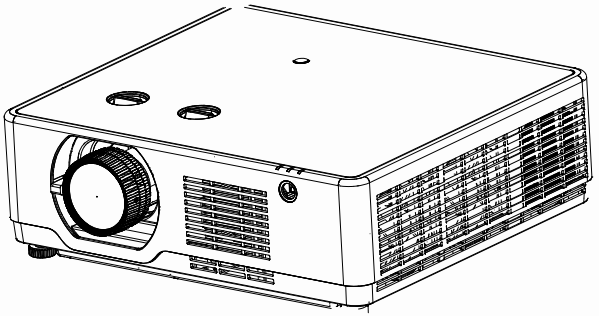
Sonnoc

Laser Projector User Manual





Features and design

Thank you for purchasing the projector. This product is a HLD LCD projector, with short throw lens and new generation light source technology of liquid crystal. 20,000 hours of real time, which can keep the brightness diaplay throughout the life. Meanwhile,it can avoid the radiation on the human body and completely eliminate the interference of the shadow on the screen. It is equiped with multimedia feature and use LCD display (LCD) technology with its color depth up to 1.07 billion color. In addition, mute design makes our product with the perfect user experience.

Main features

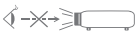
- 20000H hours of real time with the new light source of Laser;
- LCD display (LCD) technology: XGA(1027*768), WXGA(1280*800) and WUXGA (1920*1200);
- 2 types of 1.6x lenses for your choice.
- Focus/ Zoom function and Lens shift function
- Edge blending function, HDBaseT functon and Wireless display function are for optional.
- Silent design utilizing a sealed structure with no irritating fan noise even in a quiet conference room or classroom.
- Perfect combination of high brightness and color;
- Logo (Logo select, Capture, Logo PIN code lock and Logo PIN code change) function;
- Blank design.Tap the button, the projector will switch into blank screen status immediately for prevention of information leakage;
- Various projection mode for your choice;
- On and Off instantly;
- Logo PIN Code lock and Kensington lock to anti-theft function;
- Abnormal log management and troubleshooting function;

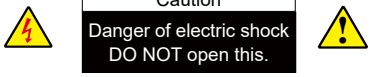
✓Note:
- The screen menu and images in the manual may slightly differ from the real product.
- The manual is subject to change without prior notice.

Features and design.....2
Content.....3
Safety operation guideline.....4
Safety instruction.....4
Examples of symbols.....4
Disposing of your used product.....6
Laser Safety Caution.....11
Air ventilation.....13
360° projection.....13
Moving your projector.....14
Compliance.....15
Accessory.....16
Name and function of your projector.....17
Front/Top.....17
Side.....17
Terminal.....18
Top control panel and indicators.....19
Remote control.....20
Remote control operation range.....21
Install battery of remote control.....21
Installation.....22
Screen size.....22
Lens shift adjustment.....27
Connect to pc (Digital and Analog RGB).....28
Connect to Audio equipment.....29
Connect to USB and Wireless card (USB-A and USB-B).....30
Connect the AC power cord.....31
Basic operation.....32
Power on your projector.....32
Power off your projector.....33
How to operate the OSD.....34
Menu item overview.....35
Adjusting the picture size and position.....36
Lens shift function.....37
Focus adjustment.....38
Zoom adjustment.....39
Adjustment pad.....40
Keystone adjustment.....41
Auto setting function.....43
volume adjustment.....44
Menu operation.....44
Remote control operation.....45
Input selection.....47
Display.....49
Auto PC adj.....49
fine sync.....49
H position.....49
V position.....50
H size.....50
Aspect.....50
Project way.....51
menu position.....51
System selection.....52
background display.....52
System.....52
Select the computer system manually.....53
Color adjust.....54
Image mode.....54
Color adjust(For PC.).....55
Setting.....56
Direct On start.....56
Standby mode.....56
high land.....57
Cooling fast.....57
Key lock.....58
Sound.....58
HDMI setup.....59
Sound.....59
Expand.....61
Language.....61
Auto setup.....62
Keystone.....62
Logo.....67
Security.....68
Power management.....70
Filter counter.....71
Test pattern.....71
Network.....72
Factory default.....73
Memory Viewer.....74
Set slide.....74
Slide transition effect.....74
Sort order.....74
Rotate.....75
Best fit.....75
Repeat.....75
Apply.....75
Info.....76
Network control.....77
Network control operation.....77
wi-fi display（For PC.）.....78
enter through a Web browser.....79
Useful function.....85
Memory Viewer function.....85
When using Windows:.....87
USB display function.....87
When using Mac OS.....89
Maintenance and cleaning.....90
Status light indicator.....90
Clean casing of your projector.....91
Clean the lens.....91
Clear the filter.....91
Appendix.....92
Troubleshooting.....92
Menu tree.....94
Light indicator status.....98
Compatible computer screen.....101
Terminal configuration.....103
Dimensions.....105
Technical Specifications.....106
RS232 control mode.....107
Trademarks.....111
Back cover.....112

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 or deaths due to human errors.
 Note	Ignoring messages indicated by this symbol may lead to personal injuries or property damage.
	High voltage inside with risks of electric shock.
	When turning on the projector, make sure no one is facing the lens within laser range. Do not peep at the lens when the projector is activated to avoid serious injury to the eyes.
	Never place goods in the projection window while working as it may overheat,burn or even catch fire.Press the Blank button through the remote control for temporarily pause the projection.



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.

Examples of symbols

	This symbol indicates you should be careful of electric shocks.
	This symbol indicates you should be careful of high temperatures.
	This symbol indicates something that must be prohibited.
	This symbol indicates something that must not be got wet.

	This symbol indicates you should not touch with wet hands.
	This symbol indicates something that must not be disassembled.
	This symbol indicates things you must do.
	This symbol indicates that the power cord should be unplugged from the power outlet.

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

Warning:
Installing the projector
This projector is an RG2 product. The projector is for professional use and must be installed in location where safety is assured. For this reason, be sure to consult your dealer as installation and attachment/detachment of the lens unit must be performed by a professional service personnel. Never try to install the projector by yourself. This may result in visual impairment etc.

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

Disposing of your used product



In the European Union
EU-wide legislation as implemented in each Member State requires that used electrical and electronic products carrying the mark (left) must be disposed of separately from normal household waste. This includes projectors and their electrical accessories. When you dispose of such products,please follow the guidance of your local authority and/or ask the shop where you purchased the product.
After collecting the used products, they are reused and recycled in a proper way. This effort will help us reduce the wastes as well as the negative impact to the human health and the environment at the minimum level.
The mark on the electrical and electronic products only applies to the current European Union Member States.

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



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

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

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

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

Caution

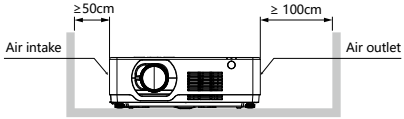
Safety precautions:

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

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

Note:

Precautions on using your projector:

- DO NOT project the same image for long time as residual images may be left in the panel. This is a property of LCD panel.
- Use power as indicated in tags attached to your projector. If you have doubts over available power type, consult your dealer or local power company first.
- DO NOT open or remove the casing for maintenance as this may lead to electric shock or other damages. Call qualified maintenance personnel in case of any maintenance requirements.
  - In case of the following, unplug the power cord and call qualified maintenance personnel for service immediately:

  a. Damaged or broken power cord or plug

  b. Liquid splashed in your projector

  c. Your projector exposed to rain or water

  d. If your projector fails to work as expected by following operation instructions, adjust it according to given instructions. Other invalid operations may damage your projector, which requires the technician to spend more time before returning it back to normal.

  e. The projector falls off to ground or its casing is damaged.

  f. In case of any abnormal change in your projector during its use, then maintenance services would be required.
- In case components replacement is required, make sure the replacements have been approved by the manufacturer and features the same with the one being replaced. Use of unauthorized parts may lead to fire, electric shock or personal injury.
- After the completion of maintenance or repair work, get the maintenance personnel to run routine safety check to ensure your projector's safety operation status.

Information for users in the European Union

This is a device to project images onto a screen, etc., and is not intended for use as indoor lighting in a domestic environment. Directive 2009/125/EC.

Note:

Please heed all precaution for safety

To install the projector

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

To use the projector

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

Laser Safety Caution

WARNING

CLASS 2 OF IEC 60825-1 SECOND EDITION LASER PRODUCT

- LASER RADIATION - DO NOT STARE INTO BEAM.
- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

For USA

This product is classified as Class 2 of IEC 60825-1 Second edition 2007-03.
Complies with FDA performance standards for laser products except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

For other regions

This product is classified as Class 1 of IEC 60825-1 Third edition 2014-05 and RG2 of IEC 62471-5 First edition 2015-06.
Obey the laws and regulations of your country in relation to the installation and management of the device.

- Outline of laser emitted from the built-in light module:
  Wave length: 455nm
  Maximum power: ?W
- Radiation pattern from the protective housing:
  Wave length: 455nm
  Maximum laser radiation output: 333mW
- 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.

Light Module

- A light module containing multiple laser diodes is equipped in the product as the light source.
- hese 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.

Safety operation guideline

- The caution and the explanatory labels of the LASER PRODUCT in CLASS 2 conforming to IEC 60825-1 Second edition, and in Class 1 conforming to IEC 60825-1 Third edition are stuck on the below indicated positions.

Label 1

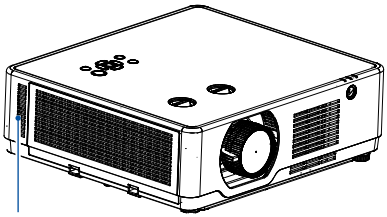


Label 2



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.



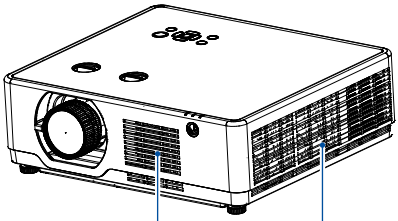
Air intake
(For heat intake)

Note:

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

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

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



Air intake
(For heat intake)

Air outlet
(For heat exhaust)

Place your projector correctly

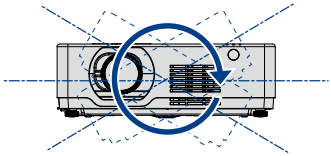
Use your projector at specified location in correct way. Invalid projector location may shorten light source 's life-cycle or even lead to severe incidents or fire.

360° projection

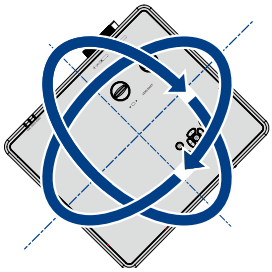
Our projector support 360° projection.



Vertical 360°



Horizontal 360°



Vertical & Horizontal 360°

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.
- Apply torque driver instead of impact driver in your projector.

Moving your projector

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

Note:

Precautions on moving or shipping your projector:

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

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.

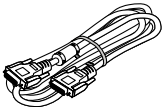
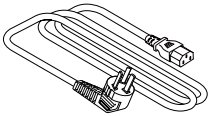
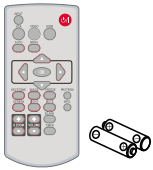
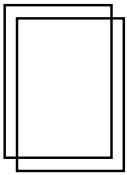
Caution

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

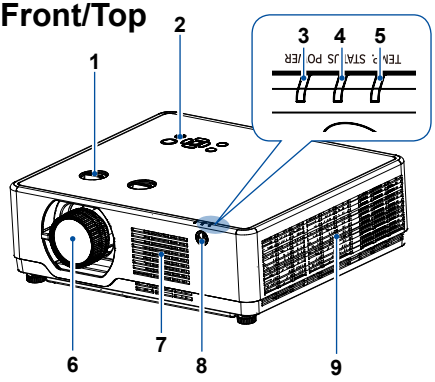
Connect the equipment to a socket-outlet with earthing connection by means of a power cord. The socket-outlet shall be installed near the equipment and shall be easily accessible.

Accessory for Vela series as follows:

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

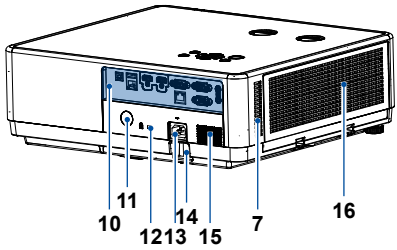
VGA cable	Power cord	Remote Control (Including Batteries) (AA*2)
		
Quick Start Guide		
		

Front/Top



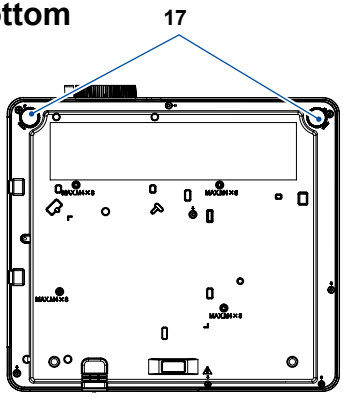
1 Lens shift
2 Keypad
3 POWER indicator
4 STATUS indicator
5 TEMP indicator
6 Projection lens
7 Air intake grille
8 Remote Receiver (FRONT)
9 Air outlet grille

Side



10 Terminal
11 Remote Receiver (BACK)
12 Security hole
13 AC power cord port
14 Security chain opening
Attach an anti-theft device.
The security chain opening accepts security wires or chains up to 0.18 inch/4.6 mm in diameter.
15 Speaker
16 Filter

Bottom



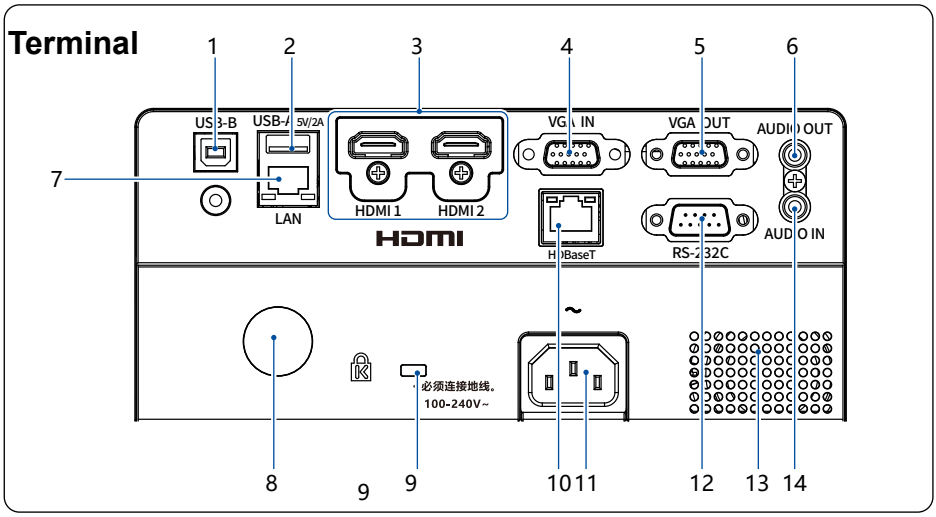
17 Adjustment pad

Note:

<u>Donot place your hands or other objects near the vent:</u>

- 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 it burnning or damage.

Name and function of your projector



1 USB-B connector

When using the "USB display" function, connect your computer to this terminal via the USB cable.

2 USB-A connector

When using the Memory Viewer function, insert the USB memory directly to this terminal. In addition, a 5 V/2A power supply can be supplied for expansion use.

3 HDMI1/HDMI2 connector

Connect HDMI digital output signals or HDMI2 digital output signals to this terminal.

4 VGA IN

Connect the output signal from the computer to this terminal.

5 VGA OUT terminal

For monitor output , output the signal from **VGA** othermonitors interface.

6 AUDIO OUT terminal

Connect external audio devices to this terminal.

7 LAN terminal

Connect mesh cable to this terminal when usingnetwork control and operate your projector.

8 Remote Receiver(Rear)

Use the remote control to operate the projector.

9 Security slot( )

This terminal is used to prevent projector theft.

10 HDBaseT(Optional)

Connect to this port via network cable to realize optional functions of HDBASET.

11 AC power cord terminal

Connect the supplied power cord's three-pin plug here, and plug the other end into an active wall outlet.

12 RS-232C

Select the RS232 function to operate the projector, connect the serial communication to this terminal.

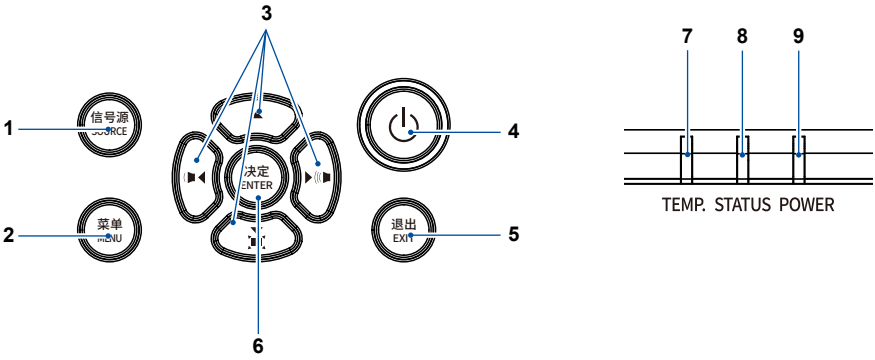
13 Speaker

14 AUDIO IN terminal

Connect audio signal of the PC to this terminal.

HDBaseT is optional. If the projector does not have HDBaseT function, the HDBaseT port does not exist.

Top control panel and indicators



1 INPUT

Open or close the INPUT menu.

2 MENU

Open or close the OSD menu.

3 Arrow▲▼◀▶/Volume +/- /Keystone▼

- Select items or adjust the data in the OSD menu.
- It uses to adjust volume or make keystone adjustment.
- It uses to enter password.

4 POWER

Open or close the projector.

5 EXIT

Esc or return to the previous menu.

6 ENTER

- Enter the OSD menu
- Select options in the OSD menu .

7 POWER indicator

This indicator informs the power status of the projector

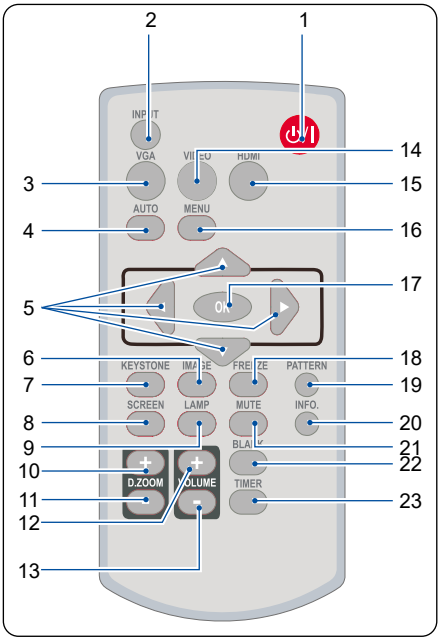
8 STATUS indicator

Lights up/flashes when a button is pressed with the [CONTROL PANEL LOCK] enabled, or when an error occurs in the projector..

9 LIGHT indicator

This indicator informs the state of light source, used time of the light source.

Remote control



1 POWER
Power on or off your projector .

2 INPUT
Open or close the INPUT menu .

3 VGA
Select VGA input source .

4 AUTO
Enter auto adjustment mode .

5 Arrow▲▼◀▶
–Select items or adjust data in the OSD menu .
–Select display area in digital zoom+ mode .

6 IMAGE
Select image mode .

7 KEYSTONE
Keystone calibration .

8 SCREEN
Enter the screen size adjustment menu.

9 LIGHT
Select LIGHT mode.

10 D.ZOOM +
Zoom in projected image .

11 D.ZOOM -
Zoom out projected image .

12 VOLUME +
Increase volume.

13 VOLUME -
Decrease volume .

14 VIDEO
(This button does not work on this series of projectors)

15 HDMI
Select HDMI 1/HDMI 2 input source.

16 MENU
Open or close the OSD menu .

17 OK
Enter the OSD menu or select options in it .

18 FREEZE
Freeze projected images.

19 PATTERN
Select built-in test pattern of your projector.

20 INFO.
Display current status info. of your projector .

21 MUTE
Turn off the sound Temporarily.

22 BLANK
Dark out screen images temporarily.

23 TIMER
Enable the timer function .

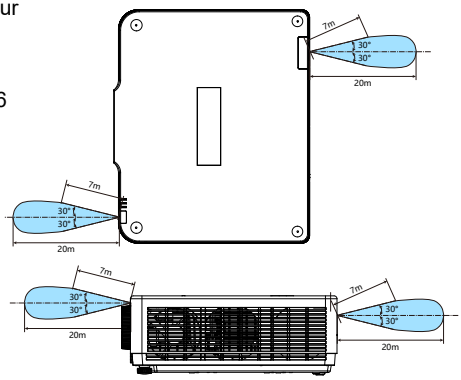
- PATTERN button on the remote control is invalid when you choose USB Display, Memory Viewer and Network as input signal.
- The VIDEO button is invalid. Press this button to display "X" on the screen.

Remote control operation range

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

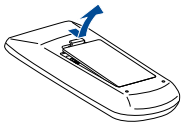
Maximum operation range of your remote control is about arc 30° and with about an area of radius 6 meters or about 8 meters in straight line.

The projector will not respond if there are objects between the remote control and the sensor, or if strong light falls on the sensor. Weak batteries will also prevent the remote control from properly operating the projector.

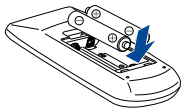


Install battery of remote control

❶ Open the battery cover.



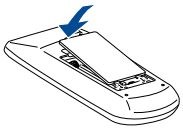
❷ Insert a new battery in it.



Two AAA batteries

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

❸ Put the cover back.

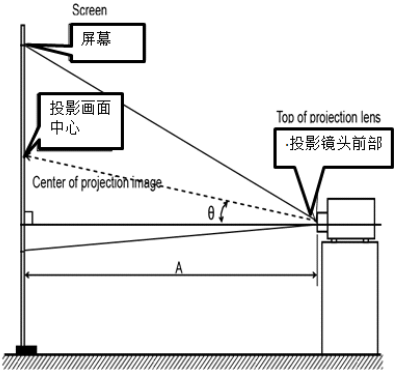


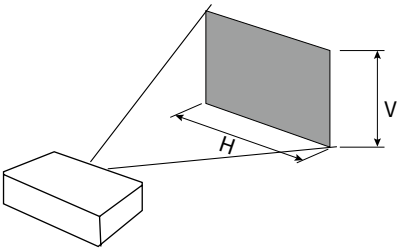
Please follow the following rules for safety operation:

- Use two of AAA batteries.
- Replace both batteries at the same time.
- Do not mix new and old batteries as one pair.
- Keep your remote control away from water or other liquids.
- Do not expose your remote control to environments with high humidity or temperature.
- Do not drop your remote control.
- 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.

Screen size

- 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.





EL-VL556X

4:3 Perspctive				
Screen Size	Width(H)	Height(B1+B2)	Wide	Tele
30	0.610	0.457	0.795	1.346
40	0.813	0.610	1.073	1.807
60	1.219	0.914	1.629	2.730
70	1.422	1.067	1.907	3.192
80	1.626	1.219	2.185	3.654
90	1.829	1.372	2.463	4.115
100	2.032	1.524	2.741	4.577
120	2.438	1.829	3.298	5.500
150	3.048	2.286	4.132	6.885
200	4.064	3.048	5.522	9.193
250	5.080	3.810	6.912	11.500
300	6.096	4.572	8.303	13.808

16:10 Perspctive				
Screen Size	Width(H)	Height(B1+B2)	Wide	Tele
30	0.646	0.404	0.843	1.427
40	0.862	0.538	1.138	1.917
60	1.292	0.808	1.728	2.896
70	1.508	0.942	2.023	3.386
80	1.723	1.077	2.318	3.876
90	1.939	1.212	2.613	4.365
100	2.154	1.346	2.908	4.855
120	2.585	1.615	3.498	5.834
150	3.231	2.019	4.383	7.303
200	4.308	2.692	5.858	9.751
250	5.385	3.365	7.333	12.200
300	6.462	4.039	8.807	14.648

16:9 Perspctive				
Screen Size	Width(H)	Height(B1+B2)	Wide	Tele
30	0.664	0.374	0.866	1.466
40	0.886	0.498	1.169	1.969
60	1.328	0.747	1.775	2.975
70	1.550	0.872	2.078	3.477
80	1.771	0.996	2.381	3.980
90	1.992	1.121	2.684	4.483
100	2.214	1.245	2.987	4.986
120	2.657	1.494	3.593	5.992
150	3.321	1.868	4.501	7.500
200	4.428	2.491	6.016	10.015
250	5.535	3.113	7.531	12.529
300	6.641	3.736	9.045	15.043

Projection distance formula

4:3	WIDE	Y	=	27.806	X	-	39.195
	TELE			46.159			39.193
16:10	WIDE	Y	=	29.497	X	-	41.577
	TELE			48.964			41.575
16:9	WIDE	Y	=	30.294	X	-	42.700
	TELE			50.287			42.699

Y: Projection Screen Size（Unit: inch） X: Projection Distance （Unit: m）

EL-VL556X/ EL-VL556W/ EL-VL606W

16:10 Perspctive				
Screen Size	Width(H)	Height(B1+B2)	Wide	Tele
30	0.646	0.404	0.779	1.320
40	0.862	0.538	1.052	1.773
60	1.292	0.808	1.598	2.679
70	1.508	0.942	1.871	3.132
80	1.723	1.077	2.144	3.585
90	1.939	1.212	2.417	4.038
100	2.154	1.346	2.690	4.491
120	2.585	1.615	3.236	5.397
150	3.231	2.019	4.055	6.756
200	4.308	2.692	5.419	9.022
250	5.385	3.365	6.784	11.287
300	6.462	4.039	8.148	13.552

16:9 Perspctive				
Screen Size	Width(H)	Height(B1+B2)	Wide	Tele
30	0.664	0.374	0.801	1.357
40	0.886	0.498	1.082	1.822
60	1.328	0.747	1.643	2.754
70	1.550	0.872	1.923	3.219
80	1.771	0.996	2.204	3.685
90	1.992	1.121	2.484	4.151
100	2.214	1.245	2.765	4.616
120	2.657	1.494	3.326	5.548
150	3.321	1.868	4.167	6.945
200	4.428	2.491	5.570	9.273
250	5.535	3.113	6.973	11.601
300	6.641	3.736	8.375	13.929

4:3 Perspctive				
Screen Size	Width(H)	Height(B1+B2)	Wide	Tele
30	0.610	0.457	0.883	1.495
40	0.813	0.610	1.192	2.008
60	1.219	0.914	1.810	3.034
70	1.422	1.067	2.119	3.547
80	1.626	1.219	2.428	4.060
90	1.829	1.372	2.737	4.573
100	2.032	1.524	3.046	5.086
120	2.438	1.829	3.665	6.112
150	3.048	2.286	4.592	7.652
200	4.064	3.048	6.137	10.217
250	5.080	3.810	7.683	12.782
300	6.096	4.572	9.228	15.348

Projection distance formula

16:10	WIDE	Y	=	27.292	X		39.288
	TELE			45.303			39.080
16:9	WIDE	Y	=	28.052	X		40.382
	TELE			46.565			40.169
4:3	WIDE	Y	=	30.908	X		44.494
	TELE			51.306			44.259

Y: Projection Screen Size（Unit: inch） X: Projection Distance （Unit: m）

EL-VL556U/ EL-VL606U

16:10 Perspctive				
Screen Size	Width(H)	Height(B1+B2)	Wide	Tele
30	0.646	0.404	0.765	1.258
40	0.862	0.538	1.031	1.689
60	1.292	0.808	1.564	2.550
70	1.508	0.942	1.831	2.981
80	1.723	1.077	2.098	3.411
90	1.939	1.212	2.364	3.842
100	2.154	1.346	2.631	4.273
120	2.585	1.615	3.164	5.134
150	3.231	2.019	3.964	6.426
200	4.308	2.692	5.297	8.579
250	5.385	3.365	6.631	10.732
300	6.462	4.039	7.964	12.885

16:9 Perspctive				
Screen Size	Width(H)	Height(B1+B2)	Wide	Tele
30	0.664	0.374	0.786	1.293
40	0.886	0.498	1.060	1.736
60	1.328	0.747	1.608	2.621
70	1.550	0.872	1.882	3.064
80	1.771	0.996	2.156	3.506
90	1.992	1.121	2.430	3.949
100	2.214	1.245	2.704	4.392
120	2.657	1.494	3.252	5.277
150	3.321	1.868	4.075	6.605
200	4.428	2.491	5.445	8.818
250	5.535	3.113	6.815	11.031
300	6.641	3.736	8.186	13.244

4:3 Perspctive				
Screen Size	Width(H)	Height(B1+B2)	Wide	Tele
30	0.610	0.457	0.866	1.425
40	0.813	0.610	1.168	1.913
60	1.219	0.914	1.772	2.888
70	1.422	1.067	2.074	3.376
80	1.626	1.219	2.376	3.863
90	1.829	1.372	2.678	4.351
100	2.032	1.524	2.980	4.839
120	2.438	1.829	3.584	5.814
150	3.048	2.286	4.489	7.277
200	4.064	3.048	5.999	9.716
250	5.080	3.810	7.509	12.154
300	6.096	4.572	9.019	14.593

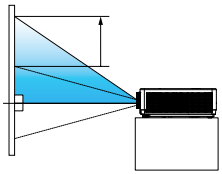
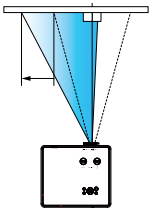
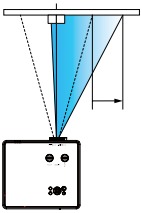
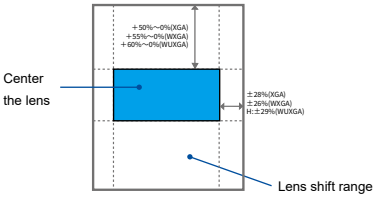
Projection distance formula

16:10	WIDE	Y	=	26.664	X		35.398
	TELE			43.063			33.670
16:9	WIDE	Y	=	27.407	X		36.384
	TELE			44.263			34.608
4:3	WIDE	Y	=	30.197	X		40.088
	TELE			48.769			38.131

Y: Projection Screen Size（Unit: inch） X: Projection Distance （Unit: m）

Lens shift adjustment

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

The projection location of your image may be moved upward a distance up to 50% between the upper and lower range of the image.	Move lens to it top position 
The projection location of your image may be moved leftward a distance up to 28%(XGA) , 26% (WXGA) and 29%(WUXGA) of the width of the image.	Move lens to it leftmost position 
The projection location of your image may be moved rightward a distance up to 28%(XGA) , 26% (WXGA) and 29%(WUXGA) of the width of the image.	Move lens to it rightmost position 
Scope of lens shift adjustment (when the Llens move to the limit, the screen will be dark or shadow)	

* This table is measured with standard lens.
* When the setting of LENS SHIFT as the maximum position, the corner of projection image might be darker.

Connect to pc (Digital and Analog RGB)

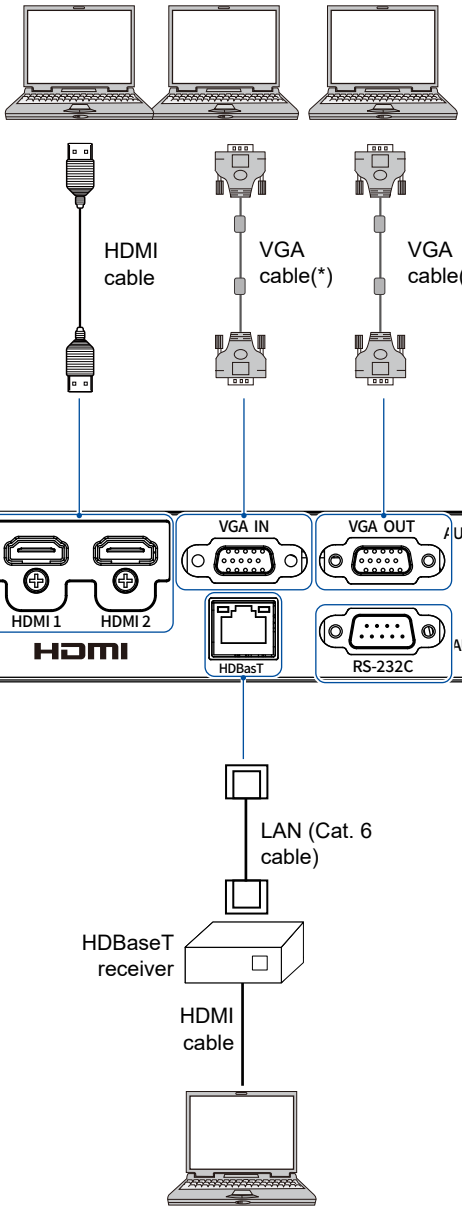
Cables for connection:

- VGA cable*
- Serial cable (Cross type)*
- HDMI 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 optional. If the projector does not have HDBaseT function, the HDBaseT port does not exist.

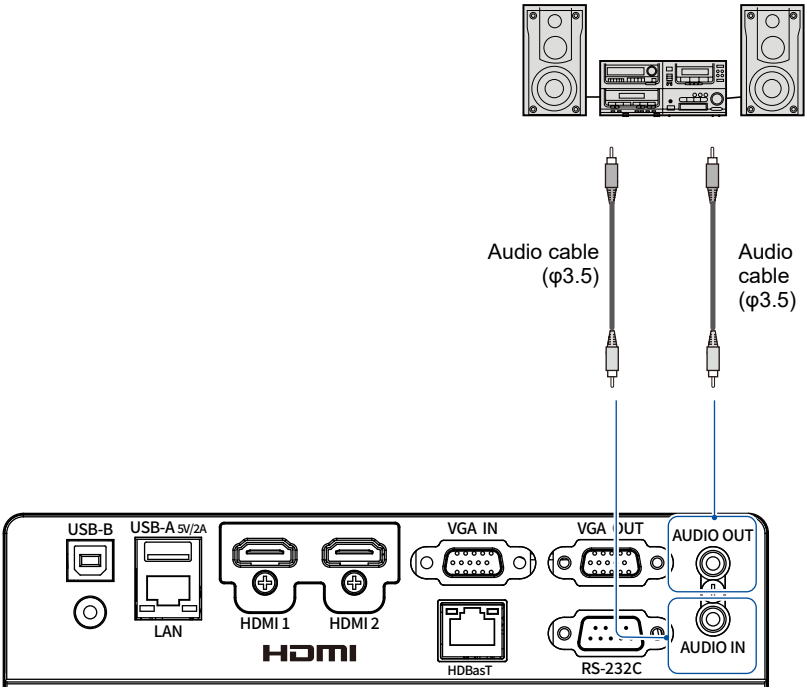


Connect to Audio equipment

Cables for connection:

- Audio cable*

(* This cable is not included.)



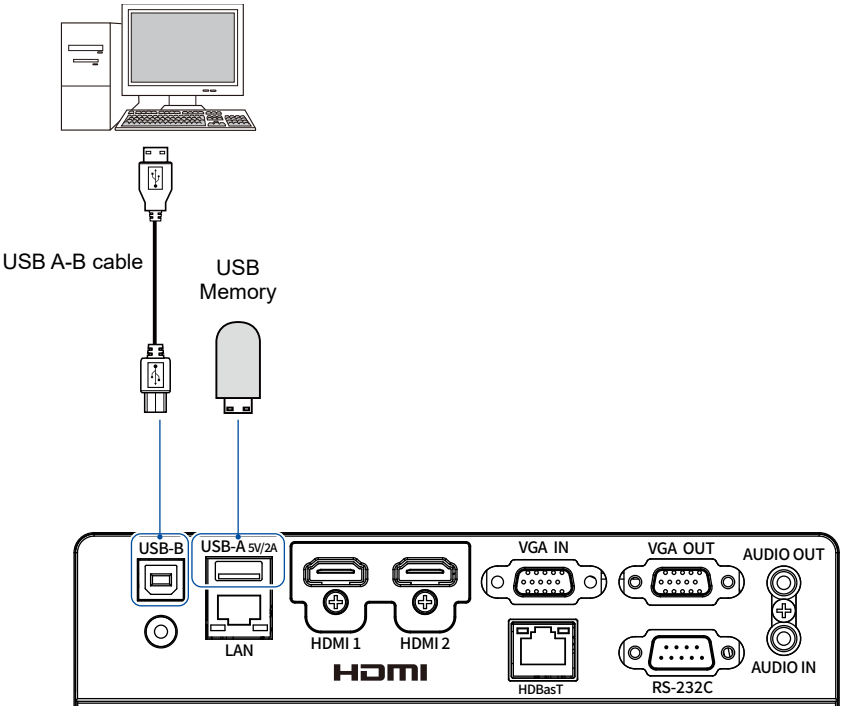
- Unplug power cords of your projector and all external equipment before connecting any cable to them.
- HDBaseT is optional. If the projector does not have HDBaseT function, the HDBaseT port does not exist.

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

Cables for connection:

- USB-A or USB-B cable*

(* This cable is not included.)



- Unplug power cords of your projector and all external equipment before connecting any cable to them.
- HDBaseT is optional. If the projector does not have HDBaseT function, the HDBaseT port does not exist.

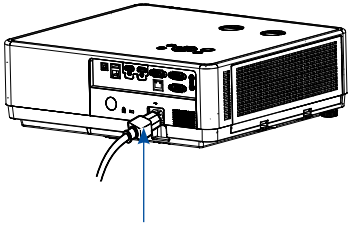
Connect the AC power cord

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.

Note:

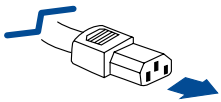
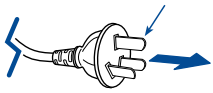
Keep your AC power socket close to your projector for easy plugging and unplugging.



Connect included AC power cord to your projector.

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

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

The projector side	Connect to the AC power socket
 Connect to power cord connector of your projector	Grounding end  Connect to AC power socket

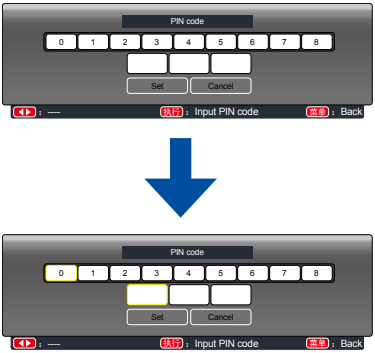
✓ **Note:**
- Use of invalid power cord may hamper product performance or even lead to electric shock, fire, and other incidents. Please use power cord compliant with the included one to ensure product performance and operation safety.
- The frequently used cables are: AC power cord, VGA cable, audio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

Power on your projector

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



✓ **Note:**
- In case the “Logo Select” option is set to OFF, then no welcome image will display in screen.
- You can do nothing but powering off your projector during the welcome image is displaying.



Enter password (PIN)
Press ▲▼ button to select a number, press ▶ button to enter it and move the cursor. The number you typed is displayed as “*”. To edit number you have entered, press ◀ button to move the cursor to the number you want to change, press ▲▼ button to select the correct one.

Repeat this step to type in a 3-digit number.

Move the cursor to SET after you have typed the 3-digit number. Press the OK button and now you are ready to use your projector.

If the password is invalid, the password displayed as “***” will be in red. Please try again with a valid one.

Move the cursor to Set button,then press the OK button.

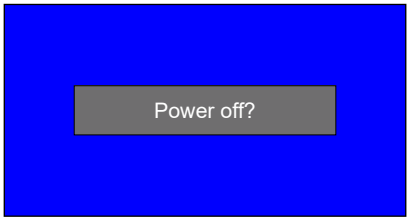
What is a password (PIN)?
A password (PIN) is an ID code for identifying people with knowledge about it to operate your projector. A password (PIN) setting may help preventing your projector from unauthorized use.

You password (PIN) code is a 3-digit number. To find out more about protecting your projector with a password (PIN), please refer to the PIN Code Lock function in the Setup menu on Page 79 for details.

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

Power off your projector

1. Press the Power button at the top control panel or the remote control, the “Power off?” message displays.
2. Press the Power button again in 4 seconds after the “Power off?” message prompted to you. The POWER indicator flashes green while the cooling fan continues running. (You may set up noise level and speed of the fan when it is cooling down.) Unplug the power cord until the fan stops running. Failure to do so may shorten life cycle of your projector or lead to power on failures or operation abnormalities.



“Power off?” message disappears in 4 seconds.

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

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

✓ **Note:**

- If the “Direct on start” function is set to “On”, your projector will power on once it is connected to an AC power socket. (Refer to page 56)
- Speed of the cooling fan varies with internal temperature of your projector.
- Do not place your projector in any box before it is fully cooled down.
- In case the POWER indicator flashes or turns red, refer to the “Light indicator status ” for instructions. (Refer to page 98)
- The POWER indicator flashes when the light source is cooling down. Do not power on your projector at this time. Power on your projector only after the POWER indicator turns orange.
- Unplug the power cord after your projector has been turned off. The fan stops running.

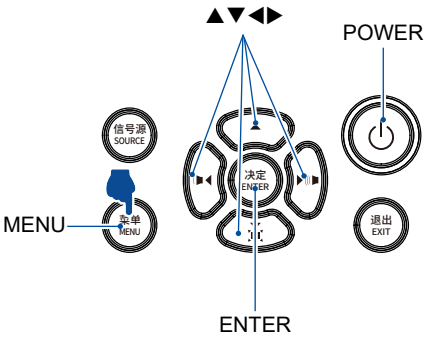
How to operate the OSD

You can adjust or set up the projector on the on-screen menu .

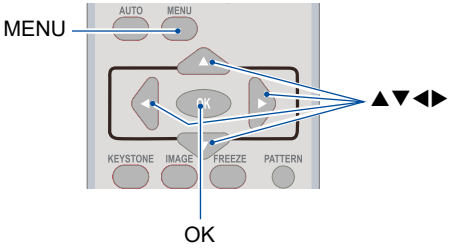
The menu has a multilayer structure. Each main menu is divided into several sub-level menus, then each submenus is divided into several submenus.

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

Top control panel

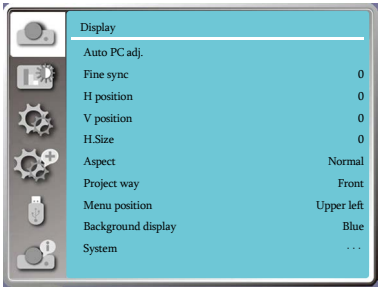


Remote control

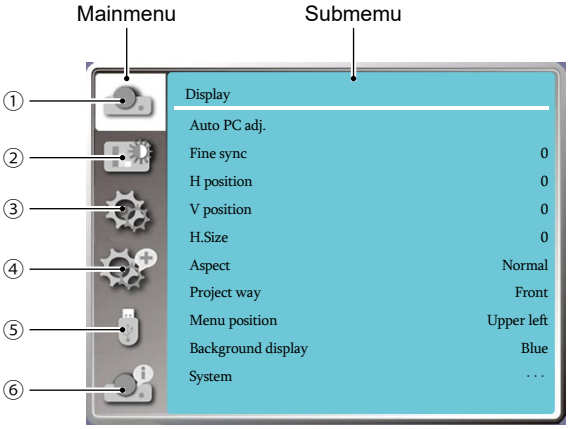


1. Press the MENU button on the top control panel or remote control and the OSD displays.
2. Press ▲▼ button to act on or select one mainmenu item. Press ▶ button or OK button to enter a submenu.
3. Press ▲▼ button to select required submenu, then press OK button or ▶ button to set up or enter an option.
4. Press ▲▼ button to select settings or navigate options, then press OK button to act on the item and exit.
5. Press ◀ button or BACK button on remote control and control panel to return to mainmenu. Press the MENU button to exit the OSD.

OSD Menu



Menu item overview



1 Display menu

- Select Auto PC adj., Fine sync, H Position, V Position, H. size to adjust the parameters to match the VGA format.
- Aspect : XGA:Normal、16:9、16:10、Full； WUXGA:Normal、4:3、16:10、Full.
- Project way: Choose Front, Rear, Ceiling / Front, Ceiling / Rear, Auto ceiling/Front and Auto ceiling/Rear .
- Menu position: Set screen menu display position on the screen.
- Background display: Sets the background color of the projection screen.
- System: Select the compatible system signal format with input source.

2 Color adjust menu

Available options in the Image Select menu are Dynamic, Standard, Cinema, Colorboard, DICOM SIM, Blackboard (green)、User image.

- For VGA,HDMI 1 and HDMI 2 input, the available color adjust options : Contrast, Brightness, Color temp., White balance(Red, Green, Blue) and Sharpness.

3 Setting menu

Configuration of the basic function operation on the projector: On start, Standby mode, High land, Cooling fast , Key lock, Contrast optimization, Laser control, Remote Control and HDMI Setup.

4 Expand menu

Available adjust options are Language, Auto Setup, Keystone, Logo , Security, Power management, Lens adjust., Test pattern, Network and Factory default.

5 Memory Viewer menu

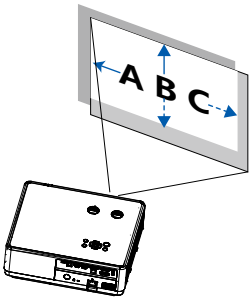
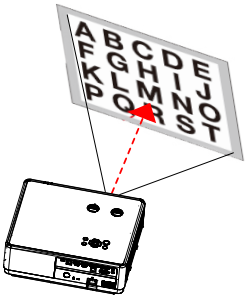
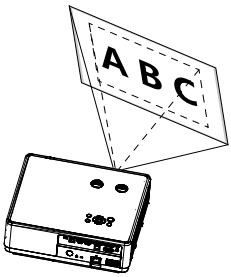
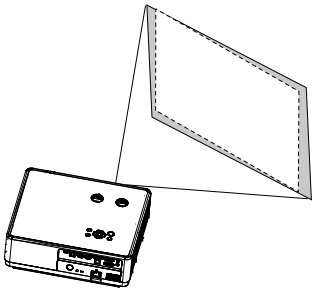
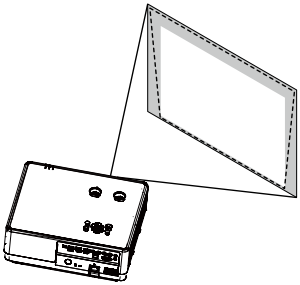
Select parameter Of Set slide, Slide transition effect, Sort order, Rotate, Best fit, Repeat, Apply.

6 Information menu

Display information about the projector.

Adjusting the picture size and position

Use the lens shift button, the adjustable foot, the zoom lever/zoom ring and the focus ring to adjust the picture size and position.
In this chapter drawings and cables are omitted for clarity.

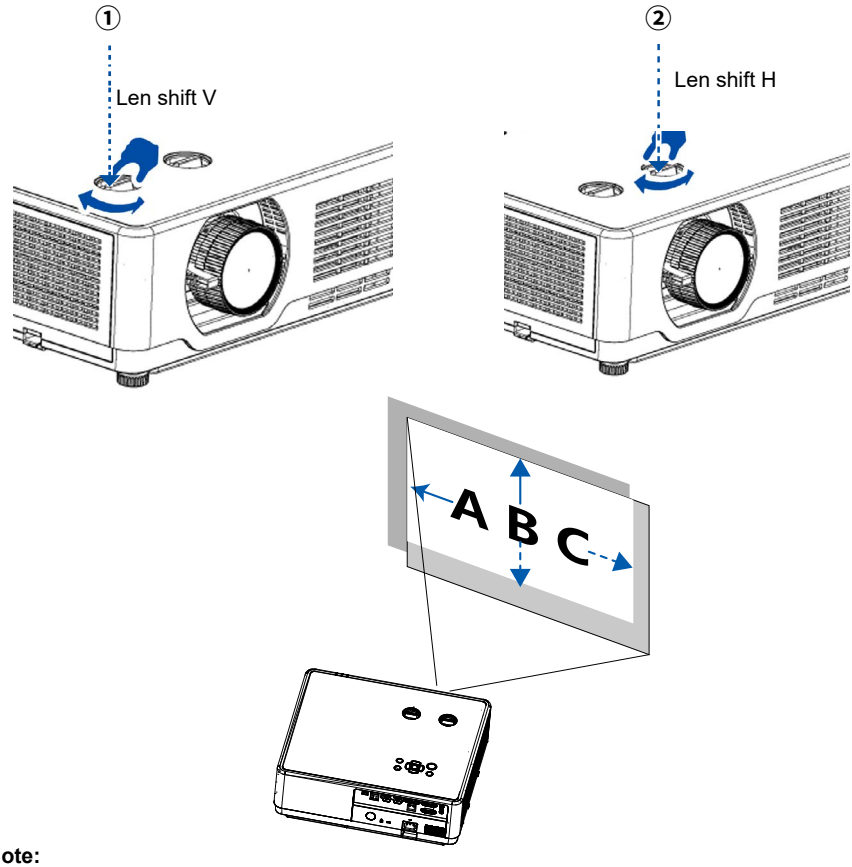
Adjusting the projected image's vertical and horizontal position [Lens shift]	Adjusting the focus [Focus ring]
	
Finely adjusting the size of an image [Zoom lever]	Adjusting the projected image's height and horizontal tilt [Adjustment pad]
	
Correcting the keystone distortion [Keystone]	
	

Lens shift function

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

Rotate ① button , then you can move upward and downward the image with a distance up to +50% (XGA) , +55% (WXGA) and +60%(WUXGA) between the upper and lower range of the image. (See Figure three for detail)

Rotate ② button, then you can move rightward and leftward the image with a distance up to 28%(XGA) , 26% (WXGA) and 29%(WUXGA) of the width of the image. (See Figure four for detail)

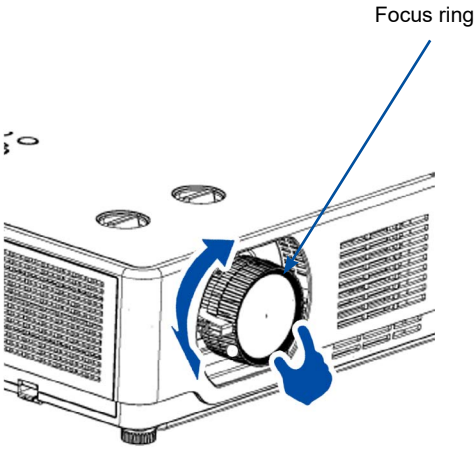


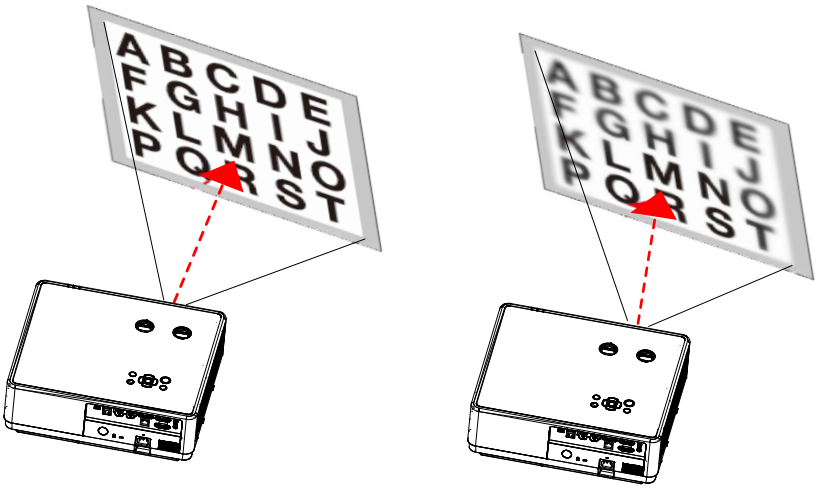
✓ **Note:**

- The button can be turned more than one full turn, but the projection position cannot be moved more than the range indicated on the following page. Do not force to turn the button. Doing so may damage the button.
- 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 must be finished with an image shifted upward. If you finish the vertical shift adjustment with an image shifted down, the zoom/focus adjustments or strong shaking may cause a projected image to slightly shift down.

Focus adjustment

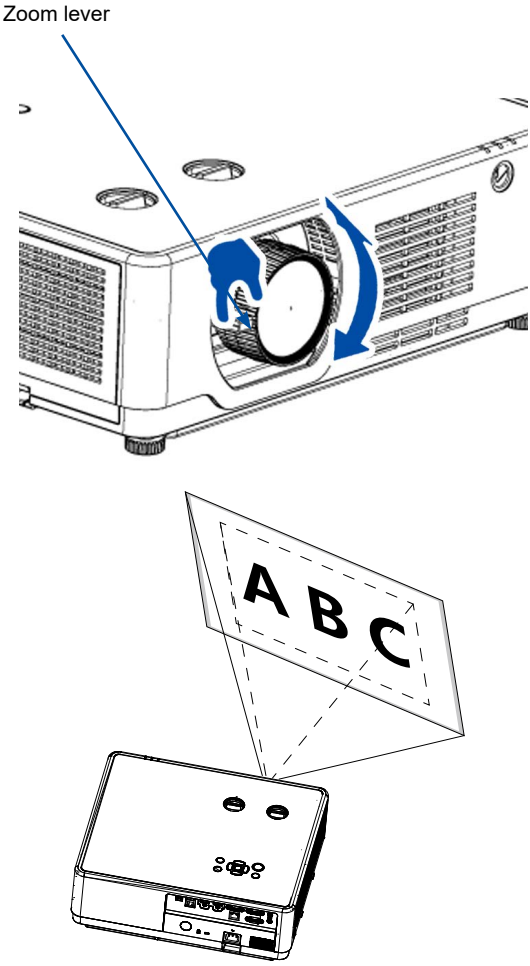
Use the focus ring to obtain the best focus.





Zoom adjustment

Turn the zoom lever clockwise and counterclockwise.



Adjustment pad

Adjusting the left and right tilt.

1. Place the projector perpendicular to the screen.

2. Turn the left and right tilt feet to adjust

- You may use the adjustment pad to raise your projector up to 1.0 degree, just show as below Image (1).
- Rotate the adjustable pad and tilt the projector to the required height whose max height is up to 18mm, just show as below Image (2).
- Turn the pad to tilt your projector to required height, just show as below Image (3).
  Turn both pads clockwise to raise your projector, while turn both pads counterclockwise to lower down your projector or close the pad.

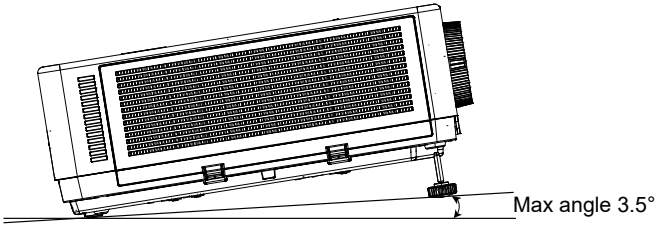


Image (1)

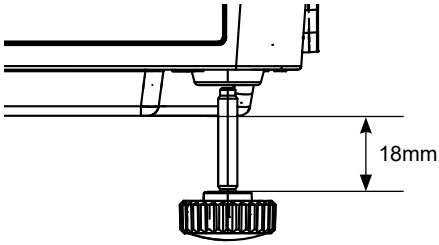


Image (2)

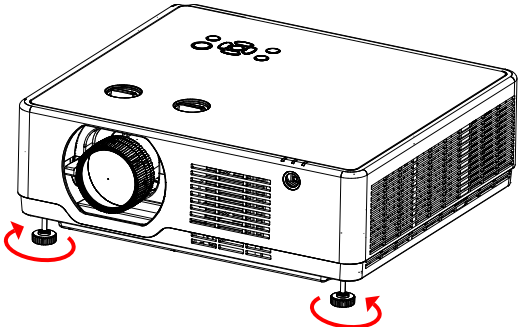


Image (3)

Keystone adjustment

When the projector is not exactly perpendicular to the screen, keystone distortion occurs. For correcting this distortion, you can use the “Keystone” function, a digital technology that can adjust for keystone-type distortion, resulting in a crisp, square image.

Follow the steps below to manually correct the trapezoid image.

Before performing KEYSTONE correction
The keystone function has five features, including H/V keystone, 4-corner correction, 6-corner correction, curved correction, Grid Image Tune, reset value.
Press ▲▼◀▶ button to adjust keystone distortion, and press the OK button on the remote control or press ENTER button to select.

You may save your settings for keystone adjustment.

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

4-Corner correction.....Adjust the projected image when the projector is keystone distortion of four corners .

6-Corner correction.....Adjust the projected image when the projector is keystone distortion of four corners.

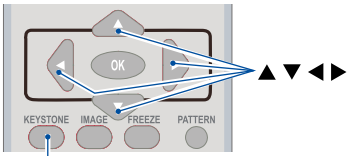
Curved correction.....Adjust the projected image when the projector linearity is uneven or the projected images bent vertically and horizontally.

Grid Image Tune..... Adjust the local points of the projected image.

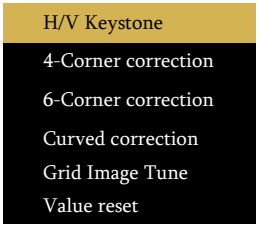
Reset value.....The correction values will be restored to the factory defaults.

1. Press the ▼ button on the projector cabinet.
The H/V keystone screen will be displayed on the screen.
- Press the KEYSTONE button when using the remote control.

Remote control

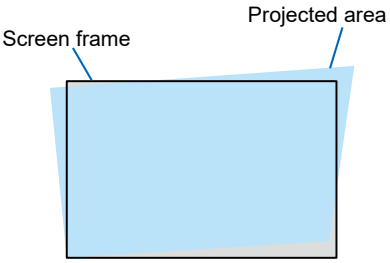


KEYSTONE



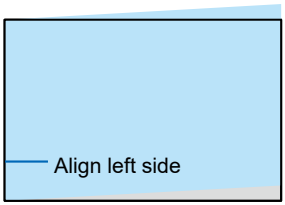
2. Press the ▼ button to select H/V keystone, then press the ENTER button to select the V keystone. And press ◀▶ button to so that the left and right sides of the projected image are parallel.

- Adjust the vertical keystone distortion.



3. Align the left (or right) side of the screen with the left (or right) side of the projected image.

- Use the shorter side of the projected image as the base.
- In the right example, use the left side as the base.



4. Press the ▲ button to select H KEYSTONE and then use the ◀▶ button so that the top and bottom sides of the projected image are parallel.

- Adjust the vertical keystone distortion.



5. Repeat steps 2 and 4 to correct keystone distortion.

6. After completing Keystone correction, press the EXIT button to turn off the menu.

✓ **Note:**

- The arrow mark looks white when there is no keystone adjustment in existence.
- The arrow mark indicating the adjustment direction turns red.
- The arrow mark disappears when the maximum adjustment limit reaches.
- The keystone prompt box will disappear if you press the KEYSTONE button again when it is displaying. Press the OK button again to switch the four correction items.
- The adjustable range is subject to source of signal input.
- For further details about Keystone function, please turn to page 62-66.

To return the keystone adjustments to default:

1. **The Keystone screen will be displayed on the screen.**
2. **Press ▼ button to select Reset.**
3. **Press the ◀▶ button to select "Yes", then to press the OK button.**
   - The adjustments will be reset.

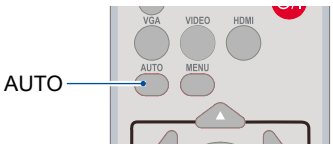
✓ **Note:**

- All adjusted values set in the [KEYSTONE] adjustment are reset to initial values

Auto setting function

Turn on the automatic setting function and select the VGA input source. Press the remote control <Auto> button to automatically perform computer adjustments.

Remote control



Volume adjustment

You'd better use the remote controllor to complete directly.

VOLUME

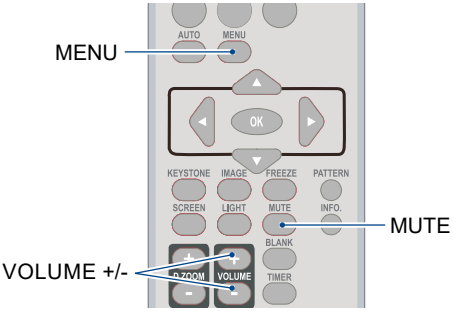
Press the remote controllor VOL +/- buttons to adjust the volume.

MUTE

Press the MUTE button on the remote controllor to select "On", you can temporarily turn off the sound. Press the MUTE button again to select "Off" or press the VOL +/- keys again to re-open the audio effects.

Mute function is also effective for audio output interfaces.

Remote control

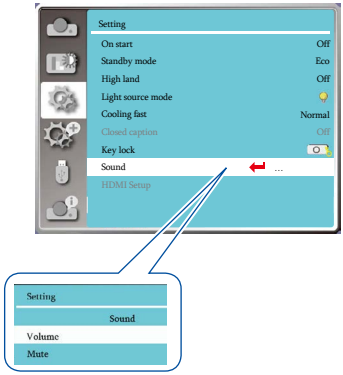


Menu operation

1. Press the MENU button on the top control panel or remote control and the OSD displays. Press ▲▼ button to enter setting menu, then press OK or ▶ button.
2. Press ▲▼ button to select sound, press OK or ▶ button to enter.
3. Press ▲▼ button to select volume or mute.

   Volume.....Press ▲ button to increase volume.
   Press ▼ button to decrease volume.
   Mute.....Press ▲▼ button to switch to On or Off .
4. Press OK button to select.

Sound menu



Remote control operation

Use your remote control for common operations.

Freeze (FREEZE)

Press the FREEZE button on remote control to freeze image and mute the audio. Freeze icon appears on the screen .Press the FREEZE button or any button to cancel the freeze function, then the image replay and the sound is restored .

Mute (MUTE)

Press the MUTE button on the remote control to turn off the sound. To remove the mute function, please press the mute button or volume +/- button to cancel the mute function.

Volume +/- (VOL +/-)

press the VOLUME +/- on remote control to increase or decrease volume.

Image (IMAGE)

Press the IMAGE button on remote control to select required image mode.

INFO.(INFO.)

Press the INFO. button on the remote control to display the information of the projected image and the projector's operating status.

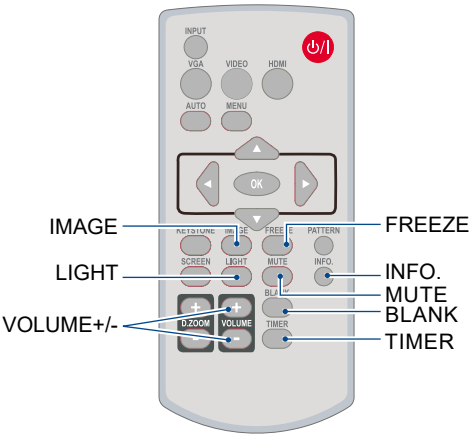
Timer (TIMER)

Press the TIMER button on remote control. A timer animation (00:00) displays on the upper right conner and starts timing in format of (00:00-59:59).
Press the TIMER button to stop timing. Press the TIMER button again to disable the timing function.



Timer display

Remote control



✓ **Note:**

- For some other buttons' description,please refer to the next page.

Blank (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 → .....



The BLANK screen disappears if no buttons are pressed in 2 seconds.

Digital Zoom + (D.ZOOM+)

Press the D.ZOOM+ button on remote control to enter the Digital Zoom mode.
When OSD menu disappear, the screen display digital zoom + information.
*Only for input as VGA, VGA2, and the screen size setting as Normal or Wide.

Digital Zoom - (D.ZOOM-)

Press the D.ZOOM- button on remote control to enter the Digital Zoom mode.
When OSD menu disappear, the screen display digital zoom - information.

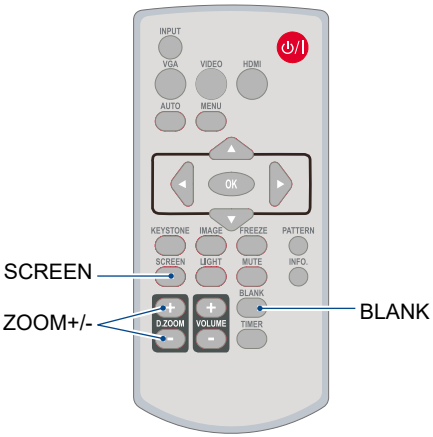
Press + / - mode to exit the Digital Zoom.

Screen size selection (SCREEN)

Press the SCREEN button on remote control to select required screen size mode.

Press the SCREEN button on the remote control to select the size of the screen to return to the normal screen size.

Remote control

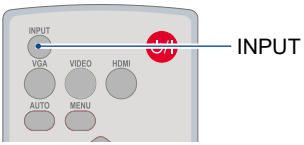


Input selection

Basic operation

Press the INPUT button on the top control panel or on the remote control to select one of the following input: VGA, HDMI 1, HDMI 2, Network, Memory viewer and USB Display as input signal.

Remote control

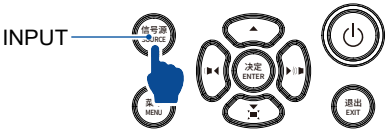


Menu operation

1 Press the INPUT button on remote control to enter the Input menu.

2 Press ▲▼ button to select one of the following input: VGA, HDMI 1, HDMI 2, Network, Memory viewer and USB Display, then press the OK button to select the input signal.

Top control Panel



VGA

Select input VGA if a PC is connected to the VGA IN terminal.

HDMI 1

Select input HDMI 1 if a device is connected to the HDMI 1 terminal.

HDMI 2

Select input HDMI 2 if a device is connected to the HDMI 2 terminal.

Memory Viewer

Select input Memory Viewer if a device is connected to the USB-A terminal.

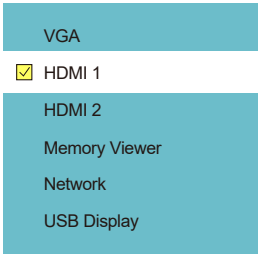
Network

Select input Network if a device is connected to the LAN terminal.

USB Display

Select input USB Display if a device is connected to the USB-B terminal.

Input menu



✓ **Note:**

- If the " input search" function in the Auto Setup option is set to "On", when there is signal access, the projector will automatically switch to the current channel signal. The AUTO searching function maybe invalid for input of "USB Display", "Memory Viewer" and "Network".
- For further details about Memory Viewer function, please turn to page74-75/ 85-87.
- For further details about USB Display function, please turn to page 87-89.

Auto PC adj.

Select Auto PC Adj. function can adjusts Fine sync, H position, V position , H size to be compatible with the computer automatically.

Menu operation

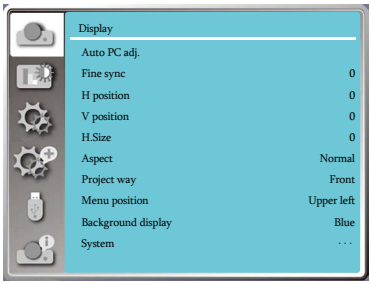
AUTO PC adj.

Press < MENU > button on the remote control or < ⊙ >button on the top control panel to display the OSD menu.Press ▲▼button to select the Display menu, then press <OK> or ▶button.

1) Press ▲▼ button to select [Auto PC adj.] menu.

2) Press <OK> button.

AUTO PC adj. menu



fine sync

(Only for PC signal input)

Adujust image to the best state When the image jitters, or the image outline dims.

1) Press ▲▼ button to select [Fine sync] menu.

2) Press <OK> button.

3) Press ▲▼ button to adjust Fine sync.

Adjustment range is from 0 to +31. Please adjust to the least interference state.

✓ **Note:**

- The projector will perform Auto PC Adjustment function automatically,when its signal is input for the first time.
- Auto PC Adjustment function may fail to work if computer models is not compatible with the input signal .
- Auto PC Adjustment function may fail to work if you select the following system signal format: 480i, 576i, 480p, 576p, 720p, 1080i,1080p, or signals from the HDMI terminal.

H position

(Only for PC signal input)

On the premise that the relative position of both projector and the screen is set up right,you can move the image horizontal position,if the position of the projected image on the screen is deviated.

1) Press ▲▼ button to select [H position] menu.

2) Press <OK> button.

3) Press ▲▼ button to adjust image H position.

Adjustment range is from -5 to +5.

V position

(Only for PC signal input)
On the premise that the relative position of both projector and the screen is set up right, you can move the image vertical position,if the position of the projected image on the screen is deviated.

1) Press ▲▼ button to select [V position] menu.

2) Press <OK> button.

3) Press ▲▼ button to adjust image V position.

Adjustment range is from -5 to +5.

H size

(Only for PC signal input)
You can adjust and reduce the interference caused by patterns of the projected vertical stripes.The following projected patterns may cause a circular pattern (Noise).

Adjust the amount of interference to the minimum.

Users can point the clock to adjust images.

1) Press ▲▼ button to select [H size] menu.

2) Press <OK> button.

3) Press ▲▼ button to adjust H size level .

Adjustment range is from -15 to +15.

Aspect

Adjust the image to fit the screen size,while keeping aspect of input signal's unchanged.
Press < MENU > button on the remote control or < ⏻ >button on the top control panel to display the OSD menu.Press ▲▼button to select the Display menu , then Press <OK> or ▶button.

1) Press ▲▼ button to select [Aspect] menu.

2) press <OK> button.

3) Press ▲▼ button to select the required item.

Normal....Use the maximum size to roject while keeping the aspect of input signal's unchanged.

Full.....Project images to the maximum.

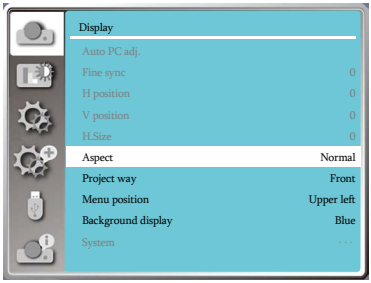
4:3.....Project images at the aspect of 4:3

16:9.....Project images at the aspect of 16: 9.

16:10.....Project images to the maximum.

- Only for VGA and HDMI as signal input.

Aspect menu



✓ Note:
- XGA:NORMAL/16:9/16:10/FULL.
- WUXGA:Normal/4:3/16:10/Full.

✓ Note:
- When the projector is in digital focusing state, the aspect ratio is displayed as DZOOM IN.
- For the details about the edge blending function, please refer to the attached introduction of edge blending function in the appendix.

Project way

Select this function to set the progect way .
Please change the projection way,if the OSD displays inversely or reversedly.
Press < MENU > button on the remote control or < >button on the top control panel to display the OSD menu.Press ▲▼button to select the Display menu ,then press <OK> or ▶button.

1) Press ▲▼ button to select [Project way] menu.
2) press <OK> button.
3) Press ▲▼ button to switch .

Front : When the projector is installed on the table and projected in front of the screen.
Rear : When the projector is installed on the table and projected in rear of the screen (using translucent screen)
Ceiling / Front : When use the bracket to lift the projector (optional) in front of the screen.
Ceiling / rear : When use the bracket to lift the projector (optional) in rear of the screen(using translucent screen).
Auto ceiling / Front : When the projector is projected in front of the screen.
Auto ceiling / Rear : When the projector is projected in rear of the screen.

Project way menu



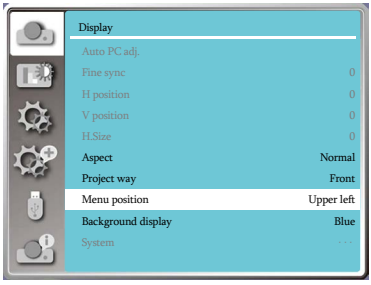
menu position

Select this function to set the Menu position .
Press < MENU > button on the remote control or < >button on the top control panel to display the OSD menu.Press ▲▼button to select the Display menu ,then press <OK> or ▶button.

1) Press ▲▼ button to select [Menu position] menu.
2) Press <OK> button.
3) Press ▲▼ button to change menu position.

Upper left .....The Menu display on the Upper left corner of the screen.

Menu position menu



Center.....The OSD display in the Center of the screen.
Lower left .....The Menu display on the lower left corner of the screen.
Lower right ...The Menu display on the lower right corner of the screen.

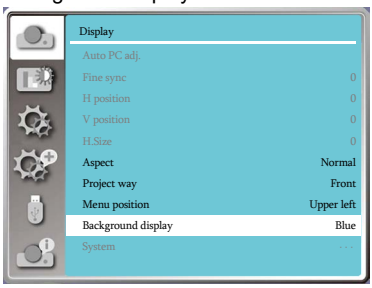
background display

Select this function can adjusts background color.
Press < MENU > button on the remote control or < >button on the top control panel to display the OSD menu.Press ▲▼button to select the Display menu ,then press <OK> or ▶button.

1) Press ▲▼ button to select [Background display] menu.
2) Press <OK> button.
3) Press ▲▼ button to select reqiured item .

Blue..... The entire projection area display blue.
Black.....The entire projection area display black.

Background display menu



✓ **Note:**
This function will be invalid once you select input signal as USB Display, Memory Viewer and Network.

System

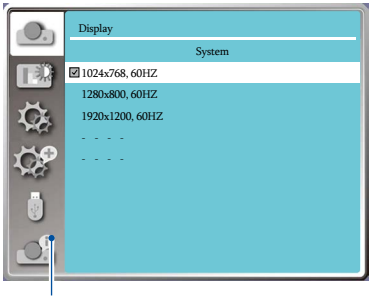
System selection

The scanning system and auto computer adjustment function may detect scores of signal format. If a PC is selected as the input signal source, your projector will detect and adapt to its signal format automatically. Correct image can be displayed without any setup operation.

Your projector will display one of the following:

Auto	If your projector failed to identify signals not shown in the signals format table, the “Auto” message will display in the System Signal Format menu. The Auto PC Adjusting function will make necessary adjustment to your projector to project valid images. If images are displayed incorrectly, adjust it manually.
-----	No PC signals detected. Check the connection between PC and your projector.

Computer system menu



The selected system displays in the PC system menu.

✓ Note:
The computer system menu will be disabled once HDMI 1, HDMI 2, Memory Viewer, Network, USB Display has been selected.

Select the computer system manually

1 Press < MENU > button on the remote control or < ⊜ >button on the top control panel and the OSD displays. Press ◀▶ button to point to the Input icon, press ▲▼button or OK button and the Input menu displays.

2 Press ▲▼ button to select System Signal Format, then press OK button.

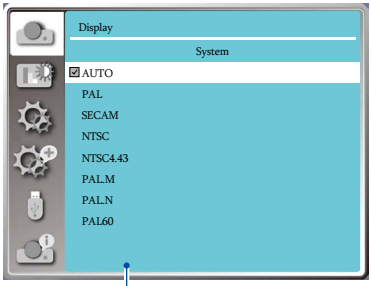
3 Press ▲▼ button to select required system signal format, then press OK button to confirm your selection.

✓ **Note:**
Your projector may save data generated by the Auto PC Adjust. function.

RGB input signal
1024x768 60HZ, etc:display the compatible name input signal name.
Auto: When projector has no compatible input signal with one from connected PC ,the PC can adjust automatically to run and Auto appear on the system. If the image is not projected out correctly, please adjust it to match your computer manually.
- - - -: No signal input come from PC. Please check the connections.

Video input signal
Auto: When projector select the input signal color system automatically. Set [PAL-M] or [PAL-N] manually .
[PAL]/[SECAM]/[NTSC]/[NTSC4.43]/[PAL-M]/[PAL-N]/[PAL60]:When projector can not display images correctly in [Auto], please set input signal color system manually.

Computer system menu



Video displays in the PC system menu.

Select Color Adjustto set the image mode and adjust the quality of the projected image.

Image mode

Direct operation

Press the Image Select button on remote control to select required image mode.

Menu operation

Press < MENU > button on the remote control or < >button on the top control panel to display the OSD menu. Press ▲▼button to select the Color adjust menu ,then press <OK> or ▶button.

1) Press ▲▼ button to select [Iamge mode] menu.

2) Press <OK> button.

3) Press ▲▼ button to select reqiured item.

Dynamic

An image mode suitable for viewing in bright room.

DICOM SIM

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

* For DICOM SIM mode, this product is not a medical device and cannot be used in daily medical diagnosis.

Standard

The default mode of your projector ,can come to national color.

Cinema

Enriched grayscale for viewing movies.

Blackboard (Green)

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

Colorboard

A image mode suitable for image projecting on surface of wall in red, blue, yellow or green. Presss <OK>button to enter colorboard menu,then press ▲▼ button to select red ,blue ,yellow or green, and press <OK> button.

Remote control



IMAGE

Image mode (For PC)



Color adjust(For PC.)

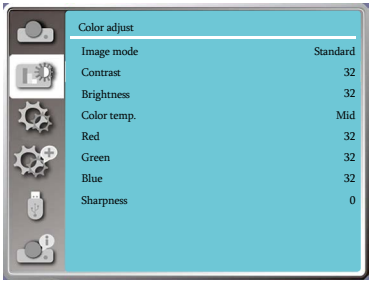
Press < MENU > button on the remote control or < >button on the top control panel to display the OSD menu.Press ▲▼button to select the Color adjust menu , then press <OK> or ▶button.

1) Press ▲▼ button to select reqiured item .

2) Press <OK> button.

3) Press ▲▼ button to adjust setpoint .

Color adjust(For PC)



Contrast
Press▼button to decrease contrast, range from 0 - +63.
press ▲ button to increase contrast,range from 0 - +63.

Brightness
Press▼ button to decrease brightness, range from 0 - +63.
press ▲button to increase brightness, range from 0 - +63.

Color temp.
Press ▲▼button to select required color temperature (Low, Mid. and High)

High temp:Become blue gradually.
Mid temp:Suitable natural color.
Low temp:Become red gradually.

Red
Press ▼button to decrease red tint and ▲ button to increase it.

Green
Press ▼button to decrease green tint and ▲button to increase it.

Blue
Press ▼button to decrease blue tint and ▲ button to increase.

Sharpness
Press ▼ button to soften image and ▲ button to sharpen， range from 0 - +15.

✓ **Note:**
- When you adjust "Red, "Green" or "Blue", the "Color temp." option will change to "Use".

Setting

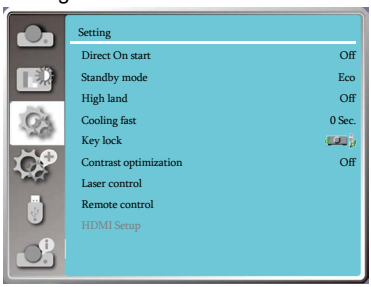
The projector has Setting fuction, you can select other functions as described below.

Menu operation

Press < MENU > button on the remote control or < >button on the top control panel to display the OSD menu.Press ▲▼button to select the Setting menu ,then press <OK> or ▶button.

1) Press ▲▼ button to select reqiured item.
2) Press <OK> button.
3) Press ▲▼ button to set options.

Setting menu



Direct On start

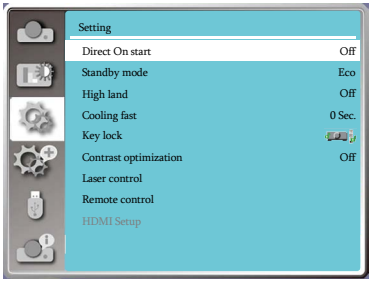
Set the power mode ON , when the power cord is connected to a power outlet.

1) Press ▲▼ button to select [On start] menu.
2) Press <OK> button.
3) Press ▲▼ button to select reqiured item.

Off..... Get into Standby mode.

On.....After entering the standby mode, press the power button to power on.

Direct On start



Standby mode

Set different power consumption during standby,no matter whenever your projector is operated through network

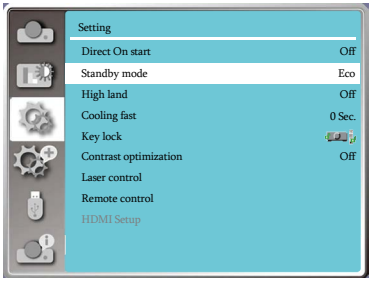
1) Press ▲▼ button to select [Standby mode] menu.
2) Press <OK> button.
3) Press ▲▼ button to adjust levels.

ECO mode.....Some function will be disabled once your projector is in ECO. standby mode to reduce power consumption. Under network standby, Network and RS-232C serial communication will be unavailable except the POWER ON command during that mode.

Network.....In order to reduce power consumption, some functions in standby mode will be limited. Under network standby, network function is not available and RS-232C serial communication (except boot command) function is not available.

Normal .....Even in standby mode,there are no restraint on network function and serial communication function.

Standby mode



high land

This projector provides Fan control function in the settings menu. You can change the setting about speed of cooling fan according to the altitude your projector is operating at.

1) Press ▲▼ button to select [High land] menu.

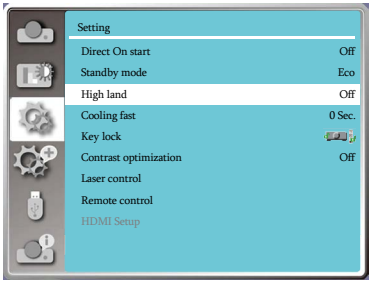
2) Press <OK> button.

3) Press ▲▼ button to select required menu.

Off: Normal speed. Set the option "Off " when operating the operator, if the altitude is not too high.

On: Faster than when in off mode .Set the option "On" when operating the operator in high land .

High land



✓ **Note:**

- Set high land option ON when you operate the operator at an altitude of 1700-3200 meters.

Cooling fast

After your projector is powered off, select cooling fan speed to shorten the cooling time .

1) Press ▲▼ button to select [Cooling fast] menu.

2) Press <OK> button.

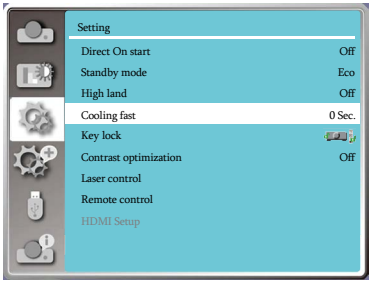
3) Press ▲▼ button to switch required menu.

Normal.....Running in normal way.

30 seconds.....Running faster than in normal mode with shorter time but a louder sound.

0 seconds.....Select this function allow you to unplug the AC power directly after the shutdown, without waiting for the projector cooling off.

Cooling fast



✓ **Note:**

- When set the option 0 seconds, user cannot restart the projector immediately after turning off .
- Sometimes, the light source may take longer time to start again than usual time during the high temperature.

Key lock

Select this function to lock and unlock the control panel or remote control keypad.

1) Press ▲▼ button to select [Key lock] menu.

2) Press <OK> button.

3) Press ▲▼ button to switch required menu.

Off.....The control panel or remote control keypad are effective.

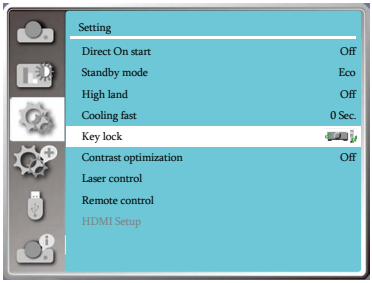
Projector.....Control panel keypad is invalid.

Remote control.....Remote control keypad is invalid.

✓ **Note:**

- If you lock the top of the control panel, but without a remote control or something wrong with the remote control, please contact your dealer or service center.

Key lock



Sound

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

1) Press ▲ ▼ button to select [Contrast optimization] menu.

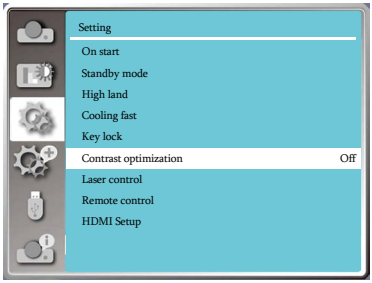
2) Press the ENTER button.

3) Press ▲ ▼ button to adjust.

Off.....No optimization.

On.....Optimize contrast.

Sound



Laser control

Change light source brightness according to the environment and aim your projector is operating.

1) Press ▲▼ button to select [Laser control] menu.

2) Press <OK> button.

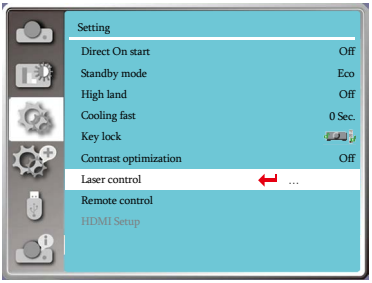
3) Press ▲▼ button to switch required menu.

Normal.....Normal brightness.

ECO.1/ECO.2.....Lower the brightness and reduce energy consumption, thus prolonging the light source service life.

Full normal.....The brightness is the same as normal mode, but it is not adjustable.

Laser control



Sound

Select this function to adjust the sound.

1) Press ▲▼ button to select [Sound] menu.

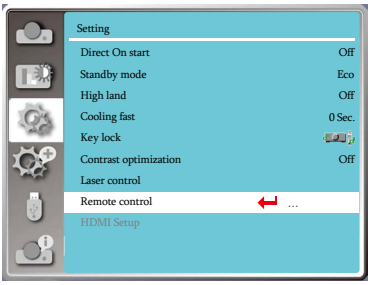
2) Press <OK> button.

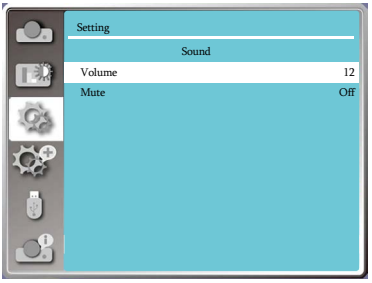
3) Press ▲▼ button to switch required menu.

Volume.....Press▼button to increase volume,range from 0~+25.
Press▲button to decrease volume,range from 0~+25.

Mute..... Press ▲▼ button to switch on or off Mute function.
On:No audio output.
Off:Audio output.

Sound





HDMI setup

When the external device is connected to the HDMI terminal of the projector, and the images can not be projected normally, please switch on the Image setting.the sound can not be output normally, please switch on the Audio input setting.

Press < MENU > button on the remote control or on the top control panel to display the OSD menu.Press ▲▼button to select the Setting menu ,then press <OK> or ▶button to enter the sub-menu.

1) Press ▲▼ button to select [HDMI setup] menu.

2) Press <OK> button.

- Display [HDMI Setup] instantly.

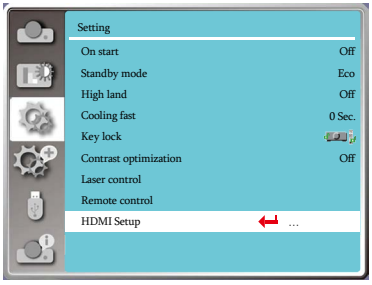
3) Press ▲▼ button to select [Image] or [Sound] .

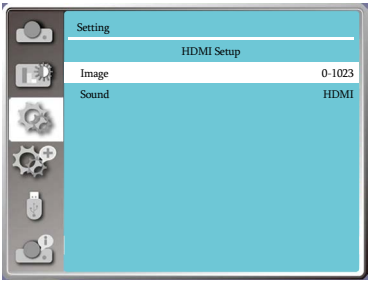
4) Press <OK> button.

✓ **Note:**

- HDMI option can be chosen onlu in HDMI 1 and HDMI 2 channel.

HDMI Setup





Image

Auto	Set the signal level automatically.
[64-940]	When external device (such as:a blu ray disc player) is connected to the HDMI setup terminal .
[0-1023]	When the output of an external device (such as a computer), via a conversion cable or a similar cable ,is connected to the HDMI setup terminal. Select this option when the output of the PC or any other device is connected to the HDMI setup terminal also.

✓ **Note:**

- The best settings about projectors may differ slightingly from your external output device .
- For external output, please refer to the instructions for use of the external device.

Sound

[HDMI]	When connect to the HDMI cable to tansmite images and audio while the users donot need connect to audio signal separatly.
[Computer]	When the output of an external device (such as a computer), via a conversion cable or a similar cable ,is connected to the HDMI terminal . The audio signal would be output according the connection of AUDIO IN terminal.

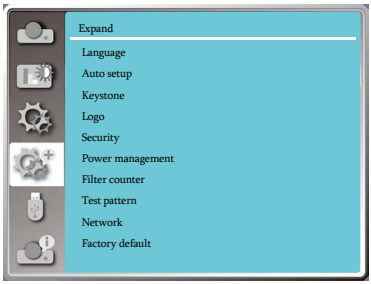
The projector has Expand fuction, you can select other functions as described below.

Menu operation

Press < MENU > button on the remote control or < ⊙ >button on the top control panel to display the OSD menu.Press ▲▼button to select the Expand menu ,then press <OK> or ▶button.

1) Press ▲▼ button to select reqiured item.
2) Press <OK> button.
3) Press ▲▼ button to set options.
4) Press <OK> button.

Expand menu



Language

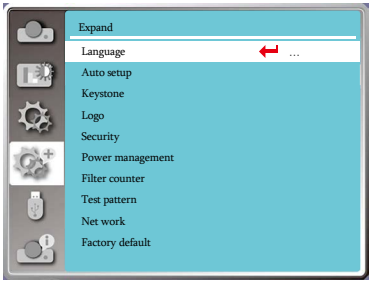
Users can selected the language displayed on the screen.

1) Press ▲▼ button to select [Language] menu.
2) Press <OK> button.
3) Press ▲▼ button to select required language.
4) Press <OK> button.

The name of menus, setting, the OSD, button etc., can displayed by the selected language.

Your projector comes with multiple language support. You may select required one from them, such as:English, German, French, Italian, Spanish, Polish, Swedish, Dutch, Portuguese, Japanese, Simplified Chinese, traditional Chinese, Korean, Russian, Arabic, Turkey, Finland, Norway, Denmark, Indonesia, Hungary, Czech Republic, Kazakhstan, Vietnamese, Thai, Farsi.

Language



Auto setup

Press the AUTO button on your remote control to execute the following functions : Input search and Auto PC adj. ,

1) Press ▲▼ button to select [Auto setup] menu.

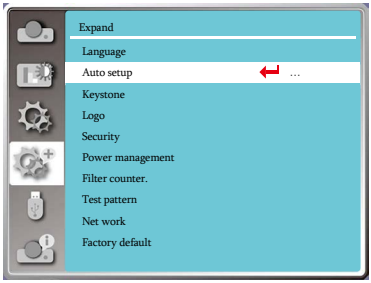
2) Press <OK> button.

3) Press ▲▼ button to select required items.

Input search : Select this function to detect the signal, then project images and input signals automatically .

Auto PC adj. : Select this function to adjust [Fine sync], [H Position], [V Position] and [H Size] automatically, when projector input analog signals.

Auto setup



✓ **Note:**

- One of Input search, Auto PC Adj. should be set to On at least.
- When Input search option is set to "On", the projector will search the signal automatically.

Keystone

Select this function to store or reset the Keystone or some related setting after unpluging the AC power.

Press < MENU > button on the remote control or < >button on the top control panel to display the OSD menu.Press ▲▼button to select the Expand menu ,then press <OK> or ▶button to enter

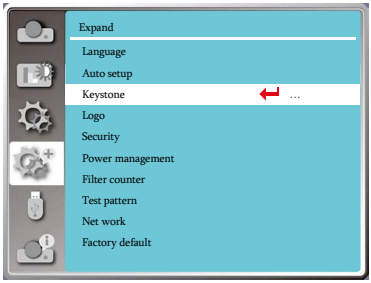
1) Press ▲▼ button to select [Keystone] menu.

2) Press <OK> button.

3) Press ▲▼ button to select required item.

4) Press <OK> button.

Keystone



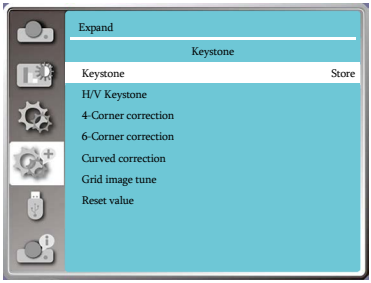
Keystone

Select this function to store and reset Keystone after closing the projector or unpluging the AC power .

Store.....Store Keystone after closing the projector or unpluging the AC power cord .

Reset value.....Keystone function will be cancelled after closing the projector or unpluging the AC power.

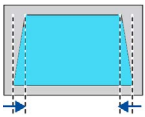
Keystone sub-menu



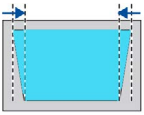
H/V Keystone

Select this function to correct the projected images horizontally or vertically.

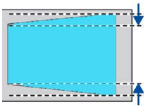
Press ▲button to reduce upper width



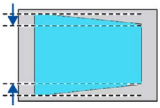
Press ▼button to reduce bottom width



Press ◀button to reduce left width



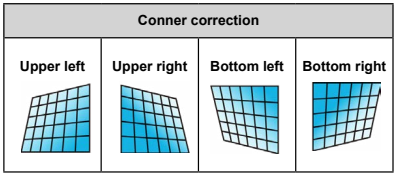
Press ▶button to reduce right width



4-Conner correction

Select this function to correct the projected images of four corners distorted.

Press ▲▼◀▶ button to keystone at four corners of the screen. The four corners are looped in sequence shown below:



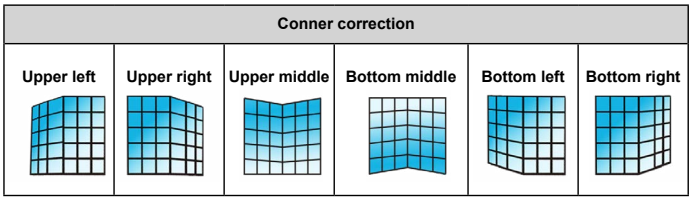
✓ **Note:**

- White arrow indicates no correction.
- Red arrow indicates Keystone direction .
- The arrow disappears when the correction come to the maximum.

6-Conner correction

Select this function to correct the projected images of four corners distorted.

Press ▲▼◀▶ button to keystone at six corners of the screen. The four corners are looped in sequence shown below:

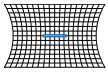
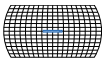
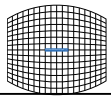
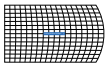
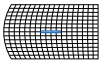
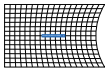
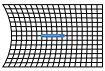
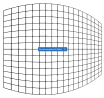
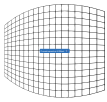


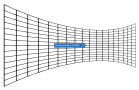
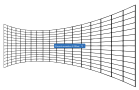
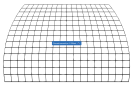
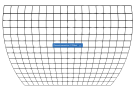
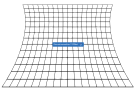
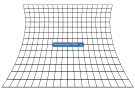
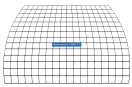
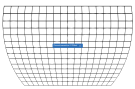
Expand

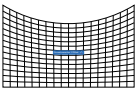
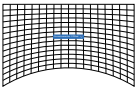
Curved correction

Select this function to correct the projected images with linearity uneven or vertical and horizontal bending deformation.

Press ▲▼◀▶ button to adjust options.

Item	Operation	Adjustment	
Curved correction X/Y gain	Press ▶	Sag left and right vertically	
	Press ◀	Extend left and right vertically	
	Press ▲	Reach up and down horizontally	
	Press ▼	Sag up and down horizontally	
Curved correction X offset	Press ◀	Correct the vertical lins on the left. Expand the top an and bottom while maintaining the central area	
	Press ▶	Correct the vertical lins on the right. Expand the top an and bottom while maintaining the central area	
	Press ◀	Correct the horizontal line on the left. Expand the top and bottom while maintaining the central area.	
	Press ▶	Correct the horizontal line on the right. Expand the top and bottom while maintaining the central area.	
	Press ◀	Correct the horizontal line on the left. Expand the top and bottom while maintaining the central area.	
	Press ▶	Correct the horizontal line to the right. Expand the top and bottom while maintaining the central area.	

Curved correction X offset	Press ◀	Correct the horizontal line on the left. Expand the top and bottom while maintaining the central area.	
	Press ▶	Correct the horizontal line to the right. Expand the top and bottom while maintaining the central area.	
Curved correction Y offset	Press ▼	Correct vertical lines on both sides. Expand the lower corners while maintaining the central and upper regions	
	Press ▲	Correct vertical lines on both sides. Expand the top corners while maintaining the central and upper regions	
	Press ▼	Correct vertical lines on both sides. Expand the lower corners while maintaining the central and upper regions	
	Press ▼	Correct vertical lines on both sides. Expand the lower corners while maintaining the central and upper regions	
	Press ▼	Correct vertical lines on both sides. Expand the lower corners while maintaining the central and upper regions	
	Press ▲	Correct vertical lines on both sides. Expand the top corners while maintaining the central and upper regions	

Curved correction Y offset	Press ▼	Correct vertical lines on both sides. Expand the lower corners while maintaining the central and upper regions.	
	Press ▲	Correct vertical lines on both sides. Expand the upper corner while keeping the central and lower regions unchanged.	

✓ **Note:**

- After adjusting values about H/V Keystone , if users adjust Conner correction, values about H/V Keystone will be reset . And after adjusting values about Conner correction, if users adjust about H/V Keystone, values about Conner correction will be reset also.
- Curved correction X compensation and Curved correction Y compensation can not be adjusted individually. Adjust Curved correction X compensation and Curved correction Y compensation after adjusting the X/Y Curved correction.
- Maximum Keystone range up to ±30° vertically and ±30° horizontally. However, the image quality will deteriorate, and becoe more difficult to focus. Install the projector with the minimal correction value.
- The screen size will be changed with various H/V Keystone adjustments .
- Keystone may influence image aspect .
- The Aspect of the image size may vary just for lens shift.

Grid image tune

Select this function to adjust the local points of the projected imaget .

1) Press ▲▼◀▶ button to select [Grid image tune] option.

2) Press <OK> button.

Reset value

Select this function to make adjustment value back to the factory default .

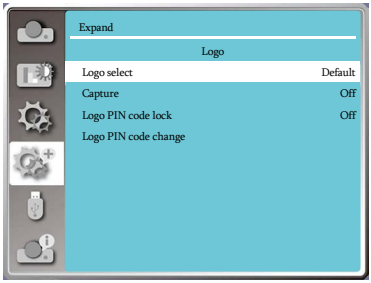
1) Press ▲▼◀▶ button to select [Reset value] option.

2) Press <OK> button.

- Release Keystone mode.

Logo

Logo menu



Logo (including Logo and Logo PIN Code lock setup)
You may use this function to select Logo screen, Logo PIN Code lock, change power on password, and set up default logo screen.

1) Press ▲▼ button to select [Logo] menu.
2) Press <OK> button.
3) Press ▲▼ button to select required items.

Logo Select
Select this to set up the logo screen when power on your projector:
Normal....Display factory default logo screen.
Off.....Display countdown logo screen.
User..... ..Display capture logo screen.

Capture
Enable us to capture images beeing projected and use it for a startup display or interval of presentattions.
Upon captureing the projected image, press the OK button, then a confirmation box appears, Select "Yes" to capture it .
After capturing the projected images, go to "Select a logo" , and set it to ”User”.Then, the captured image is displayed when the projector is turned on next time.

✓ **Note:**

- After changing the Logo PIN Code to a new number, please remember it and keep it safe The Logo PIN Code cannot be changed again if the new password is lost or forgotten.

Logo PIN code lock
This function helps preventing unauthorized personnel from changing the Logo screen.
Off.....The Logo screen may be changed with the Logo menu..
On.....You may not alter the logo screen without the Logo Passcode.

To change the Logo PIN code protection, press the the OK button, and the Logo PIN code change popup dialog box prompts. Follow stepsbelow to enter a logo screen password.

- Press arrow ◀▶button to select a number, then press the OK button to enter it and move the cursor. The number you typed is displayed as “ * ”. To edit number you have entered, press the MENU button to move the cursor to the number you want to change, press ▲▼ button to select the correct one.
- Repeat this step to type in a 3-digit number.Move the cursor to SET after you have typed the 3-dit number. Press OK button.
- If the password is invalid, the password displayed as “ *** ” will be in red. Please try again with a valid one.
- After you have entered valid logo screen Passcode, you may press◀▶button to toggle switch Off and On.

Logo PN code change
You may change the Logo Passcode to any 3-digit number you like. Press OK key to select Logo Passcode change. The Logo Passcode change dialog box prompts, press arrow ◀▶button to give a valid new code. The New Logo Passcode dialog box prompts. Set up a new Logo Passcode, check contentscontained in the dialog box, select Yes and the new password is set now.

Please remember your new password and keep it safe.

Security

Set a password to lock the control panel or remote control keypad to prevent unauthorized personnel from operating your projector. Once the projector is on, the [Enter Logo Password] screen will be displayed.

1) Press ▲▼ button to select [Security] menu.

2) Press <OK> button.

3) Press ▲▼ button to switch required item.

Security menu



Logo PIN Code lock

LOGO PIN Code lock

This function helps preventing unauthorized personnel from changing the Logo screen.

Off.....The Logo screen may be changed with the Logo menu.

On.....The [Logo Password] screen will appear when the projector is on.If you want to change the PIN Code Lock or password (for three digits), you must enter the password. The factory default password is "111."

Reset password

- You can change the Passcode. Click the [OK] button and select [Change Passcode]. When the [Passcode] dialog box is displayed, press the [◀▶] button to enter a valid Passcode, and select [Set] to display the [New Passcode] dialog box. Set a new Passcode, confirm the contents in the dialog box, and select Set to set a new Passcode.
- The number you typed is displayed as " * ". To edit number you have entered, press MENU button to move the cursor to the number you want to change, press ◀▶button to select the correct one.
- Repeat this step to type in a 3-digit number.
- Enter a three-digit number, move the cursor to "set" . Press the OK button, you can start to operate the projector.
- If the Passcode is invalid, the Passcode displayed as " *** " will be in red. Please try again with a valid one.
- Please remember your new password and keep it safe.

Logo PIN Code Change

You may change the Logo PIN Code to any 3-digit number you like.
Press OK key to select Logo PIN Code change.
The Logo PIN Code change dialog box prompts, press arrow ◀▶button to give a valid new code.
The New Logo PIN Code dialog box prompts. Set up a new Logo PIN Code, check contents contained in the dialog box, select Set and the new password is set now.

Please remember your new password and keep it safe. You cannot change the Logo PIN Code again if you forgot the password you have set.

To Cancel the Passcode

(1) While simultaneously pressing the [POWER] button and [OK] button on the main unit, plug the power cord into the main unit.After a while keep pressing the button, the pass code input screen appears. Enter "111".

(2) Select OSD menu security >> passcode >> "on". As the input screen appears again, enter the default value (111) and set the passcode to "off" or set a new pass code.

✓ **Note:**

- After changing the Logo PIN Code to a new number, please remember it and keep it safe. The Logo PIN Code cannot be changed again if the new password is lost or forgotten.

Power management

To reduce power consumption and maintain life cycle of light source, the power management function will turn off the projection light source if your projector has no signals for a period of time.

1) Press ▲▼ button to select [Power management] menu.
2) Press <OK > button.
3) Press ▲▼ button to switch required item.

Ready.....The POWER light indicator flashes green when the LIGHT is fully cooled down. The light source turns on again if an input signal is connected or any key (except the power button) on the side panel and remote control is pressed during this period of time.

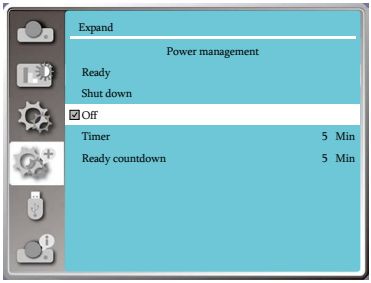
Power Off.....The projector shut down after the light source is fully cooled down.

Off.....Disable the power management function.

Timer.....Once the input signal is interrupted and no keys has been pressed for 30 seconds afterwards, the “No signal” message displays in the timer. The timer counts down until the light source turns off. Press arrow key to set up the timer in range of 1~30 minutes.

Ready Countdown...Set the interval from ready mode change to standby mode (0 to 30 minutes) automatically. When it is set it to zero, the projector will never change automatically. Press the Power key to change your projector into standby mode and any other key to power on.

Power management menu



Power management



Remaining time before poweroff the light source.

✓ **Note:**

- Factory default for standby time: 5 minutes. Count down for ready mode: 5 minutes.

Filter counter

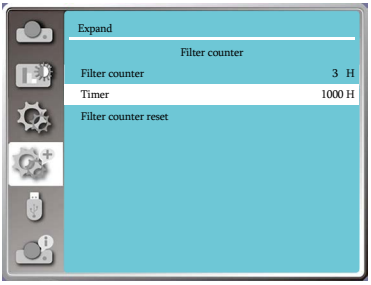
Set this function to reset the filter usage time and set up warning display.
1) Press ▲▼ button to select [Filter counter] menu.
2) Press <OK> button.
3) Press ▲▼ button to switch required item.

When the projector reaches the user-set cleaning time, filter warning icon will appear on the screen to notify the user needs to clean the projector filter. please make sure to select the initial state and set the timer after cleaning it. once resetting filter counter, filter warning icon will be closed.
Fliter.....Displays the filter usage time.

Timer.....Set the time to display a warning icon.

Filter counter reset .....Reset filter counter.

Filter counter menu



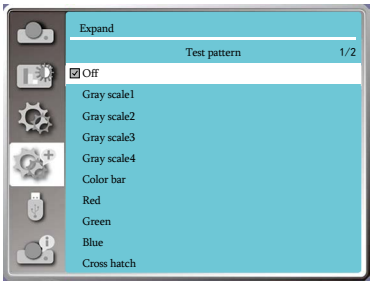


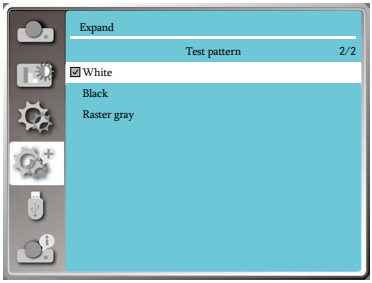
Test pattern

Select this function to display the projector's built-in test pattern.
Location, size, and other factors cannot be reflected in the test pattern. Please make sure to display the input signal before performing various adjustments.
1) Press ▲▼ button to select [Test pattern] menu.
2) Press <OK > button.
3) Press ▲▼ button to switch required item.
4) Press <OK> button.

Gray scale 1 / Gray scale 2 / Gray scale 3 / Gray scale 4 / Color bar / Red / Green / Blue / Cross hatch / White / Black / Raster gray: Use The OSD menu to display the test pattern. Choose the test mode can help you making a series of adjustments easily.

Test pattern menu





Network

Function: This function is designed to allow the computer control the projector remotely via intranet.

Preparation

1 Required equipment: Projector, computer, network cable
2 Connection:
Connect your projector to a router or switch in the LAN with normal or jumper network cable. In case a normal network cable failed to connect successfully, use a jumper cable instead.
3 Turn on the computer. The LAN port on computer and projector are flashing after power on the projector.

Operation steps

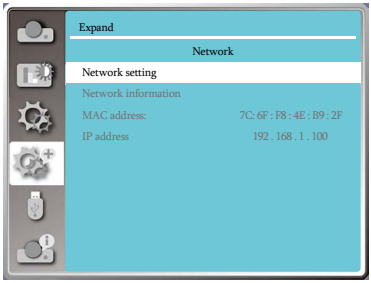
1 Power on your projector.
2 Acquire the IP address, with DHCP set to on and auto IP allocation set to On. (You may set DHCP to Off and set up IP address manually if you are somehow familiar with networking.)
3 Enter the network setup menu
(1) Press MENU button on remote control or top of the control panel, press ▲▼ button to select network icon.

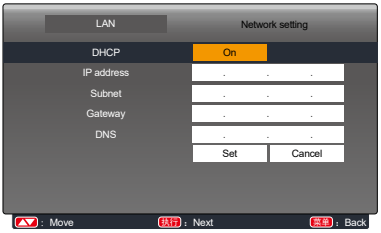
(2) Press ▲▼ button select network settings and press OK button to enter.
MAC address.....Display the MAC address of wired network.
IP address.....Display the IP address of wired network.

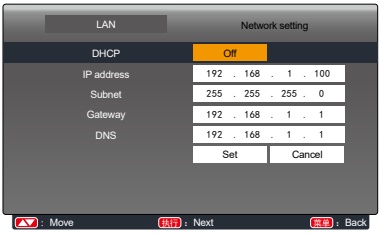
(3) Press ▲▼ button to set DHCP On to obtain an IP address, subnet , gateway and DNS automatically , and press OK button to confirm.

Press ▲▼ button to set DHCP Off,then press OK button to enter an IP address, then press ▼button to select subnet , gateway and DNS automatically.And press OK button to confirm.

Network menu



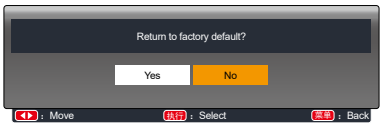




Factory default

This function resets all your settings to factory default .

1) Press ▲▼ button to select [Factory default] menu.
2) Press <OK or ▶ > button.
3) Press ◀▶button to select YES ,then press <OK> button.



Memory Viewer

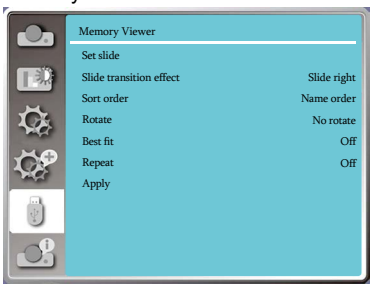
Select Memory Viewer function can project images stored in USB memory, when you insert the USB memory into the projector.
Press < MENU > button on the remote control to display the OSD menu.Press ▲▼button to select the Memory Viewer menu ,then press <OK> or ▶button.

1) Press ▲▼ button to select reqiured item.
2) Press <OK> button.
3) Press ▲▼ button to set options.
4) Press <OK> button.

Set slide

Select this function to play slides.
1) Press◀▶ button to select a file.
2) Press ▲▼ button to select [Set slide] menu.
3) Press <OK or ▶ > button.
   - Full screen display
   - Press <OK> to return the thumbnail.

Memory Viewer menu



Slide transition effect

Select this function to set the slide's playback ,when switching slides.

1) Press ▲▼ button to select [Slide Transition effect] menu.
2) Press <OK or ▶ > button.
3) Press ▲▼ button to switch required item.
   Slide down.....Switch slides from the upper to the lower .
   Slide right.....Switch slides from left to the right.

Note:

- When selecting [Memory Viewer] as input signal, the "Memory Viewer" menu is available.
- In addition to "Set slide" menu, even change the settings, If you do not implement the [Apply], the setting value of the change is invalid.

Sort order

Select this function to set the slide's order.

1) Press ▲▼ button to select [Sort order] menu.
2) Press < OK > button.
3) Press ▲▼ button to switch required item.
Expand order.....Sort by expand names of file or folder.
Size order.....Sort by size of file or folder.
Time order.....Sort by the time of file or folder.
Name order..... Sort by names of file or folder.

Rotate

Set the rotation direction of images.

1) Press ▲▼ button to select [Rotate] menu.

2) Press < OK > button.

3) Press ▲▼ button to switch required item.

No rotate .....Rotation is invalid.

270 degree rotate.....Rotate counterclockwise by 270 degrees.

180 degree rotate.....Rotate clockwise by 180 degrees.

90 degree rotate ..... Rotate clockwise by 90 degrees.

Best fit

Set the image to be compatible with projection screen.

1) Press ▲▼ button to select [Best fit] menu.

2) Press < OK > button.

3) Press ▲▼ button to switch required item.

On.....Display images by the aspect ratio of the screen.

Off.....Display image by the normal pixels.

Repeat

Select this function to play slides repeatedly.

1) Press ▲▼ button to select [Repeat] menu.

2) Press <OK or ▶ > button.

3) Press ▲▼ button to switch required item.

On.....Replay the first document,after playing the last one.

Off.....Return to the thumbnail display screen,after playing the last one.

Apply

Only be used in playing slides.

1) Press ▲▼ button to select [Apply] menu.

2) Press <OK or ▶ > button.

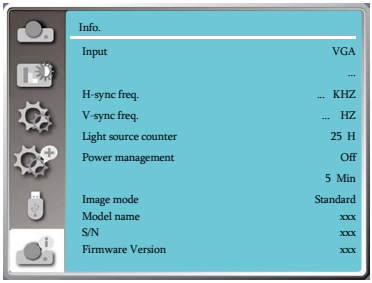
Info.

Select Info. function to detect the projected image signal and the projector operating status.

Menu operation

Press <Info. > button on the remote control or Press < ⏻ >button on the top control panel to display the OSD menu. Press ▲▼button to select the Info. menu, then press <OK> or ▶button.

Info. menu



Network control operation

Function: This function is designed to remote control computer in the same LAN.

Preparation

1 Required equipment: Projector, computer, network cable

2 Connection:
Connect your projector to a router or switch in the LAN with normal or jumper network cable. In case a normal network cable failed to connect successfully, use a jumper cable instead.

3 Turn on the computer. The LAN port on computer and projector are flashing after power on the projector.

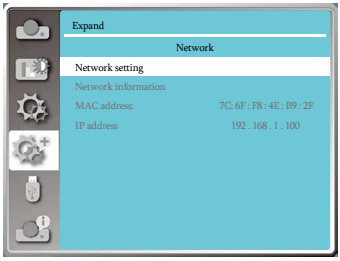
Operation steps

1 Power on your projector.

2 Acquire the IP address, with DHCP set to on and auto IP allocation set to On. (You may set DHCP to Off and set up IP address manually if you are somehow familiar with networking.)

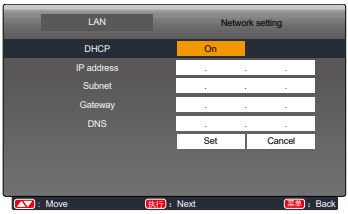
3 Enter the network setup menu

(1) Press MENU button on remote control or top of the control panel, press ▲▼ button to select network icon.



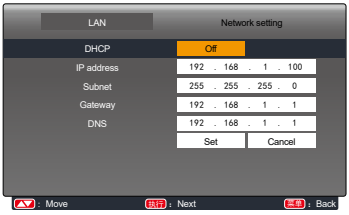
(2) Press ENTER button or ▶ button and the network menu displays.

(3) Press ▲▼ button select network settings and press ENTER to confirm.



(4) Press ▲▼ button to set DHCP On and press OK button to confirm.

(5) Press ▲▼ button to select Set, press OK button to wait until the “Please wait..” message disappears.

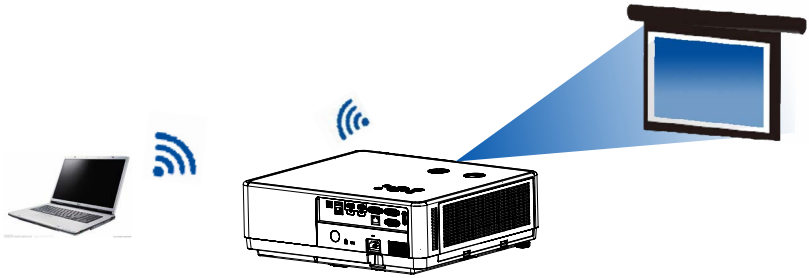


✓ Note:

- If you are using the wireless network connection, please check the SSID / ESSID and wireless IP address in the Network Setting status , and write down the information.

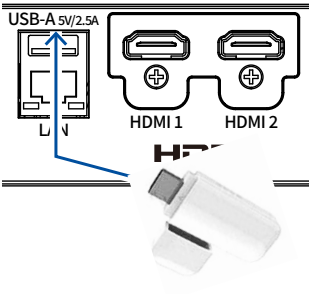
wi-fi display（For PC.）

Wi-Fi display enable to connect PC with the projector wirelessly to realize high-speed transmission between devices, allowing users to enjoy high-definition video display without the need for cables circumstances.



Wireless network setup

1. Inset the supplied WIFI dongle into the USB-A port.
   - For this fuction,users need to purchase the WIFI dongle seperately with your suppliers.



2. Please find "NetworkDisplay" in the Open Network and Sharing Center and click "Connect" to connect the WIFI.



enter through a Web browser

1) Start the computer's Web browser.
2) Enter the IP address on the projector set in the URL input field of the Web browser.
3) Enter the password in the [Password], then click [Login].
"* "the factory default setting is the user name: "admin" (administrator privileges), password: "admin".



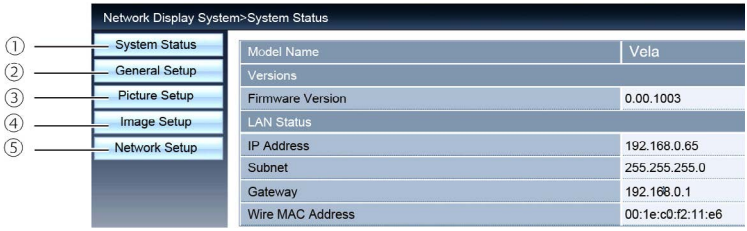
4) Click the [Login]

NOTE:
Users can click on the top right corner of the Web browser screen to select the display language.

Do not start multiple Web browser settings or control. Do not use more than one computer set or control the projector.

Please change your password.

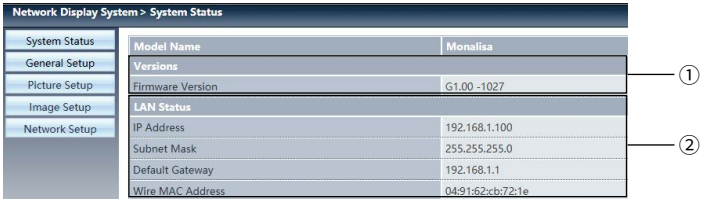
If the network does not appear on screen controls, please consult your network administrator.
Description of each option



① System Status: Click this option to display the [System status] page.
② General Setup: Click this option to display the [General Setup] page.
③ Picture Setup: Click this option to display the [Picture Setup] page.
④ Image Setup: Click this option to display the [Image Setup] page.
⑤ Network Setup: Click this option to display [Network Setup] page.

Network control

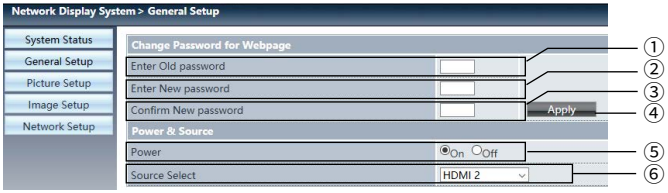
[System status] page



① Versions: Displays the firmware version of the projector.

② LAN Status: Displays the LAN. connection status .

[general setup] page



① Enter old password: Enter the password for the configuration.

② Enter new password: Enter a new password.

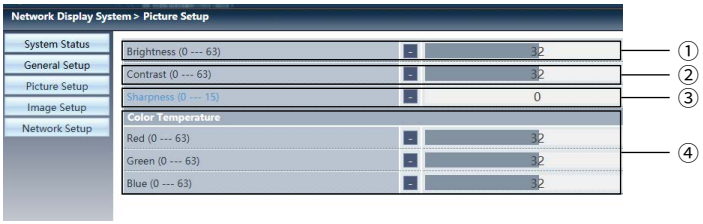
③ Confirm new password: Re-enter the new password to confirm.

④ Power & Source: Update settings.

⑤ Power: Switch on the power of the projector on / off.

⑥ Source select: Switch the input source of the projector.

[picture setup] page



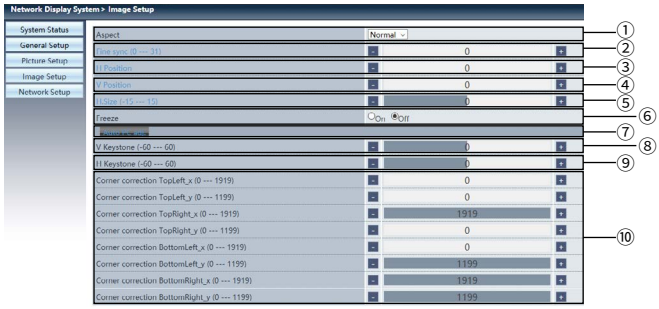
① Brightness: Adjust the brightness of the projected image.

② Contrast: Adjust the contrast of the projected image.

③ Sharpness: Adjust the sharpness of the projected image.

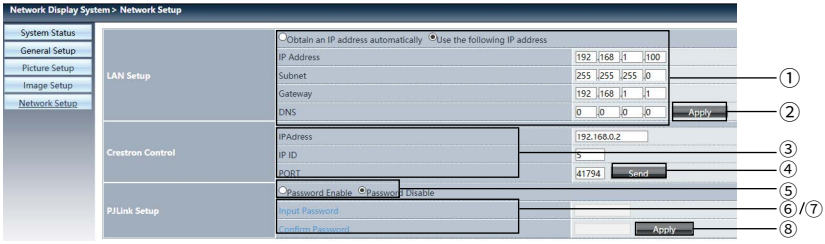
④ Color Temperature: Adjust the color temperature of the projected image.

[Image Setup] page



① Aspect: Switch the aspect ratio of the projected image.
② Fine sync: Adjust the fine sync of the projected image.
③ H position: Adjust the horizontal position of the projected image.
④ V position: Adjust the vertical position of the projected image.
⑤ H size: Adjust the horizontal size of the projected image.
⑥ Freeze: Switch the screen freeze function on and off.
⑦ Auto PC adj.: Implement the automatic PC adjustment function.
⑧ V Keystone: Correct trapezoidal distortion of the projected image in vertical direction.
⑨ H Keystone: Correc trapezoidal distortion of the projected image in horizontal direction.
⑩ Corner correction:Correct the four corners of the projected image.

[network setup] page



① Network Setup

If you want to enable the DHCP client, select the IP address automatically.
IP address: Please enter the IP address when you do not use the DHCP server.
Subnet : Please enter a subnet shield,when you do not use the DHCP server .
Gateway: Please enter the gateway, when you do not use the DHCP server.
DNS: Please enter the DNS address, when you do not use the DHCP server.
Available characters : digital (0 - 9), a period (.) (For example: 192.168.0.253)
Details for each setting, please contact your network administrator.

② Apply: Update settings.

③ Crestron control

IP address:Set IP address.

IP ID: Set IP ID.

PORT: Set the port number

④ Send: Update crestron setup.

⑤ If useers want to ennable PJLink settings, please set Password Enable option on and input the password.

⑥ Input password:Input the PJLink password.

⑦ Confirm password:Input the PJLink password once again and confirm.

⑧ Apply

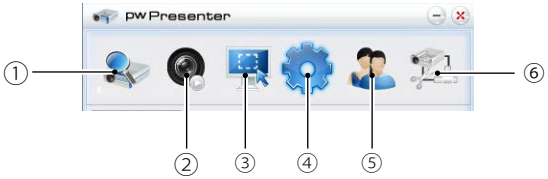
Update PJLink password.

5) pwPresenter Software: when the input signal source is chosen as the network, the network will be used to project computer image.

After entering the IP address of the projector in the web page to the main interface, click "Download", and download the corresponding PwPresebter software with your projector.



6 Click  the icon to enter into pwPresenter software.



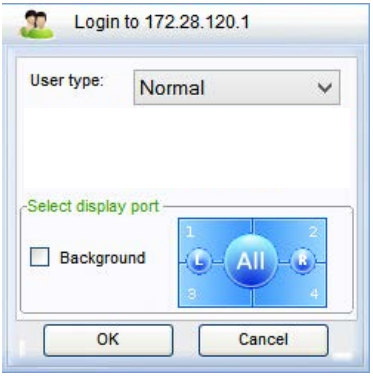
① Search network projector

Click to enter to search, select the needed projector and connect it . Set the same IP address (for example: 192.168.1.100) as the projector in pwPresenter software ,and set user type as "average user", and the password is "admin".

✓**NOTE**

· Before using the pwPresenter search, please switch to network signal source.



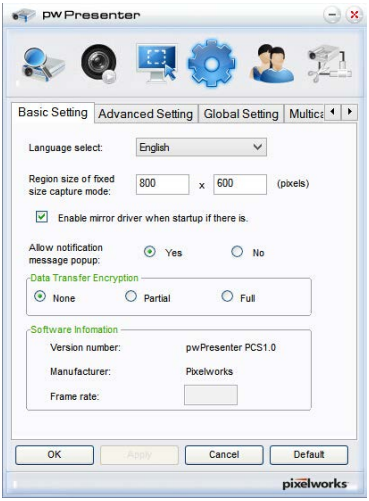


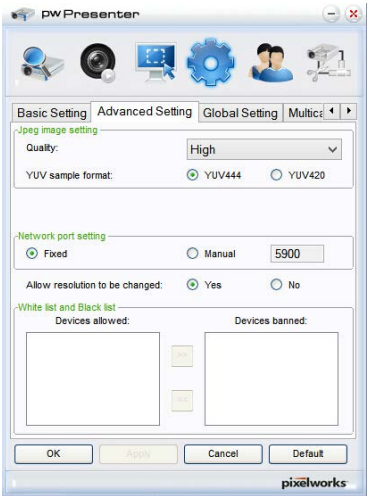
② Screenshot start or pause
Start or pause the selected pictures.

③ Select screenshot mode .
Select screenshot mode from the "full range", "fixed size" or "variable size" and

④ Parameter Setting
Basic setting: Language, Capture region size etc.

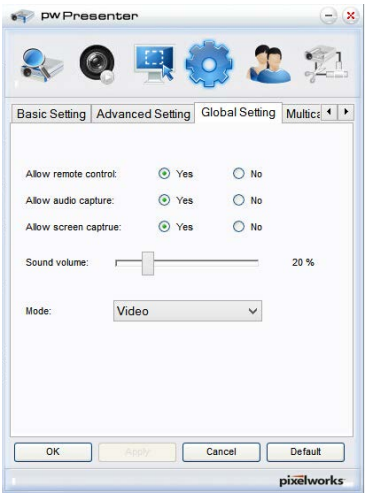
Advanced setting: JPEG image setting, Network port setting, White list and Black list etc.



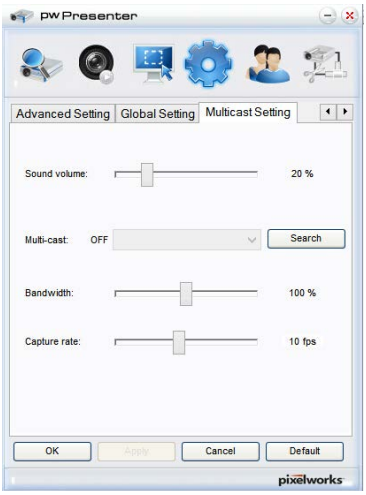


Network control

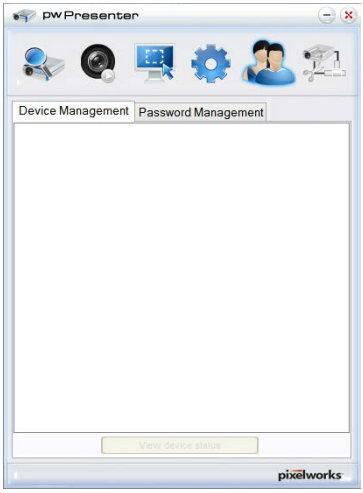
Global setting: Remote control setting, Sound capture and Screen capture, etc.



Multicast setting: Volume setting, Bandwidth, Sampling frequency, etc.



⑤ Network Projector Management
Set pwPresenter network user name and password etc.





⑥ Cut off projector connection.

Memory Viewer function

When the USB memory inset into the projector, the viewer memory function can projecte the video and pictures stored in the USB memory.

■ The projected content of Memory Viewer function

Memory Viewer function supports the following picture files.

	Extension name	Video Codec	Audio Codec	Video Format
Video	avi	MotionJPEG	ADPCM	Maximum 1280x720,30fps

	Extension name	Format	Description
Maps	jpg/jpeg	Baseline encoder 24 Progressive RGB24 bit	Max resolution: 10000x10000 Max resolution: Panel Resolution
	bmp	1.4.8 bit palette-based RGB24,32 bit	Max resolution: 1280x800
	png	24, 48-bit True Color	-24-Bit color palette space Max resolution: 1024x768
	gif	1,4,8-bit palette-based	Max resolution: 800x600
	tiff		Max resolution: 800x600

Display Memory Viewer screen

When the USB memory inset into the projector, the Memory Viewer function can projecte the video and pictures stored in the USB memory.

1) Press INPUT button on the control panel or "⏻"button on the top control panel and select the input source of [Memory Viewer].
2) Insert the USB memory into the <USB-A > terminal directly.
   - Press RC enter to display standby screen instanly , while the USB memory icon display in the left corner of the screen.
   - When the USB memory is independent of the partition, it will display more than one USB icon.
3) Press ▲▼ button to switch required items.
   - The root directory of the USB memory is displayed in a thumbnail.

Play image

Only one image show on the screen when you play it.

1) Press◀▶ button to select a file.
2) Press <OK or ▶ > button.
   - Full screen display
3) Press <OK > button.
   - Press <OK> to return the thumbnail.

Useful function

Play slide

The Slide Show Mode in the Memory Viewer menu is set to "Slide down" or "Slide right" ,all images in the same folder can play automatically.

1) Press◀▶ button to select a file.

2) Press ▲▼ button to select [Memory Viewer] menu,then select [From Scratch] menu.

3) Press <OK > button.

- Full screen display
- Press <OK> button to return the thumbnail.

Play video

Play video files.

1) Press◀▶ button to select a file.

2) Press <OK> button.

- Full screen display
- Use the remote control to operate the control that appears at the bottom of the screen.



	Stop playing the video and return to the thumbnail
/	Play / pause the video
	Video fast backward / forward
	Video fast backward / forward at the twice speed
/	Each time press the icon , the box switches . When the box appears, the video can playback.

The termination of Memory Viewer

The Slide Show Mode in the Memory Viewer menu is set to a special setting ,all images in the same folder can play automatically.

1) Press◀▶ button to select , displayed in the left corner of the screen.

2) Press <OK > button.

- Please Press RC ENTER to display standby screen instanly.

3) Unplug the USB memory directly.

Caution

- When you insert a USB memory, please make sure insertion direction to avoid damaging the port i.
- Please note the following points when inserting and removing USB memory:
  a. The indicator flashes,when the USB memory insert into the projector or the projector is reading data.DO NOT remove the USB memory When the light is flashing.
  b. Do not install and remove USB memory frequently. Then remove it after the installation of at least 5 seconds. After removing at least five seconds and then reinstall it. The projector is on switch mode during the operation,when installing or removing the USB memory.

Precautions on processing and storage of USB memory

- Please DO NOT place the USB memory or the lid where children can reach. Swallow USB memory or the lid may cause choking.
- If smoke or produce abnormal smell, close the external device and contact the dealer.
- DO NOT let the water, chemicals or oil into the USB memory, or it may cause a short circuit or fire.
- DO NOT put foreign matter or metal items in the USB port. Static electricity may cause data loss or data damage.
- When USB memory is read or written, DO NOT remove USB memory from the computer or projector , otherwise it may result in data loss or corruption of data.
- Please do not put the USB memory in high temperature, damp or dusty place, or next to magnetic materials.

USB display function

Select this function to can project the image and audio from the computer through the USB converter cable.

When using Windows:

■ Windows operating environment

Operating System	Vista Windows 32, 32/64 Windows7, Windows 8 32/64
CPU	Intel Core 2 Duo 2.0 GHZ or faster compatible processors
Memory Capacity	256MB or above (512MB or above)
Disk Space Available	20MB or above
Monitor	Resolution 640x480 or above, 1600x1200 or above

CAN NOT guarantee that the PC meeting the above conditions can operate normally .

Project USB display

1) Using USB-B cable to connect the projector to the USB-B terminals.
   ● Items in grey are not available.
2) Press the information source menu on the remote controlor the INPUT button on the control panel, then select [USB display] in the input source menu.
3) Press the driver icon in the computer drive in the computer's task bar  ,the select one item in the pop-up menu bar.
   ● Pop-up menu only display in English.

[Active audio] /[Disable audio]	Sets up the output from the computer's audio.
[Play video] / [Pause video]	Switch on playing and pausing images.
[Start / Stop]	Sets up the output from the computer's image.
[Exit]	Gray means not optional

NOTE

- Resolution of the computer screen will be switched.
- If the drive is not installed on the computer, the driver will be removed when the USB cable is disconnected .
- You need wait for a moment,if you want project computer screen.
- Connect the USB cable directly to the computer's USB connector. When connecting the USB hub, it may be abnormal.

The termination of USB display

1) Remove the USB cable directly,when terminate USB monitor.
   ● You never need follow "Remove Hardware Safely, when USB cable is not connected.

When using Mac OS

■ Mac OS operating environment

Operating System	Mac os x 10.5,10.6,10.7
CPU	Power PC G4 1GHz or faster compatible processors
Memory Capacity	512MB or above
Disk Space Available	20MB or above
Monitor	Resolution 640x480 or above, 1600x1200 or above

CAN NOT guarantee that the PC meeting the above conditions can operate normally .

Project USB display

1) Using USB-B cable to connect the projector to the USB display terminals.
   - Items in grey are not available.
2) Press the information source menu on the remote controlor the INPUT button on the control panel, then select [USB Monitor] in the input source menu.
3) Double-click "Monitor.app" button installed on the virtual disk.
   - Projecte image on the computer screen.
4) Press the driver icon in the computer drive in the computer's task bar  , the select one item in the pop-up menu bar.
   - Pop-up menu only display in Chinese.

[Active audio] /[Disable audio]	Sets up the output from the computer's audio.
[Play video] / [Pause video]	Switch on playing and pausing images.
[Start / Stop]	Sets up the output from the computer's image.
[Exit]	Terminate USB Monitor

NOTE

- Resolution of the computer screen will be switched.
- You need wait for a moment,if you want project computer screen.
- Connect the USB cable directly to the computer's USB connector. When connecting the USB hub, it may be abnormal.

The termination of USB display

1) Remove the USB cable directly,when terminate USB display.

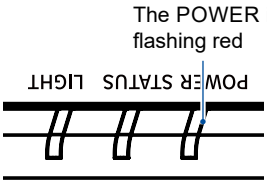
Status light indicator

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

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

The projector turns off and the power light indicator flashes red.

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



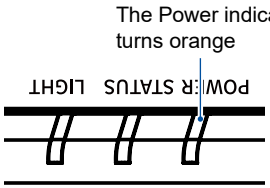
✓ **Note:**
The POWER indicator stops flashing when your projector's internal temperature cooled down to normal and it is powered on again.

Check the following:

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

Your projector powers off and the Power light indicator turns orange.

The POWER indicator turns orange and your projector powers off to protect its internal components whenever an abnormality is detected. Unplug the AC power cord and connect again. Restart your projector and run checkup routine. If the problem persists, unplug the AC power cord and call your service center for checkup and maintenance.



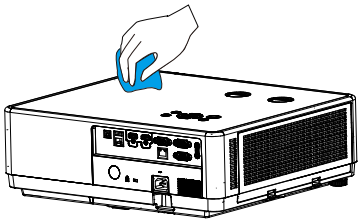
Clean the projector when contaminated by foreign matter or its display effects are getting worse.

Note:
Unplug the AC power cord before any cleaning operation.

Clean casing 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.

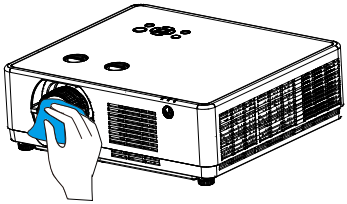
Place your projector in proper container after use to protect it from dirt and dust and being scratched.



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.

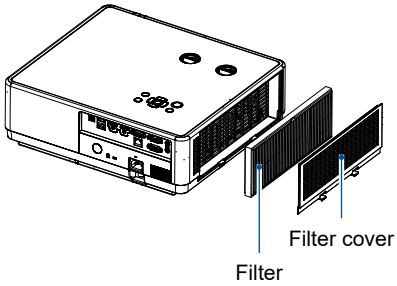
Do not over apply cleaner to the lens. Abrasive cleaner, solution, or other rough chemical may scratch the lens.



Clear the filter

The filter is designed to keep dust from entering in your projector, which may lead to dusts accumulated on surface of internal components. Clogged filter may reduce cooling fan effects, which, in turn, will overheat your projector and shorten its life cycle. Clean the filter immediately whenever the Filter Warning icon displays.
Please follow these steps to clean your filter:

1 Power off your projector and unplug from AC power source.
2 Remove the filter.
3 Gently clean it with a brush.
4 Replace the filter. Make sure it has been fully inserted.



Note:
Do not operate your projector after its filter is removed. Dust may attach to the lens assembly and deteriorate image quality.
Do not insert any small object in the air outlet. It may fail your projector.

Troubleshooting

Check the following before calling your dealer or service center:

Troubleshooting	Solution
Power on failure	– Plug the power cord of your projector in an AC socket. – Make sure the POWER light indicator turns red. – Restart your projector until the POWER light indicator turns red. It indicates your projector is ready for power on again. – Disable the Key Lock function of your projector.
Logo screen display failure	– Make sure the Off and Countdown Off is selected in the Display function.
The Logo screen differs from the standard settings.	– Make sure you did not select User or Off in the Logo Screen.
Input signal switch (or do not switch) automatically.	– Make sure you have correctly set up the Input Search function.
Image looks fuzzy	– Adjust focus of your projector. – Provide proper projection distance. – The projection lens requires cleaning. – Moving your projector from a colder environment to a hotter one may result in condensing on the lens. If this is the case, wait until the condensing water evaporated before powering on your projector.
Image mirror reflected Image turns upside down	– Check the Ceiling and Rear settings. – Check the Ceiling settings.
Image looks dim	– Check 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. – Make sure Blackboard mode is not selected in Image Select.

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.
Settings do not save after power off	– Make sure you have selected Store after settings adjustment. Certain settings do not keep without selecting Store.
Power management failure	– In case of Freeze or Blank operation, the power management function does not work.
Auto Setting does not work	– Make sure it is not set to "Off" in each setup menu. – Make sure "On" is not set in Ceiling function.
Image distorted or disappeared	– Check and revise the PC Adj. menu or Screen menu.
A password prompt displays after power on	– You have set up the Logo PIN Code lock function
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. – Make sure the remote control and your projector are paired with the same remote control codes. – 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.
Control panel does not function	– Disable the key lock on control panel function in the Safety option of the Setup menu.
Cannot remove the Logo Select password, Key Lock, and PIN Code lock	– Please call your dealer or service center.

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

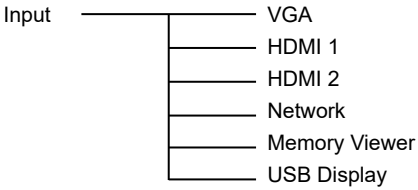
Note:
Your projector employs high voltage power for operation. Do not open its casing. If the problem persists, call your dealer or service center. Along with model number of your projector and a description to your problem. You will be advised on getting our services.

Menu tree

Main menu	Sub-menu	Setting	Remarks
Display	Auto PC adj.		
	Fine sync	0-31	
	H Position	-5 - +5	
	V Position	-5 - +5	
	H Size	-15 - +15	**The range of H Size differs from signals.**
	Aspect	Normal* 4:3(Only WUXGA) FULL 16:10(Only XGA) WIDE	
	Project way	Front Rear Ceiling / Front Ceiling / Rear Auto ceiling / Front Auto ceiling / Rear	
	Menu position	Upper Left, Upper Righ Center Lower Left, Lower Right	
	Background display	Black Blue	
	System	---	
Color adj.	Image mode	Standard Dynamic Cinema Colorboard DICOM SIM Blackboard(green) User image	
	Contrast	0-63	**Computer/HDMI Input**
	Brightness	0-63	
	Color temp	High/Mid/Low/User	
	Red	0-63	
	Green	0-63	
	Blue	0-63	
	Sharpness	0-15	

Main menu	Sub-menu	Setting		Remarks
Setting	On start	On/Off		
	Standby Mode	Normal/ECO mode/Network		
	High land	On/Off		
	Cooling fast	Normal/30s /0s		
	Key lock	Off/Projector/Remote control		
	Laser control	Normal/Full normal/ECO1/ECO2		
	Contrast optimization	On/Off		
	Sound	Volume	0-25	
		Mute	On/Off	
	HDMI Setup	Image	64-940	
			AUTO	
			0-1023	
		Volume	HDMI	
			PC	
Expand	Language	Projector provides multiple language support		
	Auto Setup	Input Search	On/Off	
		Auto PC Adj.	On/Off	
		Auto keystone	Auto*/Manual/Off	
	Keystone	Keystone	Store / Reset	
		H/V Keystone		
		4-Corner correction		
		6-Corner correction		
		Curved correction		
		Grid image tune		
		Reset value		
	Security	PIN code lock	On/Off	
		PIN code change		
	Logo	Logo select	Default/User/Off	
		Capture		
		Logo PIN Code Lock	On/Off	
		Logo PIN Code Change		
	Power management	Ready		
		power Off		
		Off		
		Timer	1~30min	
		Ready Countdown	0~30min	

Main menu	Sub-menu	Setting		Remarks
	Filter counter	Filter counter		
		Timer	Off /500H/1000H*/ 2000H/	
		Filter counter reset		
	Text pattern	Off，Gray scale（1-4），Color bar， Red，Green，Blue，Cross hatch， White，Black，Raster gray		
	Network	Network setting	DHCP(On/Off) IP address Subnet Gateway DNS	
		Network status	MAC address IPaddress	
	Factory default			
Memory Viewer	Set slide			
	Slide transition effect	Slide down Slide right		
	Sort order	Expand name orde Magnitude order Time orde Name order		
	Sort order	No rotate 270° rotate 180° rotate 90°rotate		
	Best fit	On/Off		
	Repeat	On/Off		
	Apply			
Info.	Input			
	H- sync. Freq.			
	V- sync. Freq.			
	Light source counter			
	Power management			
	Image mode			
	Model name			
	S/N			
	Firmware Version			


Input
VGA
HDMI 1
HDMI 2
Network
Memory Viewer
USB Display

Light indicator status

Check light indicator to learn status of your projector.

POWER	STATUS	LIGHT	Projector status
 Off	 Off	 Off	Power is off
 Orange (Blink*2)	 Off	 Off	Standy(Sleep)
 Orange	 Off	 Off	Standy(Network)
 Orange (Blink*1)	 Off	 Off	Standy(Normal)
 Blue	 Off	 Green (Blink*3)	LIGHT ON(LIGHT ECO)
 Blue	 Off	 Green	LIGHT ON(LIGHT Normal)
 Green (Blink*4)	 Off	 Off	Cooling
 Green	 Off	 Off	Power Save Standy

*1 Repetition to light on for 1.5 seconds / off for 1.5 seconds

*2 Repetition to light on for 1.5 seconds / off for 7.5 seconds

*3 Repetition to light on for 2.5 seconds / off for 0.5 seconds

*4 Repetition to light on for 0.5 seconds / off for 0.5 seconds

Indicator Message (Error message)

POWER	STATUS	LIGHT	Projector status	Procedure
 Off	 Orange	 Off	A button has been pressed while the KEY LOCK is activated.	The projector's keys are locked. The setting must be canceled to operate the projector.
 Red (Blink*4)	 Green	 Red	When LD-driver current value is too low	Please contact your dealer or service personnel.
 Red (Blink*4)	 Green (Blink*4)	 Red	When LD-driver SPI commumication error	Please contact your dealer or service personnel.
 Red (Blink*4)	 Green	 Red (Blink*4)	When LD-driver 55V error	Please contact your dealer or service personnel.
 Red (Blink*4)	 Green (Blink*1)	 Red	When LD-driver 13V error	Please contact your dealer or service personnel.
 Red (Blink*4)	 Green	 Red (Blink*1)	When the output current of the LD driver is abnormal	Please contact your dealer or service personnel.
 Red (Blink*4)	 Green (Blink*3)	 Red	LD drive setting status is abnormal	Please contact your dealer or service personnel.
 Red (Blink*4)	 Green	 Red (Blink*3)	LD drive other errors	Please contact your dealer or service personnel.

Appendix

POWER	STATUS	LIGHT	Projector status	Procedure
 Red (Blink*4)	 Off	 Off	When Temperature status is error	Ambient temperature is out of the operation temperature. Check if any obstruction stays near the exhaust vent.
 Red	 Orange	 Off	When FAN-1status is error	Please contact your dealer or service personnel.
 Red	 Orange (Blink*4)	 Off	When FAN-2status is error	Please contact your dealer or service personnel.
 Red	 Off	 Orange (Blink*4)	When FAN-3status is error	Please contact your dealer or service personnel.
 Red	 Orange (Blink*1)	 Off	When FAN-4status is error	Please contact your dealer or service personnel.
 Red	 Off	 Orange (Blink*1)	When FAN-5status is error	Please contact your dealer or service personnel.
 Red	 Orange (Blink*3)	 Off	When FAN-6status is error	Please contact your dealer or service personnel.
 Red	 Red (Blink*4)	 Off	When power status is error	Please contact your dealer or service personnel.
 Red (Blink*4)	 Red (Blink*4)	 Off	When Color wheel status is error	Please contact your dealer or service personnel.
 Red	 Red (Blink*3)	 Off	Filter over time Waring	Please contact your dealer or service personnel.

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.

No	OSD Display	Source		Specification			
		RGB	HDMI	Resolution	Pixel clock (MHz)	H-freq(KHz	V-freq(Hz)
1	720x480i 60Hz	○	—	720x480i	15.734	59.940	13.500
2	720x480i 60Hz	—	○	720(1440)x480i	15.734	59.940	27.000
3	720x576i 50Hz	○	—	720x576i	15.625	50.000	13.500
4	720x576i 50Hz	—	○	720(1440)x576i	15.625	50.000	27.000
5	720x483 60Hz	○	○	720x483(480P)	31.469	59.940	27.000
6	720x576 50Hz	○	○	720x576(576P)	31.250	50.000	27.000
7	1280x720p 60Hz	○	○	1280x720p	45.000	60.000	74.250
		○	○		44.955	59.940	74.176
8	1280x720p 50Hz	○	○		37.500	50.000	74.250
9	1920x1080i 60Hz	○	○	1920x1080i	33.750	60.000	74.250
		○	○		33.716	59.940	74.176
10	1920x1080i 50Hz	○	○		28.125	50.000	74.250
11	1920x1080p 24Hz	○	○	1920x1080p	27.000	24.000	74.250
		○	○		26.970	23.980	74.176
12	1920x1080p 60Hz	○	○		67.500	60.000	148.500
		○	○		67.433	59.940	148.352
13	1920x1080p 50Hz	○	○		56.250	50.000	148.500
14	640x480,60Hz	○	○	640x480	31.469	59.940	25.175
15	640x480,67Hz	○	○		35.000	66.667	30.240
16	640x480,72Hz	○	○		37.861	72.809	31.500
17	640x480,75Hz	○	○		37.500	75.000	31.500
18	640x480,85Hz	○	○		43.269	85.008	36.000
19	800x600,56Hz	○	○	800x600	35.156	56.250	36.000
20	800x600,60Hz	○	○		37.879	60.317	40.000
21	800x600,72Hz	○	○		48.077	72.188	50.000
22	800x600,75Hz	○	○		46.875	75.000	49.500
23	800x600,85Hz	○	○		53.674	85.061	56.250
24	832x624,75Hz	○	○	832x624	49.725	74.550	57.283
25	1024x768,60Hz	○	○	1024x768	48.363	60.004	65.000
26	1024x768,70Hz	○	○		56.476	70.069	75.000
27	1024x768,75Hz	○	○		60.023	75.029	78.750
28	1024x768,85Hz	○	○		68.678	84.997	94.500
29	1152x864,70Hz	○	○	1152x864	63.995	70.020	94.200
30	1152x864,75Hz	○	○		67.500	75.000	108.000
31	1280x720,60Hz	○	○	1280x720	44.772	59.855	74.500
32	1280x768,60Hz	○	○	1280x768	47.776	59.870	79.500
33	1280x768,75Hz	○	○		60.289	74.893	102.250
34	1280x768,85Hz	○	○		68.630	84.840	117.500
35	1280x800,60Hz	○	○	1280x800	49.702	59.810	83.500
36	1280x800,75Hz	○	○		62.795	74.934	106.500
37	1280x800,85Hz	○	○		71.554	84.880	122.500
38	1280x960,60Hz	○	○	1280x960	60.000	60.000	108.000
39	1280x1024,60Hz	○	○	1280x1024	63.981	60.020	108.000
40	1280x1024,72Hz	○	○		78.16	71.97	135.060
41	1280x1024,75Hz	○	○		79.976	75.025	135.000
42	1280x1024,85Hz	○	○		91.146	85.024	157.500
43	1366x768,60Hz	○	○	1366x768	47.720	59.799	84.750
44	1400x1050,60Hz	○	○	1400x1050	65.317	59.978	121.750
45	1400x1050,75Hz	○	○		82.278	74.867	156.000
46	1440x900,60Hz	○	○	1440x900	55.935	59.887	106.500
47	1600x900,60Hz	○	○	1600x900	55.920	60.000	118.998
48	1600x1200,60Hz	○	○	1600x1200	75.000	60.000	162.000

Appendix

No	OSD Display	Source		Specification			
		RGB	HDMI	Resolution	Pixel clock (MHz)	H-freq(KHz))	V-freq(Hz)
49	1680x1050,60Hz	○	○	1680x1050	65.290	59.954	146.250
50	1920x1080,60Hz	○	○	1920x1080	66.587	59.934	138.500
51	1920x1200,60Hz	○	○	1920x1200	74.038	59.950	154.000
52	3840x2160, 30Hz	—	○	3840x2160	67.500	30.000	297.000

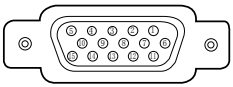
✓ **Note:**

"○" Shows input signal source support this format.

"—" Shows input signal source DO NOT support.

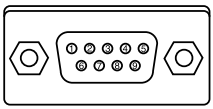
Terminal configuration

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	Vertial synchronizing input/output
7	Grounding(green)	15	DDC Clock
8	Grounding(blue)		

SERIAL Terminal (D-SUB-9)



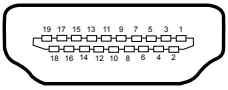
1	-----	6	-----
2	RXD	7	-----
3	TXD	8	-----
4	-----	9	-----
5	GND		

LAN Terminal



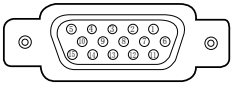
1	TX +	5	-----
2	TX -	6	RX -
3	RX +	7	-----
4	-----	8	-----

HDMI Terminal (HDMI Type A 19)

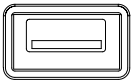


1	TMDS Data2+	11	TMDS Clock Shield
2	TMDS Date2 Shield	12	TMDS Clock-
3	TMDS Date2-	13	CEC
4	TMDS Date1+	14	Reserved(N.C. on device)
5	TMDS Datel Shield	15	SCL
6	TMDS Datel-	16	SDA
7	TMDS Date0+	17	DDC/CEC Ground
8	TMDS Date0 Shield	18	+5V Power
9	TMDS Date0-	19	Hot Plug Detect
10	TMDS Clock+		

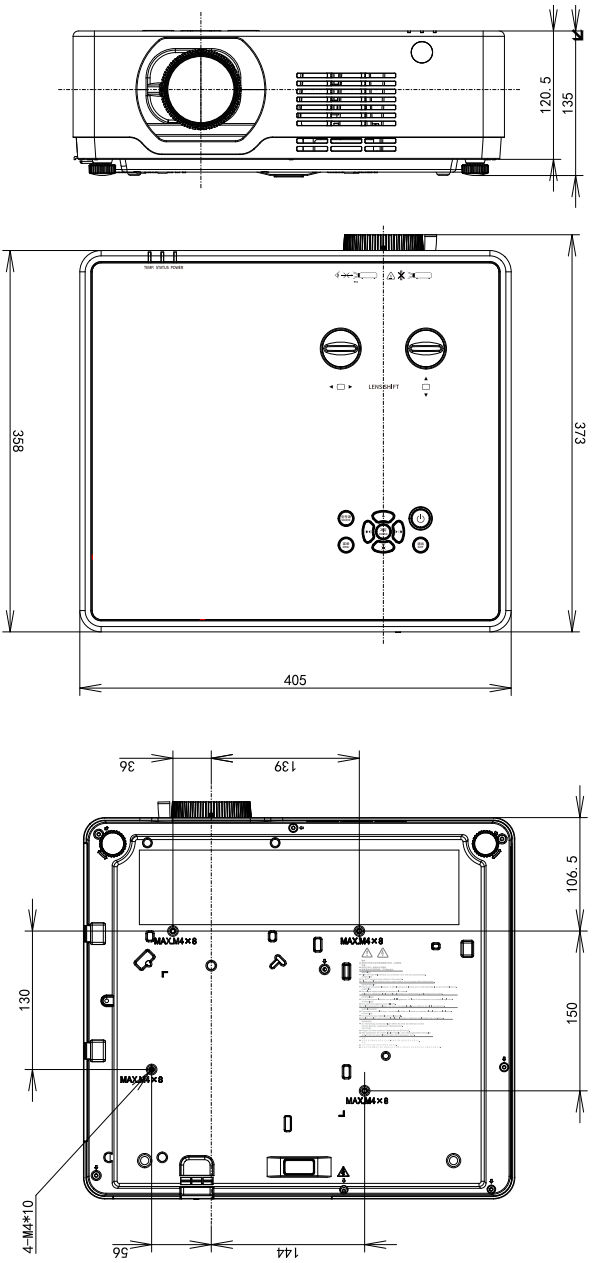
VGA in Terminal



1	Red input	9	-----
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	Vertial synchronizing input
7	Grounding(green)	15	DDC clock
8	Grounding(blue)		

USB-A Terminal(USB connector(Type A X1))				
	1	VBUS	5	-----
	2	D-	6	-----
	3	D+	7	-----
	4	GND	8	-----
USB-BTerminal(USB connector(Type B X1))				
	1	VBUS	6	-----
	2	D-	7	-----
	3	D+	8	-----
	4	ID	9	-----
	5	GND	10	-----

Dimensions



Unit: mm

Screw Holes for Ceiling Mount(6 pcs)
Screw: M4
Depth: 8.0

Technical Specifications

Mechanical properties	
Dimensions (W×H×D):	405mm x358mm x 136mm
Net Weight	7.7 Kg
Adjustable foot	3.5˚
LCD resolution	
LCD system	0.63"x3(EL-VL506X), 0.64"x3(EL-VL556W/EL-VL556U/EL-VL606X/EL-VL606W/EL-VL606U) TFT, active matrix
LCD resolution	XGA(1024 x768) WXGA 1280 x 800) WUXGA (1920 x 1200)
Color standard	PAL, SECAM, NTSC, NTSC4.43, PAL-M and 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–91 KHz; Vertical frequency: 24–85 Hz
Optical elements	
Image size (diagonal lines)	30"-300", adjustable
Throw Ratio	EL-VL506X: 1.3(wide)-2.2(tele) EL-VL556W,EL-VL606W: 1.2(wide)-2.1(tele) EL-VL556U,EL-VL606U: 1.2(wide)-2.0(tele)
Projection distance	EL-VL506X: Wide 0.795-8.303 Tele:1.346-13.808 EL-VL556X,EL-VL556W,EL-VL606W: Wide 0.779-8.148 Tele:1.320-13.552 EL-VL556U,EL-VL606U: Wide 0.765-7.964 Tele:1.258-12.885
Light source power	EL-VL506X: 350W (Normal) 270W (ECO.1) 230W (ECO.2) EL-VL556W: 350W (Normal) 270W (ECO.1) 230W (ECO.2) EL-VL556U: 360W (Normal) 280W (ECO.1) 230W (ECO.2) EL-VL606X/EL-VL606W/EL-VL606U(TBD)
Terminal	
VGA IN	Mini D-sub 15pin x1
VGA OUT	Mini D-sub 15pin x1
HDMI 1	HDMI A type 19 pin
HDMI 2	HDMI A type 19 pin
LAN	100 Base-TX (100Mbps)/10 Base-T (10Mbps), RJ45
USB-B	USB connector (B type x1)
USB-A	USB connector (A type x1)
RS-232	D-sub 9 pin x1
AUDIO IN	Mini Stereo 3.5mm x1
AUDIO OUT	Mini Stereo 3.5mm x1
Power	
Voltage and power consumption	4.5A 50/60 Hz
Fuse	20A/250V
Speaker	16W*1
Operating Environment	
Operating temperature	5°~40°
Operating humidity	20% ~ 80%
Storage Temperature	-10°~50°
Storage humidity	10% ~ 85%
High land	3200 m
Remote control	
Battery	AA lkaline type x 2
Operating Range	±30° About 7 meters, straight line about 20 meters
Dimensions	48mm (W) x 26mm (H) x 160mm (D)
Net Weight	67g
Accessories	
Remote control and batteries&AC power cord&Quick Start Guide&6 Srews&Power cord buckle	

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

RS232 control mode

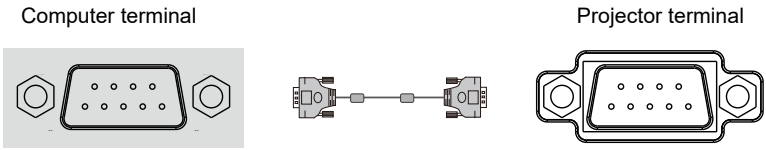
Serial connection

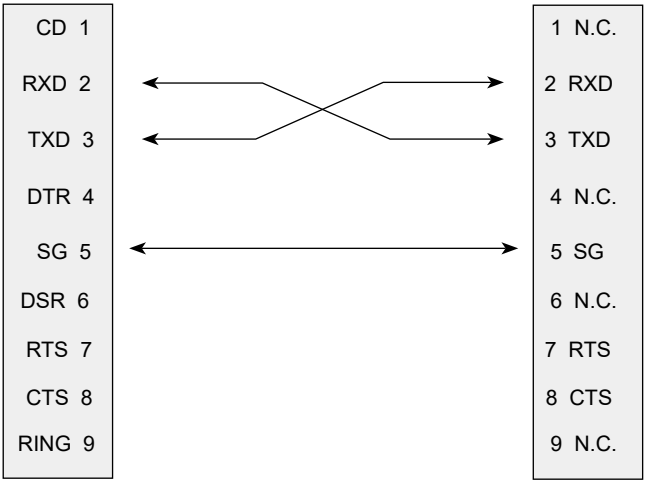
1.1 Port setting

Project	Setpoint
Communication method	Asynchronous communication
Communication rate	19200
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.





2. Basic commands

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

Command	Option	Command	Option
C00	POWER ON	**C02**	POWER OFF
C01	POWER OFF (Immediatly)	**C05**	VGA
C36	HDMI 1	**C37**	HDMI 2
C16	Memory Viewer	**C17**	USB Display
C15	Network		

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 Successfully	[ACK] ［CR］
	Receive Unsuccessfully	“？ ”[CR]

2.2 POWER OFF command (Namely Power Off immediatly)

Command	“C01”[CR]	
Details	Power OFF action. Send this command can force your projector to power off during in power on state.	
Return Value	Receive Successfully	[ACK] ［CR］
	Receive Unsuccessfully	“？ ”[CR]

2.3 POWER OFFcommand

Command	“C02”[CR]	
Details	Power OFF action. A "POWER OFF " dialog box pops up when sending the POWER OFF command ,and do once again can force your projector to power off. Send this command can force the end of the countdownthe in the countdown state.	
Return Value	Receive Successfully	[ACK] ［CR］
	Receive Unsuccessfully	“？ ”[CR]

2.4 VGA command

Command	“C05”[CR]	
Details	Select VGA IN Input	
Return Value	Receive Successfully	[ACK] ［CR］
	Receive Unsuccessfully	“？ ” [CR]

2.5 HDMI 1 command

Command	“C36”[CR]	
Details	Select HDMI1 Input.	
Return Value	Receive Successfully	[ACK] ［CR］
	Receive Unsuccessfully	“？ ” [CR]

2.6 HDMI 2 command

Command	“C37”[CR]	
Details	Select HDMI2 Input.	
Return Value	Receive Successfully	[ACK] ［CR］
	Receive Unsuccessfully	“？ ” [CR]

2.7 Network command

Command	“C15”[CR]	
Details	Select Network Input .	
Return Value	Receive Successfully	[ACK] ［CR］
	Receive Unsuccessfully	“？ ” [CR]

2.8 Memory Viewer command

Command	“C16”[CR]	
Details	Select Memory Viewer Input .	
Return Value	Receive Successfully	[ACK] ［CR］
	Receive Unsuccessfully	“？ ” [CR]

2.9 USB Display command

Command	“C17”[CR]	
Details	Select USB Display Input .	
Return Value	Receive Successfully	[ACK] ［CR］
	Receive Unsuccessfully	“？ ” [CR]

Trademarks

- MultiPresenter is a trademark or registered trademark of NEC Display Solutions, Ltd. in Japan and other countries.
- Apple, Mac, MacBook, and iMac are trademarks of Apple Inc. registered in the U.S. and othe countries.
- Microsoft, Windows, and PowerPoint are either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.
- The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries.



- HDBaseT™ and the HDBaseT Alliance logo are trademarks of the HDBaseT Alliance.



- PJLink trademark and logo are trademarks applied for registration or are already registered in Japan, the United States of America and other countries and areas.
- Wi-Fi® is a registered trademark of the Wi-Fi Alliance®. WPA™, WPA2™ are trademarks of the Wi-Fi Alliance®.
- Blu-ray is a trademark of Blu-ray Disc Association
- CRESTRON and CRESTRON ROOMVIEW are trademarks or registered trademarks of Crestron Electronics, Inc. in the United States and other countries.
- Extron and XTP are registered trademarks of RGB Systems, Inc. in the United States.
- Ethernet is either a registered trademark or trademark of Fuji Xerox Co., Ltd.
- Other product names and company logos mentioned in this his user's manual may be the trademarks or registered trademarks of their respective holders.

Sonnoc

Add Luster to China
Laser Projector Industry

Sonnoc (Beijing) Technology Co., Ltd
P/N:D66050000150
Version: A
Standards:
GB:4943.1-2011、GB/T9254-2008、GB17625.1-2012

扫一扫关注