



USERS GUIDE

INFOCUS QUANTUM LASER



REGULATORY MODEL	MODEL	LENS TYPE/ RESOLUTION	WXGA	1080P	WUXGA	4K
	QUANTUM LASER IN6009	LENS OPTIONS DEPENDENT	—	—	IN6009	—

- Note:**
- Before using the product, please read these instructions carefully, and kept safely for future reference.
 - OSD options and pictures shown in this document may differ slightly from your product.
 - Changes to this manual may be made without notice.

Features and design

Thank you for purchasing this projector, which is a laser light source DLP display technology projector with laser fluorescent light source technology. 8500 lumens brightness and up to 20,000 hours (standard mode)/30,000 hours (economy mode) ultra-long lifespan make it keep the brightness display for the whole lifespan. Avoiding the radiation of light to human body, it can completely solve the interference of shadow to the screen. With lens option function and lens shift function, it adopts WUXGA (DLP) technology. In addition, features such as silent design and interface location arranged on the side of the projector provide a user-friendly experience.

Main features

- Adopts 20000H long life + laser light source;
- WUXGA (1920x1200) display technology;
- Adopts a variety of interchangeable lenses;
- Support 360° projection technology;
- HDBaseT function (optional);
- Support focus/zoom, lens shift function
- Support automatic keystone correction function
- With 10W*1 speaker;
- Perfect combination of high brightness and color;
- Multiple interfaces, dual HDMI input;
- One-key blank design , press a key, immediately switch to a blank screen state, no need to worry about information leakage;
- Multiple projection modes;
- Instant on/off;
- Support $\leq 0.5W$ ultra-low power standby;
- Password lock and double anti-theft function;
- Support 3D format display.
-

□Note:

- The on-screen menus and pictures in this manual may differ slightly from the product.
- The contents of this manual are subject to change without notice.
- All optical data in this manual is referenced to standard lenses.

Safety operation guideline	5
Safety instruction	5
Disposing of your used product	6
Notes	7
Laser safety caution	9
Air ventilation	11
Place your projector correctly	11
360° projection support	11
Moving your projector	12
FCC Caution	12
Precautions on dealing the projector :.....	13
High Altitude Mode.....	13
Accessory	14
Name and function of your projector	15
Front/Top.....	15
Rear	15
Bottom	15
Terminal	16
Control panel and indicators	17
Remote Controller.....	18
Install battery of remote controller	20
Lens installation	21
Removing the lens	22
Installation	23
Projector Installation	23
Adjusting the screen size	23
Optional lens specifications	26
Adjustment feet	26
Lens shift adjustment.....	28
Connected Devices	29
Connect to PC (Digital and Analog RGB).....	29
Connect to video equipment	30
Connect to audio equipment	31
Connect to USB or Wireless card (USB-A and USB-B)	32
Connect the AC power cord	33

Content

Basic operation.....	34
Power on your projector	34
Power off your projector	35
How to operate the OSD	36
Menu item overview	37
Lens shift function	38
Focus adjustment.....	39
Zoom adjustment	40
Screen Adjustment Function	41
Keystone adjustment	41
Volume adjustment	42
Menu operation.....	42
Remote control operation.....	43
Menu Introduction	45
Display Menu	45
Color Adjust Menu	49
Setting Menu	53
Expand Menu	58
Information Menu.....	65
Network Control	66
Network Control.....	66
System Status.....	67
Maintenance and cleaning	70
Status light indicator.....	70
Clean the lens	71
Clean casing the case of your projector.....	71
Appendix	72
Troubleshooting.....	72
Light indicator status	74
Compatible computer screen.....	75
Terminal configuration	77
Dimensions	79
Technical Specifications	80
RS232 control mode	81

Safety instruction

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

	Caution	Ignoring messages indicated by this symbol may lead to personal injuries.
	Note	Ignoring messages indicated by this symbol may lead to personal injuries or property damage.
		High voltage inside with risks of electric shock.



Caution

Danger of electric shock
DO NOT open this.



Note: DO NOT remove the casing (or back cover) as this may result in electric shock. Users shall not execute any maintenance work on components within your projector. 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.

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.

Notes on Electromagnetic Interference (EMI)

WARNING: Operation of this equipment in a residential environment could cause radio interference.

Cable Information

Use shielded cables or cables fitted with ferrite cores to avoid interference with radio and TV reception.

Product Handling

Please dispose of used products in accordance with local regulations.

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

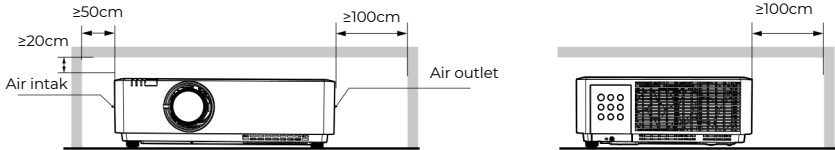
Notes



Caution

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.



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 off 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



Note:

Precautions on using your projector:

- 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.



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 place any objects (magnifying glasses, etc.) within the reach of the projector's light. The light path projected from a mirror is diffuse. Therefore, any type of unusual object that changes the light can cause accidents such as fire or eye injury.
- 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.

Laser safety caution



WARNING

CLASS 1 LASER PRODUCT [IEC 60825-1:2014, EN 60825-1:2014+A11:2021]

CLASS 1 CONSUMER LASER PRODUCT EN 50689:2021

- 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.
- This product is classified as Class 1 laser product 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.
- Radiation pattern from the laser module:
Wavelength: 455nm
Maximum laser radiation output: 216W

Light module

- These 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.

Risk groups

This projector is classified as IEC/EN 62471-5:2015 risk group 2.



WARNING

RG2 PRODUCT OF IEC/EN 62471-5:2015

- As with any bright light source, do not stare into the beam, RG2 IEC/EN 62471-5:2015.

Laser notice

IEC 60825-1:2014, EN 60825-1:2014+A11:2021: CLASS 1 LASER PRODUCT-RISK GROUP 2.
The product's intended use as a consumer laser product and compliant with EN 50689:2021.

**CLASS 1 CONSUMER LASER PRODUCT
EN 50689:2021**

Safety operation guideline

Notes and descriptions for laser products are attached as shown below:



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.

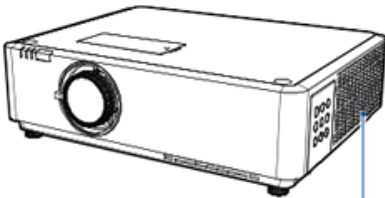


Note:

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 more than 1m 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.



Air outlet (For heat exhaust)



Air intake
(For cold intake)

Place your projector correctly

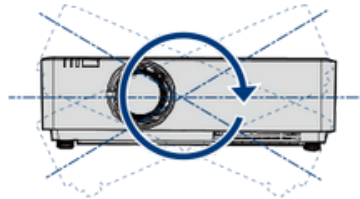
Use your projector at specified location in correct way. Invalid projector location may shorten light source 's life-cycle or even lead to severe incidents or fire.

360° projection supports

Our projector support 360° projection.



Vertical 360°



Horizontal 360°



Vertical & Horizontal 360°

Safety operation guideline



Note:

Precautions on ceiling mount racket installation

- Get qualified technician to install the ceiling mount racket.
- Warranty of your projector does not cover hazards and damage caused by using ceiling mount rackets provided by unauthorized dealers.
- Remove the ceiling mount racket when it is not in use.
- Make sure to use a torque screwdriver, not an impact screwdriver.

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.

FCC Caution

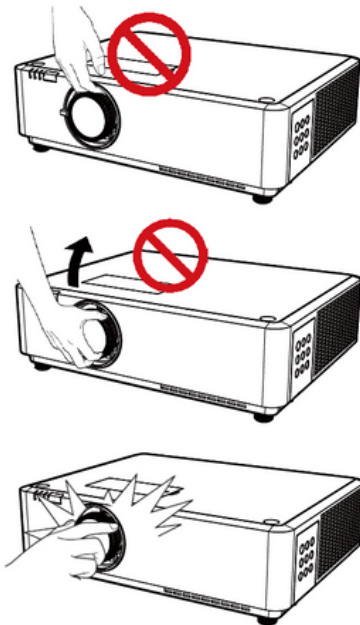
NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment 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.

Note:

Invalid projector location may shorten light source 's life-cycle or even lead to severe incidents or fire.

Precautions on dealing with your projector:

DO NOT lift or move your projector by holding the lens or projecting decoration ring 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:

Projection lens are manual ones.
Precautions on using your projector:



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

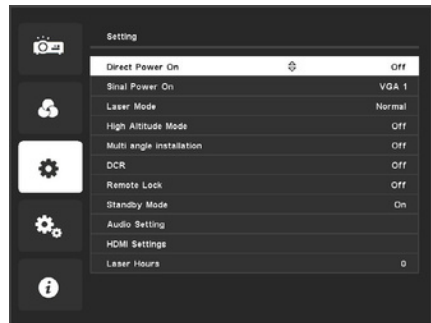


- DO NOT let children touch the lens.

High Altitude Mode

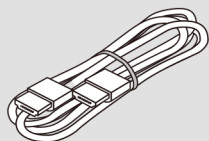
The "High Altitude Mode" setting is automatically turned on when the projector is used at an altitude of about 1500 meters or higher.

If the "High Altitude Mode" setting is set to [On] when using the projector at an altitude of less than about 1500 meters, it may cause the fan speed to increase resulting in increased wind noise, so it is recommended to set "High Altitude Mode" to [Off] in "Settings". It is recommended to set "High Altitude Mode" in "Settings" to [Off]. Using the projector at an altitude of approximately 1500 meters or higher may shorten the life of optical parts such as the light module.

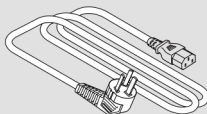


Accessory for IN6009 series as follows:

The projector includes such following accessories. Please check all the packaging. If any items are missing, please contact your dealer immediately.

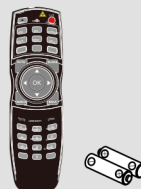


HDMI cable



Power cord spec
according to country &
region.

Power Cord



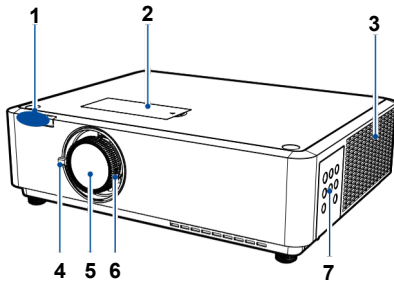
Remote Control (AA*2)Not
in the attachment



Quick Start Guide

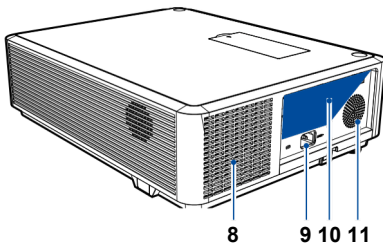
Name and function of your projector

Front/Top



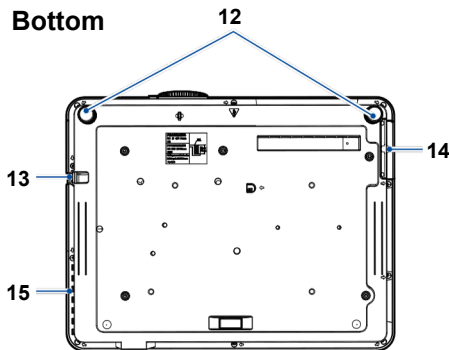
- 1 LED indicator
- 2 Lens shift
- 3 Air outlet grille
- 4 Zoom ring
- 5 Projection lens
- 6 Focus ring
- 7 Keypad

Rear



- 8 Air intake grille
- 9 AC power cord port
- 10 Terminal
- 11 Speaker

Bottom



- 12 Adjustment feet
- 13 Anti-theft lock
- 14 Air outlet grille
- 15 Air intake grille

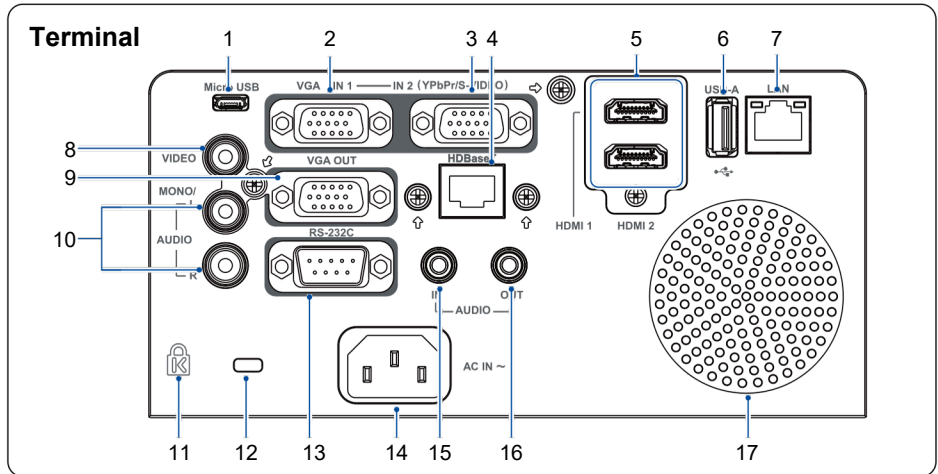


Note:

DO NOT place your hands or other objects near the vent:

- Vent will shed heat. Do not put your hands or face, or thermolabile objects placed near the outlet . You need keep at least a distance of 3" (1m) away, or it may cause burning or damage.

Name and function of your projector



1. MICRO USB connector

Software upgrades.

2. VGA IN1 terminal

Connect the out put signal from the computer to this terminal.

3. VGA IN2/YPbPr/S-VIDEO IN terminal

Connect the signals from the RGB,YPbPr and S terminal outputs to this terminal.

4. HD-Base T terminal

Connect to this port via a network cable for optional HD-Base Tfunctionality.

5. HDMI terminal

Connect the HDMI digital output signal to this terminal.

6. USB-A connector

Max supports 5V 2A output.

7. LAN connector

When controlling and operating the projector using a wired network, connect the network cable to this terminal.

8. VIDEO terminal

Connect the video output signal to this terminal.

9. VGA OUT terminal

When output as a monitor, the signal from or ② or ③ is output to other monitors.

10. MONO(L/R) terminal

The mono audio signal(single audio terminal) should be connected to the MONO(R/L) connector.

11. Anti-theft post sign

12. Anti-theft post hole

This connector is used to prevent the projector from being stolen.

13. RS-232

When the projector is operated using the RS232 function, connect serial communication to this terminal.

14. Power cord connector

15. AUDIO IN terminal

Connect the computer audio signal connected to ② or ③ device to this terminal.

16. AUDIO OUT terminal

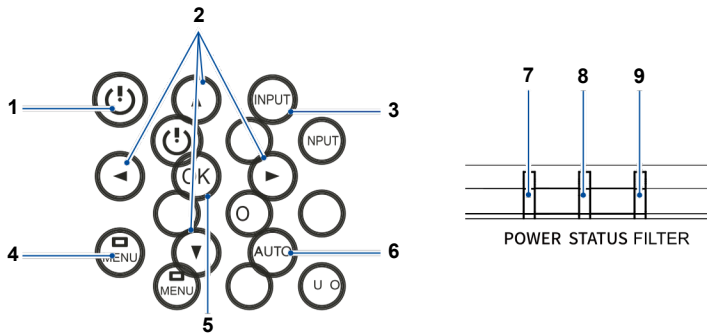
Outputs all audio signals through this terminal to an effect or other audio device.

17. Speaker

Note:

HDBaseT is an optional feature. On models without HDBaseT support, the HDBaseT port is not included.

Control panel and indicators



1. POWER

Open or close the projector.

2. Arrow ▲▼◀▶ /VOLUME ◀▶ /KEystone ▼

- Select an item or adjustment data in the on-screen menu.
- For volume setting or trapezoidal correction adjustment.
- For password entry.

3. INPUT

Select the input source.

4. MENU

Open or close the menu.

5. OK

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

6. AUTO

In VGA signal only, open the screen adjustment menu.

7. Power indicator

- When the projector is in eco standby, this indicator is red and always on.
- During operation, the indicator lights yellow and remains steady.
- In power control mode(network standby), the indicator blinks red.
- In power control mode(normal standby), the indicator blinks yellow.

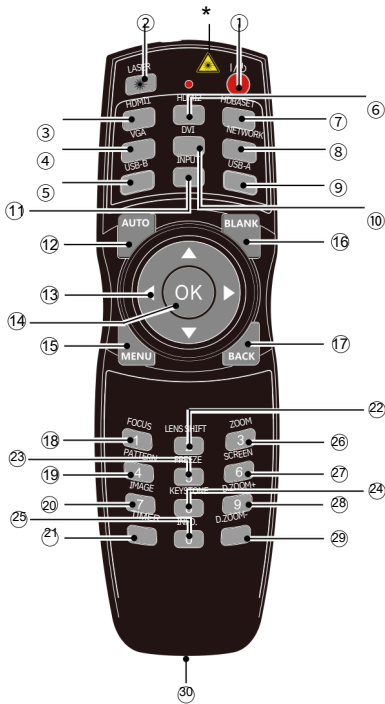
8. The Status indicator

This indicator blinks orange when errors such as the projector's internal temperature is outside the operating range.

9. The Filter indicator

This indicator blinks red when there is abnormal fan feedback.

Name and function of your projector

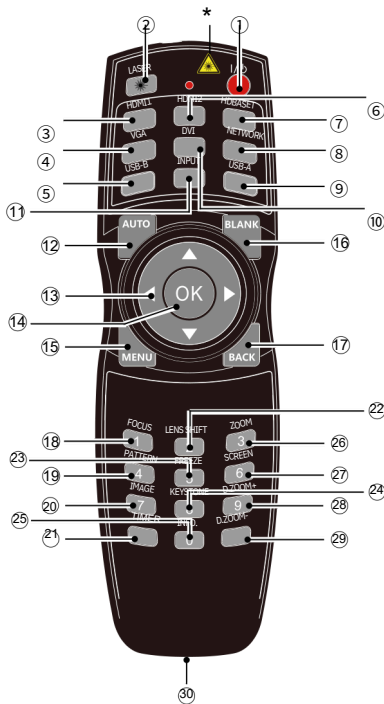


- *Laser Emitting Window: The remote control can be used as a laser pointer when the laser button is pressed during projection. Please do not look directly at the excitation window or point the laser emission window at the human body to avoid personal injury.

- ① **I / O**
Power On or Off the projector
- ② **LASER**
Press this button when projecting, the remote control can be used as a laser pointer.
- ③ **HDMI 1**
Select the "HDMI 1" input source.
- ④ **VGA**
Select the "VGA" input source.

- ⑤ **USB-B**
No function.
- ⑥ **HDMI 2**
Select the "HDMI 2" input source.
- ⑦ **HDBASET**
Select the "HDBaseT" input source."
- ⑧ **NETWORK**
Go to the Web Information Editing menu.
- ⑨ **USB-A**
Select the "5V Output" switch.
- ⑩ **DVI**
No function.
- ⑪ **INPUT**
Turns the input menu on or off.
- ⑫ **AUTO**
VGA signal opens the screen adjustment menu.
- ⑬ **▲ ▼ ◀ ▶**
 - Select an item or adjust the data in the on OSD menu.
 - Adjust the value in the trapezoidal correction and volume mode.
- ⑭ **OK**
Enter the selected menu or perform the selected adjustment item.
- ⑮ **MENU**
Turns the on-screen menu on or off.
- ⑯ **BLANK**
Turns off the images and sounds on the screen.
- ⑰ **BACK**
Returns to the previous menu level.
- ⑱ **FOCUS**
No function.
- ⑲ **PATTERN**
Select the built-in test chart (screen loop).
- ⑳ **IMAGE**
No function.

Name and function of your projector



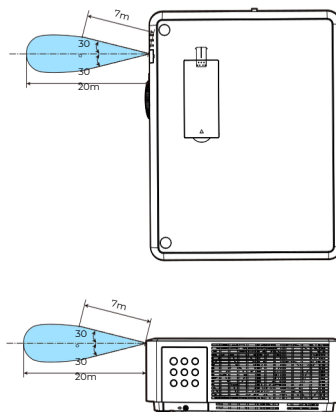
- 21 **TIMER**
Enable the timer function.
- 22 **LENS SHIFT**
No function.
- 23 **FREEZE**
Freeze projected images.
- 24 **KEystone**
Keystone calibration.
- 25 **INFO.**
Display current status information of your projector.
- 26 **ZOOM**
Menu.
- 27 **SCREEN**
No function.
- 28 **D.ZOOM+**
Zoom in projected image.
- 29 **D.ZOOM-**
Zoom out projected image.
- 30 **Wired remote control output port**
No function.

Remote controller operation range

Point your remote controller to the IR receiver of your projector.

Maximum operation range of your remote controller is about arc 30° and with about an area of radius 7 meters or about 20 meters in straight line.

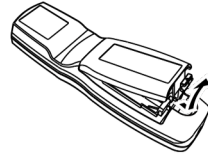
Operating range



Name and function of your projector

Install battery of remote controller

- 1 Open the battery cover.

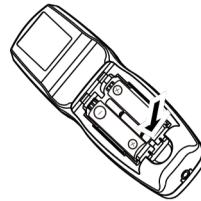


- 2 Open the battery compartment cover.

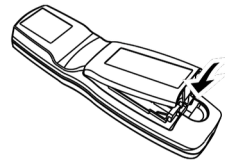
Insert two AA batteries battery into the remote controller.

Place your batteries with its anode (+) and cathode (-) under the correct direction.

Keep both poles in good connection to the contacts within the compartment.



- 3 Put the cover back.



Please follow the following rules for safety operation:

- Use two of AA 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.

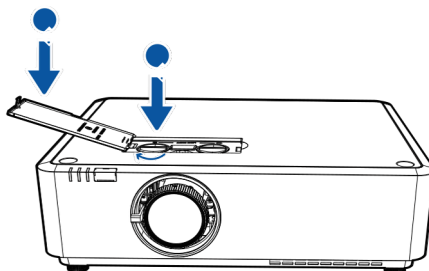
Lens installation

Prepare:

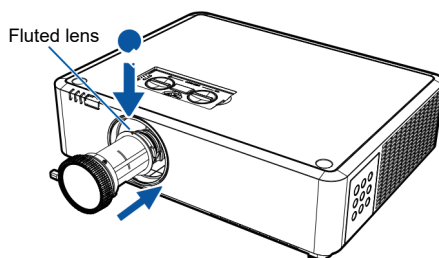
Remove the dust cover from the projector and prepare the projection lens.

1. Open the upper cover flap.

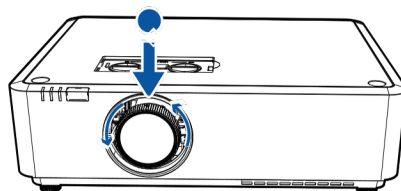
2. Turn the left displacement knob “right” to the end.



3. Insert the lens into the projector with the lens notch facing upwards towards the projector.

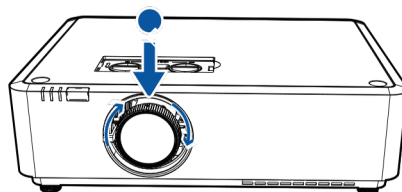


4. Rotate the lens to the left into the slot and push the lens in at the same time.



5. Rotate the lens to the right until it clicks.
The lens is now fixed in the projector.

6. Adjust the projected image as required.
Refer to “Lensshift function” on page 38 ,
“Focus adjustment” on page 39 , and “Zoom Adjustment” on page 40 for details. Close the small cover when the adjustment is completed.

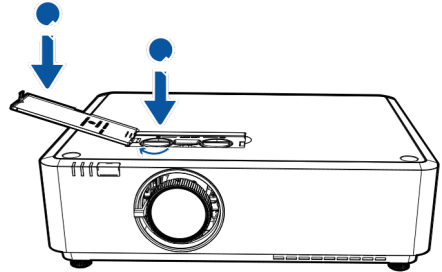


Name and function of your projector

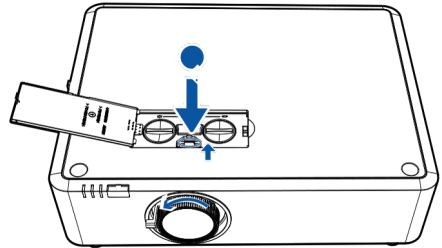
Remove the lens

1. Open the upper cover flap.

2. Turn the left displacement knob “right” to the end.

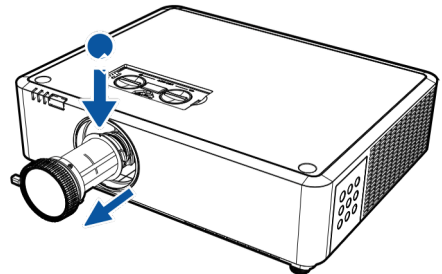


3. Push the metal lever in the notch inward to the end and rotate the lens to the left to the end.



4. Pull the lens outward to complete removal and close the small cover.

- After removing the lens, the lens cap (front and back) that came with the lens needs to be installed before storing the lens.
- If there is no lens to be mounted on the projector, install the dust cap supplied with the projector.



Note:

- Turn off the main power switch before disassembling, then unplug the power cord socket and wait until the projector chassis has cooled down sufficiently to operate.
- Do not touch or remove any parts other than the lens and related components, as this may result in malfunction, electric shock, fire, or other accidents.
- Before installing or replacing the lens, make sure that the model of the projection lens matches the model of the projector.
- When replacing the lens, it must be handled by a professional. During the replacement process, be careful of mechanical injuries and thermal burns of the lens.
- For more information about the lens and its installation, contact your local dealer.
- Be careful not to drop the lens when removing it.
- For safety reasons, be sure to disconnect the power to avoid electric shock and fire and other safety accidents when replacing the lens.

Installation

Projector Installation

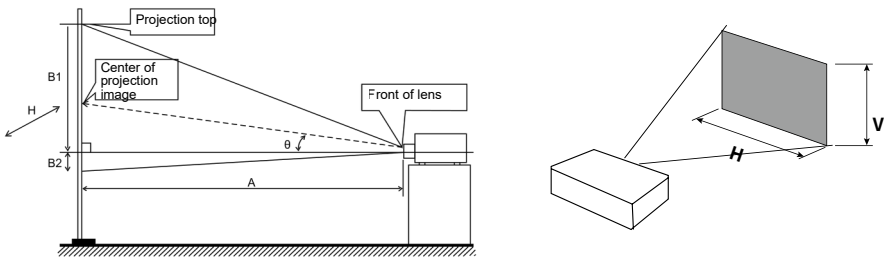
This projector supports the following six projection methods (Rear, Ceiling/Front, Ceiling/Rear, Auto Ceiling/Front, Auto Ceiling/Rear), so please install the projector according to the installation location. The preset projection method is set to Front Projection, and you can change other projection method settings from the menu options.

Adjusting the screen size

Position the projection frame so that it is perpendicular to the projector. When the projection screen is not vertical to the projector, please adjust the projection angle of the projector in time.

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.
- The further the projector is away from the screen, the larger the projection size will be.
- Use the following table to install the projector in the best position from the screen. The values provided are for reference only.



LENS-102

WUXGA 16:10 aspect ratio				
Screen Size (inch)	Width (m)	Height (m)	Wide (m)	Tele (m)
60	1.29	0.81	0.84	1.01
70	1.51	0.94	0.98	1.18
80	1.72	1.08	1.11	1.35
90	1.94	1.21	1.25	1.52
100	2.15	1.35	1.39	1.68
120	2.58	1.62	1.67	2.02
150	3.23	2.02	2.09	2.53
200	4.31	2.69	2.79	3.37
250	5.38	3.37	3.48	4.21
300	6.46	4.04	4.18	5.05
400	8.62	5.38	5.57	6.74
500	10.77	6.73	6.97	8.42

Installation

1080P 16:9 aspect ratio				
Screen Size (inch)	Width (m)	Height (m)	Wide (m)	Tele (m)
60	1.33	0.75	0.86	1.04
70	1.55	0.87	1.00	1.21
80	1.77	1.00	1.15	1.38
90	1.99	1.12	1.29	1.56
100	2.21	1.25	1.43	1.73
120	2.66	1.49	1.72	2.08
150	3.32	1.87	2.15	2.60
200	4.43	2.49	2.86	3.46
250	5.53	3.11	3.58	4.33
300	6.64	3.74	4.30	5.19
400	8.86	4.98	5.73	6.92
500	11.07	6.23	7.16	8.66

LENS-103

WUXGA 16:10 aspect ratio				
Screen Size (inch)	Width (m)	Height (m)	Wide (m)	Tele (m)
60	1.29	0.81	1.33	2.17
70	1.51	0.94	1.55	2.53
80	1.72	1.08	1.77	2.89
90	1.94	1.21	2.00	3.26
100	2.15	1.35	2.22	3.62
120	2.58	1.62	2.66	4.34
150	3.23	2.02	3.33	5.43
200	4.31	2.69	4.44	7.24
250	5.38	3.37	5.55	9.05
300	6.46	4.04	6.66	10.86
400	8.62	5.38	8.87	14.47
500	10.77	6.73	11.09	18.09

Installation

1080P 16:9 aspect ratio				
Screen Size (inch)	Width (m)	Height (m)	Wide (m)	Tele (m)
60	1.33	0.75	1.37	2.23
70	1.55	0.87	1.60	2.60
80	1.77	1.00	1.82	2.98
90	1.99	1.12	2.05	3.35
100	2.21	1.25	2.28	3.72
120	2.66	1.49	2.74	4.46
150	3.32	1.87	3.42	5.58
200	4.43	2.49	4.56	7.44
250	5.53	3.11	5.70	9.30
300	6.64	3.74	6.84	11.16
400	8.86	4.98	9.12	14.88
500	11.07	6.23	11.40	18.60

Installation

Optional lens specifications

For some common operations, it is recommended to use the remote control to complete.

Model		LENS-101	LENS-102	LENS-103	LENS-104
Image**					
Image cycle		21.5mm	22.2mm	24.54mm	24.54mm
Lens Type		Zoom Lens	Zoom Lens	Zoom Lens	Zoom Lens
Zoom/Focus		Manual	Manual	Manual	Manual
F		2.4	2.4	2.0~3.4	2.0~3.4
f(mm)		15.3~24.6	9.66~11.65	21.5~44	21.5~44
Throw ratio (16:10)		1.03~1.68	0.647~0.782	1.5~3.0	2.1~4.2
Zoom Ratio		1.63	1.2	2	2
Lens shift	H	H:±8%	H:±8%	H:±9%	H:±9%
	V	up: 37%, down: 10%	up: 42%, down: 10%	up: 60%, down: 10%	up: 60%, down: 10%
Screen Size (optimized image performance)		80-300inch	80-300inch	80-300inch	80-300inch
Weight(g)		400	1000	900	1400

**Lens images are for reference only. Actual lens may differ from image.



Note:

Projection lens non-standard accessories, if needed, please contact the distributor to purchase independently.

Adjustment feet

Adjust the left and right tilt.

1. **Place the projector so that it is perpendicular to the screen.**

2. **Turn the adjusting foot left or right to make adjustments.**

- Using the adjustable feet, the projection angle can be adjusted to 11 degrees, as shown in Figure (1).
- Adjustment feet knob distance $\leq 18\text{mm}$, as shown in Fig. (2) ;
- Rotate the adjustable feet and tilt the projector to the proper height as shown in Figure (3);
To raise the projector, rotate both legs clockwise.
To lower the projector or retract the adjustable feet, rotate both feet counterclockwise.

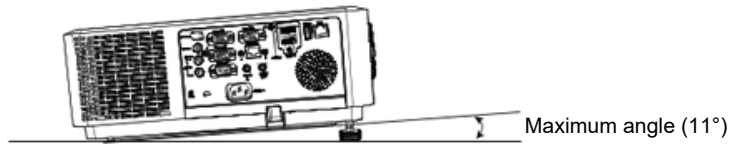


Figure (1)

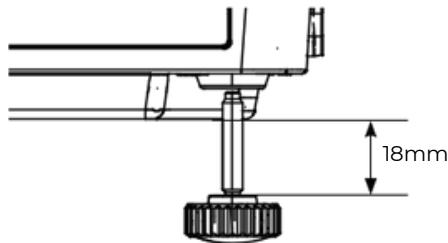


Figure (2)

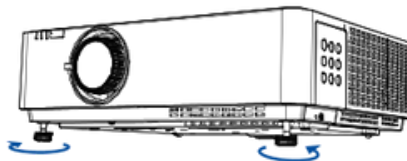
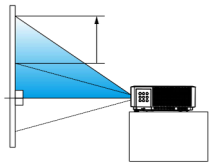
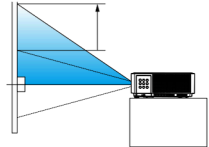
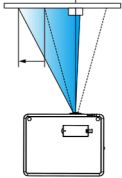
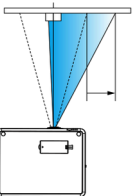
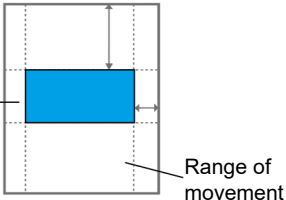


Figure (3)

Installation

Lens shift adjustment

The manual lens shift function allows you to move the projection lens left, right, up and down. This function allows the user to easily adjust the position of the projected image.

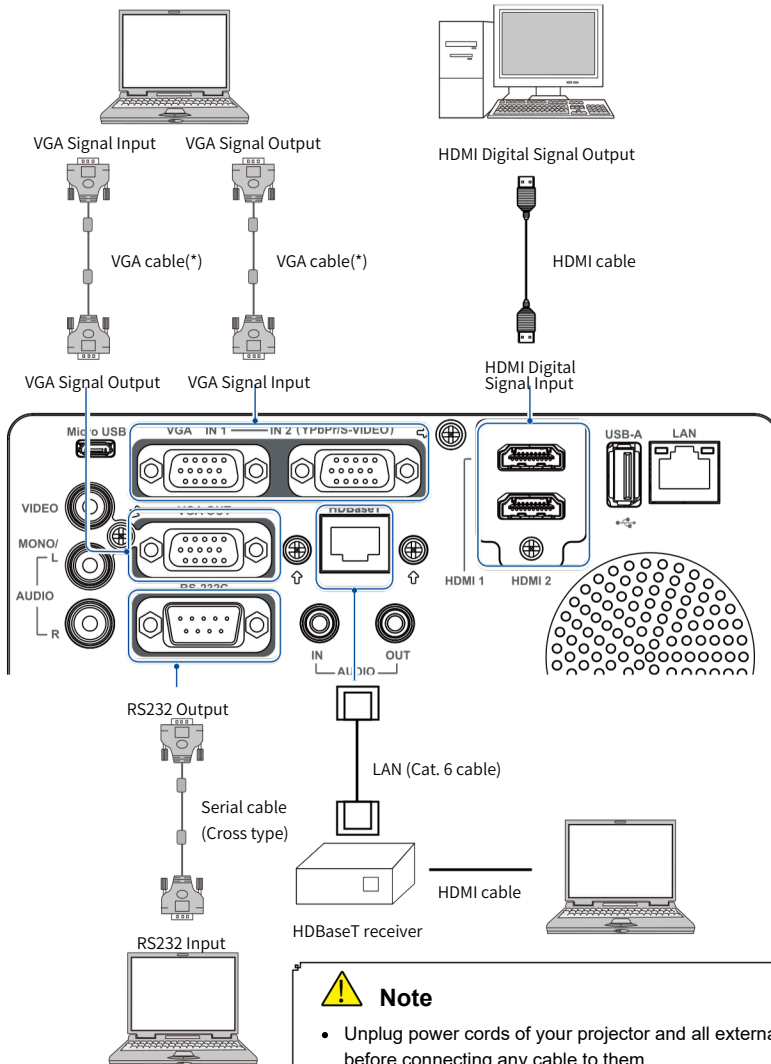
Projector position can be shifted upwards by up to 50% of the upper magnitude of the image (based on the scaler)	The projector lens moves to the top. 
Projector position can be shifted downward by up to 10% of the top and bottom of the image (based on scaler)	The projector lens moves to the bottom. 
Projection position can be shifted left up to 8% of the width of the projected image (based on the scaler)	The projector lens moves to the far left. 
Projection position can be shifted right up to 8% of the width of the projected image (based on the scaler)	The projector lens moves to the far right. 
Lens shift adjustment range-refer to the lens parameters (the screen will be darkened or shadowed when the lens is shifted to its limit).	The projector lens moves to center position 

Connected Devices

Connect to PC (Digital and Analog RGB)

Cables for connection

- VGA cable *
- HDMI cable (*: This cable is not included.)
- Serial cable (Cross type)**



Note

- Unplug power cords of your projector and all external equipment before connecting any cable to them.
- HDBaseT is an optional feature. On models without HDBaseT support, the HDBaseT port is not included.

Connected Devices

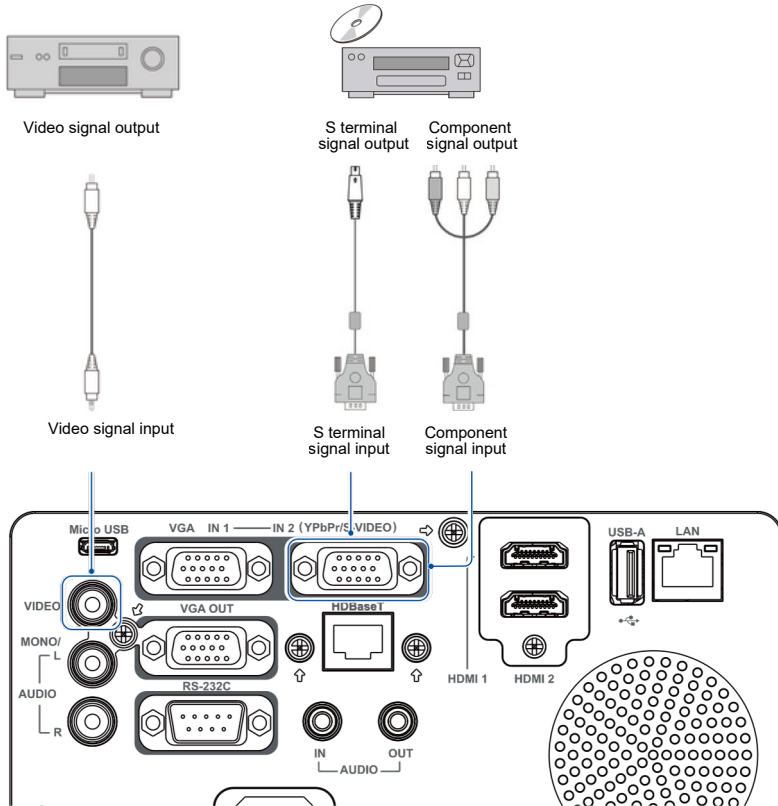
Connect to video equipment

Cables for connection:

- S terminal cable **
- BNC cable *
- Component color difference cable **

(*: This projector is not equipped with this cable.)

(**): Specialized cables can be ordered through your dealer.)



Note

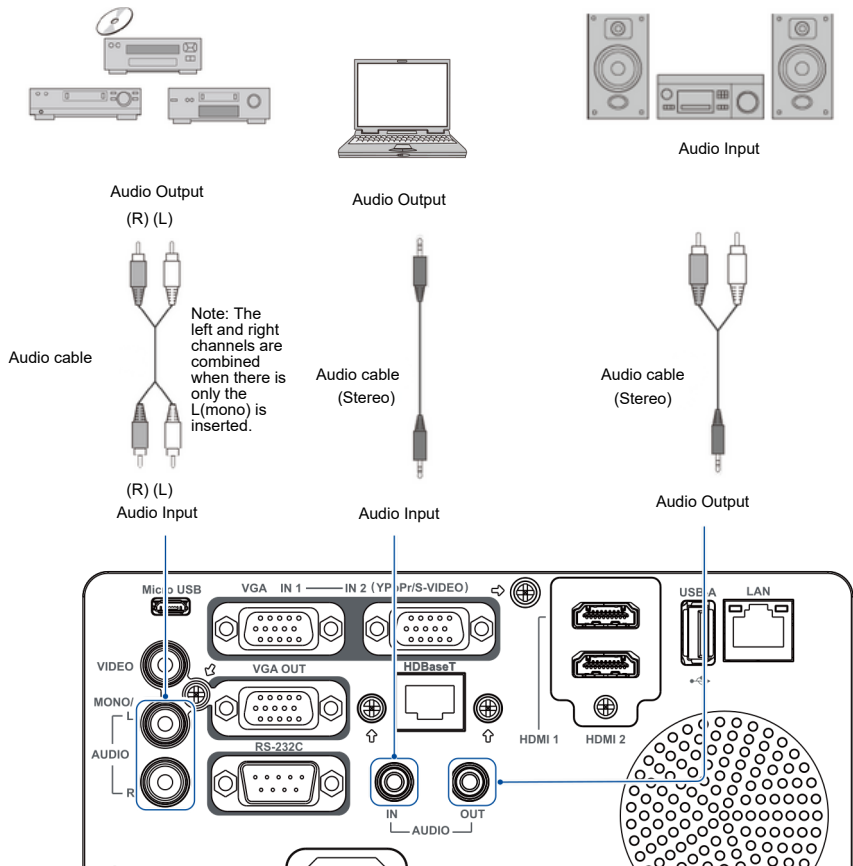
Unplug power cords of your projector and all external equipment before connecting any cable to them. HDBaseT is an optional feature. On models without HDBaseT support, the HDBaseT port is not included.

Connect to audio equipment

Cables for connection:

- Audio cable* (*: This cable is not included.)

External audio devices



Note

- Unplug power cords of your projector and all external equipment before connecting any cable to them.
- HDBaseT is an optional feature. On models without HDBaseT support, the HDBaseT port is not included.

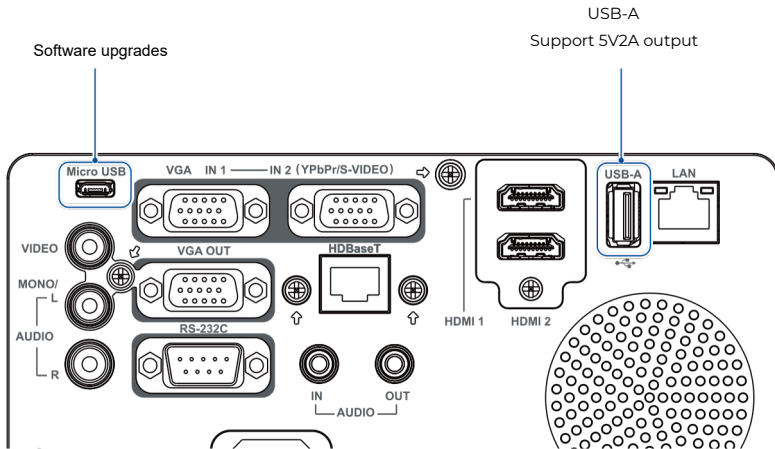
Connected Devices

Connect to USB or Wireless card (USB-A and USB-B)

Cables for connection:

- USB-A or USB-B cable*

(*: This cable is not included.)



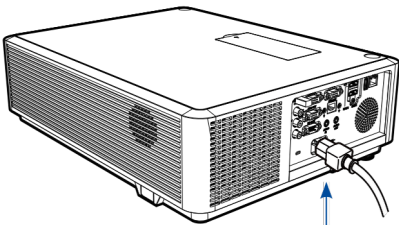
Note

- Unplug power cords of your projector and all external equipment before connecting any cable to them.
- HDBaseT is an optional feature. On models without HDBaseT support, the HDBaseT port is not included.

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 single-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.

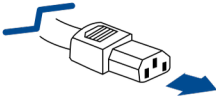
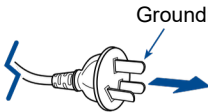


Connect the AC power cord to the projector.



Note:

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

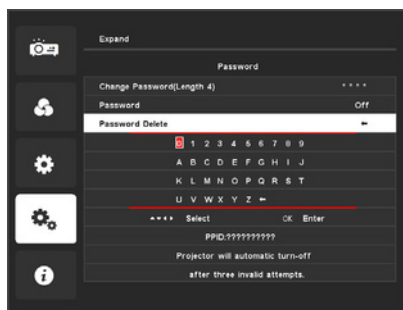
Precautions on power cord	
Your AC powercord should meet regulations of the country/district where your projector is used. Please make sure the type of the power plug is compliant with those given in figure below. Make sure you are using a valid AC power cord. In case the included AC power cord does not comply with the AC power socket in your location, call your dealer for replacement.	
The projector side	Connect to the AC power socket
 Connect to power cord connector of your projector	 Connect to AC power socket

Note:

- For safety reasons, unplug the AC power cord when the projector is not in use. When the projector is connected to an outlet using the AC power cord, the projector is in standby mode and consumes a small amount of power.
- Using an incorrect cable may affect the performance of the product and may even lead to accidents such as electric shock or fire. To ensure product performance and safety of use, use the same type of cable as the original cable.
- Commonly used connection cables include AC power cables, VGA cables, audio cables, serial control cables, etc.

Power on your projector

1. Before turning on the projector, please first complete the connection of external devices (with computers and VCRs, etc.).
2. Connect the projector's AC power cord to an AC outlet. The power indicator is lit in red.
3. Press the POWER button on the control panel or remote control. The power indicator lights up yellow and the cooling fan starts working. The signal search screen appears on the screen.
4. If the projector is locked with a password, the password entry prompt will appear. Please follow the instructions below to enter the password. After three errors, the power will turn off and need to be turned on again, and you can try three times each time you turn on the projector.



Note:

- If the "Password" function is set to "Off", the Power On Password screen will not be displayed.

Enter password

- 1) Press the four-way key to select the keypad characters.
- 2) Press the <OK> key.

The set number changes to * and the cursor automatically moves to the next frame.

- 3) Repeat the above steps to enter a four-digit number.

When the four-digit number has been entered, a correct password enters the system directly, and an incorrect one returns ERR.



What is a password?

A password (PIN) is a security number used to identify an individual and allow those who know the password to operate the projector. Setting a PIN prevents unauthorized persons from operating the projector.

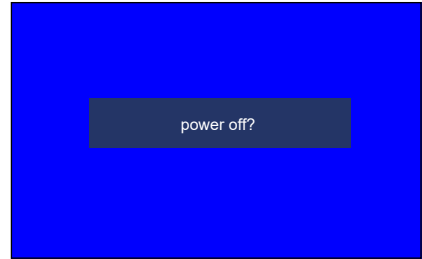
The PIN consists of a four-digit number. For information on how to lock the projector with a PIN, see the "Security" function in the menu.

Notes on Password Operation If the password is forgotten, the projector cannot be turned on. Set a new password carefully and save it. If you lose or forget the password, consult your dealer or a service center.

Power off your projector

1. Press the POWER button on the control panel or remote control and the message "Power Off?" appears on the screen.

2. When the message "Power Off?" appears, press the POWER button again to confirm. If no action is taken, the message will disappear after 20 seconds. After the projector powers down, the power indicator will turn solid red, indicating the eco standby state.



"Power Off?" - The default message disappears after 20 seconds.

Note:

- When the "Direct Power On" function is set to "On", the projector will turn on automatically when the AC power cord is connected to the power outlet.
- The rotation speed of the cooling fan will vary depending on the internal temperature of the unit.
- Do not put the projector in the case until it has cooled down sufficiently.
- After turning off the projector, disconnect the power cord connection and the fan will stop working immediately.

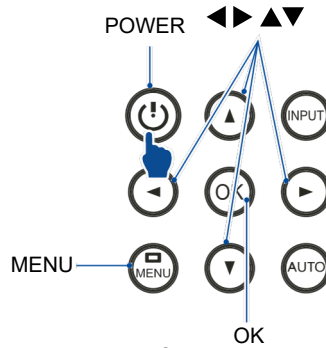
Basic operation

How to operate the OSD

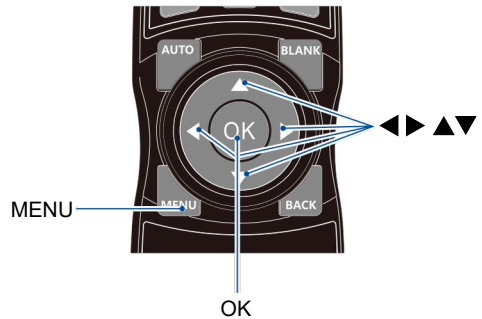
You can adjust and configure the projector through the OSD (On-Screen Display) menu. The menu uses a multi-layer structure: each main menu contains several sub-menus, and each sub-menu may include additional sub-levels.

Please refer to the appropriate section of this manual for the procedure for the adjustment and settings.

Side control panel

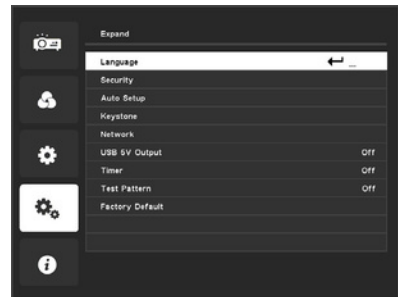


Remote control

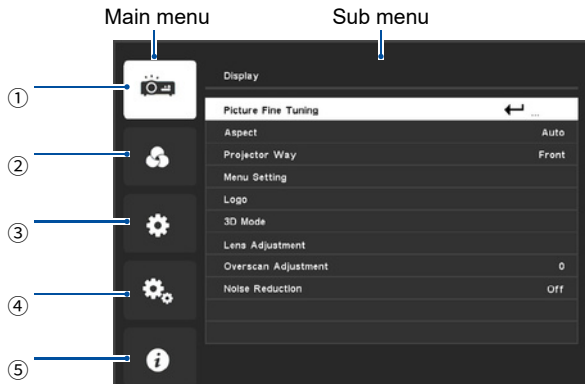


1. Press the MENU button on the top control panel or remote control and the OSD menu will open up.
2. Press the ▲▼ button to select the main menu option. Press OK button or ► button to enter a submenu.
3. Press ▲▼ button to select required submenu, then press OK button or ► button to set up or enter an option.
4. Press ▲▼ button to select settings or navigate options, then press OK button to confirm the selection and exit.
5. Press ◀ button or BACK button on remote control and control panel to return to main menu. Press the MENU button to exit the OSD.

Expand Menu



Menu item overview



① Display menu

- Picture Fine Tuning: Select the H Position, V Position, Frequency, Tracking, and Auto Adjust parameters under the VGA signal to make it match with the computer's input signal format.
- Aspect: Auto, 4:3, 16:9, 16:10, Native, 16:6.
- Projector Way: Select Front, Rear, Ceiling/Front, Ceiling/Rear, Auto Ceiling/Front and Auto Ceiling/Rear
- Menu Setting: Set the Menu Position, Menu Display Time, Menu Transparency, and Reminder Message of the on-screen menu in the screen.
- Logo: Select Setup Startup Screen, Blank Screen, Search Screen.
- 3D Mode: 3D Sync Mode, 3D Video Mode, 3D Sync Invert.
- Screen Adjustment: Set the Zooming and Screen Shift of the projection screen.
- Overscan Adjustment: Displays the image cut edge enlargement.
- Noise Reduction: Automatic interference suppression switch under Video & S-Video signals.

② Color Adjust menu

Image Mode: The image modes that can be selected are Dynamic, Standard, Cinema, Blackboard (Green), User Image, or 3D

When the selected image mode is a User Image, the color adjustment options are: Contrast, Brightness, Saturation, Color Temp, Sharpness, and other settings can be turned on.

③ Setting menu

Used to set the projector's basic function operation settings: Direct Power On, Signal Power On, Laser Mode, High Altitude Mode, Multi angle installation, DCR, Remote Lock, Standby Mode, Audio Setting, HDMI Settings, and Laser Hours Setting.

④ Expand menu

Adjustable projector Language, Security, Auto Setup, Keystone, Network, USB 5V Output, Timer, Test Pattern, Factory Default.

⑤ Information menu

Displays the parameters of Input, Resolution, Firmware Version, Laser Hours, Laser Mode, Image Mode, and serial number.

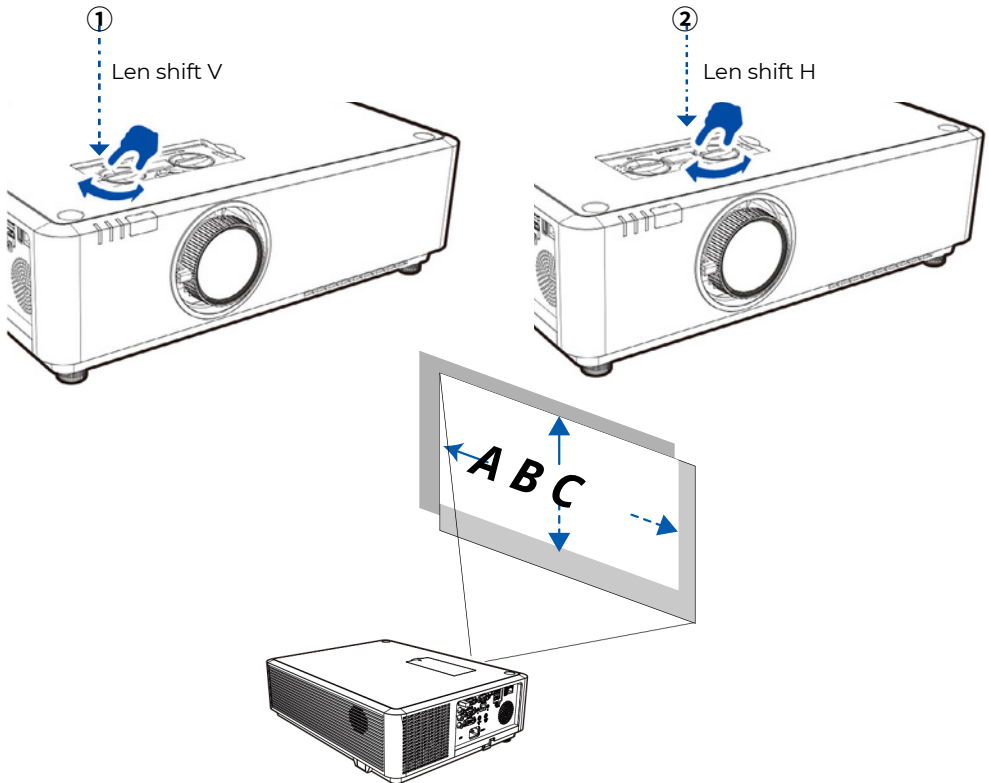
Basic operation

Lens shift function

Rotate the ① and ② button to make Lens shift adjustment manually.

Rotate ① to shift the image up or down, allowing adjustment above or below the lens's central projection axis. (Refer to the lens parameters.)

Rotate ② to shift the image left or right, adjusting the position relative to the lens's horizontal projection axis. (Refer to the lens parameters.)

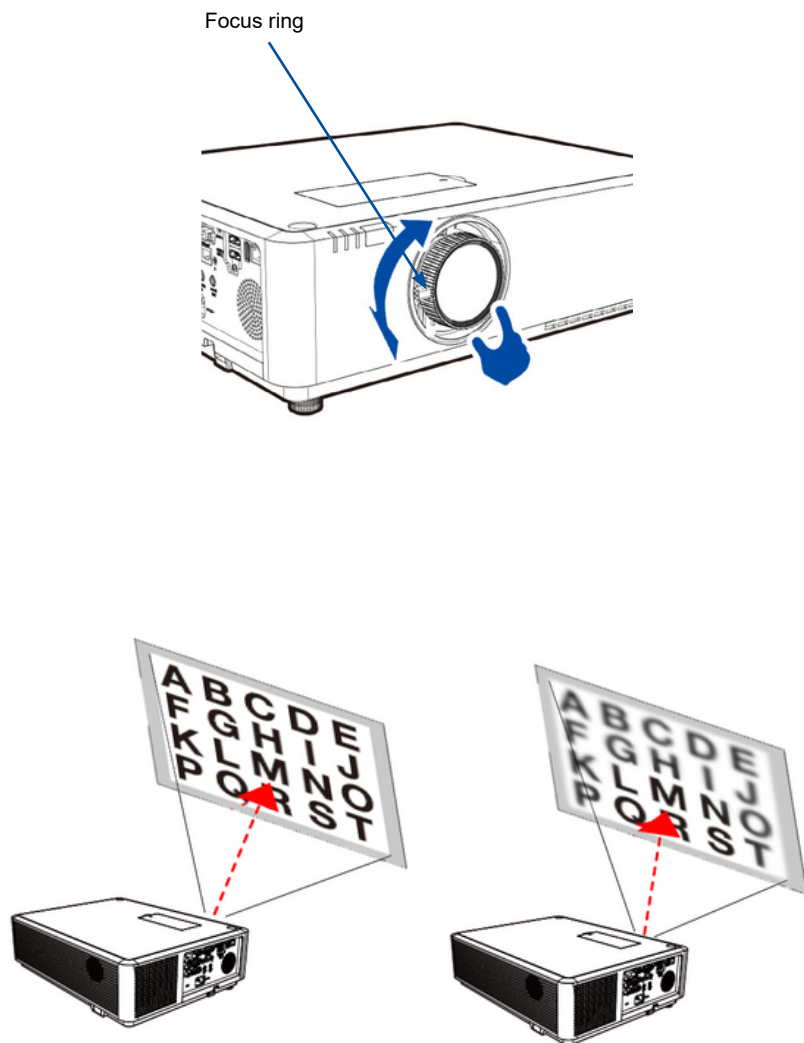


Note:

- The adjustment knob can rotate more than one full turn, but the projection position cannot exceed the shift range indicated on the following page. Do not force the knob beyond its limits, as this may cause damage.
- If the lens is shifted to the maximum in the diagonal direction, the edges of the screen will be dark or shaded.
- The vertical shift adjustment should always be completed with the image positioned upward. If the adjustment is left with the image shifted downward, subsequent zoom or focus adjustments—or strong vibration—may cause the projected image to shift slightly further downward.

Focus adjustment

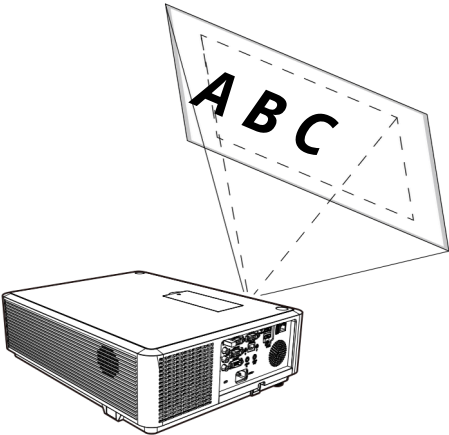
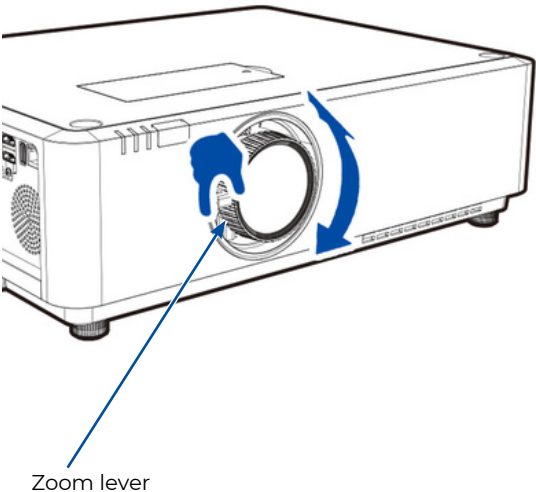
Use the focus ring to obtain the best focus.



Basic operation

Zoom adjustment

Turn the zoom lever clockwise and counterclockwise.



Screen Adjustment Function

Press the "AUTO" button on the remote control or on the side control panel to select the VGA signal input source and open the screen adjustment menu.

Keystone adjustment

If the projected image appears trapezoidal, you can manually correct the distortion by following the steps below.

Press the Quick Keystone Correction button on the remote control, and it will display the "Keystone" prompt box.

Press **▲▼◀▶** button adjustments to correct the trapezoidal distortion. The user can store the adjustment values for trapezoidal correction. The menu page accesses the trapezoidal correction, which allows horizontal, vertical and four corner adjustments.

H/V Keystone Adjust the projected image when the projector is on the horizontal or vertical keystone distortion.

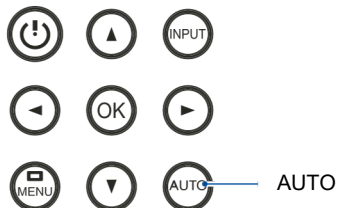
Four Corner Adjust Adjust the projected image when the projector is keystone distortion of four corners .

Reset The correction values will be restored to the factory defaults.

Note:

- When no correction is being made, there will not be an arrow indicator.
- When calibration is in progress, the arrow in the direction appears.
- Horizontal/vertical adjustment range $\pm 120 \sim +120$.
- When the trapezoidal correction prompt box is displayed, if you press the remote control **◀** button again, it is equivalent to the BACK button to return to the previous level.

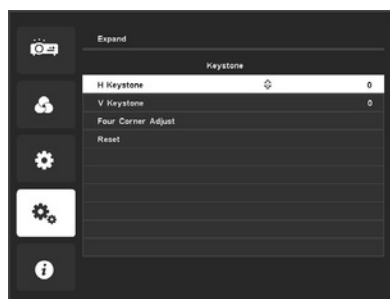
Side control panel



Remote control



Expand Menu



Basic operation

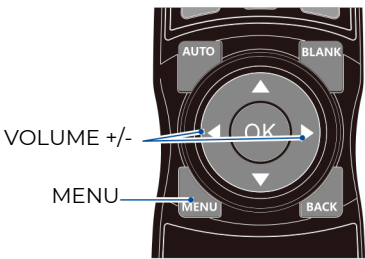
Volume adjustment

Direct operation, recommended to be done with the remote control.

VOLUME

Press the remote control four-way ◀▶ button +/- to adjust the volume.

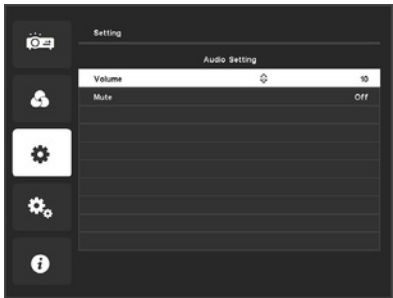
Remote control



Menu operation

1. Press the Menu key to display the on-screen menu. Press ▲▼ to select the "Setup" menu, and press OK or ◀▶ to enter the submenu.
2. Press ▲▼ to select "Sound Setting", and then press OK.
3. Press ▲▼ to adjust "Volume" or "Mute".
4. Press OK to confirm your selection.

Volume menu



Remote control operation

For some common operations, it is recommended to use the remote control to complete them.

D.ZOOM+/-

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

Press  for +/- screen image size respectively.

TIMER

Press TIMER on the remote control. Timer display 05:00 appears on the screen and the timer starts (05:00-00:00).

Adjustment range: 5~30, each press increases the time by 5 minutes up to 30 minutes, press again to cancel the timing function.



Timer display

FREEZE

Press the FREEZE button on the remote control to pause the projected image. To cancel the freeze function, press FREEZE once more or any other button.

BLANK

Press the BLANK button on remote control; 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 →

Remote control



Basic operation

Input selection

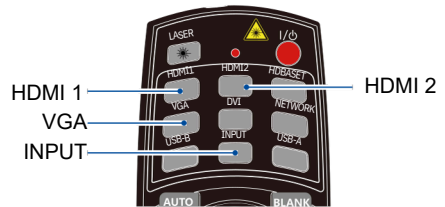
Basic operation

Press the INPUT button on the top control panel or on the remote control to select one of the following input: VGA1, VGA2, HDMI1, HDMI 2, HDBaseT, Video , S-Video, Component as input signal.

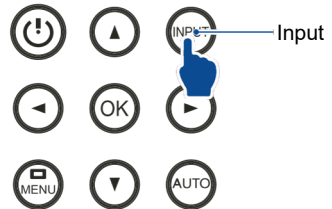
Menu operation

1. Press the INPUT button on remote control to enter the Input menu.
2. Press button to select VGA1, VGA2, HDMI1, HDMI 2, HDBaseT(optional), Video, S-Video, Component, then press the OK button to select the input signal.

Remote control



Side control panel



VGA1

Select "VGA 1" when using a computer connected to the VGA IN 1 terminal with a VGA cable.

VGA2

Select "VGA 2" when using a computer connected to the VGA IN 2 terminal with a VGA cable.

HDMI 1

Select "HDMI 1" when using a device connected to the HDMI 1 terminal with a HDMI cable.

HDMI 2

Select "HDMI 1" when using a device connected to the HDMI 1 terminal with a HDMI cable.

HDBaseT

Select "HDBaseT" if the input source is from a device connected to the HDBaseT terminal with a network cable.

Video

Select "Video" when the video input signal is connected to the Video terminal.

S-Video, Component

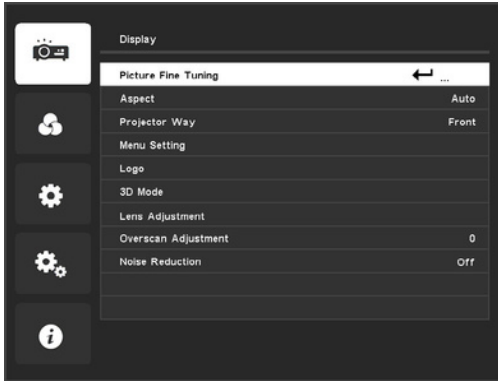
Select "S-Video, Component" when converting YPBPR/S-Video to VGA video input signal terminals.

Input menu



Menu Introduction

Display Menu



[Picture Fine Tuning]

Select the H Position, V Positon, Frequency, Tracking, and Auto Adjust parameters under the VGA signal to make it match with the computer's input signal format.

Press the MENU key on the remote control or side control panel to display the on-screen menu.

Press the ▲▼ indicator key to select the "Display" menu, then press the OK or ► key.

1) Press ▲▼ to select [Picture Fine Tuning].

2) Press the <OK> .

[Aspect]

Adjusts the image to fit the screen size while keeping the input signal aspect ratio constant.

Press the MENU key on the remote control or side control panel to display the on-screen menu.

Press the ▲▼ indicator key to select the Display menu, then press the OK or ► key.

1) Press ▲▼ to select [Aspect].

2) Press the <OK> .

3) Press ▲▼ to switch items.

- [Auto], [4:03], [16:09], [16:10], [Native], [16:06]

[Projector Way]

This function is used to set the way of projector's projects images.

Press the MENU key on the remote control or side control panel to display the on-screen menu.

Press the ▲▼ indicator key to select the "Display" menu, then press the OK or ► key.

1) Press ▲▼ to select [Projector Way].

2) Press the <OK> .

3) Press ▲▼ to switch items.

Menu Introduction

Item	Option	Description
Projector Way	Front	When installing the projector on the table and projecting from the front of the screen.
	Rear	When installing a projector on a table and projecting from behind the screen (using a semi transparent screen).
	Ceiling/Front	When using a projector lifting bracket (optional) to install the projector in front of the screen.
	Ceiling/Rear	When using a projector lifting bracket (optional) to install the projector behind the screen (using a semi transparent screen).
	Auto Ceiling/Front	The menu is displayed when the projector is mounted in front of the screen.
	Auto Ceiling/Rear	The menu is displayed when the projector is installed at the rear of the screen.

[Menu Setting]

This function is used to set the position of the menu screen (OSD).

Press the MENU key on the remote control or side control panel to display the on-screen menu.

Press the ▲▼ indicator key to select the "Display" menu, then press the OK or ► key.

1) Press ▲▼ to select [Menu Setting].

2) Press the <OK> .

3) Press ▲▼ to switch items.

Item	Option	Description
Menu Setting	Menu Position	The menu is located at the top left of the screen.
		The menu is located at the top right of the screen.
		The menu is located in the center of the screen.
		The menu is located at the bottom left of the screen.
		The menu is located at the bottom right of the screen.
	Menu Display Time	Always display.
		Adjustment range: 0~30S, one step every 5S.
	Menu Transparency	Adjustment range: 0~60,one step every 10.
	Reminder Message	On
		OFF

[Logo]

This function is used to set the power-up screen.

Press the MENU key on the remote control or side control panel to display the on-screen menu.

Press the ▲▼ indicator key to select the "Display" menu, then press the OK or ► key.

1) Press ▲▼ to select [Logo].

2) Press the <OK> .

3) Press ▲▼ to switch items.

Item	Option	Description
Logo	Splash Screen	Standard (factory), (off) black, blue, green, red, cyan, yellow, magenta, white
	Blank Screen	Standard (factory), (off) black, blue, green, red, cyan, yellow, magenta, white
	Search Screen	Standard (factory), (off) black, blue, green, red, cyan, yellow, magenta, white

[3D Mode]

The projector supports the 3D picture function. By reproducing the depth of the image, it allows users to experience realistic 3D movies, videos and motion events.

Press the MENU key on the remote control or side control panel to display the on-screen menu.

Press the ▲▼ indicator key to select the "Display" menu, then press the OK or ► key.

1) Press ▲▼ to select [3D Mode].

2) Press the <OK> .

3) Press ▲▼ to switch items.

Item	Option	Description
3D Mode	3D Sync Mode	DLP-Link
	3D Video Mode	Side-By-Side
		Top-Bottom
		Frame Sequential
		Frame Packing
		Off
	3D Sync Invert	On
		Off

Note:

- Users need to wear 3D glasses to view 3D images.
- When the projector cannot recognize the 3D format, you can select "3D Video Format" to solve the problem.
- When the image depth is inverted, you can enable the "3D Synchronized Reverse" function to solve the problem.
- The 3D picture function is only available with HDMI/HDBASET input source and the refresh rate needs to be >30Hz to set.

[Screen Adjustment]

This function is used to set the power-on screen adjustment.

Press the MENU key on the remote control or side control panel to display the on-screen menu.

Press the ▲▼ indicator key to select the "Display" menu, then press the OK or ► key.

1) Press ▲▼ to select [Screen Adjustment].

2) Press the <OK> .

3) Press ▲▼ to switch items.

Menu Introduction

Item	Option	Description
Screen Adjustment	Zooming	Adjustment range: -5~+5, every 1 is one step.
	Screen Shift	Activated only when the projected content is $\geq$ frame size condition.

[Overscan Adjustment]

This function is used to set the power-up screen.

Press the MENU key on the remote control or side control panel to display the on-screen menu.

Press the **▲▼** indicator key to select the "Display" menu, then press the OK or **►** key.

- 1) Press **▲▼** to select [Overscan Adjustment].
- 2) Press the <OK> .
- 3) Press **▲▼** to switch items.
 - Adjustment range: 0~+5, every 1 is a gear.

[Noise Reduction]

This function is used to suppress or eliminate noise in an image to improve the quality of the image.

Press the MENU key on the remote control or side control panel to display the on-screen menu.

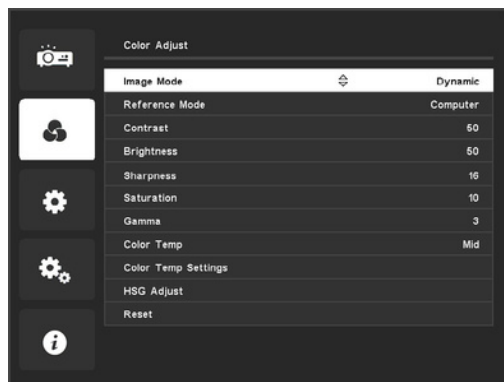
Press the **▲▼** indicator key to select the "Display" menu, then press the OK or **►** key.

- 1) Press **▲▼** to select [Noise Reduction].
- 2) Press the <OK> .
- 3) Press **▲▼** to switch items.
 - On/Off.

□Note:

- Enabled for Video & S-Video signals, grayed out for other signals.

Color Adjust Menu



Color Adjustment is used to set the image mode and make adjustments to the picture quality of the projected image.

[Image Mode]

Press the MENU key on the remote control or control panel to display the on-screen menu. Press the ▲▼ indication key to select the "Color Adjust" menu, and then press the OK or ► key.

- 1) Press ▲▼ to select [Image Mode].
- 2) Press the <OK> .
- 3) Press ▲▼ to switch items.

Item	Option	Description
Image Mode	Dynamic	The image becomes suitable for general motion pictures. It is suitable for use in a wide area and will give the highest brightness.
	Standard	The camera's preset normal image mode achieves natural color reproduction.
	Cinema	The image becomes suitable for motion picture sources. The grayscale level is richer for movie viewing.
	Blackboard	This image mode is suitable for images projected on a black (green) surface, such as in a classroom. This mode helps to improve the quality of images projected on a black (green) board.
	User Image	Image mode preset by the user in the Image Adjustment menu.
	3D	The input source automatically cuts into 3D mode when it is connected to a 3D signal.

[Reference Mode]

Press the MENU key on the remote control or control panel to display the on-screen menu. Press the ▲▼ indication key to select the "Color Adjust" menu, and then press the OK or ► key.

- 1) Press ▲▼ to select [Image Mode].

Menu Introduction

- 2) Press the <OK>.
- 3) Press ▲▼ to select [User Image].
- 4) Press the <OK> key to activate the gray checkbox.
- 5) Press the <BACK> key to return to the previous menu and select [Reference Mode].
- 6) Press ▲▼ to switch items.

Item	Option	Description
Reference Mode	Dynamic	The image becomes suitable for general motion pictures. It is suitable for use in a wide area and will give the highest brightness.
	Standard	The camera's preset normal image mode achieves natural color reproduction.
	Cinema	The image becomes suitable for motion picture sources. The grayscale level is richer for movie viewing.
	Blackboard	This image mode is suitable for images projected on a black (green) surface, such as a classroom. For example, a classroom. This mode helps to improve the quality of images projected on a black (green) board.
	3D	The input source automatically switches to 3D mode when it is connected to a 3D signal.

[Contrast]

Press ▼ to decrease the contrast, adjustment range: 0 - +50.

Press ▲ to increase the contrast, adjustment range: 50-100.

[Brightness]

Press ▼ to decrease the brightness, adjustment range: 0 - +50.

Press ▲ to increase the contrast, adjustment range: 50 - 100.

[Sharpness]

Press ▼ to decrease the brightness, adjustment range: 0 - +31.

Press ▲ to increase the contrast, adjustment range: 0 - +31.

[Saturation]

Press ▼ to adjust saturation.

Adjustment range: 0 - +10.

[Gamma]

Press ▼ to indicator key to lighten the color tone.

Press ▲ to darken the color tone.

Adjustment range: 0 - +9.

[Color Temp]

Press the ▲▼ indicator key to select the color temperature (High, Mid, Low).

[High]: Image appears bluer.

[Mid]: Image appears natural.

[Low]: Image appears reddish.

[Color Temp Settings]

Press the □□ indicator key to select the color temperature adjustment.

Item	Option	Description
Color Temp Settings	Red Gain	Press ▼ to lighten the red tone; press ▲ to darken the red tone. Adjustment range: 0 - +199.
	Green Gain	Press ▼ to lighten the green tone; press ▲ to darken the green tone. Adjustment range: 0 - +199.
	Blue Gain	Press ▼ to lighten the blue tone; press ▲ to darken the blue tone. Adjustment range: 0 - +199.
	Red Offset	Press ▼ to lighten the blue tone; press ▲ to darken the blue tone. Adjustment range: 0 - +199.
	Green Offset	Press ▼ to lighten the green offset; press ▲ to darken the green offset. Adjustment range: 0 - +100.
	Blue Offset	Press ▼ to lighten the blue tone; press ▲ to darken the blue tone. Adjustment range: 0 - +100.

[HSG Adjust]

Press the ▲▼ key to select HSG Adjustment.

Item	Option	Description
HSG Adjust	Primary Color	Adjust the red, green, blue, cyan, magenta, and yellow of the original color respectively.
	Hue	Press ▼ to lighten the current color tone; press ▲ to darken the current color tone. Adjustment range: -99 - +99.
	Saturation	Press ▼ to lighten the saturation of the current color; press ▲ to darken the saturation of the current color. Adjustment range: 0 - +199.
	Gain	Press ▼ to lighten the current color gain; press ▲ to darken the current color gain. Adjustment range: 0 - +199.

Menu Introduction

[Reset]

Press the MENU key on the remote control or control panel to display the on-screen menu.

Press the ▲▼ indication key to select the "Color Adjust" menu, and then press the OK or ► key.

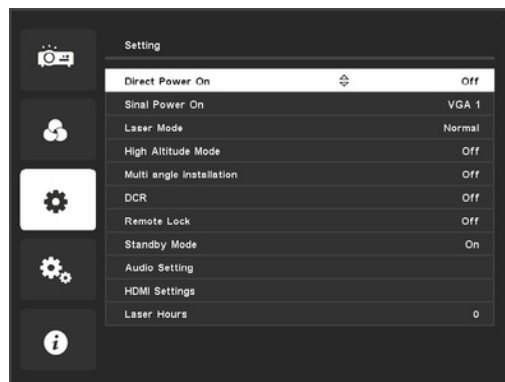
1) Press ▲▼ to select [Reset].

2) Press the <OK> .

Note:

- After selecting Apply, the menus on this page all revert to their default values.

Setting Menu



This projector has a "Setup" menu that allows you to set up other functions as described below.

[Direct Power On]

When this function is set to "On", the projector will turn on automatically when the power cord is connected to the power outlet.

Press the MENU key on the remote control or control panel to display the on-screen menu.

Press the ▲▼ indicator key to select the "Setting" menu, and then press the OK or ► key.

1) Press ▲▼ to select [Direct Power On].

2) Press the <OK> .

3) Press ▲▼ to switch items.

Item	Option	Description
Direct Power On	On	The projector turns on immediately when it is powered off.
	Off	Press the POWER key to turn on the projector after it enters standby mode.

[Signal Power On]

When this function is set to "On", when the machine is in normal standby mode, the signal cable is connected to the projector, and the signal is transmitted to the projector through the signal cable to automatically turn on the machine.

Press the MENU key on the remote control or control panel to display the on-screen menu.

Press the ▲▼ indicator key to select the "Setting" menu, and then press the OK or ► key.

1) Press ▲▼ to select [Signal Power On].

2) Press the <OK> .

3) Press ▲▼ to switch items.

Menu Introduction

Item	Option	Description
Signal Power On	VGA1	After entering the standby state, the projector detects the signal source through VGA1, and the projector turns on immediately.
	VGA2	After entering standby mode, the projector detects the signal source through VGA2 and the projector turns on immediately.
	HDMI1	After entering standby mode, the projector detects that the signal source is communicated through HDMI1, and the projector turns on immediately.
	HDMI2	After entering the standby state, the projector detects the signal source conveyed through HDMI2 and the projector turns on immediately.

Note:

This function requires unplugging the source signal or connecting the source signal and then unplugging the power supply to take effect.

[Laser Mode]

Selects the light source operating mode.

Press the MENU key on the remote control or control panel to display the on-screen menu.

Press the ▲▼ indicator key to select the "Setting" menu, and then press the OK or ► key.

1) Press ▲▼ to select [Laser Mode].

2) Press the <OK> .

3) Press ▲▼ to switch items.

- [ECO], [Norma].

[High Altitude Mode]

Selects the high altitude mode in which the machine is currently operating.

Press the MENU key on the remote control or control panel to display the on-screen menu.

Press the ▲▼ indicator key to select the "Setting" menu, and then press the OK or ► key.

1) Press ▲▼ to select [High Altitude Mode].

2) Press the <OK> .

3) Press ▲▼ to switch items.

Item	Option	Description
High Altitude Mode	Off	The projector turns off the high altitude mode. It is recommended to use the projector below 1500 m.
	On	The projector enters high altitude mode immediately. It is recommended to use the projector between 1500 m ~ 3650m above sea level.
	Automatic	The projector autonomously detects that the working environment is at an altitude >1500 meters and automatically turns on the high altitude mode.

Note:

- Set to [OFF] when using the projector at an altitude of 1500 m or less.
- Set to [ON] when using the projector at an altitude between 1500 m and 3650 m. Failure to do so may shorten the life of the internal components and cause malfunction.

- Do not use the projector at an altitude of 3650m and above, as this will shorten the life of the internal components and cause malfunction.
- When set to [On], the fan noise becomes louder and the fan speed increases.

[Multi angle installation]

Select the multi-angle installation mode to apply 360° full-aspect projection function.

Press the MENU key on the remote control or control panel to display the on-screen menu.

Press the ▲▼ indicator key to select the "Setting" menu, and then press the OK or ► key.

1) Press ▲▼ to select [Multi angle installation].

2) Press the <OK> .

3) Press ▲▼ to switch options.

Item	Option	Description
Multi angle installation	On	The projector enters the Multi-Angle Mounting Mode, in the on state the machine image mode defaults to standard, and Dynamic Mode is locked out from being enabled.
	Off	The projector turns off the multi-angle mounting mode.

Note:

- To ensure the best performance of the projector, set the Multi-Angle Installation Mode to [On] when enabling the machine's 360° Full-Aspect Projection function.

[DCR]

DCR (Dynamic Contrast Ratio) Contrast Optimization, contrast correction and signal compensation are performed automatically on an image-by-image basis to obtain the best contrast image. In an all-black screen, the black field brightness is reduced to absolute zero.

Press the MENU key on the remote control or control panel to display the on-screen menu.

Press the ▲▼ indicator key to select the "Setting" menu, and then press the OK or ► key.

1) Press ▲▼ to select [DCR].

2) Press the <OK> .

3) Press ▲▼ to switch options.

Item	Option	Description
DCR	On	The DCR is enabled.
	Off	The DCR is disabled.

[Remote Lock]

Turn on or off the remote control. In remote control lock mode, press the panel OK button for more than 5 seconds to unlock automatically, please pay attention to the screen prompt.

Press the MENU key on the remote control or control panel to display the on-screen menu.

Press the ▲▼ indicator key to select the "Setting" menu, and then press the OK or ► key.

1) Press ▲▼ to select [Remote Lock].

2) Press the <OK> .

Menu Introduction

3) Press **▲▼** to switch selection.

Item	Option	Description
Remote Lock	On	The remote control is locked.
	Off	The remote control works normally.

[Standby Mode]

This projector offers a choice of three standby modes.

Press the MENU key on the remote control or control panel to display the on-screen menu.

Press the **▲▼** indicator key to select the "Setting" menu, and then press the OK or **▶** key.

1) Press **▲▼** to select [Standby Mode].

2) Press the <OK> .

3) Press **▲▼** to switch items.

Item	Option	Description
Standby Mode	Normal	Can be turned on using a detected signal.
	ECO	Standby power consumption is less than 0.5W.
	Network	Power on can be controlled by network.

[Audio Setting]

Press the MENU key on the remote control or control panel to display the on-screen menu.

Press the **▲▼** indicator key to select the "Setting" menu, and then press the OK or **▶** key.

1) Press **▲▼** to select [Audio Setting Mode].

2) Press the <OK> .

3) Press **▲▼** to switch items.

Item	Option	Description
Audio Setting	Volume	Press the ▼ indicator key to minimize the volume; press the ▲ indicator key to maximize the volume. Adjustment range: 0 - +20.
	Mute	On : Mute is on, volume is not adjustable.
		Off : Mute off.

[HDMI Settings]

If the image cannot be projected properly after an external device is connected to the projector's HDMI 1/HDMI 2 terminal, switch the picture setting. If the sound cannot be output normally, switch the audio input setting.

Press the MENU key on the remote control or control panel to display the on-screen menu.

Press the **▲▼** indicator key to select the Setting menu, and then press the OK or **▶** key.

1) Press **▲▼** to select [HDMI Settings].

2) Press the <OK> .

- The [HDMI SETUP] screen is then displayed to enter the submenu.

3) Press **▲▼** to switch items

Item	Option	Description
HDMI Settings	HDMI Range	Automatic
		Full
		Limited
	Color Space	Auto
		RGB
		YPbPr/YCbCr

Note:

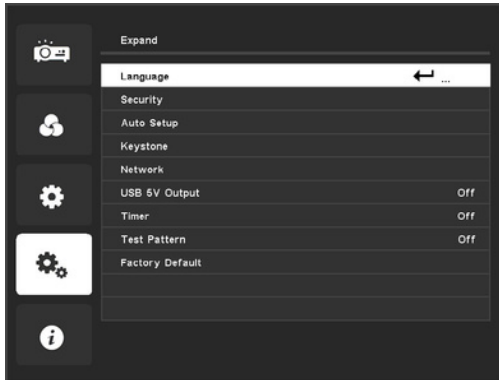
HDMI setup option, optional only with HDMI1 and HDMI2 channels.

[Laser Hours]

Displays the projector's current light source runtime.

Menu Introduction

Expand Menu



This projector has an "Extended" menu that allows you to set up additional functions as described below.

[Language]

The user can switch the language of the screen display.

Press the MENU key on the remote control or control panel to display the on-screen menu.

Press the ▲▼ indicator key to select the "Expand" menu, and then press the OK or ► key.

- 1) Press ▲▼ to select [Language].
- 2) Press the <OK> .
- 3) Press ▲▼ to switch options.

- The names of various menus, settings, adjustment screens, controls, etc. are displayed in the selected language.

There are 26 languages: English, German, French, Italian, Spanish, Polish, Swedish, Dutch, Portuguese, Japanese, Chinese, Traditional Chinese, Korean, Russian, Arabic, Turkish, Finnish, Norwegian, Danish, Indonesian, Hungarian, Czech, Kazakh, Vietnamese, Thai, and Farsi.

[Security]

Users can make security settings.

Press the MENU key on the remote control or control panel to display the on-screen menu.

Press the ▲▼ indicator key to select the "Expand" menu, and then press the OK or ► key.

- 1) Press ▲▼ to select [Security].
- 2) Press the <OK> .
- 3) Press ▲▼ to switch items.

Item	Option	Description
Security	Change Password (Length 4)	1) Press ▲▼◀▶ instruction key to select characters in the keyboard; 2) After entering the current password OK, the display will show Enter new password, characters to meet the 4 code after the prompt: Confirm password. 3) Press <OK> key to confirm. Be sure to memorize and save the new boot screen password. If you forget the password, you will not be able to change the power-on screen settings again.
	Password	Press ◀▶ to toggle the power-on password status On : Power on password is on, enter the password to enter the system. Off : Power on password function is off.
	Password Delete	1) Press ▲▼ to select [Delete Password]. 2) Press <OK>. 3) Prompt: Input the current password, when the password is correct, press <OK> to delete the password.

Note:

- Remember to keep your new screen password in a safe place. If it is forgotten, the projector will be locked at the password entry screen. Contact your dealer for help.

[Auto Setup]

Users can perform automatic projector setup.

Press the MENU key on the remote control or control panel to display the on-screen menu.

Press the ▲▼ indicator key to select the "Expand" menu, and then press the OK or ▶ key.

1) Press ▲▼ to select [Auto Setup].

2) Press the <OK> .

3) Press ▲▼ to switch items.

Menu Introduction

Item	Option	Description
Auto Setup	Auto Source	The projector's multi-scanning system and Auto PC Adjustment feature automatically detects a wide range of signal formats. If a computer is selected as the signal source, the projector will automatically detect its signal format and make its own adjustments to project a perfect image without any other settings. 1) Press ▲▼ to select [Auto Source]. 2) Press the <OK> . 3) Press ▲▼ to switch items. On : The Auto Signal Source turns on, detects the signal, and projects the auto input signal automatically. Off : Auto Signal Source is off, signal detection is not available, and you need to select the signal input manually using the panel or remote control.
	No Signal Auto Power Off	1) Press ▲▼ to select [Auto Power Off]. 2) Press the <OK> . 3) Press ▲▼ to switch the item. On : 5 minutes; 10 minutes; 15 minutes; 20 minutes; 25 minutes; 30 minutes. Set the auto power off duration, and power off automatically when no signal is detected within the specified time. Off : Turns off the automatic shutdown.
	Auto Keystone	This function is used to automatically correct vertical keystone distortion of the projected image. 1) Press ▲▼ to select [Auto Keystone Correction]. 2) Press the <OK> . 3) Press ▲▼ to switch items. On : The Auto Keystone Correction function is turned on and automatically calculates and corrects the projected image. Off : Auto Keystone Correction is turned off.

[Keystone]

This function is used to store or reset the trapezoidal correction and trapezoidal correction related settings of the projected image after the AC power is removed.

Press the MENU key on the remote control or control panel to display the on-screen menu.

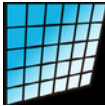
Press the ▲▼ indicator key to select the "Expand" menu, and then press the OK or ► key

.The user can make projector screen keystone correction settings.

1) Press ▲▼ to select [Keystone].

2) Press the <OK> .

3) Press ▲▼ to switch items.

Item	Option	Description
Keystone	H Keystone	1) Press ▲▼ to select [H Keystone]. 2) Press the <OK> . 3) Press ▲▼ to switch the value , adjustment range: -120 ~ +120. Press the ▲ key to reduce the width on the left. Press the ▼ key to reduce the width on the right. 
	V Keystone	1) Press ▲▼ to select [V Keystone]. 2) Press the <OK> . 3) Press ▲▼ to switch the value , adjustment range: -120 ~ +120. Press the ▲ key to reduce the width at the bottom.. Press the ▼ key to reduce the width at the top. 
	Four Corner Adjust	1) Press ▲▼ to select [Four Corner Adjust]. 2) Press the <OK> . 3) Press ▲▼ to switch the options [Top-Left], [Top-Right], [Bottom-Left], [Bottom-Right]. 4) Press the <OK> key. 5) Press ▲▼ to toggle the value , the value is obtained according to the current resolution. Adjust when the four corners of the projected image are distorted. Press the ▲▼◀▶ indication key to adjust the item. Four Corner Adjust Top-Left  Top-Right  Bottom-Left  Bottom-Right 
	Reset	Restore the calibration value to the factory-set value. 1) Press ▲▼ to select [This Page Reset]. 2) Press the <OK> . The trapezoidal (keystone) correction settings have been reset.

Menu Introduction

[Network]

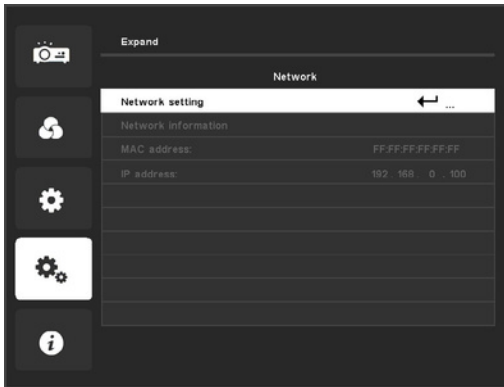
Users can make projector network settings. This function is suitable for remote control of the projector from computers on the LAN.

Press the **▲▼** indicator key on the remote control or control panel to display the on-screen menu.

Press the **▲▼** indicator key to select the "Expand" menu, and then press the OK or **▶** key.

1) Press **▲▼** to select [Network].

2) Press the <OK> .



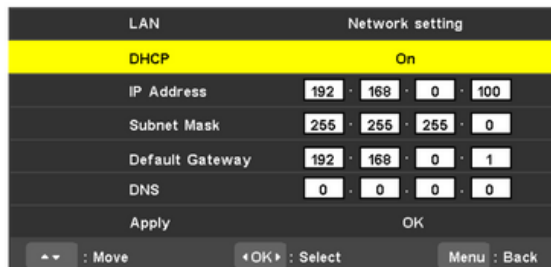
The current page displays the network setting function of the current device and the network setting status: MAC address, IP address.

Preparation stage

1. Required equipment: projector, computer, network cable;
2. Connection process:
Connect the projector to a router or switch in the LAN with a direct or crossover network cable.
3. When the computer is turned on and the projector is plugged into the power cord, the indicators on the LAN port and the computer port will continuously blink.

Steps for use

1. Turn on the projector.
2. Obtain a network address. Set DHCP to ON to obtain an IP address automatically. (If you are familiar with the network, you can set the IP address manually by setting DHCP to Off.)
3. Enter the network menu settings
 - (1) Press the MENU button on the remote control or the back control panel. Press the **▲▼** indicator key to select the Extension icon.
 - (2) Press the <OK> key or press the **▶** indicator key to enter the network menu.
 - (3) Press **▲▼** to select Network Settings, then press the <OK> key.
 - (4) Press **▲▼** to set DHCP to "On", and then press <OK>.
 - (5) Press **▲▼** to select [Confirm].



Note:

This projector does not support wireless network connections.

[USB 5V Output]

Users can make projector USB 5V output switch settings.

Press the MENU key on the remote control or control panel to display the on-screen menu.

Press the ▲▼ indicator key to select the "Expand" menu, and then press the OK or ► key.

1) Press ▲▼ to select [USB 5V Output].

2) Press the <OK> .

3) Press ▲▼ to switch items.

Item	Option	Description
USB 5V Output	On Off	USB port 5V output on.
		No output from USB port.

Note:

The USB port on this model supports a maximum of up to 5V / 2A.

[Timer]

Users can perform the projector main interface countdown timer function.

Press the MENU key on the remote control or control panel to display the on-screen menu.

Press the ▲▼ indicator key to select the "Expand" menu, and then press the OK or ► key.

1) Press ▲▼ to select [Timer].

2) Press the <OK> .

3) Press ▲▼ to switch items.

Item	Option	Description
Timer	On	After selecting a specific time and exiting the menu, the main interface will display a countdown picture box. You can select [5Min], [10Min] [15 Min], [20 minutes], [25 Min], [30 Min].
	Off	Turn off the timer function.

Menu Introduction

[Test Pattern]

Users can select the test chart mode for specific scenario testing and demonstration.

Press the MENU key on the remote control or control panel to display the on-screen menu.

Press the ▲▼ indicator key to select the "Expand" menu, and then press the OK or ► key.

1) Press ▲▼ to select [Timer].

2) Press the <OK> .

3) Press ▲▼ to switch items.

- [Off], [Test Pattern 1], [Test Pattern 2], [Test Pattern 3], [Test Pattern 4], [Test Pattern 5].
After selecting a specific test mode the main screen displays the mode picture for the pair, press ▲▼ to cycle through the options.

[Factory Default]

User selects this item to return each setting value to the factory setting.

Press the MENU key on the remote control or control panel to display the on-screen menu.

Press the ▲▼ indicator key to select the "Expand" menu, and then press the OK or ► key.

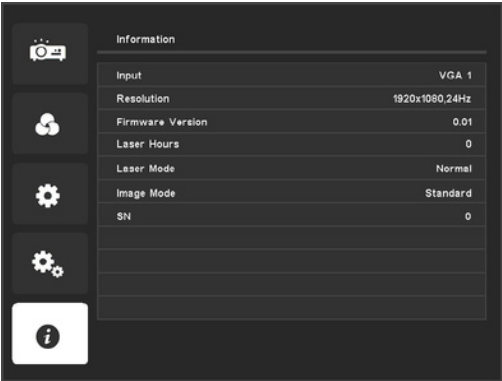
1) Press ▲▼ to select [Factory Default].

2) Press the <OK or ► >.

3) Press ▲▼ to toggle the options [Yes] [No], then press the <OK> key.



Information Menu



This projector has an "Information" menu that allows you to set other functions as described below.

Press MENU on the remote control or control panel to display the on-screen menu. Press ▲▼ to select the "Information" menu, which displays basic information about the current projector.

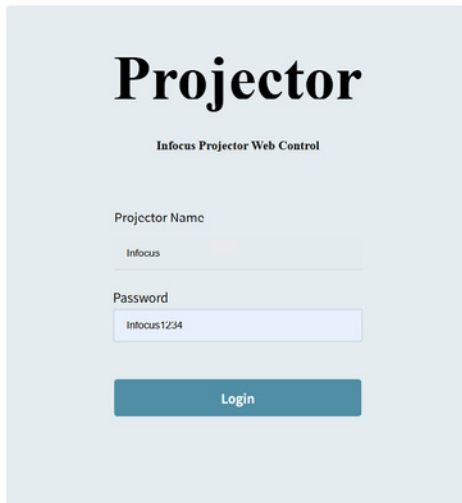
Item	Option	Description
Information	Input	Displays the selected input source.
	Resolution	Displays the resolution of the projector.
	Firmware Version	Displays the software version number.
	Laser Hours	Displays the usage time of the light source.
	Laser Mode	Displays the setting status of [LIGHT MODE].
	Image Mode	The setting status of [IMAGE MODE] is displayed.
	SN	The machine serial number is displayed.

Network Control

You can control the device from a PC using a web browser.

Enter through a Web browser

- 1) Launch your computer's Web browser.
- 2) Enter the IP address set on the projector in the URL input field of the Web browser.
 - * Initial network login address: 192.168.0.100.
- 3) Enter the password in [Password] and click [Login].
 - * The factory default setting is User name: "Infocus" (administrator privileges), Password: "Infocus1234".



The screenshot shows a web browser interface for the Infocus Projector Web Control. At the top, the word "Projector" is displayed in a large, bold, black serif font. Below it, in a smaller, bold, black sans-serif font, is "Infocus Projector Web Control". The interface includes two input fields: "Projector Name" with the text "Infocus" entered, and "Password" with the text "Infocus1234" entered. Below these fields is a blue rectangular button with the word "Login" in white text.

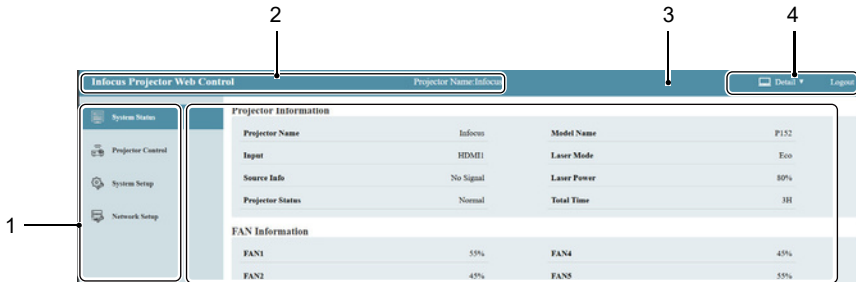
- 4) Click [Login].

Note:

- To use the network control function, the machine and computer need to be on the same LAN.
- If the machine and computer are directly connected through a network cable, you need to modify the network segment on the computer side to be the same as the projector.
- If DHCP is turned on, the Web browser inputs the projector's automatically acquired IP address.

System Status

Displays the current status of the projector. You can view system status, projector controls, system Settings, network Settings, and restarts.



1. Select the display bar.
2. Display the current page and projector name.
3. Detailed function Settings.
4. Web display: Details/simple.

Language options: Chinese (simplified) and English
Web login control: log out.

[System Status] page

Infocus Projector Web Control		Projector Name: Infocus		Detail	Logout
System Status		Projector Information			
Projector Control	Projector Name	Infocus	Model Name	P152	
	Input	HDMI1	Laser Mode	Eco	
	Source Info	No Signal	Laser Power	80%	
	Projector Status	Normal	Total Time	3H	
System Setup	FAN Information				
Network Setup	FAN1	55%	FAN4	45%	
	FAN2	45%	FAN5	55%	

Projector Information: Basic information about the projector.

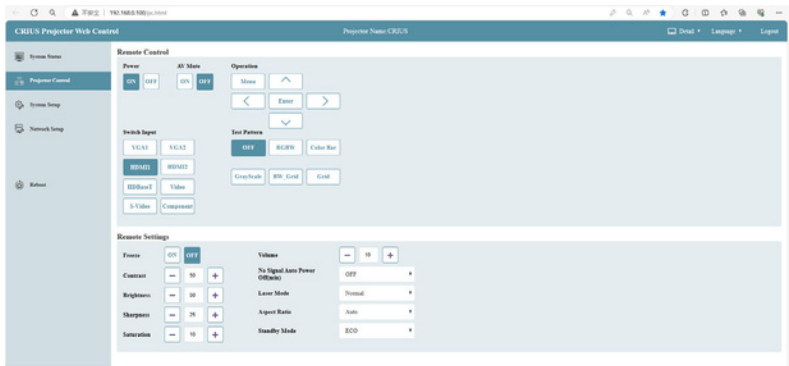
Fan Information: Learn about the status of the projector's fan.

Temp. Information: Find out the temperature status of the projector system.

Firmware Version: Displays the version of the projector's firmware.

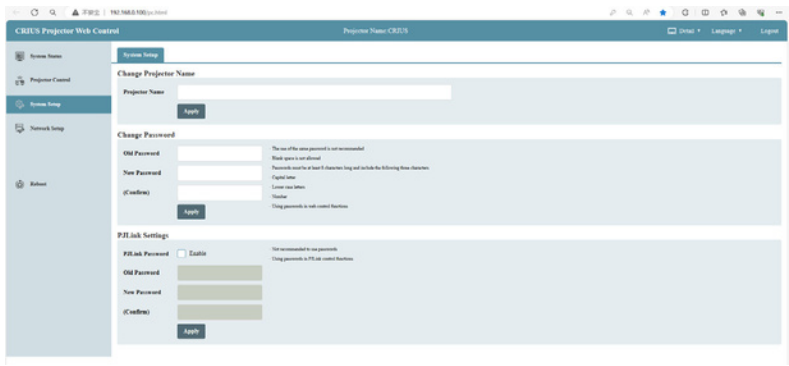
Network Control

[Projector Control] page



Remote Control: The projector can be controlled remotely with simple controls including power on/off, mute, menu basic buttons, input source and test mode.
Remote Settings: Values can be changed to adjust the projected image.

[Remote Settings] page



- Change Projector Name: Change the projector name and then click [Apply].
- Change Password: Change the web login password and click [Apply].
Initial password: Infocus1234.
- PJLink Settings: Enable and set a new password for PJLink, then click [Apply].
Initial password: Infocus1234.

[Network Setup] page



Wired LAN setup: Click "Edit", the wired LAN parameters can be modified, click "Apply", confirm the modification.



[Reboot] page



Reboot: Restarts the network.

Status light indicator

The status indicator light shows the projector's protection status. Refer to both the Status and POWER indicators to ensure proper maintenance and operation.

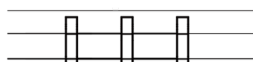


Note:

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

The projector is turned off, and the Power status indicator is constantly bright red (economy standby mode) and blinking yellow (normal standby mode).

If the projector's internal temperature rises above the safe operating level, the unit will automatically shut down to prevent damage. The Status indicator will blink orange while the projector cools. When normal temperature is restored, disconnect and reconnect the AC power cord, then power on the projector to check its condition.



POWER STATUS FILTER

Note:

- After the projector's internal temperature returns to normal, unplug the power cord. Wait until the power indicator returns to standby mode, then reconnect the cord and turn the projector back on.

Check the following:

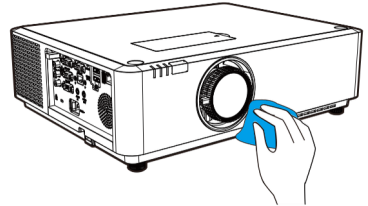
- Ensure there is adequate clearance around the projector for proper ventilation. Check the installation area and confirm that no air outlets are blocked.
- Verify that the projector is not installed near the air outlet of an air-conditioning unit. Keep the projector away from direct airflow.
- Check whether the air filter is clean. Clean the filter regularly to maintain proper airflow and performance.

**Note:**

Unplug the AC power cord before any cleaning operation.

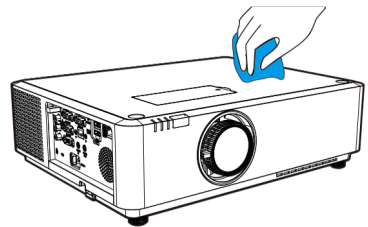
Clean the lens

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 the case of your projector

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 the projector in an appropriate protective case after use to prevent dust, dirt, and scratches.

Recommendations

We recommend avoiding the use of the projector in dusty or smoky environments, as this can degrade image quality. Prolonged operation in such conditions may cause dust to accumulate on the lens and within the internal lens assembly. If you observe reduced image quality or suspect dust buildup, please contact your dealer or service center for proper cleaning.

Troubleshooting

Check the following before calling your dealer or service center:

Troubleshooting	Solution
Power on failure	• Insert the projector power plug into an AC outlet. • Verify that the Power indicator is lit. • Check the Status indicator. If the light is blinking, the projector cannot be turned on. • Do not lock the projector's "Key Lock" function.
Initial display differs from standard settings	• Make sure to select the standard (factory) in the "Power On Screen" function.
Input signal switch (or do not switch) automatically.	• Make sure you have correctly set up the Input Search function.
Image looks fuzzy	• Adjusts the focal length of the projector. • Provides the proper projection distance.
Flip image left/right Flip image up/down	• Check the "Ceiling/Rear Projection" function. • Check the "Ceiling" function.
Image looks dim	• Check for contrast and brightness settings. • Check for correct image mode settings
No image displays	• Check for the connection between your 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 10 seconds for your projector to show the first image. • Check for mode of signal, color system, image system, or computer system. • Make sure the ambient temperature is within given range [0°C–40°C(35-ECO)]. • Image does not display in BLANK mode. The BLANK button or other buttons on the remote control.
Abnormal color	• Check for mode of signal, color system, image system, or computer system.
Some operations are invisible	• Check the display function.
Auto PC Adjusting function failure	• Check input signal. Auto PC Adjusting function in unavailable in 480p, 576p, 720p, 480i, 576i or 1080i mode.
Marker Selected Function Invalid	• Check connections and input source signals to determine if a signal is present.
Auto Setting does not work	• Automatic setting does not work properly.
Image distorted or disappeared	• Check and revise the PC Adj. menu or Screen menu.

Remote control does not work	• Check the battery. • Make sure there is no obstacles stand in between your projector and the remote control. • Make sure the remote control is not too far away from your projector. The maximum operation range is 8m. • Disable the key lock of the remote control in the Setup menu.
Light indicator turns on or flashes	• Check status of your projector according to the light indicator status.
"X " mark displays	• Invalid operation, please operate your projector correctly.
Cannot remove the Logo Select password	• Please call your dealer or service center.

- Ensure that the projector is properly connected to the peripheral devices.
- Make sure that all devices are connected to an AC outlet and that the power is turned on.
- If the projector does not project images from the connected computer, restart the computer.



Note:

This projector operates at high voltage. Do not open the case. If the problem persists after performing the recommended steps, contact your dealer or service center. Provide the model number and a description of the issue, and they will advise you on how to proceed with repair.

Appendix

Light indicator status

Check light indicator to learn status of your projector.

Projector status	POWER	STATUS	FILTER
Economy Standby Mode	 Red	 Off	 Off
Normal	 Yellow Blink (light for 1 second, dark for 0.5 seconds)	 Off	 Off
Network standby mode	 Red Blink (light for 2 seconds, dark for 2 seconds)	 Off	 Off
Power on startup	 Yellow Blink (light for 0.5 second, dark for 0.5 seconds)	 Off	 Off
Normal operation	 Yellow	 Off	 Off
Fan Error	 Off	 Orange Blink (light for 0.5 seconds, dark for 0.5 seconds)	 Red Blink (light 0.5*N sec, dark 0.5*N sec) N is the corresponding fan value
Temperature over-temperature	 Off	 Orange Blink (light for 3 seconds , dark for 1 second)	 Off
Color wheel error	 Off	 Orange Blink (light for 0.5 seconds, dark for 0.5 seconds)	 Off
Communication error	 Off	 Orange Blink (light for 1.5 seconds, dark for 1.5 seconds)	 Off

Compatible computer screen

Your projector is designed to accept every computer signal below Dot Clock 160MHz .
See table below for details on resolution and relevant frequency.

-	OSD Display	Source			Specification			
		RGB	HDMI	HDBT	Resolution	Pixel clock (MHz)	H-freq (KHz)	H-freq (KHz)
1	1280x720p 60Hz	○	○	○	1280x720p	45.000	60.000	74.250
						44.955	59.940	74.176
2	1280x720p 50Hz	○	○	○		37.500	50.000	74.250
3	1920x1080i 60Hz	○	○	○	1920x1080i	33.750	60.000	74.250
						33.716	59.940	74.176
4	1920x1080i 50Hz	○	○	○		28.125	50.000	74.250
5	1920x1080p 24Hz	-	○	○	1920x1080p	27.000	24.000	74.250
						26.970	23.980	74.176
6	1920x1080p 60Hz	○	○	○		67.500	60.000	148.500
						67.433	59.940	148.352
7	1920x1080p 50Hz	○	○	○		56.250	50.000	148.500
8	640x480, 60Hz	○	○	○	640x480	31.469	59.940	25.175
9	800x600, 60Hz	○	○	○		37.879	60.317	40.000
10	800x600,75Hz	○	○	○	800x600	46.875	75.000	49.500
11	800x600, 85Hz	○	○	○		53.674	85.061	56.250
12	1024x768,60Hz	○	○	○	1024x768	48.363	60.004	65.000
13	1024x768, 70Hz	○	○	○		56.476	70.069	75.000
14	1024x768, 75Hz	○	○	○		60.023	75.029	78.750
15	1024x768, 85Hz	○	○	○		68.678	84.997	94.500
16	1280x720, 60Hz	○	○	○	1280x720	44.772	59.855	74.500
17	1280x768, 60Hz	○	○	○	1280x768	47.776	59.870	79.500
18	1280x768, 75Hz	○	○	○		60.289	74.893	102.250
19	1280x768,85Hz	○	○	○		68.630	84.840	117.500

Appendix

-	OSD Display	Source			Specification			
		RGB	HDMI	HDBT	Resolution	Pixel Clock (MHz)	H-freq (KHz)	H-freq (KHz)
20	1280x800,60Hz	○	○	○	1280x800	49.702	59.810	83.500
21	1280x800,75Hz	○	○	○		62.795	74.934	106.500
22	1280x800,85Hz	○	○	○		71.554	84.880	122.500
23	1280x960,60Hz	○	○	○	1280x960	60.000	60.000	108.000
24	1280x1024,60Hz	○	○	○	1280x1024	63.981	60.020	108.000
25	1280x1024,72Hz	○	○	○		78.16	71.97	135.060
26	1280x1024,75Hz	○	○	○		79.976	75.025	135.000
27	1366x768,60Hz	○	○	○	1366x768	47.720	59.799	84.750
28	1400x1050,60Hz	○	○	○	1400x1050	65.317	59.978	121.750
29	1440x900,60Hz	○	○	○	1440x900 1	55.935	59.887	106.500
30	1600x900,60Hz	○	○	○	600x900	55.920	60.000	118.998
31	1600x1200,60Hz	○	○	○	1600x1200	75.000	60.000	162.000
32	1680x1050,60Hz	○	○	○	1680x1050	65.290	59.954	146.250
33	1920x1080,60Hz	○	○	○	1920x1080	66.587	59.934	138.500
34	1920x1200,60Hz	○	○	○	1920x1200	74.038	59.950	154.000
35	3840X2160_24Hz	-	○	○	3840X2160P			297.000
36	3840X2160_25Hz	-	○	○				297.000
37	3840X2160_30Hz	-	○	○		67.500	30.000	297.000
38	3840X2160_60Hz	-	○	○				594.000

“○”Shows input signal source support this format.

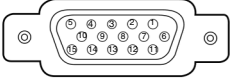
“-”Shows input signal source DO NOT support.

□Note:

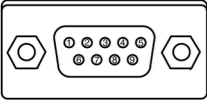
This specification is subject to change without notice.

Terminal configuration

VGA OUT Terminal RGB(D-sub 15)

	1	Red (Input/output)	9	-----
	2	Green(Input/output)	10	Grounding(field synchronizing)
	3	Blue(Input/output)	11	Grounding
	4	-----	12	DDC data
	5	Grounding(line synchronizing)	13	Horizontal synchronizing (compound sync.)input/output
	6	Grounding(red)	14	Vertical synchronizing input/output
	7	Grounding(green)	15	DDC Clock
	8	Grounding(blue)		

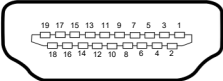
SERIAL Terminal(D-SUB-9)

	1	-----	6	-----
	2	RXD	7	-----
	3	TXD	8	-----
	4	-----	9	-----
	5	GND		

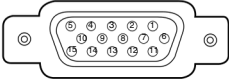
LAN Terminal

	1	TX +	5	-----
	2	TX -	6	RX -
	3	RX +	7	-----
	4	-----	8	-----

HDMI Terminal(HDMI Type A 19)

	1	TMDS Data2+	11	TMDS Clock Shield
	2	TMDS Data2 Shield	12	TMDS Clock-
	3	TMDS Data2-	13	CEC
	4	TMDS Data1+	14	Reserved(N.C. on device)
	5	TMDS Data1 Shield	15	SCL
	6	TMDS Data1-	16	SDA
	7	TMDS Data0+	17	DDC/CEC Ground
	8	TMDS Data0 Shield	18	+5V Power
	9	TMDS Data0-	19	Hot Plug Detect
	10	TMDS Clock+		

Appendix

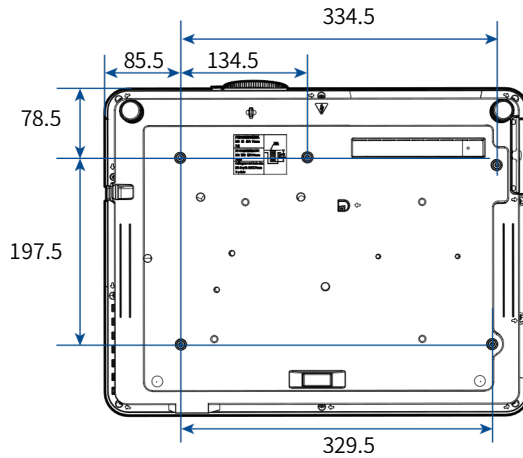
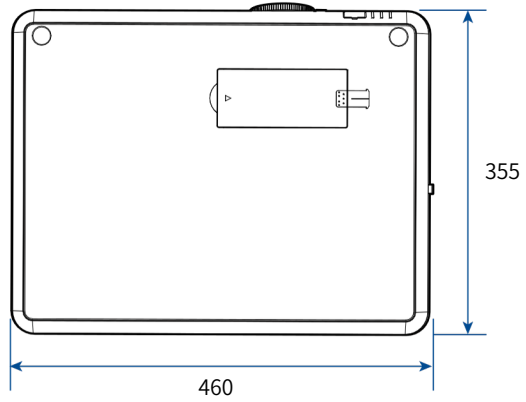
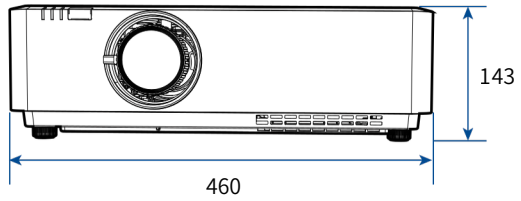
VGAIN 1 Terminal				
	1	Red input	9	VCC
	2	Green input	10	Grounding(field synchronizing)
	3	B input	11	Grounding
	4	-----	12	DDC data
	5	Grounding(line synchronizing)	13	Horizontal synchronizing(compound sync.)input
	6	Grounding(red)	14	Vertical synchronizing input
	7	Grounding(green)	15	DDC clock
	8	Grounding(blue)		

Dimensions

Screw Holes for Ceiling Mount

Screw: M4

Depth: 8.0mm



Appendix

Technical Specifications

■ Mechanical properties

Dimensions(WxDxH): 460mm x 355mm x 143mm
Net Weight: 10Kg
Adjustable foot: 11°

■ DLP

Resolution: 1920x1200

■ Compatible Signals

Color standard : PAL, SECAM, NTSC, NTSC4.43,
PAL-M PAL-N, PAL-60
HDTV signal : PAL, SECAM, NTSC 4.43, PAL-M, PAL-
N, PAL-60, 480i, 480p, 576i, 576p, 720p,
1080p, 1080i
Scanning frequency:
Horizontal frequency 15 KHz–100 KHz,
Vertical frequency 48–85Hz

■ Optical elements

Image size (diagonal lines): 80"-300", adjustable,
Reference Lenses
Throw Ratio : Reference Lenses
Projection lenses: see list of lenses
Projection light source power: about 670W (energy- saving mode <0.5W)

■ Terminal

VGA IN 1: D-sub 15 pin x1
VGA IN 2/YPbPr/
S-VIDEO IN: D-sub 15, x1
VGA OUT: D-sub 15 pin x1
HDMI: HDMI A type 19 pin
LAN: 100 Base-TX (100Mbps)/10 Base-T (10Mbps),
RJ45 HDBaseT: 100 Base-TX (100Mbps)/10 Base-T (10Mbps), RJ45
Micro USB: USB connector
USB-A: USB connector (A type x1)
RS-232: D-sub 9 x1
AUDIO IN: Mini Stereo 3.5mm x1
AUDIO OUT: Mini Stereo 3.5mm x1
MONO(R/L): RCA *2
VIDEO: RCA *1

■ Power

Voltage and power consumption:
AC 100-240 V (max. 7A), 50/60 Hz
Fuse specification: 10A/250V
Built-in speaker: 10W RMS 8ohm x 1

■ Operating Environment

Operating temperature : 0°C ~40°C (39°C ~ ECO)
Operating humidity : -20°C ~60°C
High land :1500 m

■ Remote control

Battery: AA alkaline type x 2(without battery)
Operating Range: 16.4' (5 m)/±30
Dimensions: 158.5mm*47.45mm*26mm

■ Accessories

Remote control
AC power cord
HDMI cable

Note:

- The specification is subject to change without prior notice.

RS232 control mode

1 Serial connections

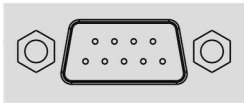
1.1 Port setting

Project	Set point
Communication method	Asynchronous communication
Communication rate	115200
Length	8-bit
Parity check	NO
Stop position	1
Flow control	NO

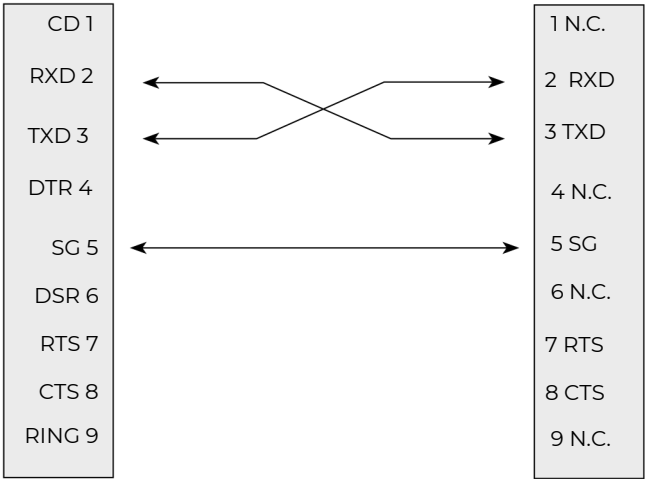
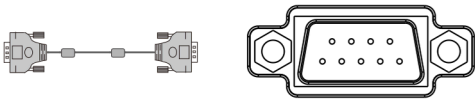
1.2 Connection mode

Can only use RS232 serial cross connect PC and projector.

Computer terminal



Projector terminal



Appendix

2. Basic commands

Distinguish the letter case.and enter Each command ends with [CR] (enter) .

Command	Option	Command	Option
C00	POWER ON	C07	Video
C01	POWER OFF (Immediately)	C39	Component
C38	HD-BaseT	C08	S-Video
C36	HDMI1		
C37	HDMI2		
C05	VGA 1		
C06	VGA 2		

2.1 POWER ON command

Command	"C00"[CR]		
Details	Power ON action. Do nothing,when you are in Power ON state . Send this command can force the end of the countdown in the countdown state.		
Return Value	Receive Successful	[ACK] [CR]	
	Receive Unsuccessful	"? " [CR]	

2.2 POWER OFF command (Namely Power Off immediatly)

Command	"C01"[CR]		
Details	Power OFF action. Sending this command will force the projector to power off while it is in the power-on state.		
Return Value	Receive Successful	[ACK] [CR]	
	Receive Unsuccessful	"? " [CR]	

2.3 HD-BaseT OFFcommand

Command	"C38"[CR]		
Details	Select Input from HD-BaseT.		
Return Value	Receive Successful	[ACK] [CR]	
	Receive Unsuccessful	"? " [CR]	

2.4 HDMI 1 command

Command	"C36" [CR], "C37" [CR]	
Details	Select HDMI1 Input.	
Return Value	Receive Successful	[ACK] [CR]
	Receive Unsuccessful	"?" [CR]

2.5 VGA 1 command

Command	"C05"[CR]	
Details	Selects VGA 1 Input.	
Return Value	Receive Successful	[ACK] [CR]
	Receive Unsuccessful	"?" [CR]

2.6 VGA 2 command

Command	"C06" [CR]	
Details	Selects VGA 2 Input.	
Return Value	Receive Successful	[ACK] [CR]
	Receive Unsuccessful	"?" [CR]

2.7 Video command

Command	"C07" [CR]	
Details	Selects Video Input.	
Return Value	Receive Successful	[ACK] [CR]
	Receive Unsuccessful	"?" [CR]

2.8 Component command

Command	"C39"[CR]	
Details	Selects Component Input.	
Return Value	Receive Successful	[ACK] [CR]
	Receive Unsuccessful	"?" [CR]

Appendix

2.9 S-Video command

Command	"C08"[CR]	
Details	Select S-Video Input .	
Return Value	Receive Successfully	[ACK] [CR]
	Receive Unsuccessfully	"" [CR]

Note:

- [ACK][CR] is the return value when a valid command is received.

CONTACT INFORMATION

FOR USERS IN THE USA AND CANADA

INFORMATION

Importer to the United States and local representative in accordance with FCC regulations

Maxnerva Technology Services USA LLC
13190 SW 68th Parkway, Suite 120
Portland, Oregon 97223.

FOR USERS IN THE EUROPEAN UNION

INFORMATION EU Importer

Grand Field Technology Limited Room 1001, 10/F, Houston Centre, 63 Mody Road, Tsim Sha Tsui East, Kowloon, Hong Kong.

EU Authorized Representative

24hour Solutions B.V.

Van Nelleweg 1,3044 BC, Rotterdam, The Netherlands info@24hour-ar.com www.24hour-ar.com

FOR USERS IN THE UNITED KINGDOM AND NORTHERN IRELAND

INFORMATION Manufacturer

Maxnerva Technology Services Limited Room 1001, 10/F, Houston Centre, 63 Mody Road, Tsim Sha Tsui East, Kowloon, Hong Kong.

UK Authorised Representative in accordance with UK regulations

24hour Solutions Ltd.

15 Beaufort Court Admirals Way, Canary Wharf London, E14 9XL, UK +44 (0)20 457 129 06
Company ID 13630765

FOR USERS IN RUSSIA

INFORMATION Russian Authorised Representative

Maxnerva has appointed AUVIX LLC, 129085, c. Moscow, Zvezdny Boulevard, 21, bldg. 1. as the authorised representative in Russia and this product is compliant with TR TC 004/2011, TR TC 020/2011 and TR CU 020/2011 local conformity testing and approvals.

Maxnerva has appointed AUVIX LLC, 21 Zvezdny Boulevard, Building 1, Moscow, 129085, as its official representative in Russia, and this product complies with local conformity testing and approvals to TR TC 004/2011, TR TC 020/2011 and TR CU 020/2011. AUVIX LLC, 21 Zvezdny Boulevard, Building 1, Moscow, 129085, +7 (495) 797-57-75, info@auvix.ru

InFocus