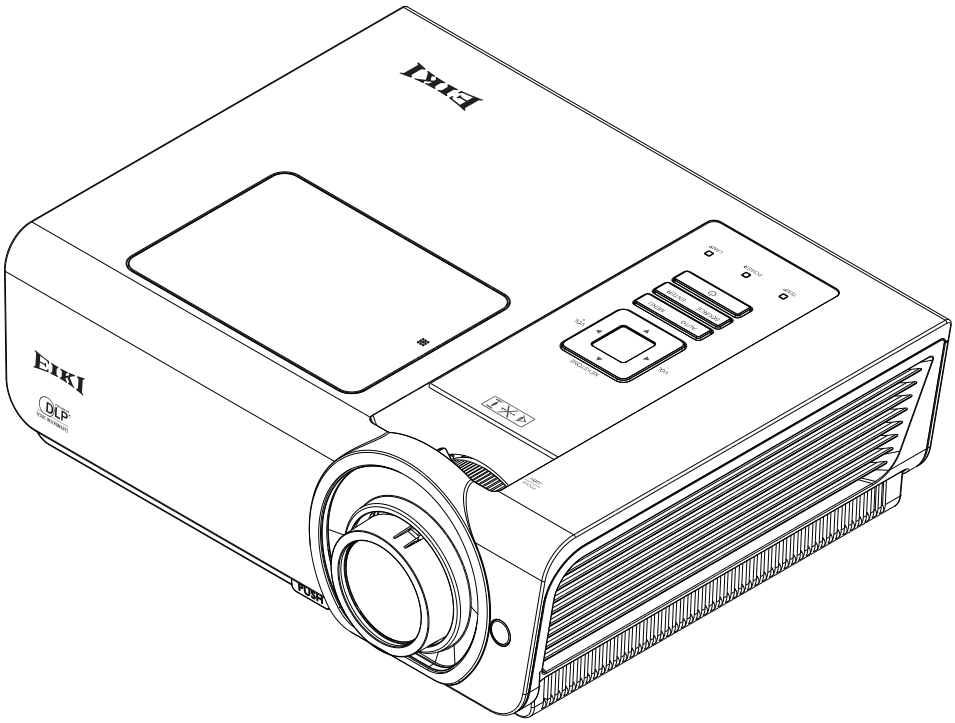
EIKI

Owner's Manual



Multimedia Projector

Model EK-400X
EK-401W
EK-402U

Sales: 1300 88 11 79 • www.Projectisle.com.au

Features and Design

This Multimedia Projector is designed with the most advanced technology for portability, durability, and ease of use. This projector utilizes a high luminance and Eco friendly system, a palette of 1.07 billion colors, and digital light processing (DLP) technology

Compact Design

This projector is designed compact in size and weight. It is easy to carry and installed anywhere you wish to use.

Simple Computer System Setting

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

Useful Functions for Presentations

- The digital zoom function allows you to focus on the crucial information during a presentation .
- The 3W audio output allows you to make a presentation without any extenal audio equipment.

Lamp Control

Brightness of the projection lamp can be manually selected (Normal or Static Eco). If a Dynamic Eco is chosen, the system will automatically adjust the lamp power according to the source input. This enhances the picture contrast and reduces the power consumption especially in dark screen.

Logo Function

The Logo function allows you to customize the screen logo. You can capture an image for the screen logo and use it for the starting-up display or between presentations.

Multilanguage Menu Display

Operation menu is available in 11 languages; English, French, German, Spanish, Simplified Chinese, Traditional Chinese, Italian, Russian, Korean, Arabic and Kazak.

Helpful Maintenance Functions

Lamp and filter maintenance functions provide for better and proper maintenance of the projector.

Security Function

The Security function helps you to ensure security of the projector. With the Key lock function, you can lock the operation on the top control or remote control except the Power button.

LAN Network Function

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

For details, refer to the pages 36-45.

Auto Setup Function

This function enables auto input search and auto signal adjustment simply by pressing the AUTO button on the keypad or remote.

Colorboard Function

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

Power Management

The Power management function reduces power consumption and maintains the lamp life.

Closed Caption

This is a printed version of the program sound or other information displayed on the screen. You can turn on the feature and switch the channels.

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

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All other product names used in this manual are the properties of their respective owners and are acknowledged.

Important Safety Information

> ***Important:***
> *It is strongly recommended that you read this section carefully before using the projector. These safety and usage instructions will ensure that you enjoy many years of safe use of the projector. Keep this manual for future reference.*

Symbols Used

Warning symbols are used on the unit and in this manual to alert you of hazardous situations.

The following styles are used in this manual to alert you to important information.

> ***Note:***
> *Provides additional information on the topic at hand.*

> ***Important:***
> *Provides additional information that should not be overlooked.*

> ***Caution:***
> *Alerts you to situations that may damage the unit.*

> ***Warning:***
> *Alerts you to situations that may damage the unit, create a hazardous environment, or cause personal injury.*

Throughout this manual, component parts and items in the OSD menus are denoted in bold font as in this example:
"Push the **Menu** button on the remote control to open the **Main** menu."

General Safety Information

- Do not open the unit case. Aside from the projection lamp, there are no user-serviceable parts in the unit. For servicing, contact qualified service personnel.
- Follow all warnings and cautions in this manual and on the unit case.
- The projection lamp is extremely bright by design. To avoid damage to eyes, do not look into the lens when the lamp is on.
- Do not place the unit on an unstable surface, cart, or stand.
- Avoid using the system near water, in direct sunlight, or near a heating device.
- Do not place heavy objects such as books or bags on the unit.

Safety Instructions

Please read this manual completely before installing and operating the projector.

The projector provides many convenient features and functions. Proper operation may enable you to fully utilize the features and keep it in good condition. Otherwise, it will not only shorten the service life of the unit, but also may cause malfunction, a fire, or other accidents.

If your projector cannot work properly, please read this manual again, check the operating methods and cable connection, and try the solutions in the part of Troubleshooting. If the problem still exists, contact the dealer or the service center.

The lamp of the projector is a wearing part. The luminance may decrease after a period of operation and be weaker than that of a new lamp. This is normal. Please strictly follow the steps in Turning on the unit and Turning off the unit to turn on/off the projector, and the requirements in maintaining and cleaning the projector to service and clean the projector regularly. Or the high temperature residual heat may not radiate, greatly shortening the service life of the projector and lamp, or even damaging them within a short period.

Caution:
ELECTRIC SHOCK DO NOT OPEN

Caution:
To reduce the risk of electric shock, do not remove cover (or back), no user serviceable parts inside except lamp replacement. refer servicing to qualified service personnel.

This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.

This symbol indicates that there are important operating and maintenance instructions in the user's manual with this unit.

FOR EU USERS
The symbol mark and recycling systems described below apply to EU countries and do not apply to countries in other areas of the world.
Your product is designed and manufactured with high quality materials and components which can be recycled and/or reused.
The symbol mark means that electrical and electronic equipment, batteries and accumulators, at their end-of-life, should be disposed of separately from your household waste.

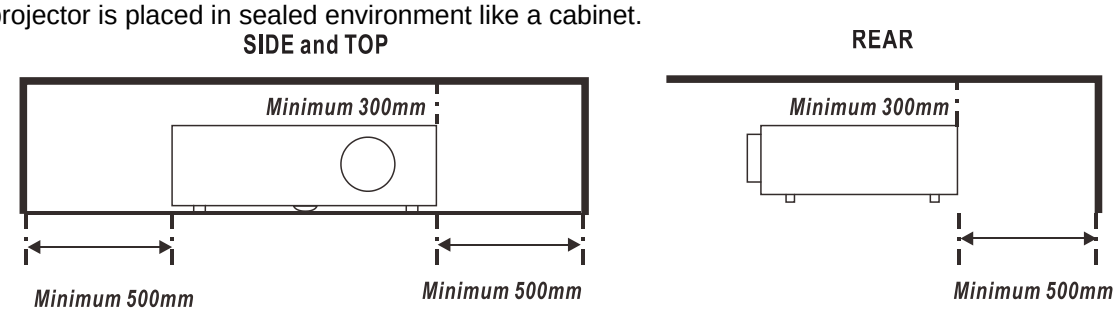
Note:
If a chemical symbol is printed beneath the symbol mark, this chemical symbol means that the battery or accumulator contains a heavy metal at a certain concentration. This will be indicated as follows: Hg: mercury, Cd: cadmium, Pb: lead In the European Union there are separate collection systems for used electrical and electronic equipment, batteries and accumulators.
Please, dispose of them correctly at your local community waste collection/recycling centre. Please help us to conserve the environment we live in!

Safety precautions

Caution:

- *The projector must be grounded.*
- *Do not expose the projector to raindrops or high humidity to avoid a fire or electric shock.*

- This projector produces intense light from the projection lens. Avoid staring directly into the lens, otherwise eye damage could be caused. Be especially careful that children do not stare directly into the beam.
- Place the projector in a proper position. Otherwise it may result in fire hazard.
- Leave an appropriate space from the top, sides, and back of the shell in order to ventilate and cool down the projector. The figures below indicate the minimum distance to be left. It must be satisfied if the projector is placed in sealed environment like a cabinet.



- Do not cover the vent of the projector. Poor radiation may shorten the service life or even cause dangers.
- Remove the AC power plug if the projector is not to be used for a long time.

Caution

Do not set the projector in greasy, wet, or smoky conditions such as in a kitchen, to prevent a malfunction or accident. If the projector comes in contact with oil or chemicals, it may become deteriorated.

Read and keep this manual for future reference.

The mains plug/appliance coupler is used as disconnect device, the disconnect device shall remain readily operable.

Safety Guide

All the safety and operating instructions should be read before the product is operated.

Read all of the instructions given here and retain them for later use. Unplug this projector from AC power supply before cleaning. Do not use liquid or aerosol cleaners.
Use a damp cloth for cleaning.

Follow all warnings and instructions marked on the projector.

For added protection to the projector during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage due to lightning and power line surges.

Do not expose this unit to rain or use near water... for example, in a wet basement, near a swimming pool, etc...

Do not use attachments not recommended by the manufacturer as they may cause hazards.
Do not place this projector on an unstable cart, stand, or table. The projector may fall, causing serious injury to a child or an adult, and serious damage to the projector.
Use only with a cart or stand recommended by the manufacturer, or sold with the projector. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturers.

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

Slots and openings in the back and bottom of the cabinet are provided for ventilation, to ensure reliable operation of the equipment and to protect it from overheating.

The openings should never be covered with cloth or other materials, and the bottom opening should not be blocked by placing the projector on a bed, sofa, rug, or other similar surface. This projector should never be placed near or over a radiator or heat register.

This projector should not be placed in a build-in installation such as a book case unless proper ventilation is provided.

Never push objects of any kind into this projector through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the projector.

Do not install the projector near the ventilation duct of air-conditioning equipment.

This projector should be operated only from the type of power source indicated on the marking label.
If you are not sure of the type of power supplied, consult your authorized dealer or local power company.

Do not overload wall outlets and extension cords as this can result in fire or electric shock. Do not allow anything to rest on the power cord. Do not locate this projector where the cord may be damaged by persons walking on it.

Do not attempt to service this projector yourself as opening or removing Covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

- Unplug this projector from wall outlet and refer servicing to qualified service personnel under the following conditions:
  When the power cord or plug is damaged or frayed.
- If liquid has been spilled into the projector.
- If the projector has been exposed to rain or water.

- If the projector does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the projector to normal operation.
- If the projector has been dropped or the cabinet has been damaged.
- When the projector exhibits a distinct change in performance - this indicates a need for service.

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or injury to persons.

Upon completion of any service or repairs to this projector, ask the service technician to perform routine safety checks to determine that the projector is in safe operating condition.

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 for customers in the us

Hg *Lamp(s) inside this product contain mercury and must be recycled or disposed of according to local state or federal laws.*

Lamp(s) inside this product contain mercury and must be recycled or disposed of according to local state or federal laws.

Air circulation

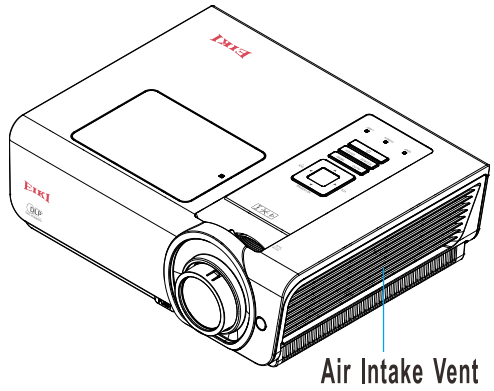
Vents in the cabinet are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered.

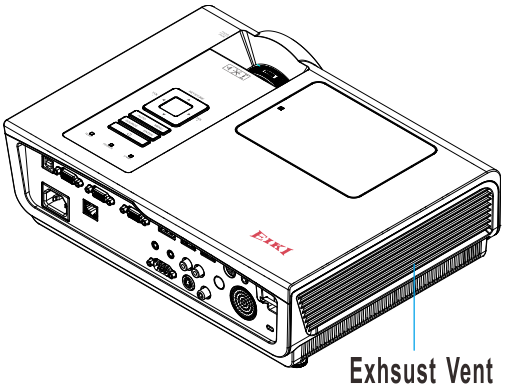
⚠ ***Caution***

- *Hot air is exhausted from the exhaust vent. When using or installing the projector, the following precautions should be taken.*
- *Do not put any flammable objects, or spray can near the projector. Hot air is exhausted from the air vents.*
- *Keep the exhaust vent at least 1m away from any objects.*
- *Do not touch a peripheral part of the exhaust vent, especially screws and metallic part. This area will become hot while the projector is being used.*
- *Do not put anything on the projector. Objects put on the cabinet will not only get damaged but also may cause fire hazard by heat.*
- *Cooling fans are provided to cool down the projector.*
- *The fan's running speed is changed according to the temperature inside the projector.*

⚠ ***Caution***

Contains mercury
For more information on safe handling procedures, the measures to be taken in case of accidental breakage and safe disposal options visit:ec.gc.ca/mercure-mercury/.
Dispose of or recycle in accordance with applicable laws.





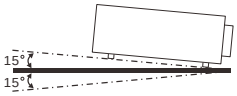
Moving the projector

When moving the projector, take care of the lens and retract the adjustable foot to prevent damage to the lens and cabinet.

Installing the projector properly

Please set the projector on nearly-level.

Be sure to install the projector properly. Improper installation may reduce the lamp lifetime and even cause a fire hazard.



Do not roll the projector over 15 degrees from rear to front.

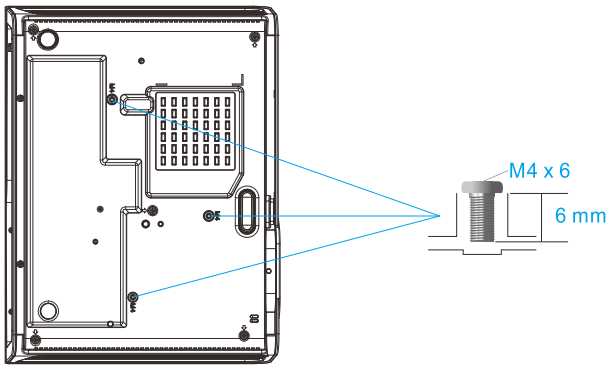
Do not point the projector up to project an image.

Do not point the projector down to project an image.

Do not put the projector on either side to project an image.

Caution in ceiling installation the projector

- *Only qualified personal is authorized for ceiling installation.*
- *We are not responsible for the hurt and damage caused by ceiling brakect that purchased from unauthorized dealer even in warranty period.*
- *Remove the ceiling bracket immediately while not use.*
- *While installing, torque screwdriver is suggested, don't use electric or impact-type screwdriver.*
- *Please read the manual of bracket for details.*
- *The bracket is subject to change without notice.*



Caution in moving or transporting the projector

- *Do not drop or bump the projector, otherwise damages or malfunctions may result.*
- *When carrying the projector, use a suitable carrying case.*
- *Do not transport the projector by courier or any other transport service in an unsuitable transport case. This may cause damage to the projector. For information about transporting the projector by courier or any other transport service, consult your dealer.*
- *Do not put the projector in a case before it is cooled enough.*

Compliance

FCC Caution

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

Use of shielded cable is required to comply with class B limits in Subpart B of Part 15 of FCC Rules.

Do not make any changes or modifications to the equipment unless otherwise specified in the instructions. If such changes or modifications should be made, you could be required to stop operation of the equipment.

Model Number : _EK-400X, EK-401W, EK-402U

Trade Name : EIKI

Responsible party : EIKI International, Inc.

Address : 30251 Esperanza Rancho Santa Margarita CA 92688-2132

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

AC Power Cord Requirement

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

AC Power Cord for the United States and Canada:

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

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

AC Power Cord for the United Kingdom:

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

If the plug supplied is not suitable for your socket outlet, it should be cut off and destroyed. The end of the flexible cord should be suitably prepared and the correct plug fitted.

WARNING :
A plug with bared flexible cord is hazardous if engaged in a live socket outlet.

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

Green-and-yellow..... Earth

Blue ..... Neutral

Brown ..... Live

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

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

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

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

WARNING:
This apparatus must be earthed.

The socket-outlet should be installed near the equipment and easily accessible.

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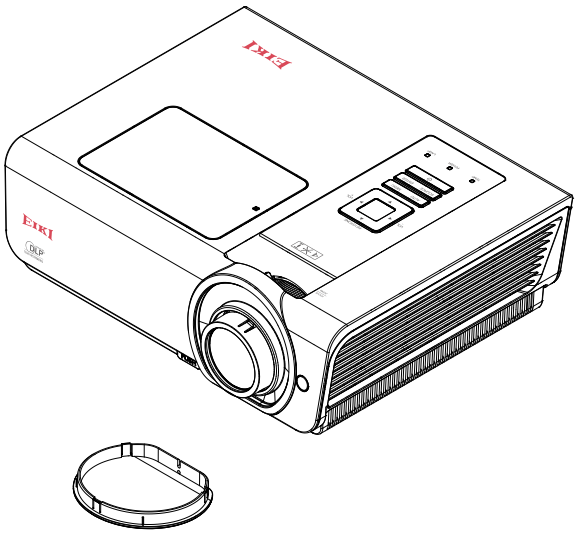
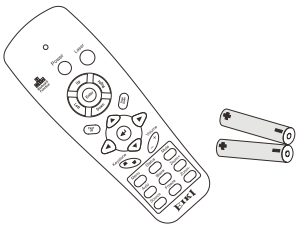
GETTING STARTED

Packing Checklist

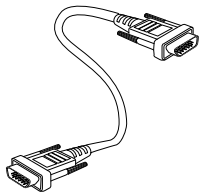
Carefully unpack the projector and check that the following items are included:



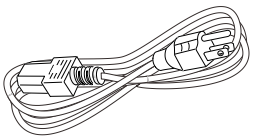
DLP PROJECTOR AND LENS CAP



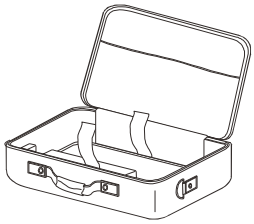
REMOTE CONTROL
(WITH TWO AAA BATTERIES)



RGB CABLE



POWER CORD



CARRYING CASE

CD-ROM
(THIS USER'S MANUAL)

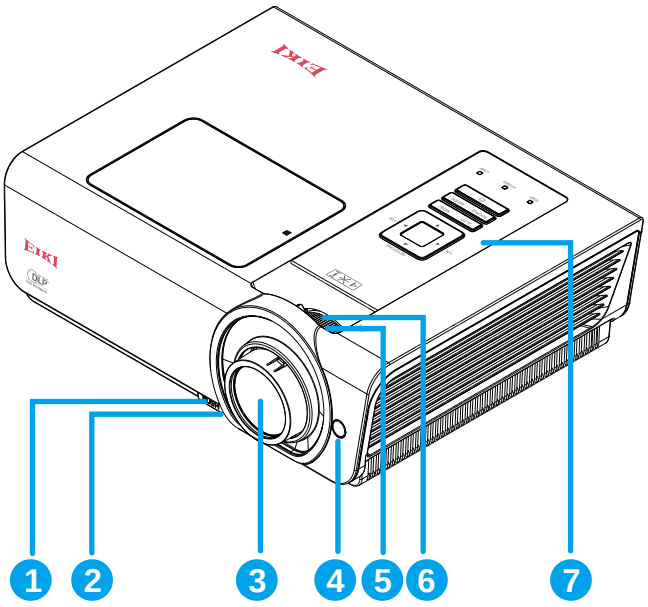
QUICK START GUIDE

Contact your dealer immediately if any items are missing, appear damaged, or if the unit does not work. It is recommend that you keep the original packing material should you ever need to return the equipment for warranty service.

Caution:
1. Avoid using the projector in dusty environments.
2. When you attach the LENS CAP, please be sure that the LENS is not convex.

Views of Projector Parts

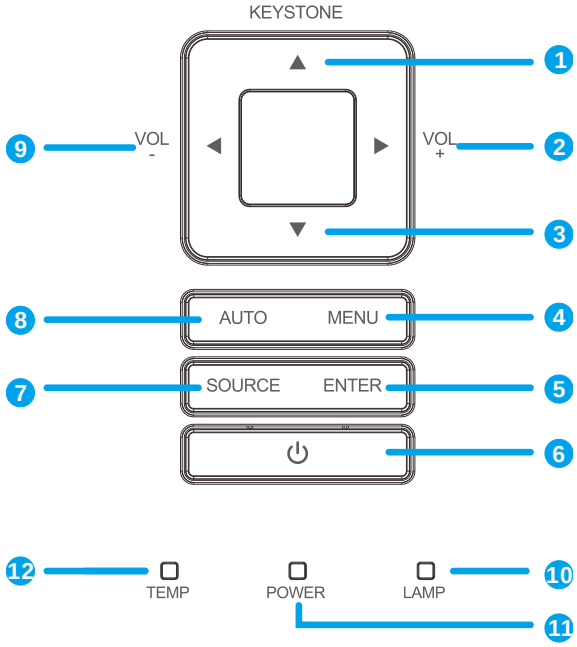
Front-right View



ITEM	LABEL	DESCRIPTION	SEE PAGE
1.	Height-adjuster button	Push to release height adjuster	***15***
2.	Height adjuster	Adjusts level of projector	
3.	Lens	Projection Lens	
4.	IR receiver	Receive IR signal from remote control	***7***
5.	Focus ring	Focuses the projected image	***16***
6.	Zoom ring	Enlarges the projected image	
7.	Function keys	See Top view—On-screen Display (OSD) buttons and LEDs.	***3***

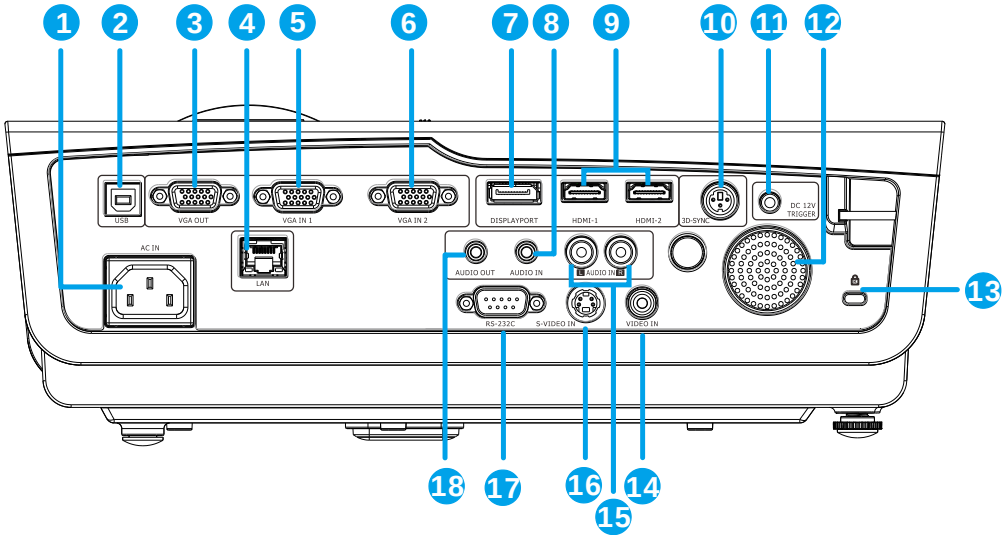
Important:
Ventilation openings on the projector allow for good air circulation, which keeps the projector lamp cool. Do not obstruct any of the ventilation openings.

Top view—On-screen Display (OSD) buttons and LEDs



ITEM	LABEL	DESCRIPTION		SEE PAGE
1.	▲ (Up cursor) / Keystone+	Navigates and changes settings in the OSD Quick Menu – For Keystone		***18***
2.	► (Right cursor) / Volume+	Navigates and changes settings in the OSD Quick Menu – For Volume		
3.	▼ (Down cursor) / Keystone-	Navigates and changes settings in the OSD Quick Menu – For Keystone		
4.	MENU	Opens and exits OSD menus		
5.	Enter	Enter or confirm highlighted OSD menu item		
6.	⏻ (Power button)	Turns the projector On or Off.		***11***
7.	SOURCE	Enter the Source menu		
8.	AUTO	Optimizes image size, position, and resolution		
9.	◄ (Left cursor) / Volume-	Navigates and changes settings in the OSD Quick Menu – For Volume		***18***
10.	LAMP LED	Flashing	Error code	***54***
11.	POWER LED	Blue	Lamp Ready, Start, Cooling	
		Flashing	Error code	
12.	TEMP LED	Red	Over Temperature	

Rear view



ITEM	LABEL	DESCRIPTION	SEE PAGE
1.	AC IN	Connect the POWER cable	***11***
2.	(USB)	Connect the USB cable from a computer	
3.	VGA OUT	Connect the RGB cable to a display (Loop Thru only for VGA IN-1)	
4.	LAN	Connect a LAN cable from Ethernet	
5.	VGA IN 1	Connect the RGB cable from a computer or component device	
6.	VGA IN 2	Connect the RGB cable from a computer or component device	
7.	DP	Connect a DISPLAYPORT CABLE from a DISPLAYPORT device	
8.	AUDIO IN	Connect an AUDIO cable from audio device	
9.	HDMI 1 / 2	Connect the HDMI cable from a HDMI device	
10.	3D SYNC	Connect the 3D IR glasses transmitter (Note: For Specific 3D IR glasses only)	
11.	DC 12V TRIGGER	When connected to the screen through a commercially available cable, the screen deploys automatically on start up of the projector. The screen retracts when the projector is powered off (see notes below).	
12.	Speaker	Outputs audio sound	
13.	Kensington Lock	Secure to permanent object with a Kensington® Lock system	***52***
14.	VIDEO IN	Connect the COMPOSITE cable from a video device	
15.	AUDIO IN (L and R)	Connect the AUDIO cable from a audio device	
16.	S-VIDEO IN	Connect the S-Video cable from a video device	
17.	RS-232C	Connect RS-232 serial port cable for remote control	
18.	AUDIO OUT	Connect an AUDIO cable to audio amplifier	

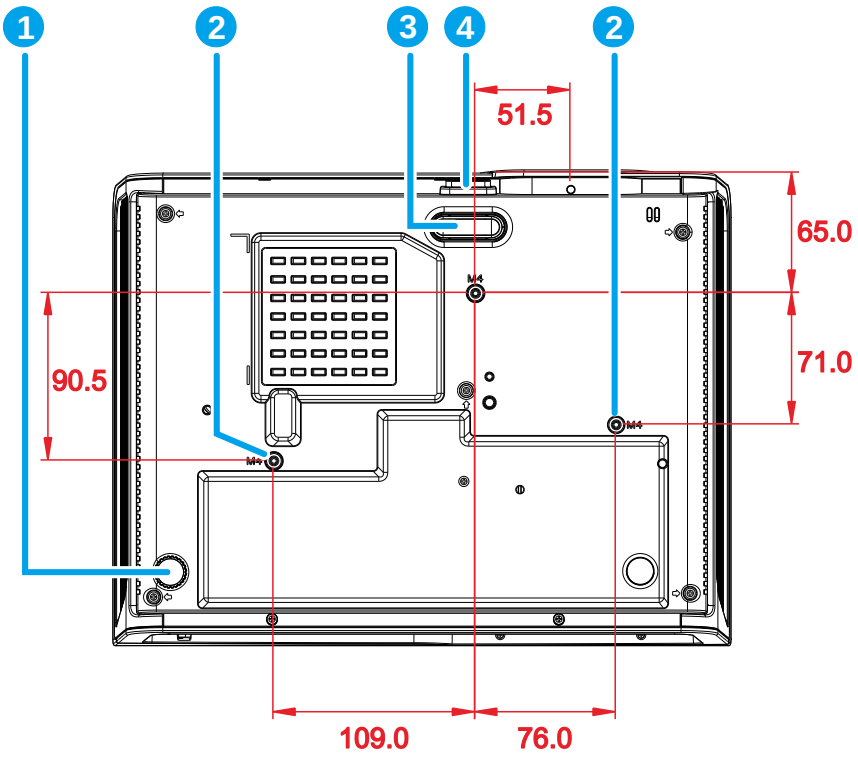
Note:

- *To use this feature, you must plug in the connector before turn on/off the projector.*
- *Screen controllers are supplied and supported by screen manufacturers.*
- *Do not use this jack for anything other than intended use.*

Warning:

As a safety precaution, disconnect all power to the projector and connecting devices before making connections.

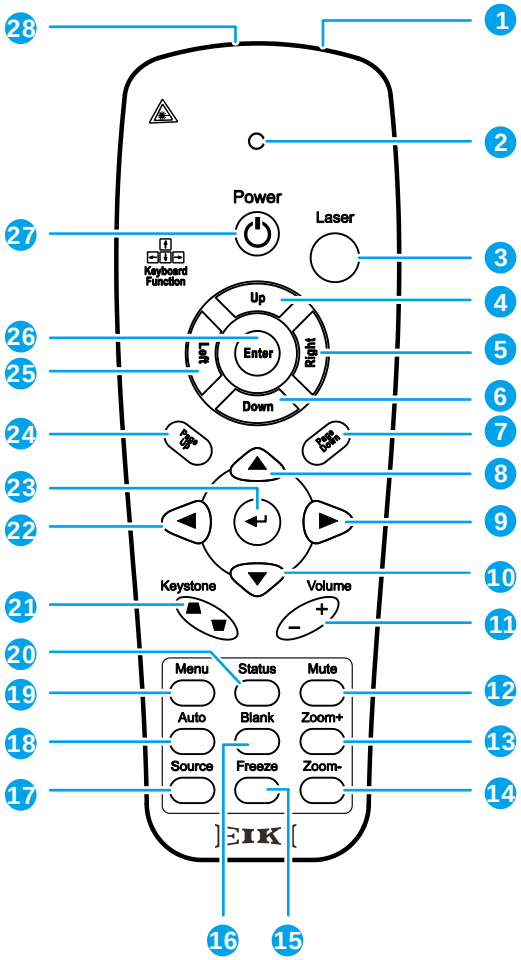
Bottom view



ITEM	LABEL	DESCRIPTION	SEE PAGE
1.	Tilt adjustor	Rotate adjuster lever to adjust angle position.	***15***
2.	Ceiling support holes	Contact your dealer for information on mounting the projector on a ceiling	
3.	Height adjustor	Adjuster drops down when adjuster button is pushed.	***15***
4.	Height adjustor button	Push to release adjustor.	

Note:
When installing, ensure that you use only UL Listed ceiling mounts.
For ceiling installations, use approved mounting hardware and M4 screws with a maximum screw depth of 6 mm (0.23 inch).
The construction of the ceiling mount must be of a suitable shape and strength. The ceiling mount load capacity must exceed the weight of the installed equipment, and as an additional precaution be capable of withstanding three times the weight of the equipment (not less than 5.15 kg) over a period of 60 seconds.

Remote Control Parts



Important:
1. *Avoid using the projector with bright fluorescent lighting turned on. Certain high-frequency fluorescent lights can disrupt remote control operation.*

2. *Be sure nothing obstructs the path between the remote control and the projector. If the path between the remote control and the projector is obstructed, you can bounce the signal off certain reflective surfaces such as projector screens.*

3. *The buttons and keys on the projector have the same functions as the corresponding buttons on the remote control. This user's manual describes the functions based on the remote control.*

Note:
Complies with FDA performance standards for laser products except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007

ITEM	LABEL	DESCRIPTION	SEE PAGE
1.	IR transmitter	Transmits signals to projector	
2.	Status LED	Lights when the remote control is used	
3.	Laser	Press to operate the on-screen pointer	
4.	Up	Up arrow when connected through USB to a PC	
5.	Right	Right arrow when connected through USB to a PC	
6.	Down	Down arrow when connected through USB to a PC	
7.	Page Down	Page down when connected through USB to a PC	
8.	Up cursor	Navigates and changes settings in the OSD	18
9.	Right cursor		
10.	Down cursor		
11.	Volume +/-	Adjusts volume	17
12.	Mute	Mutes the built-in speaker	
13.	Zoom+	Zoom in	
14.	Zoom-	Zoom out	
15.	Freeze	Freeze/unfreezes the on-screen picture	
16.	Blank	Makes the screen blank	
17.	Source	Detects the input device	
18.	Auto	Auto adjustment for phase, tracking, size, position	
19.	Menu	Opens the OSD	18
20.	Status	Opens the OSD Status menu (the menu only opens when an input device is detected)	33
21.	Keystone top/bottom	Corrects image-trapezoid (wider top/bottom) effect	16
22.	Left cursor	Navigates and changes settings in the OSD	18
23.	Enter	Changes settings in the OSD	
24.	Page Up	Page up when connected through USB to a PC	
25.	Left	Left arrow when connected through USB to a PC	
26.	Enter	Enter key when connected through USB to a PC	
27.	Power	Turns the projector on or off	11
28.	Laser	Use as on-screen pointer. **DO NOT POINT IN EYES**.	

Caution:
Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.

Remote Control Operating Range

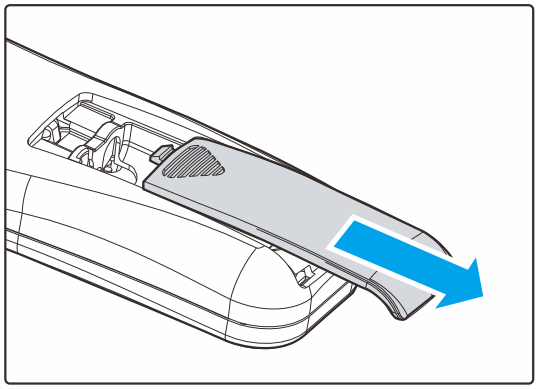
The remote control uses infrared transmission to control the projector. It is not necessary to point the remote directly at the projector. Provided you are not holding the remote perpendicular to the sides or the rear of the projector, the remote will function well within a radius of about 7 meters (23 feet) and 15 degrees above or below the projector level. If the projector does not respond to the remote control, move a little closer.

Projector and Remote Control Buttons

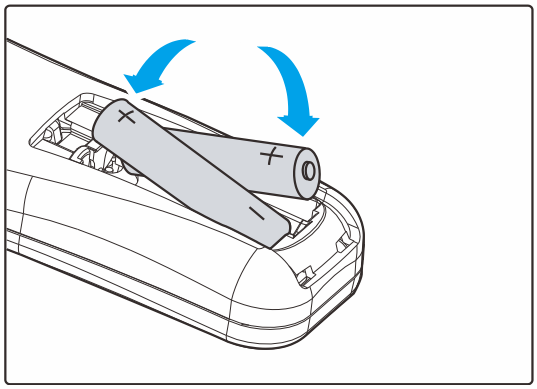
The projector can be operated using the remote control or the buttons on the top of the projector. All operations can be carried out with the remote control; however, the buttons on the projector are limited in use.

Inserting the Remote Control Batteries

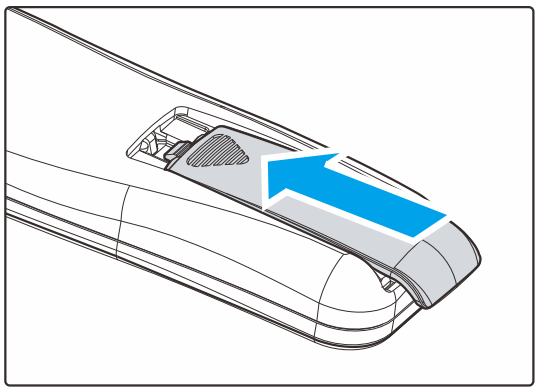
1. Remove the battery compartment cover by sliding the cover in the direction of the arrow.



2. Insert the battery with the positive side facing up.



3. Replace the cover.



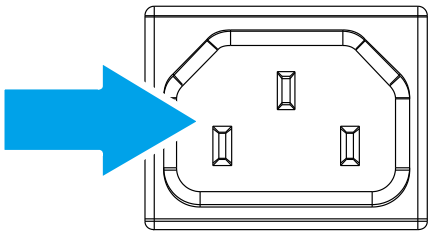
Caution:
1. *Only use AAA batteries (Alkaline batteries are recommended).*

2. *Dispose of used batteries according to local ordinance regulations.*

3. *Remove the batteries when not using the projector for prolonged periods.*

Starting and Shutting down the Projector

1. Connect the power cord to the projector. Connect the other end to a wall outlet.
The ⏻ **POWER** LED on the projector light.



2. Turn on the connected devices.

3. Ensure the POWER LED not a flashing. Then press the ⏻ **POWER** button to turn on the projector.

The projector splash screen displays and connected devices are detected.

See *Setting an Access Password (Security Lock)* on page 13 if security lock is enabled.

4. If more than one input device is connected, press the **SOURCE** button and use ▲▼ to scroll among devices.
(Component is supported through the RGB to COMPONENT ADAPTER.)

- HDMI 1 / HDMI 2: High-Definition Multimedia Interface 1 / 2
- DisplayPort: Display Port
- VGA 1 / VGA 2: Analog RGB1 / RGB 2
- S-Video: Super video (Y/C separated)
- Composite Video: Traditional composite video

5. When the "Power Off? /Press **Power** again" message appears, press the **POWER** button. The projector turns off.

Caution:
1. Be sure to remove the lens cap before starting projector.

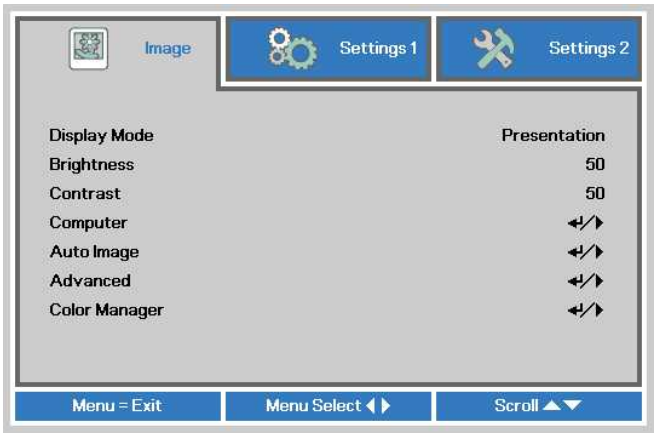
2. Do not unplug the power cord until all of fans are stop–indicating the projector has cooled down.

Setting an Access Password (Security Lock)

You can use the four (arrow) buttons to set a password and prevent unauthorized use of the projector. When enabled, the password must be entered after you power on the projector. (See *Navigating the OSD* on page 18 and *Setting the OSD Language* on page 19 for help on using OSD menus.)

> ***Important:***
> *Keep the password in a safe place. Without the password, you will not be able to use the projector. If you lose the password, contact your reseller for information on clearing the password.*

1. Press the **MENU** button to open the OSD menu.



2. Press the cursor ◄► button to move to the **Settings 1** menu, press the cursor ▲▼ button to select **Advanced 1**.

3. Press ↵ (Enter) / ► to enter the **Advanced 1** sub menu. Press the cursor ▲▼ button to select **Security Lock**.

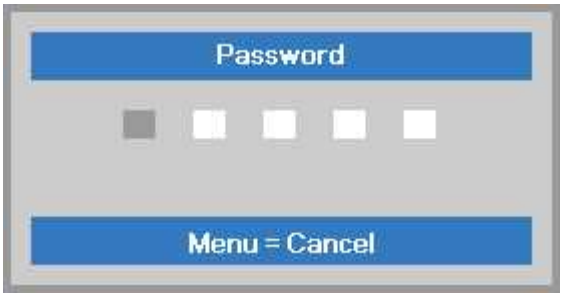
4. Press the cursor ◄► button to enter and enable or disable security lock function.

A password dialog box automatically appears.

5. You can use the cursor buttons ▲▼◄►
either on keypad or IR remote control for password entry. You can use any combination including the same arrow five times, but not less than five.

Press the cursor buttons in any order to set the password. Push the **MENU** button to exit the dialog box.

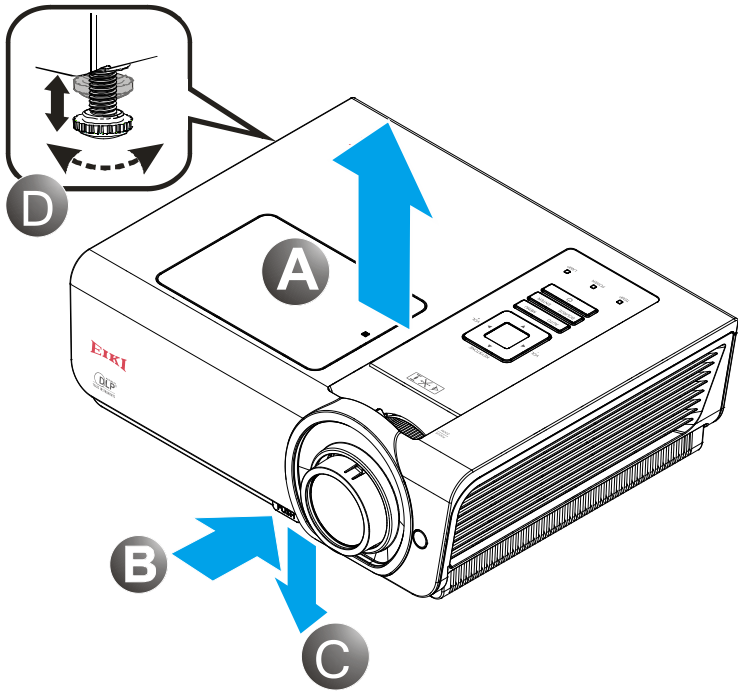
6. The password confirm menu appears when user presses the power-on key in case the **Security Lock** is enabled. Enter the password in the order you set it at step 5. In case you forget the password, please contact the service center.
The service center will validate the owner and help reset the password.



Adjusting the Projector Level

Take note of the following when setting up the projector:

- *The projector table or stand should be level and sturdy.*
- *Position the projector so that it is perpendicular to the screen.*
- *Remove the Back Foot Holder on the rear adjuster foot before adjusting the projection angle.*
- *Ensure the cables are in a safe location. You could trip over them.*



1. To raise the level of the projector, lift the projector **[A]** and press the height-adjuster button **[B]**.

The height adjuster drops down **[C]**.

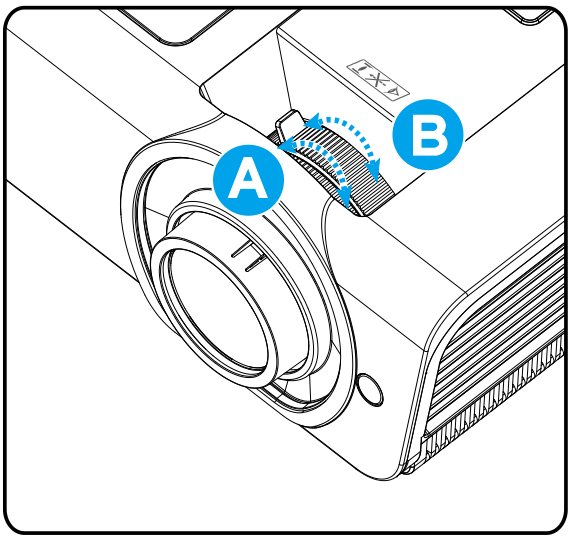
2. To lower the level of the projector, press the height-adjuster button and push down on the top of the projector.

3. To adjust the angle of the picture, turn the tilt-adjuster **[D]** right or left until the desired angle has been achieved.

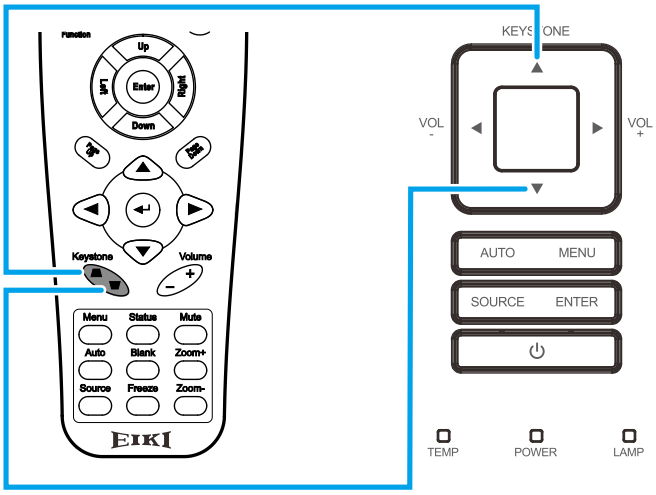
Adjusting the Zoom, Focus and Keystone

1. Use the **Image-zoom** control (on the projector only) to resize the projected image and screen size Ⓑ.

2. Use the **Image-focus** control (on the projector only) to sharpen the projected image Ⓐ.



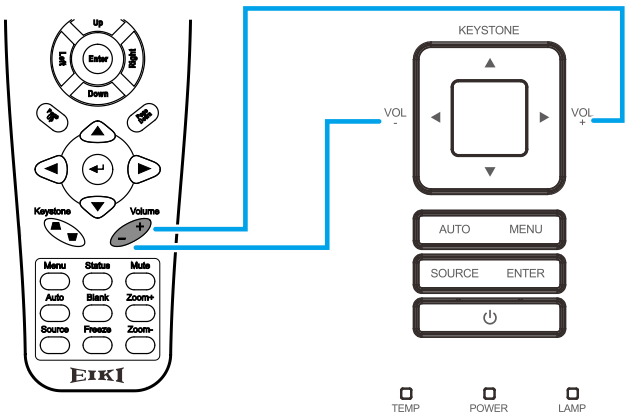
3. Use the **KEYSTONE** buttons (on the projector or the remote control) to correct image-trapezoid (wider top or bottom) effect.



4. The keystone control appears on the display.

Adjusting the Volume

1. Press the **Volume +/-** buttons on the remote control.
The volume control appears on the display.



2. Press the **Left** or **Right Cursor** buttons on the keypad to adjust **Volume +/-**.

3. Press the **MUTE** button to turn off the volume. (This feature is available only on the remote).

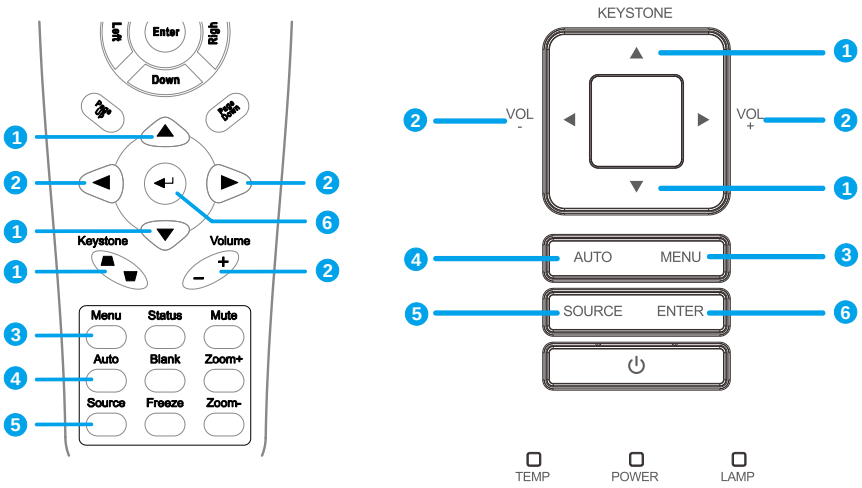
ON-SCREEN DISPLAY (OSD) MENU SETTINGS

OSD Menu Controls

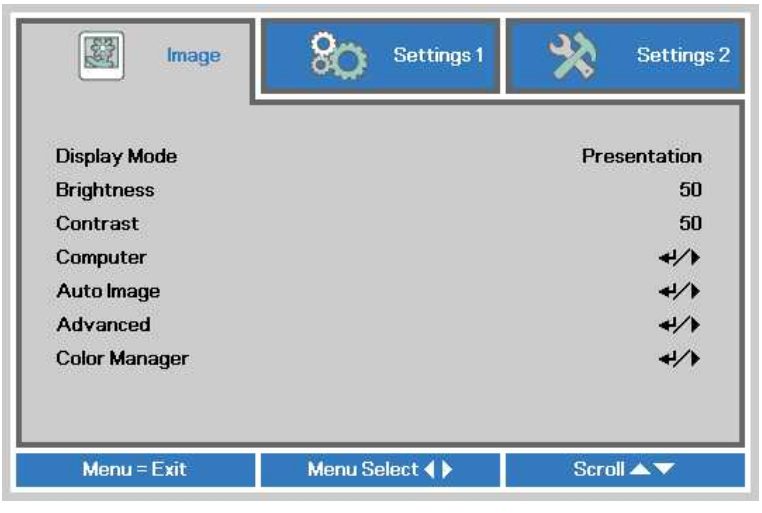
The projector has an OSD that lets you make image adjustments and change various settings.

Navigating the OSD

You can use the remote control cursor buttons or the projector keypad to navigate and make changes to the OSD.



1. To enter the OSD, press the **MENU** button.
2. There are three menus. Press the cursor ◄► button to move through the menus.
3. Press the cursor ▲▼ button to move up and down in a menu.
4. Press ◄► to change values for settings.
5. Press **MENU** to close the OSD or leave a submenu.



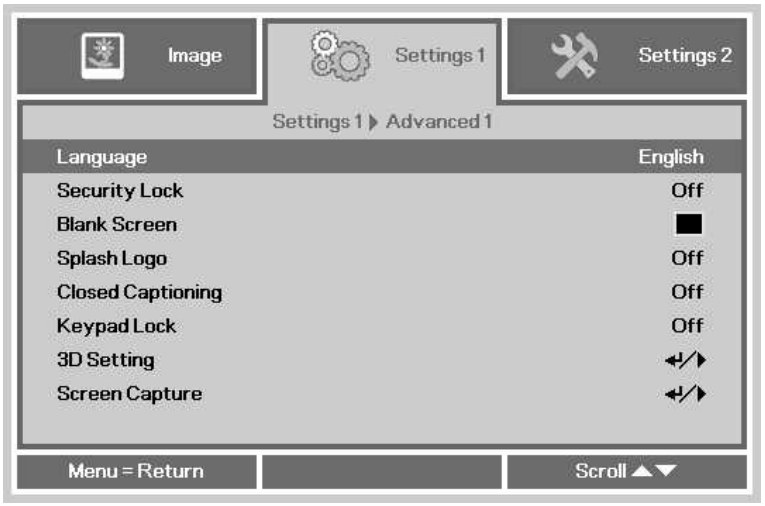
Note:
Depending on the video source, not all items in the OSD are available. For example, the ***Horizontal/Vertical Position*** *items in the* ***Computer*** *menu can only be modified when connected to a PC. Items that are not available cannot be accessed and are grayed out.*

Setting the OSD Language

Set the OSD language to your preference before continuing.

1. Press the **MENU** button. Press the cursor ◄► button to navigate to **Settings 1**. Press the cursor ▲▼ button to move to the **Advanced 1** menu.

2. Press ↵ (Enter) / ► to enter the **Advanced 1** sub menu. Press the cursor ▲▼ button until **Language** is highlighted.



3. Press the cursor button until the language you want is highlighted.
4. Press the **MENU** button four times to close the OSD.

OSD Menu Overview

Use the following illustration to quickly find a setting or determine the range for a setting.

Main Menu	Sub Menu			Settings
Image	Display Mode			Standard, Presentation, Bright, Game, Movie, TV, sRGB, Blackboard, User
	Brightness			0~100
	Contrast			0~100
	Computer	Horizontal Position		-5~5 (depend on Autolock)
		Vertical Position		-5~5 (depend on Autolock)
		Frequency		0~31
		Tracking		-5~5
	Auto Image			
	Advanced	Brilliant Color		0~10
		Sharpness		0~31
		Gamma		1.8, 2.0, 2.2, 2.4, B&W, Linear
		Color Temperature		Warm, Normal, Cold
		Video AGC		Off, On
		Video Saturation		0~100
		Video Tint		0~100
	Color Manager	Red	Hue, Saturation, Gain	0~100
		Green	Hue, Saturation, Gain	0~100
		Blue	Hue, Saturation, Gain	0~100
		Cyan	Hue, Saturation, Gain	0~100
		Magenta	Hue, Saturation, Gain	0~100
		Yellow	Hue, Saturation, Gain	0~100
		White	Red, Green, Blue	0~100

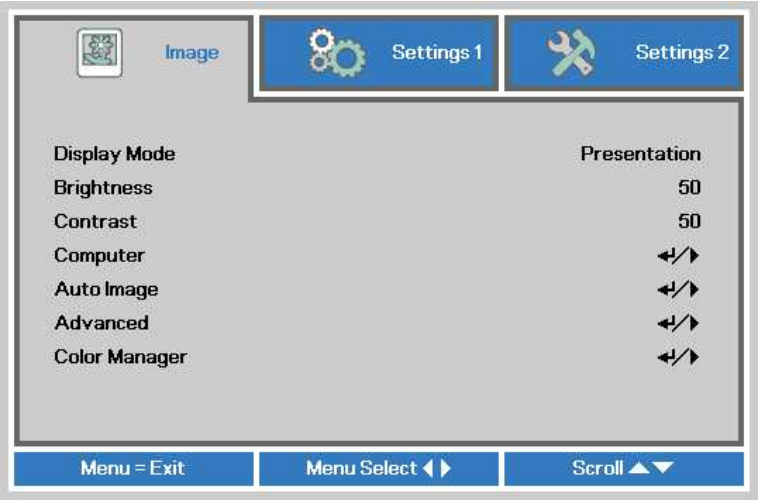
Main Menu	Sub Menu			Settings
Settings 1	Source	Source		reference Input Source Select (IR/Keypad)
	Projection			Normal, Real, Ceiling, Real+Ceiling
	Aspect Ratio			Fill, 4:3, 16:9, Letter Box, Native, 2.35:1
	Keystone			-40~40
	Digital Zoom			-10~10
	Audio	Volume		0~10
		Mute		Off, On
	Advanced 1	Language		English, Français, Deutsch, Español, 簡体中文, 繁體中文, Italiano, Русский, 한국어, العربية, Ағылшын
		Security Lock		Off, On
		Blank Screen		Blank, Red, Green, Blue, White
		Splash Logo		Std., Off, User
		Closed Captioning		Off, On
		KeypadLock		Off, On
		3D Setting	3D	Off, DLP-Link, IR
			3D Sync Invert	Off, On
			3D Format	Frame Sequential, Top/Bottom, Side-By-Side, Frame Packing (3D Frame Packing HDMI source only)
		Screen Capture		
	Advanced 2	Test Pattern		None, Grid, White, Red, Green, Blue, Black
		H Image Shift		-50~50
		V Image Shift		-50~50

Main Menu	Sub Menu			Settings
Settings 2	Auto Source			Off, On
	No Signal Power Off			0~180
	Auto Power On			Off, On
	Lamp Mode			ECO , Normal, Dynamic ECO
	Reset All			
	Status	Active Source		
		Video Information		
		Lamp Hours (ECO, Normal, Dynamic ECO)		
		Serial Number		
		Software Version		
	Advanced 1	Menu Position		Center, Down, Up, Left, Right
		Translucent Menu		0%, 25%, 50%, 75%, 100%
		Low Power Mode		Off, On, On By Lan
		Fan Speed		Normal, High
		Lamp Hour Reset		
		Projector ID		0-98
		Network	Network State	Connect, Disconnect
			DHCP	On, Off
			IP Address	0~255, 0~255, 0~255. 0~255
			Subnet Mask	0~255, 0~255, 0~255. 0~255
			Gateway	0~255, 0~255, 0~255. 0~255
			DNS	0~255, 0~255, 0~255. 0~255
			Apply	Ok / Cancel
	Advanced 2	Sleep Timer		0~600
		Source Filter	HDMI1	Disable, Enable
			HDMI2	Disable, Enable
			DisplayPort	Disable, Enable
			VGA1	Disable, Enable
			VGA2	Disable, Enable
			S-Video	Disable, Enable
			Composite Video	Disable, Enable
		Wall Color		Off, Light Yellow, Pink, Light Green, Blue, BlackBoard

Image Menu

Attention !
All of display mode parameters when changed will be saved to user mode.

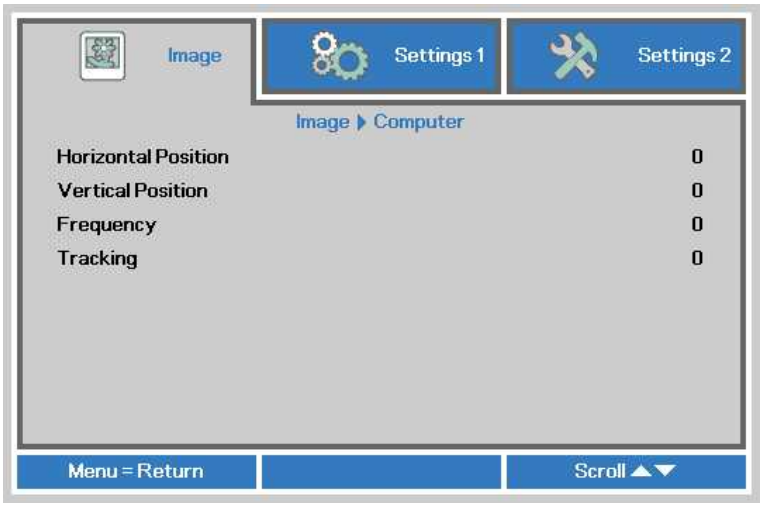
Press the **MENU** button to open the **OSD** menu. Press the cursor ◄► button to move to the **Image Menu**. Press the cursor ▲▼ button to move up and down in the **Image** menu. Press ◄► to enter and change values for settings.



ITEM	DESCRIPTION
Display Mode	Press the cursor ◄► button to enter and set the Display Mode.
Brightness	Press the cursor ◄► button to enter and adjust the display brightness.
Contrast	Press the cursor ◄► button to enter and adjust the display contrast.
Computer	Press ↵ (Enter) / ► to enter the Computer menu. See *Computer Menu* on page 24.
Auto Image	Press ↵ (Enter) / ► to automatically adjustment for phase, tracking, size and position.
Advanced	Press ↵ (Enter) / ► to enter the Advanced menu. See *Advanced Feature* on page 25.
Color Manager	Press ↵ (Enter) / ► to enter the color manager menu. See page 26 for more information on *Color Manager*.

Computer Menu

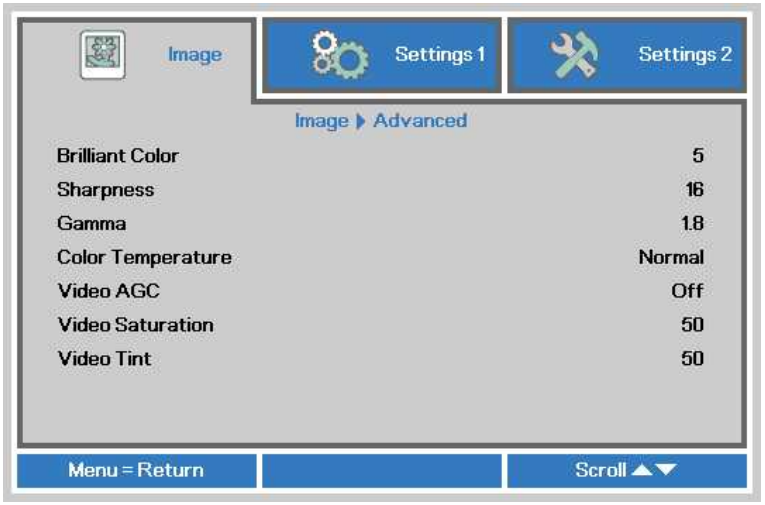
Press the **MENU** button to open the **OSD** menu. Press ◄► to move to the **Image** menu. Press ▲▼ to move to the **Computer** menu and then press **Enter** or ►. Press ▲▼ to move up and down in the **Computer** menu.



ITEM	DESCRIPTION
Horizontal Position	Press the cursor ◄► button to enter and adjust the display position to left or right.
Vertical Position	Press the cursor ◄► button to enter and adjust the display position to up or down.
Frequency	Press the cursor ◄► button to enter and adjust the A/D sampling clock.
Tracking	Press the cursor ◄► button to enter and adjust the A/D sampling dot.

Advanced Feature

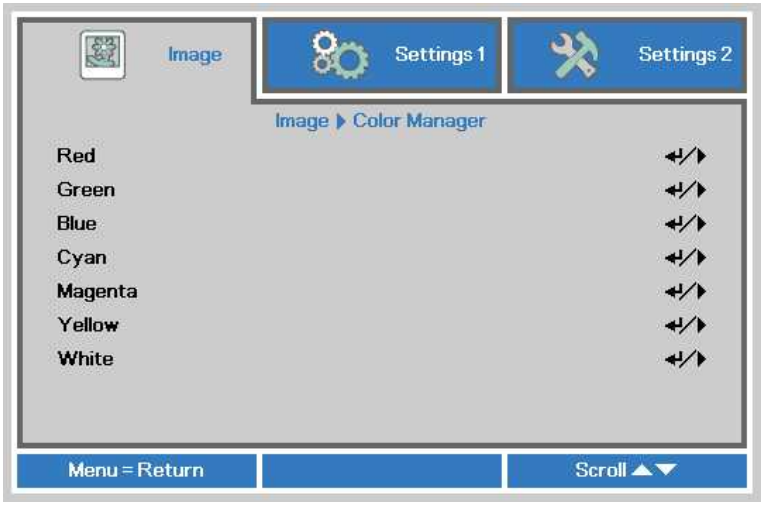
Press the **Menu** button to open the **OSD** menu. Press ◄► to move to the **Image** menu. Press ▼▲ to move to the **Advanced** menu and then press **Enter** or ►. Press ▼▲ to move up and down in the **Advanced** menu.



ITEM	DESCRIPTION
Brilliant Color	Press the cursor ◄► button to enter and adjust the Brilliant Color value.
Sharpness	Press the cursor ◄► button to enter and adjust the display sharpness.
Gamma	Press the cursor ◄► button to enter and adjust the gamma correction of the display.
Color Temperature	Press the cursor ◄► button to enter and adjust the color temperature.
Video AGC	Press the cursor ◄► button to enter and enable or disable the Automatic Gain Control for video source.
Video Saturation	Press the cursor ◄► button to enter and adjust the video saturation.
Video Tint	Press the cursor ◄► button to enter and adjust the video tint/hue.

Color Manager

Press the **Menu** button to open the **OSD** menu. Press ◄► to move to the **Image** menu. Press ▼▲ to move to the **Color Manager** menu and then press **Enter** or ►. Press ▼▲ to move up and down in the **Color Manager** menu.



ITEM	DESCRIPTION
Red	Select to enter the Red Color Manager. Press the ◄► buttons to adjust the Hue, Saturation, and Gain.
Green	Select to enter the Green Color Manager. Press the ◄► buttons to adjust the Hue, Saturation, and Gain.
Blue	Select to enter the Blue Color Manager. Press the ◄► buttons to adjust the Hue, Saturation, and Gain.
Cyan	Select to enter the Cyan Color Manager. Press the ◄► buttons to adjust the Hue, Saturation, and Gain.
Magenta	Select to enter the Magenta Color Manager. Press the ◄► buttons to adjust the Hue, Saturation, and Gain.
Yellow	Select to enter the Yellow Color Manager. Press the◄► buttons to adjust the Hue, Saturation, and Gain.
White	Select to enter the White Color Manager. Press the ◄► buttons to adjust the Red, Green, and Blue.

Settings 1 Menu

Press the **MENU** button to open the **OSD** menu. Press the cursor ◄► button to move to the **Settings 1** menu. Press the cursor ▲▼ button to move up and down in the **Settings 1** menu. Press ◄► to enter and change values for settings.

ITEM	DESCRIPTION
Source	Press the cursor ◄► button to enter the Source menu. Reference input Source select (IR / Keypad).
Projection	Press the cursor ◄► button to enter and choose from four projection methods:
Aspect Ratio	Press the cursor ◄► button to enter and adjust the video aspect ratio.
Keystone	Press the cursor ◄► button to enter and adjust the display keystone.
Digital Zoom	Press the cursor ◄► button to enter and adjust the Digital Zoom menu.
Audio	Press ↵ (Enter) / ► to enter the Audio menu. See *Audio* on page 28.
Advanced 1	Press ↵ (Enter) / ► to enter the Advanced 1 menu. See *Advanced 1 Feature* on page 29.
Advanced 2	Press ↵ (Enter) / ► to enter the Advanced 2 menu. See *Advanced 2 Feature* on page 31.

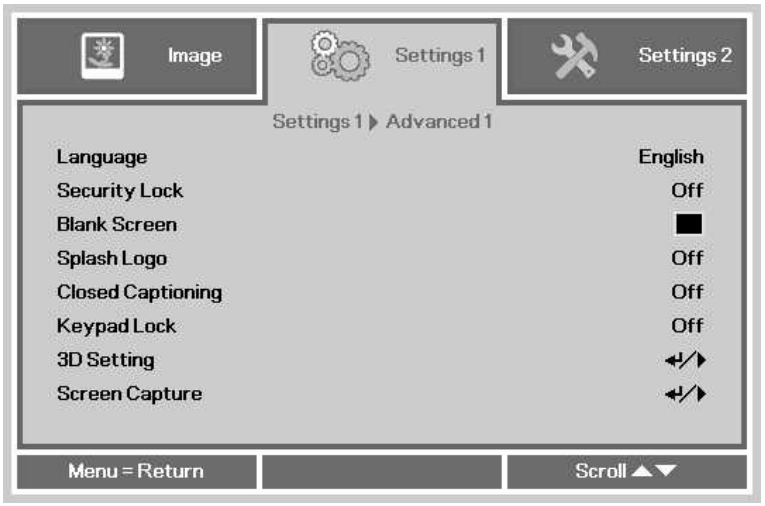
Audio

Press the **Menu** button to open the **OSD** menu. Press ◄► to move to the **Settings 1** menu. Press ▼▲ to move to the **Audio** menu and then press **Enter** or ►. Press ▼▲ to move up and down in the **Audio** menu.

ITEM	DESCRIPTION
Volume	Press the cursor ◄► button to enter and adjust the audio volume.
Mute	Press the cursor ◄► button to enter and turn on or off the speaker.

Advanced 1 Feature

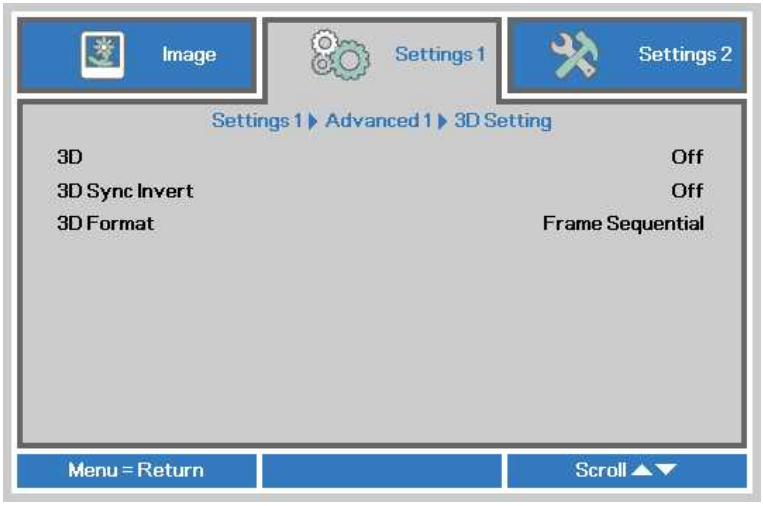
Press the **Menu** button to open the **OSD** menu. Press ◄► to move to the **Settings 1** menu. Press ▲▼ to move to the **Advanced 1** menu and then press **Enter** or ►. Press ▲▼ to move up and down in the **Advanced 1** menu. Press ◄► to enter and change values for setting.



ITEM	DESCRIPTION
Language	Press the cursor ◄► button to enter and select a different localization Menu.
Security Lock	Press the cursor ◄► button to enter and enable or disable security lock function.
Blank Screen	Press the cursor ◄► button to enter and select different color to blank the screen.
Splash Logo	Press the cursor ◄► button to enter and select splash logo.
Closed Captioning	Press the cursor ◄► button to enter and enable or disable Closed Captioning
Keypad Lock	Press the cursor ◄► button to enter and enable or disable keys can be work on keypad. **Note :** Hold the cursor ▼ button on keypad for 5 seconds to unlock keypad
3D Setting	Press ↵ (Enter) / ►to enter the 3D menu. See page 30 for more information on *3D Setting*.
Screen Capture	Press ↵ (Enter) / ► to capture screen, and please wait saving picture. Picture will auto showing after next power on.

Note:
To enjoy the 3D function, first enable the Play Movie in 3D setting found in your DVD device under the 3D Disc Menu.

3D Setting



ITEM	DESCRIPTION
3D	Press the cursor ◄► button to enter and select different 3D mode.
3D Sync Invert	Press the cursor ◄► button to enter and enable or disable 3D Sync Invert.
3D Format	Press the cursor ◄► button to enter and enable or disable different 3D Format.

Note:

1. *The 3D OSD menu item is gray if there is no appropriate 3D source. This is the default setting.*
2. *When the projector is connected to an appropriate 3D source, the 3D OSD menu item is enabled for selection.*
3. *Use 3D glasses to view a 3D image.*
4. *You need 3D content from a 3D DVD or 3D media file.*
5. *You need to enable the 3D source (some 3D DVD content may have a 3D on-off selection feature).*
6. *You need DLP link 3D or IR 3D shutter glasses. With IR 3D shutter glasses, you need to install a driver on your PC and connect a USB emitter.*
7. *The 3D mode of the OSD needs to match the type of glasses (DLP link or IR 3D).*
8. *Power on the glasses. Glasses normally have a power on -off switch.*
   Each type of glasses has their own configuration instructions. Please follow the configuration instructions that come with your glasses to finish the setup process
9. *When you Power on -> Power off -> Power on, 3D setting becomes default.*

Note:
Since different types of glass (DLP link or IR shutter glass) have their own setting instructions, Please follow the guide to finish the setup process.

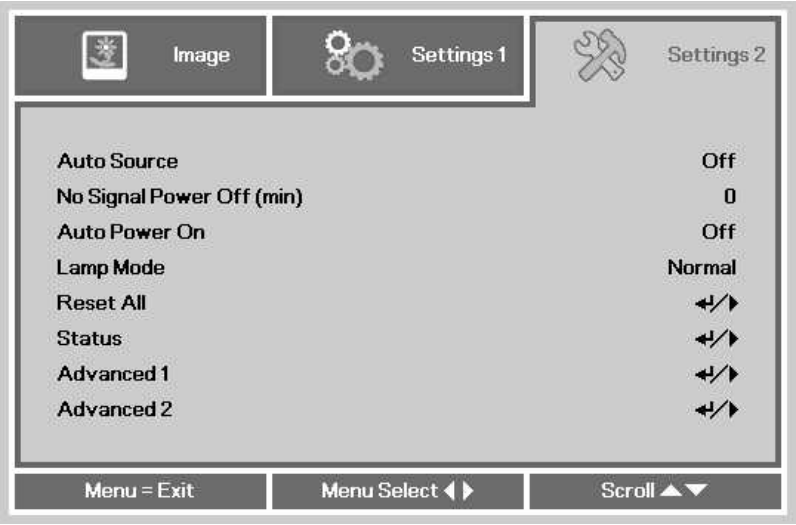
Advanced 2 Feature

Press the **Menu** button to open the **OSD** menu. Press ◄► to move to the **Settings 1** menu. Press ▲▼ to move to the **Advanced 2** menu and then press **Enter** or ►. Press ▲▼ to move up and down in the **Advanced 2** menu. Press ◄► to enter and change values for setting.

ITEM	DESCRIPTION
Test Pattern	Press the cursor ◄► button to enter and select internal test pattern.
H Image Shift	Press the cursor ◄► button to enter and select H Image Shift.
V Image Shift	Press the cursor ◄► button to enter and select V Image Shift.

Settings 2 Menu

Press the **MENU** button to open the **OSD** menu. Press the cursor ◄► button to move to the **Settings 2** menu. Press the cursor ▲▼ button to move up and down in the **Settings 2** menu.



ITEM	DESCRIPTION
Auto Source	Press the cursor ◄► button to enter and enable or disable automatic source detection.
No Signal Power Off (min.)	Press the cursor ◄► button to enter and enable or disable automatic shutdown of lamp when no signal.
Auto Power On	Press the cursor ◄► button to enter and enable or disable automatic power On when AC power is supplied.
Lamp Mode	Press the cursor ◄► button to enter and select the lamp mode for higher brightness or lower brightness to save lamp life. **Note**: Remarks to Dynamic ECO of ImageCare™ 1. Shut-down is not allowed when the projector is boot up less than one minute 2. To protect the lamp, when a shut-down command is received, the lamp mode is forced to be reset to "Normal" and the system will automatically shut down 10 seconds later
Reset All	Press ↵ (Enter) / ► to reset all settings to default values.
Status	Press ↵ (Enter) / ► to enter the Status menu. See page 33 for more information on *Status*.
Advanced 1	Press ↵ (Enter) / ► to enter the Advanced 1 menu. See *Advanced 1 Feature* on page 34.
Advanced 2	Press ↵ (Enter) / ► to enter the Advanced 2 menu. See *Advanced 2 Feature* on page 46.

Note :
"Dynamic ECO"*: Press* ***BLANK*** *button, Lamp will dim to 30% automatically.*

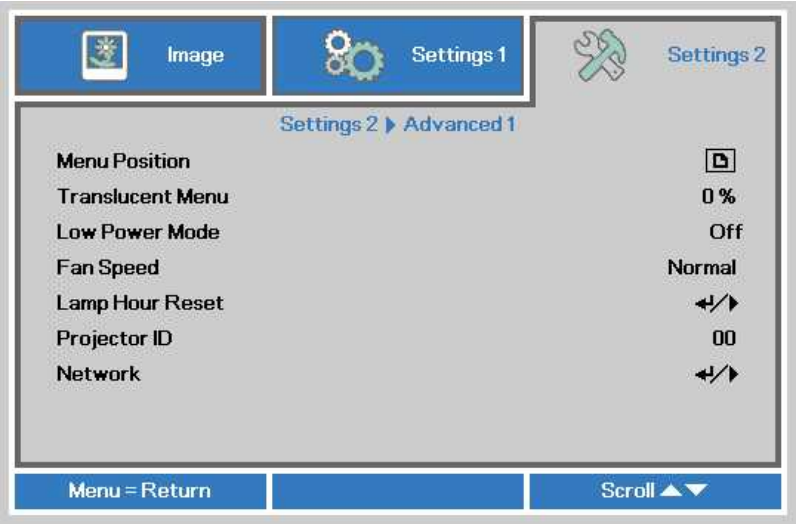
Status

Press the cursor ▲▼ button to move up and down in the **Settings 2** menu. Select the **Status** menu and press **Enter** or ► to enter.

ITEM	DESCRIPTION
Active Source	Display the activated source.
Video Information	Displays resolution/video information for RGB source and color standard for Video source.
Lamp Hours	Lamp hour used information is displayed. (Eco, Normal, Dynamic Eco)
Serial Number	Showing serial number of product.
Software Version	Showing system software version.

Advanced 1 Feature

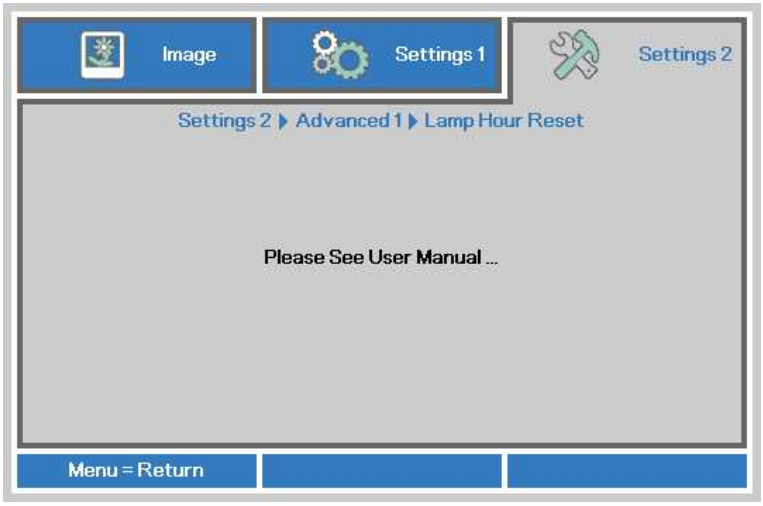
Press the **Menu** button to open the **OSD** menu. Press ◄► to move to the **Settings 2** menu. Press ▲▼ to move to the **Advanced 1** menu and then press **Enter** or ►. Press ▲▼ to move up and down in the **Advanced 1** menu. Press ◄► to enter and change values for setting.



ITEM	DESCRIPTION
Menu Position	Press the cursor ◄► button to enter and select different OSD location.
Translucent Menu	Press the cursor ◄► button to enter and select OSD background translucent level.
Low Power Mode	Press the cursor ◄► button to enter and turn Low Power Mode Off, On or On By Lan.
Fan Speed	Press the cursor ◄► button to enter and toggle between Normal and High fan speeds. **Note**: We recommend selecting high speed in high temperatures, high humidity, or high altitude (higher than 1500m/4921ft) areas.
Lamp Hour Reset	After replacing the lamp, this item should be reset. See page 35 for more information on *Lamp Hour Reset*.
Projector ID	Press the cursor ◄► button to enter and adjust a two digit projector ID from 00 through 98.
Network	Press ↵ (Enter) / ► to enter the Network menu. See page 35 for more information on *Network*.

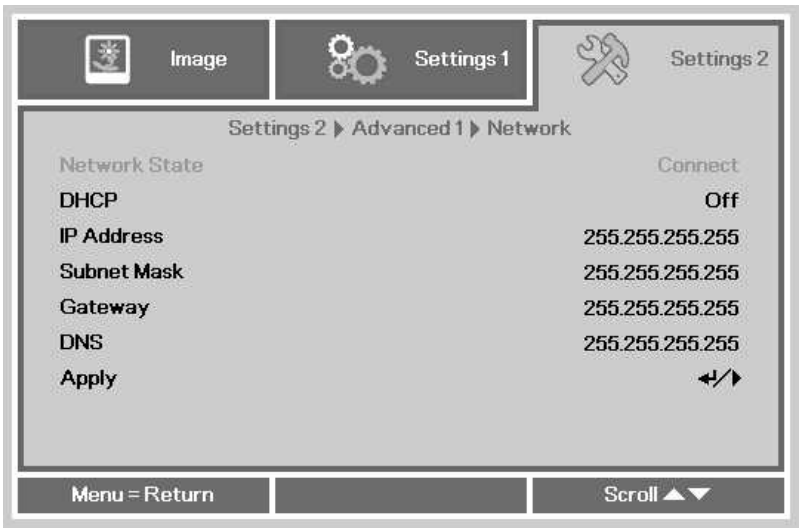
Note:
*About "**On By Lan**", RJ45 will support to be waked up in this mode(Under 2W) but scalar won't.*

Lamp Hour Reset



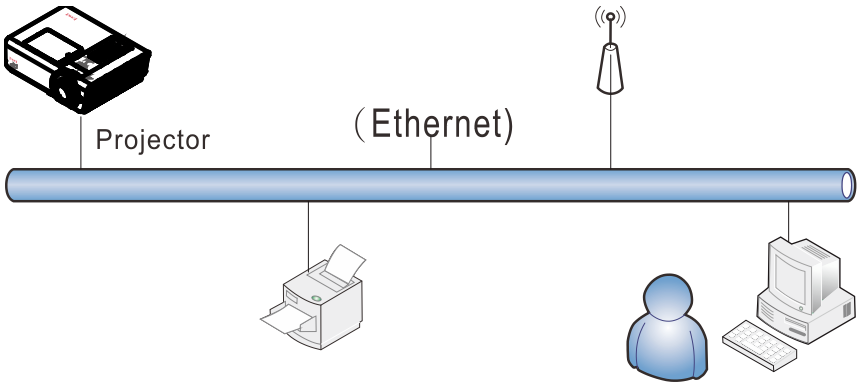
Please refer to *Resetting the Lamp* on page 50 to reset the lamp hour counter.

Network



ITEM	DESCRIPTION
Network State	Displays the network connection status.
DHCP	Press ◄► to turn DHCP On or Off. **Note:** If you select DHCP Off, complete the IP Address, Subnet Mask, Gateway, and DNS fields.
IP Address	Enter a valid IP address if DHCP is turned off.
Subnet Mask	Enter a valid Subnet Mask if DHCP is turned off.
Gateway	Enter a valid Gateway address if DHCP is turned off.
DNS	Enter a valid DNS name if DHCP is turned off.
Apply	Press ↵ (Enter) / ► to confirm settings.

LAN_RJ45



Wired LAN Terminal functionalites

Remote control and monitoring of a projector from a PC (or Laptop) via wired LAN is also possible. Compatibility with Crestron / AMX (Device Discovery) / Extron control boxes enables not only collective projector management on a network but also management from a control panel on a PC (or Laptop) browser screen.

- ★ Crestron is a registered trademark of Crestron Electronics, Inc. of the United States.
- ★ Extron is a registered trademark of Extron Electronics, Inc. of the United States.
- ★ AMX is a registered trademark of AMX LLC of the United States.
- ★ PJLink applied for trademark and logo registration in Japan, the United States of America, and other countries by JBMIA.

Supported External Devices

This projector is supported by the specified commands of the Crestron Electronics controller and related software (ex, RoomView ®).
http://www.crestron.com/

This projector is supported by AMX (Device Discovery).
http://www.amx.com/

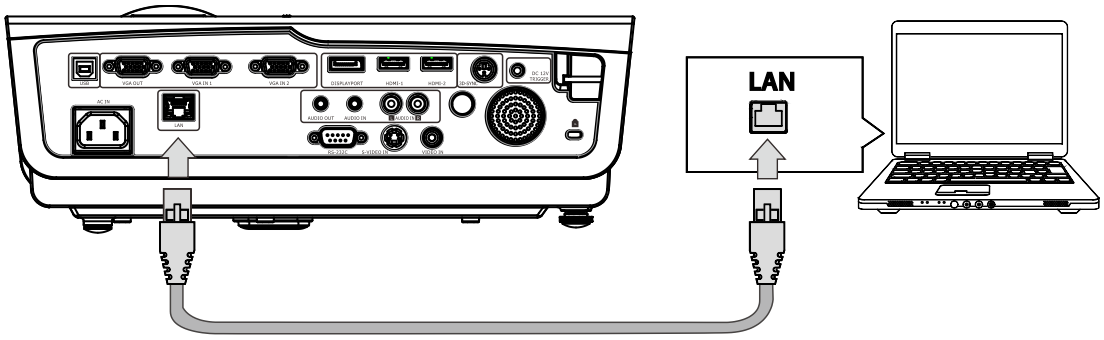
This projector is compliant to support Extron device(s) for reference.
http://www.extron.com/

This projector supports all commands of PJLink Class1 (Version 1.00).
http://pjlink.jbmia.or.jp/english/

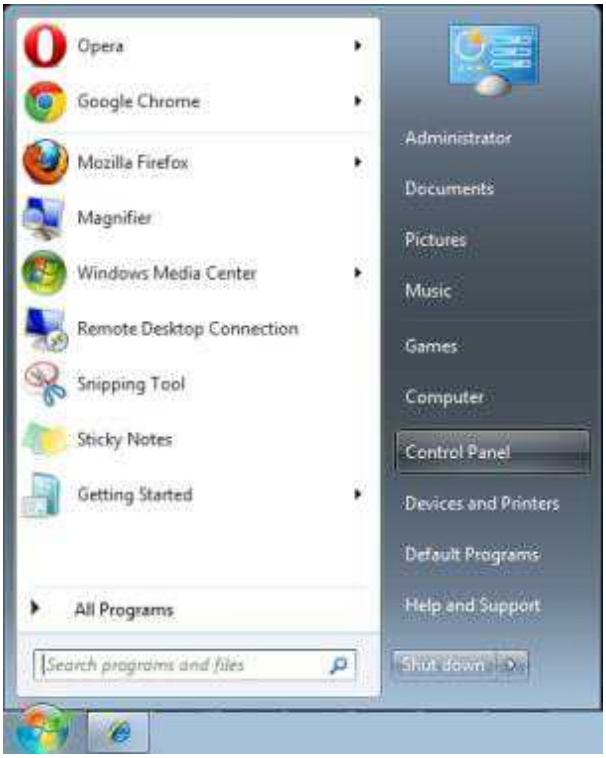
For more detail of information about the diverse types of external devices which can be connected to the LAN/RJ45 port and remote/control the projector, as well as the related control commands supporting for each external device, kindly please get contact with the Support-Service team directly.

LAN RJ45

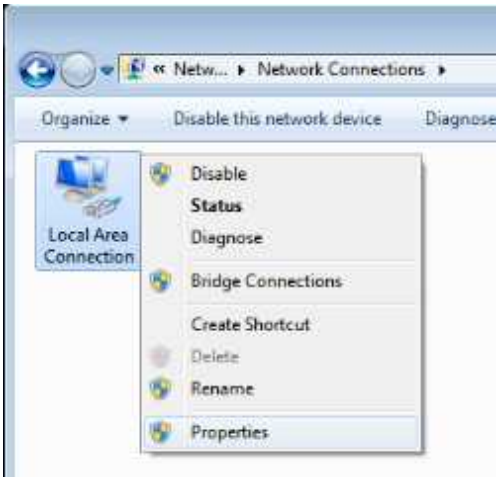
1. Connect an RJ45 cable to RJ45 ports on the projector and the PC (Laptop).



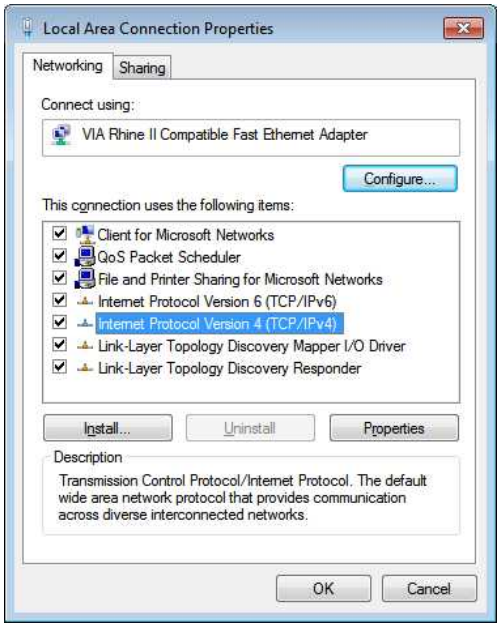
2. On the PC (Laptop), select **Start** → **Control Panel** →**Network and Internet**.



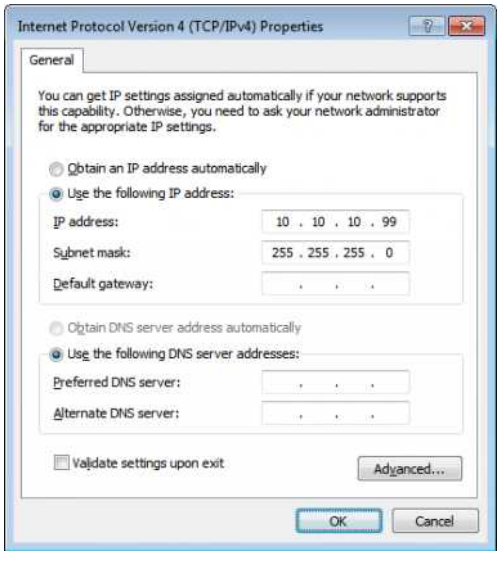
3. Right-click on **Local Area Connection**, and select **Properties**.



4. In the **Properties** window, select the **Networking** tab, and select **Internet Protocol (TCP/IP)**.
5. Click **Properties**.

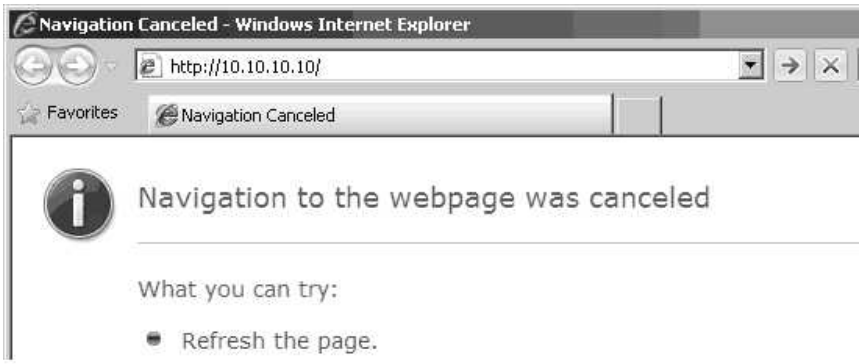


6. Click **Use the following IP address** and fill in the IP address and Subnet mask, then click **OK**.



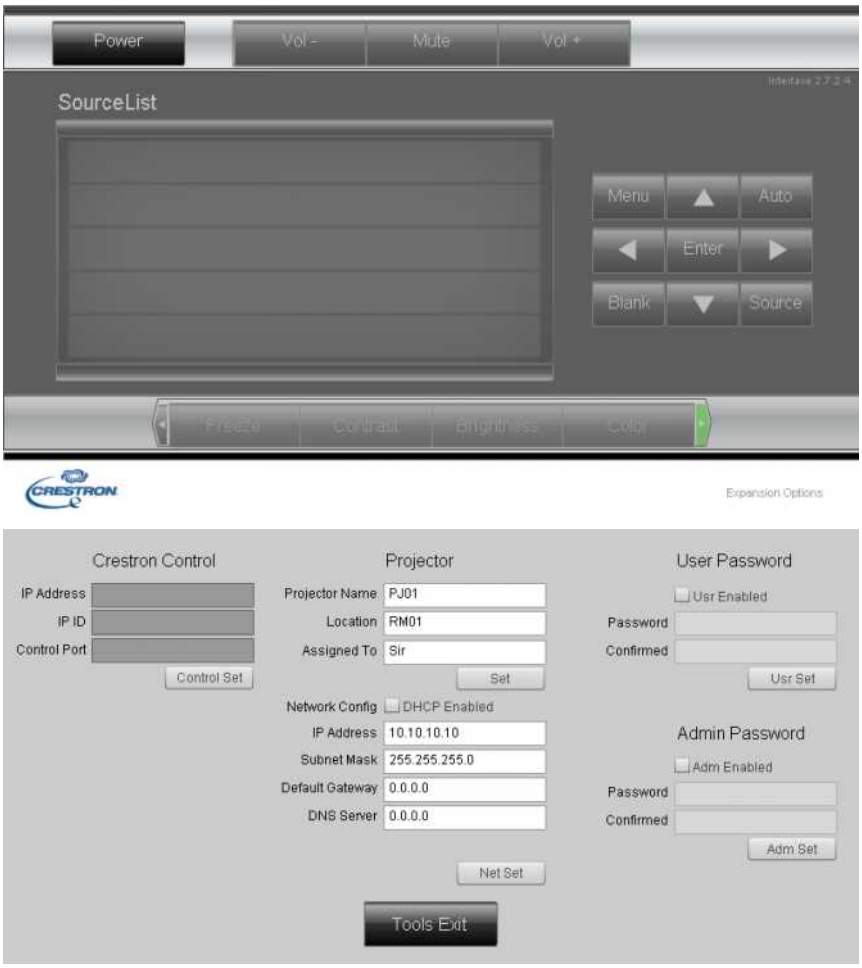
7. Press the **Menu** button on the projector.
8. Select **Settings2**→ **Advanced1** → **Network**
9. After getting into **Network**, input the following:
   - DHCP: Off
   - IP Address: 10.10.10.10
   - Subnet Mask: 255.255.255.0
   - Gateway: 0.0.0.0
   - DNS Server: 0.0.0.0
10. Press ↵ (Enter) / ► to confirm settings.

    Open a web browser
    (for example, Microsoft Internet Explorer with Adobe Flash Player 9.0 or higher).



11. In the Address bar, input the IP address: 10.10.10.10.
12. Press ↵ (Enter) / ►.

    The projector is setup for remote management. The LAN/RJ45 function displays as follows.



CATEGORY	ITEM	INPUT-LENGTH
Crestron Control	IP Address	15
	IP ID	3
	Port	5
Projector	Projector Name	10
	Location	10
	Assigned To	10
Network Configuration	DHCP (Enabled)	(N/A)
	IP Address	15
	Subnet Mask	15
	Default Gateway	15
	DNS Server	15
User Password	Enabled	(N/A)
	New Password	10
	Confirm	10
Admin Password	Enabled	(N/A)
	New Password	10
	Confirm	10

For more information, please visit http://www.crestron.com.

Preparing Email Alerts

1. Make sure that user can access the homepage of LAN RJ45 function by web browser (for example, Microsoft Internet Explorer v6.01/v8.0).
2. From the Homepage of LAN/RJ45, click **Alert Settings**.

3. By default, these input boxes in **Alert Setting**s are blank.

4. For Sending alert mail, input the following:

   The **SMTP** field is the mail server for sending out email (SMTP protocol). This is a required field.

   The **To** field is the recipient's email address (for example, the projector administrator). This is a required field.

   The **Cc** field sends a carbon copy of the alert to the specified email address. This is an optional field (for example, the projector administrator's assistant).

   The **From** field is the sender's email address (for example, the projector administrator). This is a required field.

   Select the alert conditions by checking the desired boxes.

Note: *Fill in all fields as specified. User can click* ***Send Test Mail*** *to test what setting is correct. For successful sending an e-mail alert, you must select alert conditions and enter a correct e-mail address.*

RS232 by Telnet Function

Besides projector connected to RS232 interface with "Hyper-Terminal" communication by dedicated RS232 command control, there is alternative RS232 command control way, so called "RS232 by TELNET" for LAN/RJ45 interface.

Quick Start-Guide for "RS232 by TELNET"

Check and get the IP-Address on OSD of the projector.

Make sure that laptop/PC can access the web-page of the projector.

Make sure that "Windows Firewall" setting to be disabled in case of "TELNET" function filtering out by laptop/PC.

Start => All Programs => Accessories => Command Prompt

Input the command format like the below:

telnet ttt.xxx.yyy.zzz 23 ("Enter" key pressed)

(**ttt.xxx.yyy.zzz**: IP-Address of the projector)

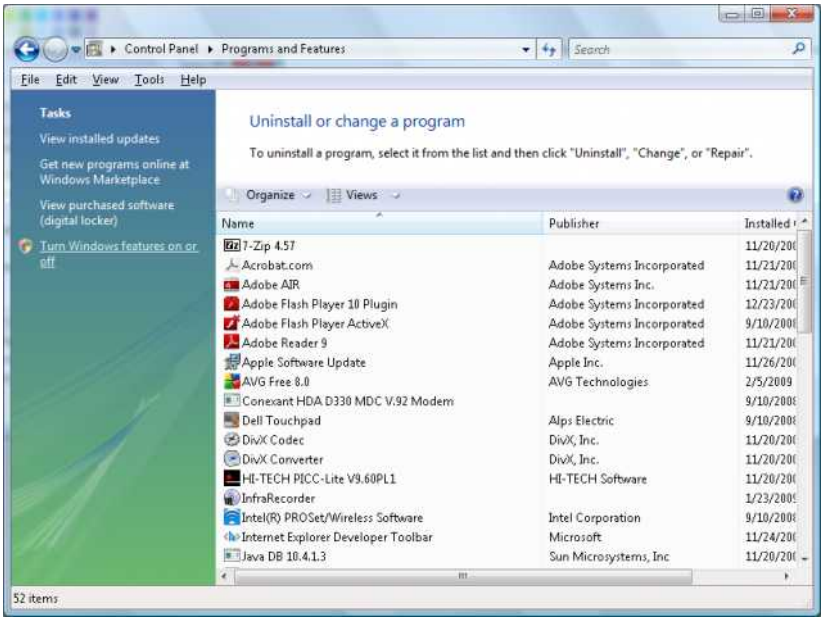
If Telnet-Connection ready, and user can have RS232 command input, then "Enter" key pressed, the RS232 command will be workable.

How to have TELNET enabled in Windows VISTA / 7

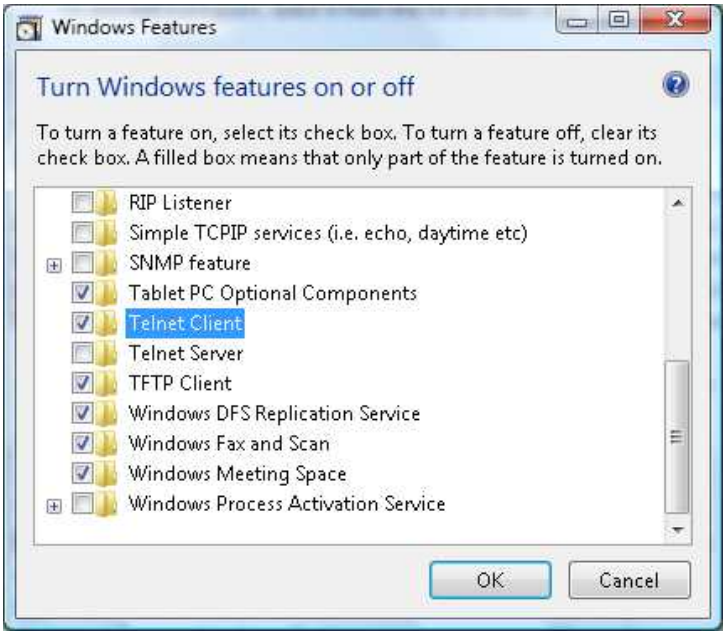
By default installation for Windows VISTA, "TELNET" function is not included. But end-user can have it by way of "Turn Windows features On or Off" to be enabled.

Open "Control Panel" in Windows VISTA

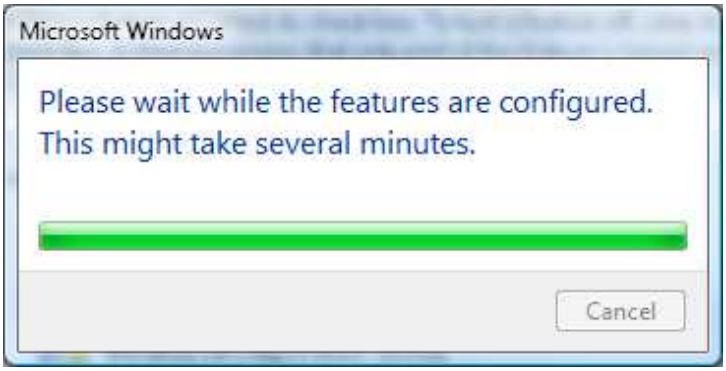
Open "Programs"



Select "Turn Windows features on or off" to open



Have "Telnet Client" option checked, then press "OK" button.



Specsheet for "RS232 by TELNET" :

1. Telnet: TCP
2. Telnet port: 23

   (for more detail, kindly please get contact with the service agent or team)
3. Telnet utility: Windows "TELNET.exe" (console mode)
4. Disconnection for RS232-by-Telnet control normally: Close Windows Telnet utility directly after TELNET connection ready
5. Limitation 1 for Telnet-Control: there is less than 50 bytes for successive network payload for Telnet-Control application.

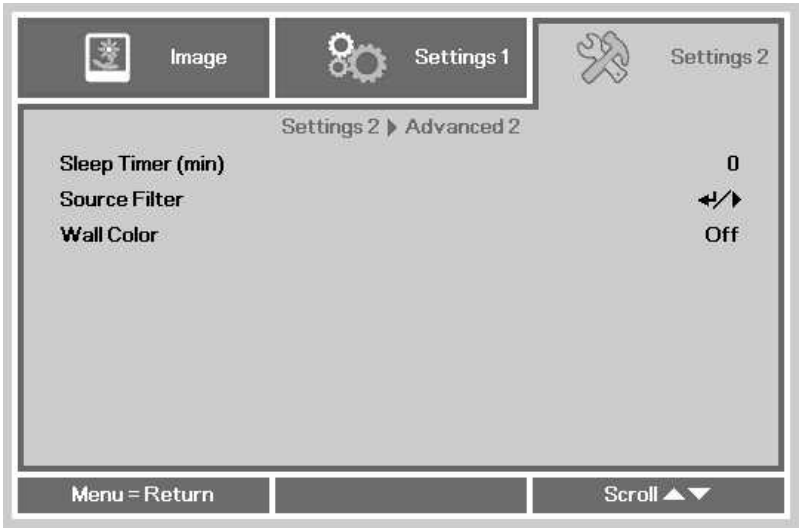
   Limitation 2 for Telnet-Control: there is less than 26 bytes for one complete RS232 command for Telnet-Control.

   Limitation 3 for Telnet-Control: Minimum delay for next RS232 command must be more than 200 (ms).

   (*, In Windows built-in "TELNET.exe" utility, "Enter" key pressed will have "Carriage-Return" and "New-Line" code.)

Advanced 2 Feature

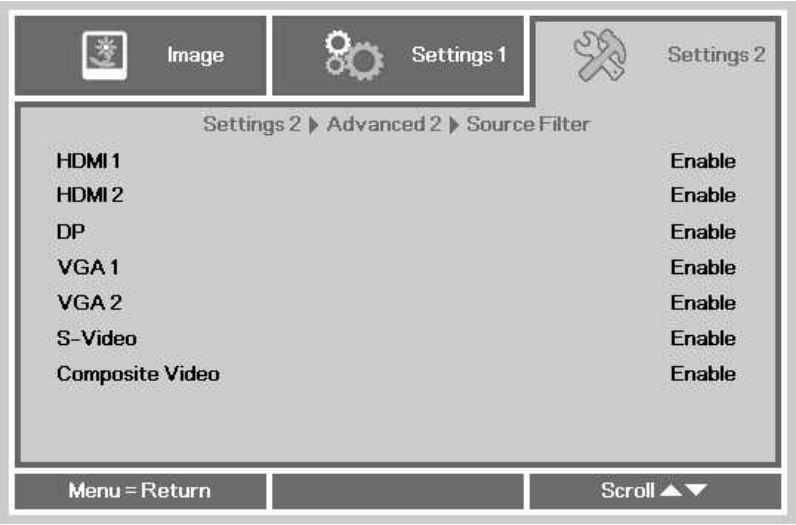
Press the **Menu** button to open the **OSD** menu. Press ◄► to move to the **Settings 2** menu. Press ▲▼ to move to the **Advanced 2** menu and then press **Enter** or ►. Press ▲▼ to move up and down in the **Advanced 2** menu. Press ◄► to enter and change values for setting.



ITEM	DESCRIPTION
Sleep Timer	Press the cursor ◄► button to enter and set Sleep timer. The projector automatically turns off after the preset period of time.
Source Filter	Press ↵ (Enter) / ► to enter the Source Filter menu. See page 47 for more information on *Source Filter.*
Wall Color	Press the cursor ◄► button to enable or disable the wall color function.

Source Filter

Press the **ENTER** button to enter the **Source Filter** sub menu.



ITEM	DESCRIPTION
HDMI 1	Press the cursor ◄► button to enter and enable or disable the HDMI 1 source.
HDMI 2	Press the cursor ◄► button to enter and enable or disable the HDMI 2 source.
DP	Press the cursor ◄► button to enter and enable or disable the DisplayPort source.
VGA 1	Press the cursor ◄► button to enter and enable or disable the VGA1 source.
VGA 2	Press the cursor ◄► button to enter and enable or disable the VGA2 source.
S-Video	Press the cursor ◄► button to enter and enable or disable the S-Video source.
Composite Video	Press the cursor ◄► button to enter and enable or disable the Composite Video source.

Replacing the Projection Lamp

The projection lamp should be replaced when it burns out. It should only be replaced with a certified replacement part, which you can order from your local dealer.

Important:
a. *The projection lamp used in this product contains a small amount of mercury.*
b. *Do not dispose this product with general household waste.*
c. *Disposal of this product must be carried out in accordance with the regulations of your local authority.*

Warning:
Be sure to turn off and unplug the projector at least 30 minutes before replacing the lamp. Failure to do so could result in a severe burn.

Caution:
In rare cases the lamp bulb may burn out during normal operation and cause glass dust or shards to be discharged outward from the rear exhaust vent.

Do not inhale or do not touch glass dust or shards. Doing so could result in injury.

Always keep your face away from the exhaust vent so that you do not suffer from the gas and broken shards of the lamp.

When removing the lamp from a ceiling-mounted projector, make sure that no one is under the projector. Glass fragments could fall if the lamp has been burned out.

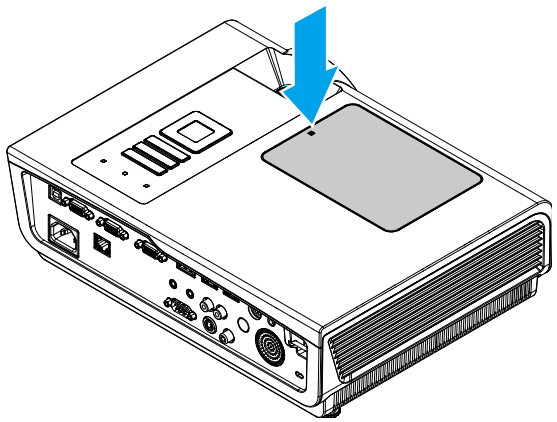
⚠ ***IF A LAMP EXPLODES***

If a lamp explodes, the gas and broken shards may scatter inside the projector and they may come out of the exhaust vent. The gas contains toxic mercury.

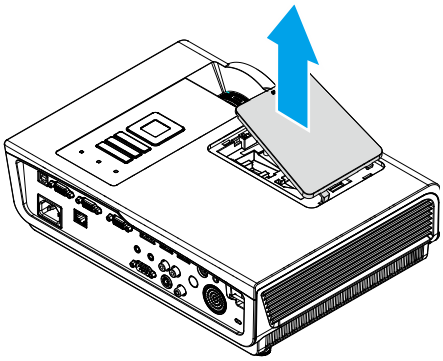
Open windows and doors for ventilation.

If you inhale the gas or the shards of the broken lamp enter your eyes or mouth, consult the doctor immediately.

1. Press the lamp compartment cover down as shown and the cover pops up.

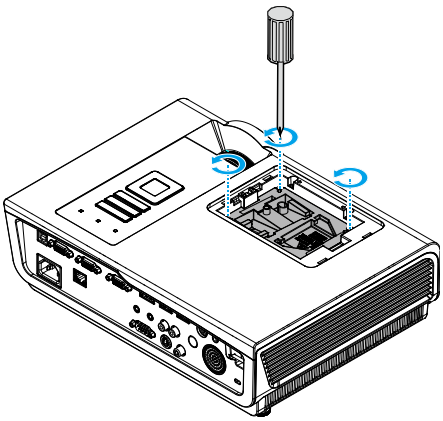


2. Remove the lamp compartment cover.

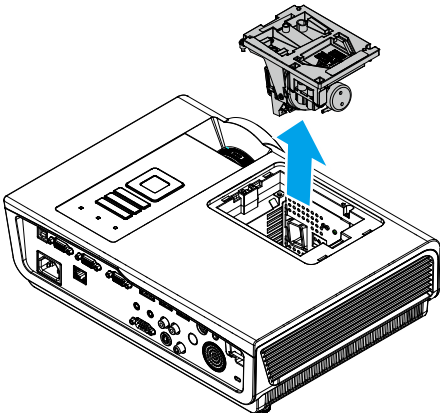


3. Remove the three screws from the lamp module.

4. Lift the module handle up.

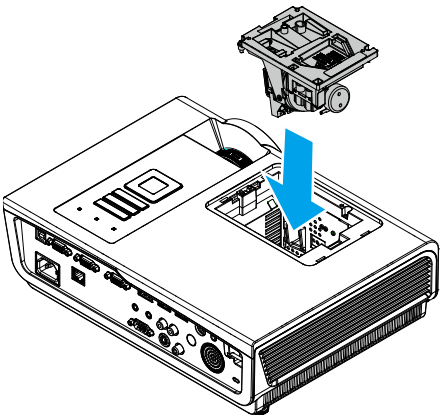


5. Pull firmly on the module handle to remove the lamp module.



6. Reverse steps 1 to 5 to install the new lamp module.
While installing, align the lamp module with the connector and ensure it is level to avoid damage.

Note:
The lamp module must sit securely in place and the lamp connector must be connected properly before tightening the screws.

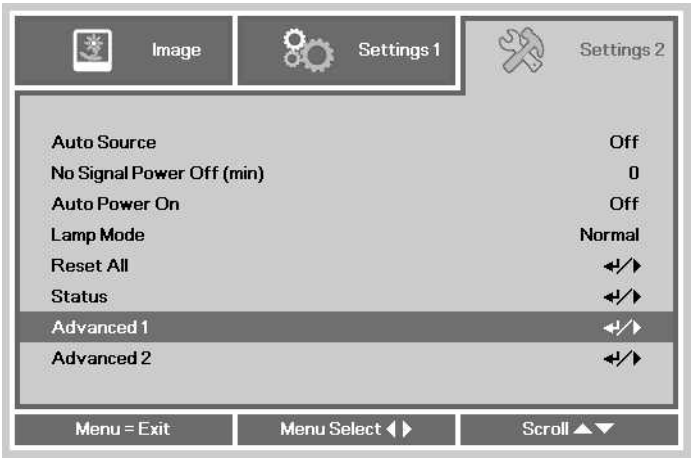


Resetting the Lamp

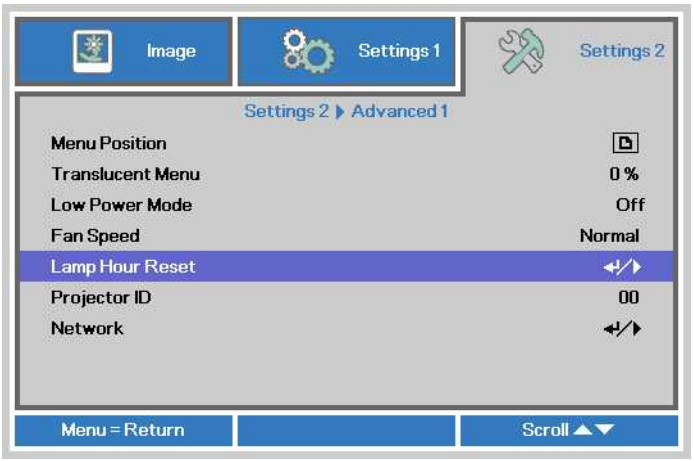
After replacing the lamp, you should reset the lamp hour counter to zero. Refer to the following:

1. Press the **MENU** button to open the OSD menu.

2. Press the cursor ◄► button to move to the **Settings 2** menu. Press the cursor button to move down to **Advanced 1** and press enter.



3. Press the cursor ▼▲ button to move down to **Lamp Hour Reset**.

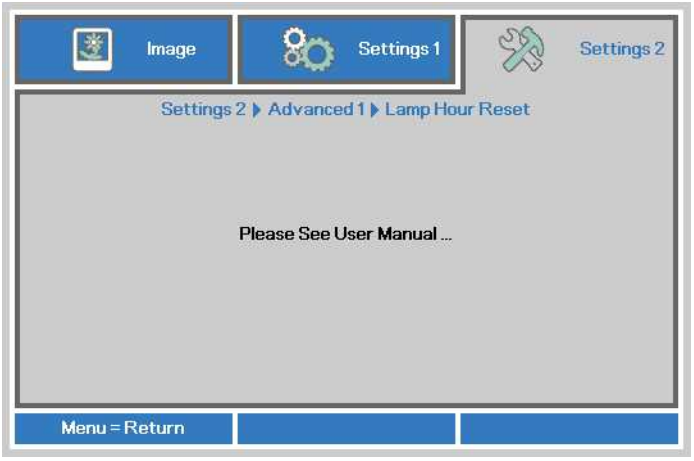


4. Press the cursor ► or Enter button.

A message screen appears.

5. Press ▼▲◄► buttons to reset the lamp hour.

6. Press the **MENU** button to get back to **Settings 2**.



Cleaning the Projector

Cleaning the projector to remove dust and grime will help ensure trouble-free operation.

Warning:
1. *Be sure to turn off and unplug the projector at least 30 minutes before cleaning. Failure to do so could result in a severe burn.*

2. *Use only a dampened cloth when cleaning. Do not allow water to enter the ventilation openings on the projector.*

3. *If a little water gets into the projector interior while cleaning, leave unplugged in a well-ventilated room for several hours before using.*

4. *If a lot of water gets into the projector interior when cleaning, have the projector serviced.*

Cleaning the Lens

You can purchase optic lens cleaner from most camera stores. Refer to the following to clean the projector lens.

1. Apply a little optic lens cleaner to a clean soft cloth. (Do not apply the cleaner directly to the lens.)
2. Lightly wipe the lens in a circular motion.

Caution:
1. *Do not use abrasive cleaners or solvents.*

2. *To prevent discoloration or fading, avoid getting cleaner on the projector case.*

Cleaning the Case

Refer to the following to clean the projector case.

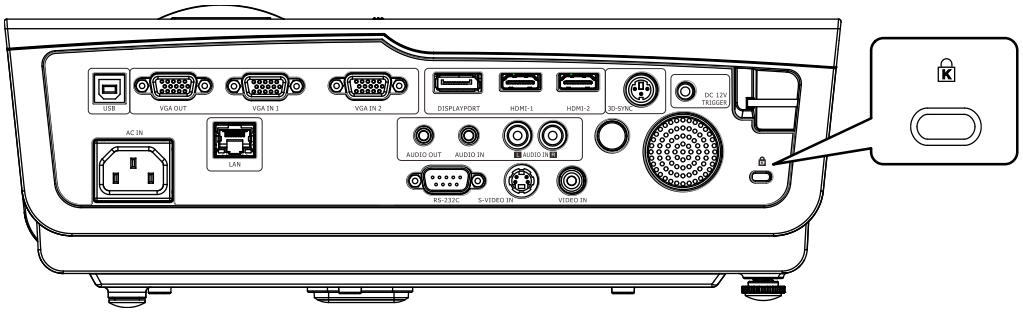
1. Wipe off dust with a clean dampened cloth.
2. Moisten the cloth with warm water and mild detergent (such as used to wash dishes), and then wipe the case.
3. Rinse all detergent from the cloth and wipe the projector again.

Caution:
To prevent discoloration or fading of the case, do not use abrasive alcohol-based cleaners.

Using the Kensington® Lock & Using the Security Bar

Using the Kensington® Lock

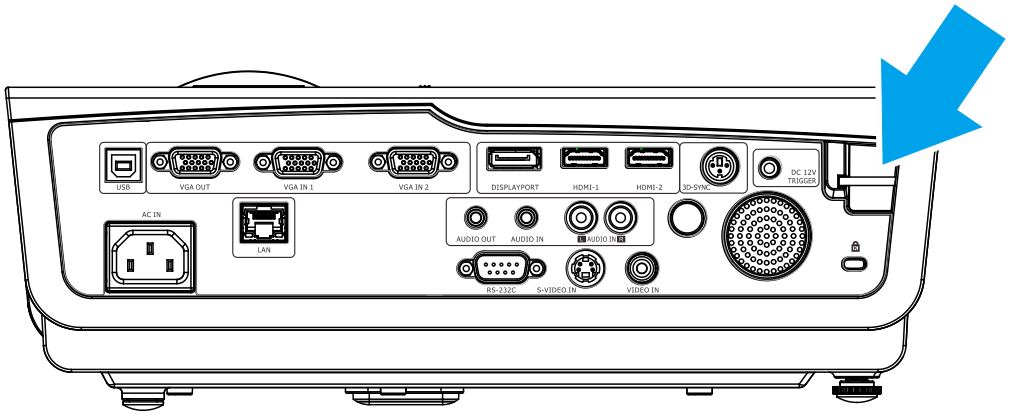
If you are concerned about security, attach the projector to a permanent object with the Kensington slot and a security cable.



Note:
Contact your vendor for details on purchasing a suitable Kensington security cable.
The security lock corresponds to Kensington's MicroSaver Security System. If you have any comment, contact: Kensington, 2853 Campus Drive, San Mateo, CA 94403, U.S.A. Tel: 800-535-4242, http://www.Kensington.com.

Using the Security Bar

In addition to the password protection function and the Kensington lock, the Security Bar helps protect the projector from unauthorized removal. See the following picture.



TROUBLESHOOTING

Common problems and solutions

These guidelines provide tips to deal with problems you may encounter while using the projector. If the problem remains unsolved, contact your dealer for assistance.

Often after time spent troubleshooting, the problem is traced to something as simple as a loose connection. Check the following before proceeding to the problem-specific solutions.

- *Use some other electrical device to confirm that the electrical outlet is working.*
- *Ensure the projector is turned on.*
- *Ensure all connections are securely attached.*
- *Ensure the attached device is turned on.*
- *Ensure a connected PC is not in suspending mode.*
- *Ensure a connected notebook computer is configured for an external display. (This is usually done by pressing an Fn-key combination on the notebook.)*

Tips for Troubleshooting

In each problem-specific section, try the steps in the order suggested. This may help you to solve the problem more quickly.

Try to pin point the problem and thus avoid replacing non-defective parts.
For example, if you replace batteries and the problem remains, put the original batteries back and go to the next step.

Keep a record of the steps you take when troubleshooting: The information may be useful when calling for technical support or for passing on to service personnel.

LED Error Messages

Error Code Messages	Power LED Blue	Temp LED Red	Lamp LED Red
Lamp Ready	ON	OFF	OFF
Start	ON	OFF	OFF
Cooling	ON	OFF	OFF
Over Temperature	OFF	ON	OFF
T1 error	3 blinks	OFF	1 blinks
Thermal Break Sensor error	4 blinks	OFF	OFF
G794 error	4 blinks	OFF	4 blinks
Lamp fail	5 blinks	OFF	OFF
Ballast temp over	5 blinks	OFF	1 blinks
Ballast circuit short	5 blinks	OFF	2 blinks
Lamp End of lamp life detected	5 blinks	OFF	3 blinks
Lamp did not ignite	5 blinks	OFF	4 blinks
Lamp extinguished during normal operation	5 blinks	OFF	5 blinks
Lamp extinguished during run-up phase	5 blinks	OFF	6 blinks
Lamp voltage too low	5 blinks	OFF	7 blinks
Ballast fail	5 blinks	OFF	8 blinks
Ballast communication fail	5 blinks	OFF	10 blinks
Ballast over temp	5 blinks	OFF	11 blinks
Restrike lamp fail 1	5 blinks	OFF	12 blinks
Restrike lamp fail 2	5 blinks	OFF	13 blinks
Lamp fail 1	5 blinks	OFF	14 blinks
Lamp fail 2	5 blinks	OFF	15 blinks
Fan 1 error	6 blinks	OFF	1 blinks
Fan 2 error	6 blinks	OFF	2 blinks
Fan 3 error	6 blinks	OFF	3 blinks
Fan 4 error	6 blinks	OFF	4 blinks
Case Open	7 blinks	OFF	OFF
DMD error	8 blinks	OFF	OFF
Color wheel error	9 blinks	OFF	OFF

In the event of an error, please disconnect the AC power cord and wait for one (1) minute before restarting the projector. If the Power or Lamp LEDs are still blinking or any other situation that isn't listed in the chart above, please contact your service center.

Image Problems

Problem: No image appears on the screen

1. Verify the settings on your notebook or desktop PC.
2. Turn off all equipment and power up again in the correct order.

Problem: The image is blurred

1. Adjust the **Focus** on the projector.

2. Press the **Auto** button on the remote control.
3. Ensure the projector-to-screen distance is within the specified range.
4. Check that the projector lens is clean.

Problem: The image is wider at the top or bottom (trapezoid effect)

1. Position the projector so it is as perpendicular to the screen as possible.
2. Use the **Keystone** button on the remote control to correct the problem.

Problem: The image is reversed

Check the **Projection** setting on the **Settings 1** menu of the OSD.

Problem: The image is streaked

1. Set the **Frequency** and **Tracking** settings on the **Image->Computer** menu of the OSD to the default settings.
2. To ensure the problem is not caused by a connected PC's video card, connect to another computer.

Problem: The image is flat with no contrast

Adjust the **Contrast** setting on the **Image** menu of the OSD.

Problem: The color of the projected image does not match the source image.

Adjust the **Color Temperature** and **Gamma** settings on the **Image->Advanced** menu of the OSD.

Lamp Problems

Problem: There is no light from the projector

1. Check that the power cable is securely connected.
2. Ensure the power source is good by testing with another electrical device.
3. Restart the projector in the correct order and check that the Power LED is on.
4. If you have replaced the lamp recently, try resetting the lamp connections.
5. Replace the lamp module.
6. Put the old lamp back in the projector and have the projector serviced.

Problem: The lamp goes off

1. Power surges can cause the lamp to turn off. Re-plug power cord. When the Power LED is on, press the power button.
2. Replace the lamp module.
3. Put the old lamp back in the projector and have the projector serviced.

Remote Control Problems

Problem: The projector does not respond to the remote control

1. Direct the remote control towards remote sensor on the projector.
2. Ensure the path between remote and sensor is not obstructed.
3. Turn off any fluorescent lights in the room.
4. Check the battery polarity.
5. Replace the battery.
6. Turn off other Infrared-enabled devices in the vicinity.
7. Have the remote control serviced.

Audio Problems

Problem: There is no sound

1. Adjust the volume on the remote control.
2. Adjust the volume of the audio source.
3. Check the audio cable connection.
4. Test the source audio output with other speakers.
5. Have the projector serviced.

Problem: The sound is distorted

1. Check the audio cable connection.
2. Test the source audio output with other speakers.
3. Have the projector serviced.

Having the Projector Serviced

If you are unable to solve the problem, you should have the projector serviced. Pack the projector in the original carton. Include a description of the problem and a checklist of the steps you took when trying to fix the problem: The information may be useful to service personnel. For servicing, return the projector to the place you purchased it.

HDMI Q & A

Q. What is the difference between a "Standard" HDMI cable and a "High-Speed" HDMI cable?

Recently, HDMI Licensing, LLC announced that cables would be tested as Standard or High-Speed cables.

- Standard (or "category 1") HDMI cables have been tested to perform at speeds of 75Mhz or up to 2.25Gbps, which is the equivalent of a 720p/1080i signal.
- High Speed (or "category 2") HDMI cables have been tested to perform at speeds of 340Mhz or up to 10.2Gbps, which is the highest bandwidth currently available over an HDMI cable and can successfully handle 1080p signals including those at increased color depths and/or increased refresh rates from the Source. High-Speed cables are also able to accommodate higher resolution displays, such as WQXGA cinema monitors (resolution of 2560 x 1600).

Q. How do I run HDMI cables longer than 10 meters?

There are many HDMI Adopters working on HDMI solutions that extend a cable's effective distance from the typical 10 meter range to much longer lengths. These companies manufacture a variety of solutions that include active cables (active electronics built into cables that boost and extend the cable's signal), repeaters, amplifiers as well as CAT5/6 and fiber solutions.

Q. How can I tell if a cable is an HDMI certified cable?

All HDMI products are required to be certified by the manufacturer as part of the HDMI Compliance Test Specification. However, there may be instances where cables bearing the HDMI logo are available but have not been properly tested. HDMI Licensing, LLC actively investigates these instances to ensure that the HDMI trademark is properly used in the market. We recommend that consumers buy their cables from a reputable source and a company that is trusted.

For more detail information check http://www.hdmi.org/learningcenter/faq.aspx#49

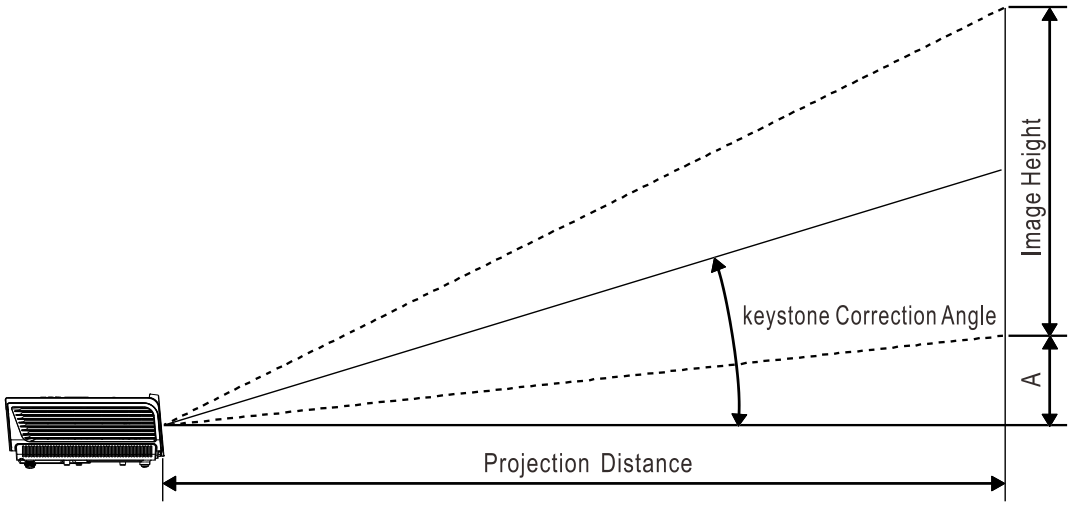
SPECIFICATIONS

Specifications

Model	EK-400X	EK-401W	EK-402U
Display type	DMD, 0.7" XGA, Type A	DMD, 0.65" WXGA, S450	DMD, 0.67" WUXGA, Type A
Resolution	XGA (1024 x 768)	WXGA (1280 x 800)	WUXGA(1920×1200)
Projection distance	1.2 - 10 m		
Projection screen size	27.6" – 344.6"	25.7" ~ 320.9"	26.7" - 334"
Projection lens	Manual Focus / Zoom		
Zoom ratio	1.5x		
Vertical keystone correction	+/- 40 Degree		
Projection methods	Front, Rear, Desktop/Ceiling (Rear, Front)		
Data compatibility	VGA, SVGA, XGA, WXGA, SXGA, SXGA+, UXGA, WUXGA, Mac		
SDTV/EDTV/ HDTV	480i, 576i, 480p, 576p, 720p, 1080i, 1080p		
Video compatibility	NTSC, PAL, SECAM		
H-Sync	15, 31~102KHz		
V-Sync	24~30Hz, 47~120Hz		
Safety Certification	FCC-B, UL, CUL, CE, , CCC, KC, KCC, EAC		
Operation temperature	5° ~ 35°C		
Dimensions	334 mm (W) x 256.9 mm (D) x 120.8 mm		
AC Input	AC Universal 100-240V		
Power consumption	300W (ECO), 370W (Normal), <0.5W(Stand By), <2W (on by Lan)		
Lamp	245W (Eco), 310W (Normal)		
Audio speaker	3W mono		
Input Terminals	VGA IN x 2		
	Display Port x 1		
	Composite x 1		
	S-Video x 1		
	HDMI x 2		
	Audio-In RCA (L/R) x 1		
	Audio-In (Mini-Jack) x 1		
Output Terminals	VGA-Out (15pin D-Sub) x 1 (only from VGA1)		
	Audio-Out (Mini-Jack) x 1		
Control Terminals	RS-232C		
	3D sync		
	Screen trigger: DC Jack x 1 (DC12V 200mA output function)		
	USB (Type mini B) - service only		
	RJ45		
Security	Kensington lock / Security Bar		

Note: *For questions regarding product specifications, please contact your local distributor.*

Projection Distance vs. Projection Size



Projection Distance and Size Table

EK-400X

Diagonal length	Screen Size				Projection distance				Offset (A)
	Width		Height		Wide		Tele		
(inch)	(inch)	(cm)	(inch)	(cm)	(inch)	(cm)	(inch)	(cm)	(mm)
30	24.0	61.0	18.0	45.7	--	--	51.4	130.6	54.9
40	32.0	81.3	24.0	61.0	--	--	68.5	174.1	73.2
60	48.0	121.9	36.0	91.4	68.5	174.1	102.8	261.2	109.7
80	64.0	162.6	48.0	121.9	91.4	232.1	137.1	348.2	146.3
100	80.0	203.2	60.0	152.4	114.3	290.2	171.4	435.3	182.9
120	96.0	243.8	72.0	182.9	137.1	348.2	205.6	522.3	219.5
140	112.0	284.5	84.0	213.4	159.9	406.2	239.9	609.4	256.0
160	128.0	325.1	96.0	243.8	182.8	464.3	274.2	696.4	292.6
190	152.0	386.1	114.0	289.6	217.0	551.3	325.6	827.0	347.5
220	176.0	447.0	132.0	335.3	251.3	638.4	377.0	957.6	402.3
280	224.0	569.0	168.0	426.7	319.9	812.5	--	--	512.1
300	240.0	609.6	180.0	457.2	342.7	870.5	--	--	548.6

Note:
The values in the tables are approximate and may be slightly different from the actual measurements.
In case of ceiling mount, it is necessary to match at the spot.

EK-401W

Diagonal length (inch)	Screen Size				Projection distance				Offset (A)
	Width		Height		Wide		Tele		
(inch)	(inch)	(cm)	(inch)	(cm)	(inch)	(cm)	(inch)	(cm)	(mm)
30	25.4	64.5	15.9	40.4	--	--	55.2	140.2	46.4
40	33.9	86.1	21.2	53.8	49.1	124.7	73.6	187.0	61.9
60	50.9	129.3	31.8	80.8	73.6	187.0	110.4	280.4	92.9
80	67.8	172.2	42.4	107.7	98.1	249.3	147.2	373.9	123.9
100	84.8	215.4	53.0	134.6	122.7	311.7	184.0	467.4	154.8
120	101.8	258.6	63.6	161.5	147.2	374.0	220.8	560.9	185.8
140	118.7	301.5	74.2	188.5	171.8	436.3	257.6	654.4	216.7
160	135.7	344.7	84.8	215.4	196.3	498.7	294.4	747.8	247.7
190	161.1	409.2	100.7	255.8	233.1	592.2	349.6	888.1	294.1
210	178.1	452.4	111.3	282.7	257.7	654.5	386.4	981.5	325.1
280	237.4	603.0	148.4	376.9	343.6	872.7	--	--	433.5
300	254.4	646.2	159.0	403.9	368.1	935.0	--	--	464.4

EK-402U

Diagonal length (inch)	Screen Size				Projection distance				Offset (A)
	Width		Height		Wide		Tele		
(inch)	(inch)	(cm)	(inch)	(cm)	(inch)	(cm)	(inch)	(cm)	(mm)
30	25.4	64.5	15.9	40.4	--	--	53.2	135.1	88.8
40	33.9	86.1	21.2	53.8	47.4	120.5	70.9	180.1	118.5
60	50.9	129.3	31.8	80.8	71.1	180.7	106.3	270.1	177.7
80	67.8	172.2	42.4	107.7	94.8	240.9	141.8	360.1	236.9
100	84.8	215.4	53.0	134.6	118.5	301.1	177.2	450.2	296.2
120	101.8	258.6	63.6	161.5	142.2	361.3	212.7	540.2	355.4
140	118.7	301.5	74.2	188.5	166.0	421.6	248.1	630.2	414.6
160	135.7	344.7	84.8	215.4	189.7	481.8	283.6	720.3	473.9
190	161.1	409.2	100.7	255.8	225.2	572.1	336.7	855.3	562.7
220	186.6	474.0	116.6	296.2	260.8	662.5	389.9	990.4	651.6
280	237.4	603.0	148.4	376.9	331.9	843.1	--	--	829.3
300	254.4	646.2	159.0	403.9	355.7	903.4	--	--	888.5

Note:
The values in the tables are approximate and may be slightly different from the actual measurements.
In case of ceiling mount, it is necessary to match at the spot.

Timing Mode Table

SIGNAL	RESOLUTION	H-SYNC (KHZ)	V-SYNC (HZ)	COMPOSITE S-VIDEO	COMPONENT	RGB (ANALOG)	DP/HDMI (DIGITAL)
NTSC	–	15.734	60	○	–	–	–
PAL/SECAM	–	15.625	50	○	–	–	–
VESA	720 x 400	31.5	70.1	–	–	○	○
	720 x 400	37.9	85.04	–	–	○	○
	640 x 480	31.5	60.0	–	–	○	○
	640 x 480	37.9	72.8	–	–	○	○
	640 x 480	37.5	75.0	–	–	○	○
	640 x 480	43.3	85.0	–	–	○	○
	800 x 600	35.2	56.3	–	–	○	○
	800 x 600	37.9	60.3	–	–	○	○
	800 x 600	46.9	75.0	–	–	○	○
	800 x 600	48.1	72.2	–	–	○	○
	800 x 600	53.7	85.1	–	–	○	○
	800 x 600	76.3	120.0	–	–	○	○
	1024 x 768	48.4	60.0	–	–	○	○
	1024 x 768	56.5	70.1	–	–	○	○
	1024 x 768	60.0	75.0	–	–	○	○
	1024 x 768	68.7	85.0	–	–	○	○
	1024 x 768	97.6	120.0	–	–	○	○
	1152 x 864	67.5	75.0	–	–	○	○
	1280 x 720	45.0	60.0	–	–	○	○
	1280 x 720	90.0	120.0	–	–	○	○
	1280 x 768	47.4	60.0	–	–	○	○
	1280 x 768	47.8	59.9	–	–	○	○
	1280 x 800	49.7	59.8	–	–	○	○
	1280 x 800	62.8	74.9	–	–	○	○
	1280 x 800	71.6	84.9	–	–	○	○
	1280 x 800	101.6	119.9	–	–	○	○
	1280 x 1024	64.0	60.0	–	–	○	○
	1280 x 1024	80.0	75.0	–	–	○	○
	1280 x 1024	91.1	85.0	–	–	○	○
	1280 x 960	60.0	60.0	–	–	○	○
	1280 x 960	85.9	85.0	–	–	○	○
	1366 x 768	47.7	60.0	–	–	○	○
	1400 x 1050	65.3	60.0	–	–	○	○
	1440 x 900	55.9	60.0	–	–	○	○

SIGNAL	RESOLUTION	H-SYNC (KHZ)	V-SYNC (HZ)	COMPOSITE S-VIDEO	COMPONENT	RGB (ANALOG)	DP/HDMI (DIGITAL)
	1440 x 900	70.6	75.0	—	—	○	○
	1600 x1200	75.0	60	—	—	○	○
	1680 x 1050	64.7	59.9	—	—	○	○
	1680 x 1050	65.3	60.0	—	—	○	○
	1920 x 1200	74.0	60.0	—	—	○	○
	1920 x 1080	67.5	60.0	—	—	○	○
Apple Macintosh	640 x 480	35.0	66.7	—	—	○	○
	832 x 624	49.7	74.5	—	—	○	○
	1024 x 768	60.2	74.9	—	—	○	○
	1152 x 870	68.7	75.1	—	—	○	○
SDTV	480i	15.734	60.0	—	○	—	○
	576i	15.625	50.0	—	○	—	○
EDTV	576p	31.3	50.0	—	○	—	○
	480p	31.5	60.0	—	○	—	○
HDTV	720p	37.5	50.0	—	○	—	○
	720p	45.0	60.0	—	○	—	○
	1080i	33.8	60.0	—	○	—	○
	1080i	28.1	50.0	—	○	—	○
	1080p	27	24.0	—	○	—	○
	1080p	28	25.0	—	○	—	○
	1080p	33.7	30.0	—	○	—	○
	1080p	56.3	50.0	—	○	—	○
	1080p	67.5	60.0	—	○	—	○

O：Frequency supported

—：Frequency not supported

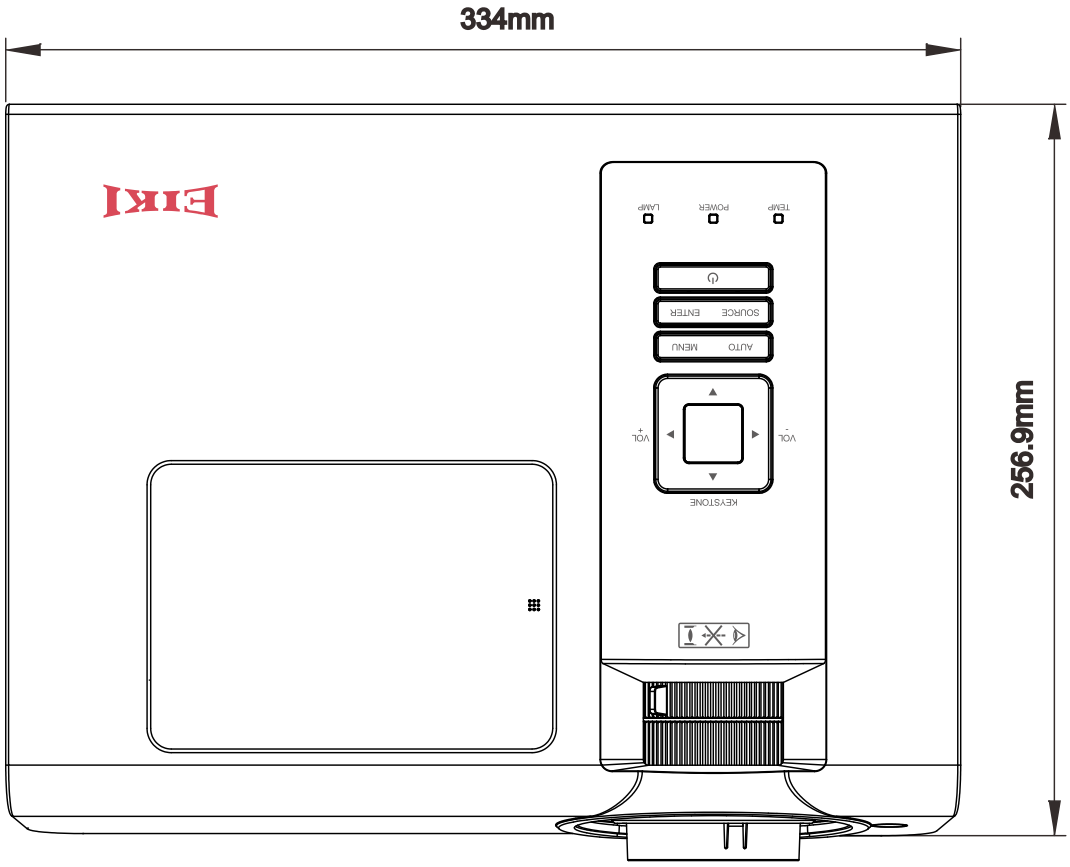
★The native resolution of the panel is 1920x1080 (1080P) / 1024x768(XGA)
Resolution others than native resolution may be display with uneven size of text or line

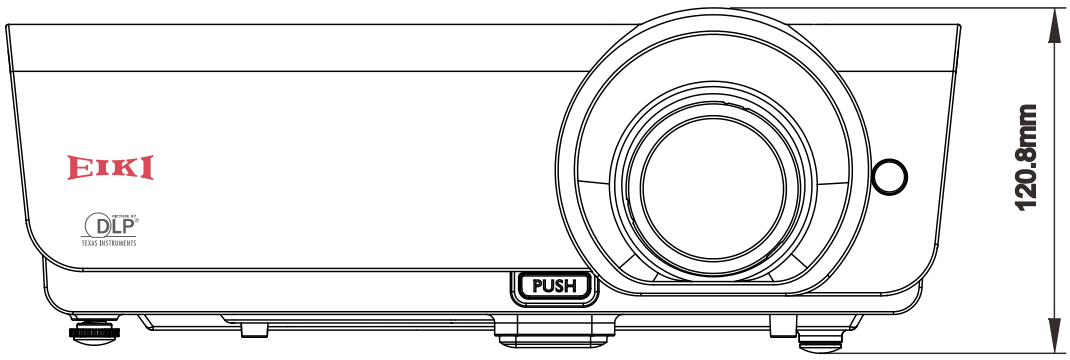
★The color of mean Displayable only. (4:3 only)

★The color of mean may have a little noise is acceptable. Because video mode sync don't auto adjustment.

★HDTV timing main check tool is DVD player, VG828 is secondary

Projector Dimensions





REGULATORY COMPLIANCE

FCC Warning

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference 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/her own expense.

Changes or modifications not expressly approved by the parties responsible for compliance could void the user's authority to operate the equipment.

Canada

This class B digital apparatus complies with Canadian ICES-003.

Safety Certifications

FCC-B, UL, cUL, CE, , CCC, KC, KCC, EAC

U.S.A.

EIKI International, Inc.
30251 Esperanza
Rancho Santa Margarita
CA 92688-2132
U.S.A.
Tel: 800-242-3454 (949)-457-0200
Fax: 800-457-3454 (949)-457-7878
E-Mail: usa@eiki.com

Canada

EIKI CANADA - Eiki International, Inc.
P.O. Box 156, 310 First St. - Unit 2,
Midland, ON, L4R 4K8, Canada
Tel: 800-563-3454 (705)-527-4084
E-Mail: canada@eiki.com

Deutschland & Österreich

EIKI Deutschland GmbH
Am Frauwald 12
65510 Idstein
Deutschland
Tel: +49-6126-9371-0
Fax: +49-6126-9371-14
E-Mail: info@eiki.de

Eastern Europe

EIKI CZECH SPOL. s.r.o.
Nad Cementárnou 1163/4a
Praha 4, Podolí
147 00
Czech Republic
Tel: +420 241 410 928
+420 241 403 095
Fax: +420 241 409 435
E-Mail: info@eiki.cz

South East Asia

EIKI Industrial (M) Sdn Bhd
No. 11, Nouvelle Industrial Park,
Lorong Teknologi B, Taman Sains
Selangor 1, Kota Damansara PJU5,
47810 Petaling Jaya, Selangor Darul Ehsan,
Malaysia
Tel: +603-6157-9330
Fax: +603-6157-1320
E-Mail: sales@eiki.my

Oceania

EIKI AUSTRALIA PTY LTD
Level 5, 11 Queens Road,
Melbourne, Victoria 3004
Tel: +61 (03) 8530 7048
Fax: +61(03) 9820 5834
E-Mail: sales@eiki.net.au

China

EIKI (Shanghai) Co., Ltd.
LAKESIDE OASIS MIDDLE RING
BUSINESS CENTRE
Block 1,Room 606,
1628, Jin Sha Jiang Road
Shanghai, 200333
CHINA
Tel: 86-21-3251-3993
Service Hot line: 86-21-3251-3995
Fax: 86-21-3251-3997
E-mail: info@eiki-china.com

Japan & Worldwide

EIKI Industrial Company Limited.
6-23 Teramoto, Itami-shi, Hyogo,
664-0026 JAPAN
Tel: +81-72-782-7492
Fax: +81-72-781-5435

WorldWide Website http://www.eiki.com