DHCP	On/Off	Off	
			IP address		192.168.1.100	
			Subnet		255.255.255.0	
			Gateway		192.168.1.1	
			DNS		192.168.1.1	
		Network status	MAC address			
			IP address		192.168.1.100	
	Factory default					
	Firmware update					

Appendix

Main menu	Sub-menu	Setting	Default value	Remarks
Memory Viewer	Set slide			
	Slide transition effect	Slide down / Slide right	Slide right	
	Sort order	Extend name order / Size order / Time order / Name order	Name order	
	Rotate	No rotate / 270° Degree / 180° Degree / 90° Degree	No rotate	
	Best fit	On/Off	Off	
	Repeat	On/Off	On	
	Apply			
Info.	Input			
	H-sync freq.			
	V-sync freq.			
	Light source usage time			
	Power Management			
	Image mode			

Input	HDMI1
	HDMI 2
	HD-BaseT
	SDI
	DVI
	Network
	Memory Viewer
	USB display

Appendix

Technical Specifications

Mechanical properties

Dimensions (W×H×D)	490mm x205.3mm x 420mm (without protrusions)
Net Weight	18Kg (without projection lens)

LCD resolution

LCD system	0.64" TFT
LCD resolution	S1002: 1920X1200 / S1002P: 4K Enhancement

Optical elements

Image size (diagonal lines)	30"- 300"(with AH-S21030), 50" - 500" (with AH-S22070 / AH-S24010)
Projection distance(with AH-S21030 Lens)	Wide: 0.68m ~ 1.121m / Tele: 7.061m ~ 11.474m as aspec ratio 16:10
Lens (AH-S21030 Lens)	F = 1.58~2.02 / f = 15.3~24.6mm; Zoom ratio: 1.6X
Lens shift (AH-S21030 Lens)	Vertical: +45% ; Horizontal: -21% ~ +21%
Aspect Ratio	16:10

Terminal

USB connector	USB-A x1, USB-B x1
LAN	RJ45 x1
DVI	Digital (DVI-D) 24 pin x1
HDMI IN	HDMI x2
HDMI OUT	HDMI x1
AUDIO IN	3.5mm Mini Type Stereo x1
AUDIO OUT	3.5mm Mini Type Stereo x1
Wired remote control IN	Mini Jack, 3.5mm x1
Wired remote control OUT	Mini Jack, 3.5mm x1
RS232 IN	D-sub 9 pin x1
RS232 OUT	D-sub 9 pin x1
HDBaseT	RJ45 x1
DMX512	S-terminal 9 pin x1
SDI IN	SDI x1

Power

Voltage and power consumption	AC 100~240 V, 7.7A Max, 50/60 Hz
-------------------------------	----------------------------------

Operating Environment

Operating temperature	41°F-104°F (5°C-40°C)
Storage Temperature	14°F-122°F (-10°C-50°C)
High land	under 3650 m

Remote control

Battery	AA or LR6 1.5V ALKALINE TYPE x 2
Operating Range	16.4' (5 m)/±30°
Dimensions	48mm (W) x 26mm (H) x 160mm (D)
Net Weight	67g (including batteries)

Accessories

Safety Guide	AC power cord (US Type x 1 / Euro Type x 1)
Quick Start Guide	HDMI cable
Remote controller	

- The aforesaid specification is subject to change without prior notice.
- Liquid crystal panel is made on the basis of high standard, where 99.99% of the pixels are effective.
Due to the nature of the liquid crystal panel, a fraction of the pixels (0.01% or less) may be ineffective.

Appendix

Information of Optional Lens

Model#	AH-S21030	AH-S22070	AH-S24010
Lens Type	Standard Lens	Short Lens	Long Lens
Zoom Ratio	1.6X Manual zoom	1.21X Motorized zoom	1.7X Manual zoom
F# (Wide-Tele)	1.58 - 2.02	1.7 - 1.8	1.63 - 1.98
f (mm)	15.3 - 24.6	9.66 - 11.65	24.47 - 41.6
Throw ratio (16:10)	1.08 - 1.76	0.679 - 0.821	1.74 - 2.97
Projection image size	30 - 300 inch	50 - 500 inch	50 - 500 inch

Appendix

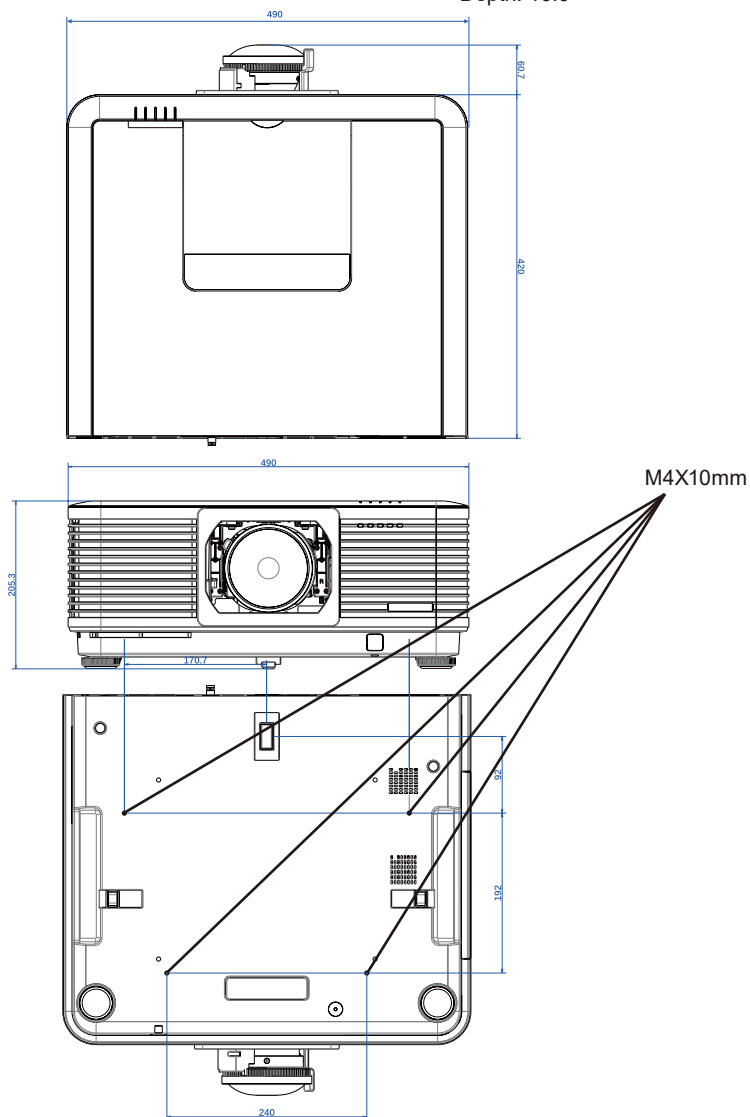
Dimensions

Unit: mm

➤ Screw Holes for Ceiling Mount

Screw: M4

Depth: 10.0



Appendix

PIN code memorandum

Write down the PIN code in the blank below and keep it, If you forgot or lost the number and unable to operate the projector, contact the service center.

PIN code lock

Factory default PIN code 111*

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Logo PIN code Lock No.

Factory default PIN code 111*

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*If this 3-digit number is changed,
the factory default number will be ineffective.



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