



# MULTIMEDIA PROJECTOR LV-8235 UST

## User's Manual



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# Features and Design

This Multimedia Projector is designed with the most advanced technology for portability, durability, and ease of use.

## ◆ Large Screen in Limited Space

Short focus lens allows you to project large images from short distance. (p.17)

## ◆ 3D Display Function

This projector is capable of displaying 3D video with the Frame Sequential Format\*, and you can view the dynamic 3D contents by wearing 3D glasses (pp.31, 50-51, 54).

\* *The compatible 3D image signal is only **Frame Sequential** format. The **Frame Packing** and **Side-by-side** formats are not supported. **Active Shutter** format 3D glasses are required to view projected images in 3D. (DLP Link and IR formats are compatible.)*

## ◆ Compact Design

This projector is designed compact in size and weight, and it can be installed overhead without interfering with the view, or can be installed on the floor without much space.

## ◆ Multilanguage Menu Display

The Operation menu is available in 24 languages: English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Finnish, Norwegian, Danish, Polish, Hungarian, Romanian, Russian, Brazilian Portuguese, Turkish, Arabic, Kazakh, Simplified Chinese, Traditional Chinese, Korean, Japanese and Thai. (p.52)

## ◆ Helpful Maintenance Functions

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

## ◆ Direct Power Off Function

With the Direct Power Off function, you can disconnect the power cord from the wall outlet or turn off the breaker even during projection (p.24).

## ◆ Auto Setup Function

This function enables Auto input and Auto PC adjustment by simply pressing the AUTO SET button (pp.28, 53).

## ◆ Switchable Interface Terminal

The projector provides a switchable interface terminal. You can use the terminal as computer input or monitor output conveniently. (p.58)

## ◆ Digital Zoom (for Computer)

The digital zoom function allows you to focus on crucial information during a presentation. You can expand the images approx. 16 times the screen size and compress them to approximately a quarter of the screen size. (p.41)

## ◆ Colorboard Function

At the time of simple projection on colored wall or school blackboard (The board color is limited to green.), 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 colors. (pp.42, 49)

## ◆ Power Management Mode

The Power management mode function reduces power consumption and maintains lamp life. (p.59)

## ◆ Security Features

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 controller (p.61). PIN code lock function prevents unauthorized use of the projector (pp.23, 61–62).

## ◆ Logo Function

The Logo function allows you to customize the screen logo. The Logo page identifies the owner of the projector. (pp.55-57)

## ◆ Simple Computer System Setting

The projector has a Multi-scan system to conform to almost all computer output signals quickly. (p.34)

## ◆ Closed caption

Closed Caption is a function that displays the audio portion of a TV program as text on the screen. The closed captioning service is available mainly in the U.S. You can turn on the feature and switch the channels. (p.60)

## ◆ LAN Network Function

This projector is loaded with the Wired function. You can manage the projector via network. For details, refer to the user's manual "Network Set-up and Operation."

### ✓ Note:

- The On-Screen Menu and figures in this manual may differ slightly from the product.
- The contents of this manual are subject to change without notice.

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# To the Owner

Before installing and operating this projector, read this manual thoroughly.

This projector provides many convenient features and functions.

Operating the projector properly enables you to manage those features and maintains it in good condition for many years to come. Improper operation may result in not only shortening the product-life, but also malfunctions, fire hazard, or other accidents.


If your projector seems to operate improperly, read this manual again, check operations and cable connections and try the solutions in the "Troubleshooting" section on pages 71-73 of this manual. If the problem still persists, contact the dealer where you purchased the projector or the service center.

 <b>CAUTION</b>  <b>RISK OF ELECTRIC SHOCK</b> <b>DO NOT OPEN</b>
<b>CAUTION:</b> <b>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.</b>
 <b>THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT.</b>
 <b>THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE USER'S MANUAL WITH THIS UNIT.</b>

**CAUTION**

Not for use in a computer room as defined in the Standard for the Protection of Electronic Computer/Data Processing Equipment, ANSI/NFPA 75.

**NOTE FOR CUSTOMERS IN THE US**

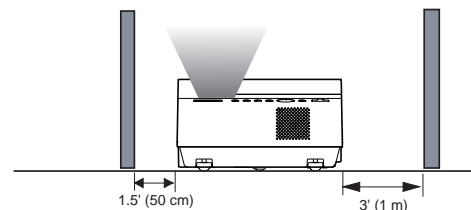
 LAMP(S) INSIDE THIS PRODUCT CONTAIN MERCURY AND MUST BE RECYCLED OR DISPOSED OF ACCORDING TO LOCAL, STATE OR FEDERAL LAWS.



## Safety Precaution

### WARNING:

- **THIS APPARATUS MUST BE EARTHED.**
  - **TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**
- This projector produces intense light from the projection lens. Do not stare directly into the lens, otherwise eye damage could result. Be especially careful that children do not stare directly into the beam.
  - Install the projector in a proper position. Improper positioning may reduce the lamp life and result in severe accident or fire hazard.
  - Allowing the proper amount of space on the top, sides, and rear of the projector cabinet is critical for proper air circulation and cooling of the unit. The dimension shown here indicate the minimum space required. If the projector is to be built into a compartment or similarly enclosed, these minimum distances must be maintained.



- Do not cover the ventilation slot on the projector. Heat build-up can reduce the service life of your projector, and can also be dangerous.
- If the projector is unused for an extended time, unplug the projector from the power outlet.

**DO NOT SET THE PROJECTOR IN GREASY, WET, OR SMOKY CONDITIONS SUCH AS IN A KITCHEN TO PREVENT A BREAKDOWN OR A DISASTER. IF THE PROJECTOR COMES IN CONTACT WITH OIL OR CHEMICALS, IT MAY BECOME DETERIORATED.**

**READ AND KEEP THIS USER'S MANUAL FOR LATER USE.**

# Safety Instructions

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.

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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 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.



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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 built-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:

- a. When the power cord or plug is damaged or frayed.
- b. If liquid has been spilled into the projector.
- c. If the projector has been exposed to rain or water.
- d. 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.
- e. If the projector has been dropped or the cabinet has been damaged.
- f. 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.



### **WARNING**

Immediately turn the power off, unplug the projector, and contact your dealer under the following conditions, otherwise a fire or an electric shock may result.

- If smoke comes out from it.
- If it emits a strange odor, or makes a strange noise.
- If lamp goes out with a loud bang.
- If water or any other liquid gets into it.
- If metal or foreign objects get inside it.
- If it is knocked down or dropped and the cabinet is broken.

### **WARNING**

Follow the instructions below when using the power cable, otherwise a fire, an electric shock, or injury may result.

- Do not place heavy objects on the power cord or position the power cord under the projector. Doing so may damage the power cord.
- Do not run the power cord under a carpet. As it goes unnoticed, excessive load may be applied on the cord unintentionally.
- Do not modify, bend forcibly, twist, or pull the power cord.
- Do not place the power cord near heat generating equipment or heat it.
- Do not bend, wind, or bind excessively the power cord when using it.
- Be sure to connect the projector to a grounded outlet. Failure to do so may result in an electric shock.
- Do not continue to use a damaged power cord. If the power cord is damaged, take it to your dealer and have it replace.
- Use only the supplied power cord.

### **WARNING**

Follow the instructions below when handling the power plug or connector, otherwise a fire, an electric shock, or injury may result.

- Use the projector within the voltage range specified on the projector (AC 100 V– 240 V).
- Insert the power plug or connector into the power outlet firmly. Do not use a damaged or loosen power plug or connector.
- Be sure to hold the power cord plug or connector when disconnecting it from the power outlet. If the power cord itself is pulled, it may be damaged.
- Do not plug or unplug the power cord with wet hands.
- Disconnect the power cord from the power outlet before cleaning the projector.
- Do not stick metal objects into the electrical contacts of the power plug or connector.

- When an extension cord is necessary, be sure that the total current load of all equipment connected to the extension cord does not exceed the specified rating of the extension cord.
- Periodically unplug the power cord and remove the dust that builds up on the power cord or connector.

### **WARNING**

Follow the instructions below to install or handle the projector. Otherwise, a fire, an electric shock, or injury may result.

- Do not touch the projector, power cord, or cables when lighting begins.
- Do not use the projector in a bathroom or shower room.
- Do not expose the projector to rain, snow, or use near water.
- Do not insert metal objects into the projector through the air vents.
- Do not place the containers with water on the projector.
- Do not install in the locations exposed to oily vapors or smoke (e.g., near a cooking table or humidifier).
- Before moving the projector, turn the power off and disconnect the power cord and all cables.
- Do not put spray cans in front of the exhaust vent. When spray cans are exposed to heat, the pressure in them will increase and explode.
- Do not open nor remove the cabinet. There are high voltage components inside the projector. Contact your dealer for inspection, adjustment, and service.
- Do not attempt to disassemble the projector (including expendable parts) or remote controller.
- Do not look into the lens while the projector is used. Strong light may hurt your eyes. Be especially careful that small children do not look into the lens.

### **WARNING**

Follow the instructions below when the lamp is replaced or breaks.

- Always unplug the power cord before replacing the lamp.
- When the lamp breaks, shards of glass may scatter in the lamp housing. Contact your dealer for cleaning or inspecting the projector, or replacing the lamp.

### **WARNING**

Follow the instructions below when handling the batteries. Failure to do so may cause explosion, heat generation, a fire, or leakage of the battery fluid.

- Do not heat or disassemble the batteries, or throw them into fire.
- Do not attempt to recharge the batteries.

## Safety Instructions

- Remove the batteries when they have been exhausted or not in use for an extended period of time.
- Be sure to replace both batteries at the same time. Do not mix batteries of different types.
- Insert batteries correctly according to the “+” and “-” markings.
- If a fluid from a battery leaks and comes in contact with your skin, rinse the affected skin thoroughly as soon as possible.

### CAUTION

- Do not place heavy objects or step on the projector. Be especially careful that small children do not step on the projector. If not, the projector may drop or break, causing injury.
- Disconnect the power cord from the power outlet if the projector is left unused for a long period of time. Failure to do so may result in a fire.
- Do not bring your hands to the peripheral part of the exhaust vent on the cabinet. This area becomes hot during use. Be especially careful that small children do not touch the area. Failure to do so may result in burn.
- Do not put metal objects in front of or near the exhaust vent. They will become hot while projector is being used.
- Do not place the projector on top of unstable or slanted surfaces. The projector may fall down and cause injury.
- Do not attach the lens cover while the projector is being used or place any objects in front of the lens. Failure to do so may result in a fire.
- A buildup of dust inside the projector can cause a fire or damage. Consult your dealer for cleaning.
- When installing the projector to a ceiling, consult your electrician or dealer. If the projector is not fixed securely, accidents may result.

### CAUTION

- Never take out the lamp soon after the projector is used. Let the projector cool for at least 1 hour before taking out the lamp, as burns may result.
- If the lamp replacement icon appears or the LAMP REPLACE indicator lights orange, immediately replace the lamp with a new one. Otherwise, the lamp may burst.
- If the lamp burns out, the gas or dust (containing mercury) inside the lamp may escape from the air vents. Immediately open the windows and ventilate the room. If you inhale the gas or the gas gets into your eyes or mouth, see a doctor at once.
- Dispose of a lamp containing mercury in the same manner as fluorescent lamps according to local regulations.

## Precaution During Use

- This projector is a precision machine. Do not subject the projector to strong shocks or vibrations or knock it down. Remove the lens, close the lens mounting hole with the front cover, and retract the adjustable feet before placing the projector into the carrying case. The projector may be damaged if you place it in the case without retracting the adjustable feet.
- Place the projector into the specified case when transporting it by courier or any other transportation service. Consult your dealer for the case.
- Keep space of 1 m or more at the sides of the projector between the intake/exhaust vents and walls. Poor ventilation may cause malfunction.
- Do not install the projector in the locations with heavy dust, high humidity, oily vapors, or cigarette smoke.  
A buildup of dust on the optical elements such as lens or mirror may degrade image quality.
- Directly touching the lens may cause poor image quality.
- If the projector is carried from a cold place to a warm place or the room temperature is raised rapidly, condensation may form on the lens and mirror due to the moisture in the atmosphere, resulting in a blurred picture. Wait until condensation evaporates and normal picture is shown.
- Do not install the projector in the locations with great difference in temperature. Doing so may cause malfunction. The ranges of the operating and storage temperatures are as shown below:  
Operating temperature: 41°F–104°F [5°C– 40°C]  
Storage temperature: 10°F–140°F (-10°C- 60°C)
- Do not install the projector near high-voltage electric power lines or power sources.
- Do not place the projector on a carpet or bed. The internal temperature will rise, causing malfunction.
- To avoid increase in the internal temperature, do not block the intake/exhaust vents.
- Position the projector at a proper angle. Incorrect positioning may cause troubles and accidents. Do not roll the projector more than 10 degrees from the horizontal.
- Do not place any heat-sensitive objects on the projector.



## Air Circulation

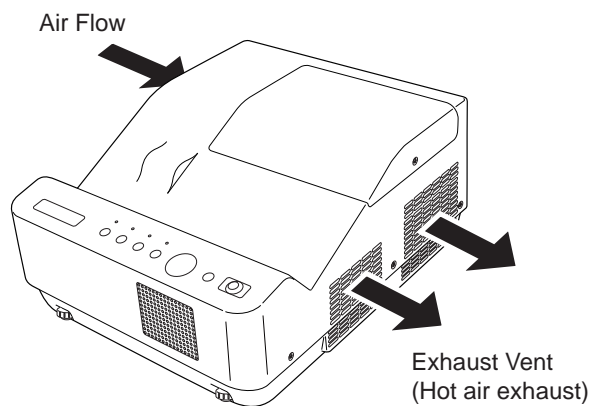
Openings in the cabinet are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered.

### 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 object or spray can near the projector, hot air is exhausted from the air vents.
- Keep the exhaust vent at least 3' (1 m) away from any objects.
- Do not touch a peripheral part of the exhaust vent, especially screws and metallic parts. These areas will become hot while the projector is being used.
- Do not put anything on the cabinet. 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 fans' running speed is changed according to the temperature inside the projector.



## Filter Maintenance

The projector uses a lamp which generates significant heat. The cooling fans and air vents are provided to dissipate the heat by drawing air into the housing and the filter is located in the intake vents to prevent dust from getting inside of the projector.

In order to care for the projector appropriately, regular cleaning is required. Remove any dirt or dust that has accumulated on the projector.

If the projector reaches a time set in the timer setting, a Filter warning icon (Fig. 1) appears on the screen, indicating that the filter replacement is necessary. Blocking the air vents and leaving the projector uncleaned for a long time may not only damage the projector and may require costly repairs but may also cause accidents or fire.

For maintenance of the filter, refer to "Filter counter" on page 64 and "Maintenance and Care" on page 67.

Damages to the projector caused by using an uncleaned filter or improper maintenance will void the warranty on the projector.

Fig.1 Filter warning icon



## Moving the Projector

When moving the projector, retract adjustable feet to prevent damage to the cabinet. When the projector is not in use for an extended period, put it into a suitable case.

Handle the projector carefully; do not drop, bump, subject it to strong forces, or put other things on the cabinet.

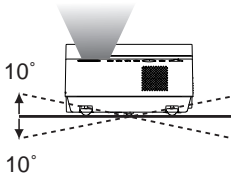
### CAUTION IN CARRYING OR TRANSPORTING THE PROJECTOR

- Do not drop or bump the projector, otherwise damages or malfunctions may result.
- When carrying the projector, use a suitable 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.

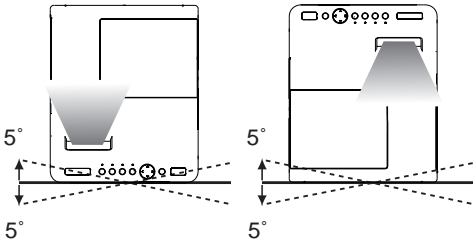
## Installing the Projector in Proper Position

Install the projector properly. Improper installation may reduce the lamp life and cause fire hazard.

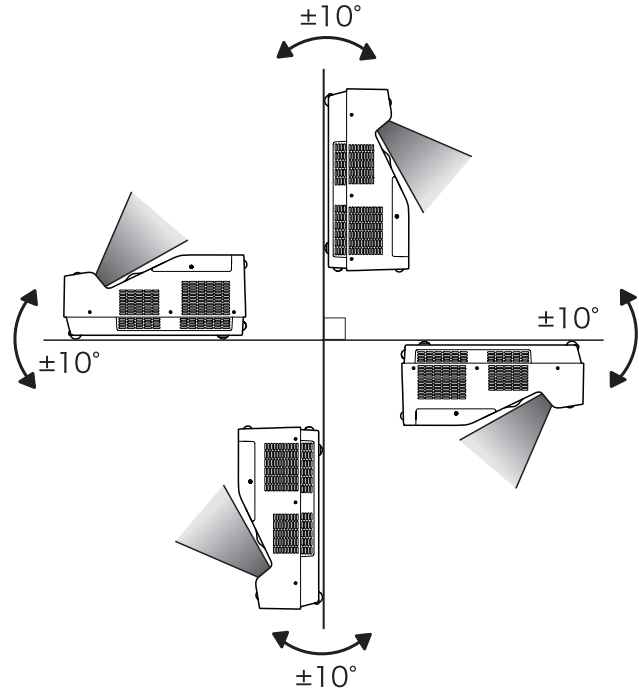
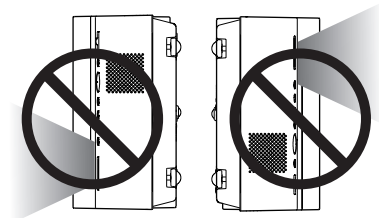
Do not roll the projector more than 10 degrees from side to side.



Do not roll the projector more than 5 degrees from side to side when front or rear is downward.



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



✓ **Note:**

- Fix the projector when installing it so that the projector would not fall down.

**CAUTION**

Choose the running speed of cooling fans in the fan control setting according to the altitude in which the projector is being used (p.63). Failure to do so may affect the projector life.

**CAUTION ON CEILING MOUNTING**

For ceiling mounting, you need the ceiling mount kit designed for this projector. When not mounted properly, the projector may fall, causing hazards or injury. For details, consult your dealer. The warranty on this projector does not cover any damage caused by use of any non-recommended ceiling mount kit or installation of the ceiling mount kit in an improper location.

**Cautious use of equipment with laser technology**

Do not radiate strong light such as laser light on the projection lens directly, as this may degrade the functionality of the projector, and will void any applicable warranties.

## Federal Communications Commission Notice

Multimedia Projector, Model: LV-8235 UST

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

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

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.

Canon U.S.A., Inc.  
One Canon Plaza, Lake Success, NY 11042-1198, U.S.A.  
Tel No. (516)328-5600

## Canadian Radio Interference Regulations

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

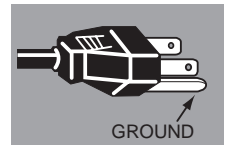
## AC POWER CORD REQUIREMENT

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.



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



### European Union (and EEA) only.

These symbols indicate that this product is not to be disposed of with your household waste, according to the WEEE Directive (2002/96/EC), the Battery Directive (2006/66/EC) and/or your national laws implementing those Directives.



If a chemical symbol is printed beneath the symbol shown above, in accordance with the Battery Directive, this indicates that a heavy metal (Hg = Mercury, Cd = Cadmium, Pb = Lead) is present in this battery or accumulator at a concentration above an applicable threshold specified in the Battery Directive.

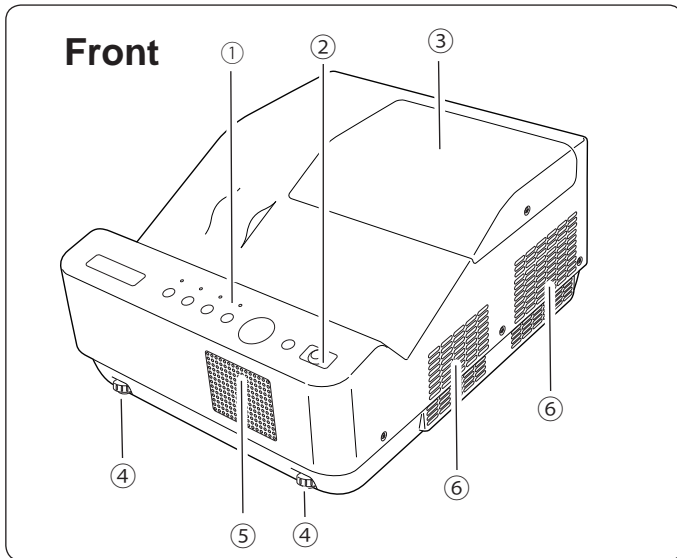


This product should be handed over to a designated collection point, e.g., on an authorized one-for-one basis when you buy a new similar product or to an authorized collection site for recycling waste electrical and electronic equipment (EEE) and batteries and accumulators. Improper handling of this type of waste could have a possible impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE.

Your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources.

For more information about the recycling of this product, please contact your local city office, waste authority, approved scheme or your household waste disposal service or visit [www.canon-europe.com/environment](http://www.canon-europe.com/environment).  
(EEA: Norway, Iceland and Liechtenstein)

# Part Names and Functions



- ① **Top Controls and Indicators**
- ② **Infrared Remote Receiver**

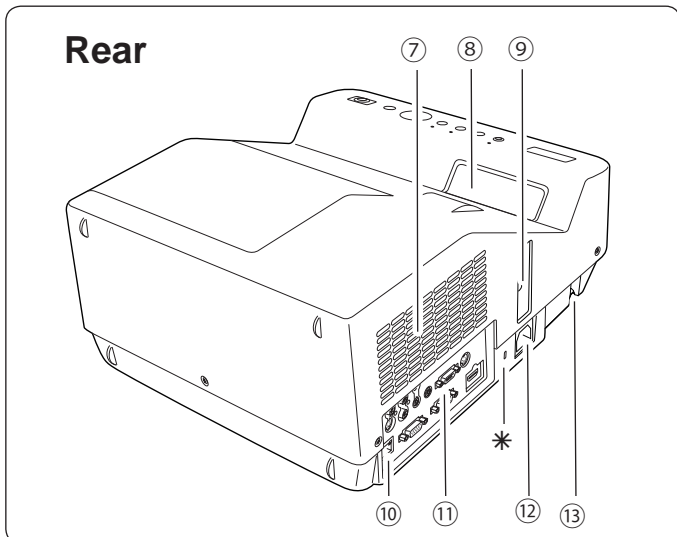
**CAUTION**

The infrared remote receiver sticks out of the cabinet surface. If the infrared remote receiver is put on the wall or floor directly, the infrared remote receiver may damage.

- ③ **Lamp Cover (Lamp and Air Filter)**
- ④ **Adjustable feet**
- ⑤ **Speaker**
- ⑥ **Exhaust vent**

**CAUTION**

Hot air is exhausted from the exhaust vent. Do not put heat-sensitive objects near this side.



- ⑦ **Air Intake vent**
- ⑧ **Projection Window**

**WARNING**

The projection window becomes very hot during use. Do not put your hand or objects on the projection window. High temperature from light beam may damage light-blocking objects and result in fire hazard.

- ✓ **Note:**  
Do not touch the projection window, otherwise, the window may be soiled and the image can be smudgy.

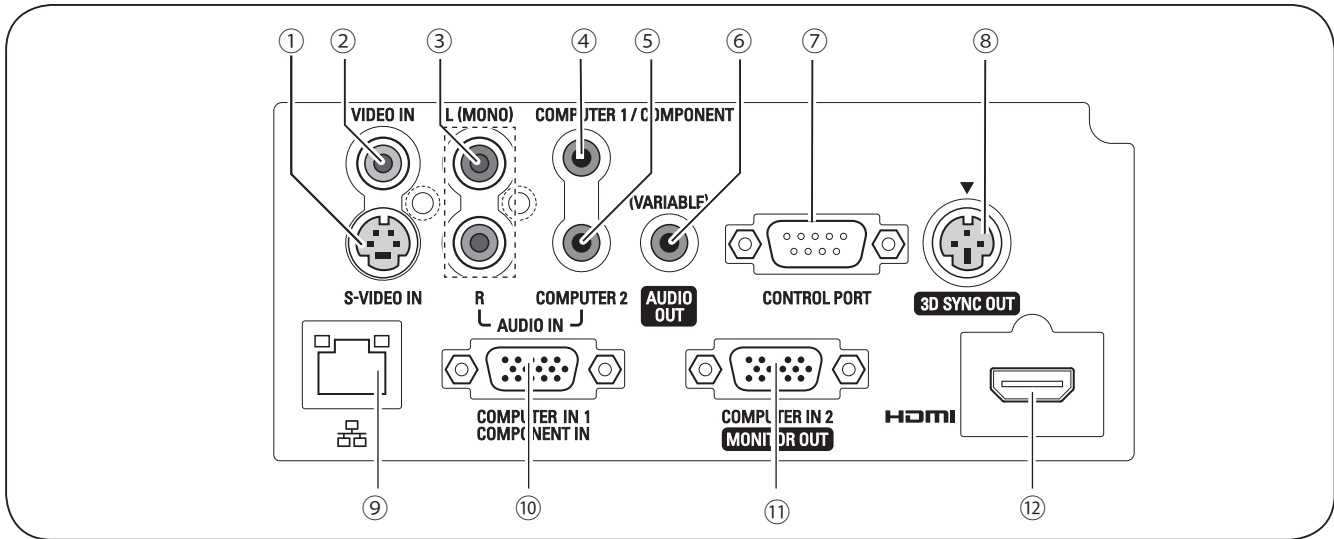
- ⑨ **Focus Lever**
- ⑩ **LAN Connection Terminal**
- ⑪ **Terminals and Connectors**
- ⑫ **Power Cord Connector**
- ⑬ **Security Bar**

- ✓ **Note:**  
⑩ LAN Connection Terminal is for the Network function. Refer to the user's manual of "Network Set-up and Operation".

- \* **Kensington Security Slot**  
This slot is for a Kensington lock used to deter theft of the projector.

\* *Kensington is a registered trademark of ACCO Brands Corporation.*

Side Terminal



① **S-VIDEO IN**

Connect the S-VIDEO output signal from video equipment to this jack (p.19).

② **VIDEO IN**

Connect the composite video output signal to this jack (p.19).

③ **AUDIO IN**

Connect the audio output signal from video equipment connected to ① or ② to this jack. For a monaural audio signal (a single audio jack), connect it to the L (MONO) jack (p.19).

④ **COMPUTER 1/COMPONENT AUDIO IN**

Connect the audio output (stereo) from a computer or video equipment connected to ⑩ or ⑫ to this jack (pp.18, 20).

⑤ **COMPUTER 2 AUDIO IN**

Connect the audio output (stereo) from a computer connected to ⑪ to this jack (pp.18, 20).

⑥ **AUDIO OUT (VARIABLE)**

Connect an external audio amplifier to this jack (pp.18-20).  
This terminal outputs sound from AUDIO IN terminal (③, ④ or ⑤) or HDMI terminal ⑫ (digital audio).  
Never plug headphones and earphones into AUDIO OUT jack.

⑦ **CONTROL PORT**

When controlling the projector with RS-232C, connect the control equipment to this connector with the serial control cable.

⑧ **3D SYNC OUT**

Connect a 3D sync. signal cable for an IR wireless emitter to this jack (p.50)

⑨ **LAN Connection Terminal**

Connect the LAN cable (refer to the user's manual of "Network Set-up and Operation").

⑩ **COMPUTER IN 1/COMPONENT IN**

Connect output signal from a computer, RGB scart 21-pin video output or component video output to this terminal (pp.18, 20).

⑪ **COMPUTER IN 2/MONITOR OUT**

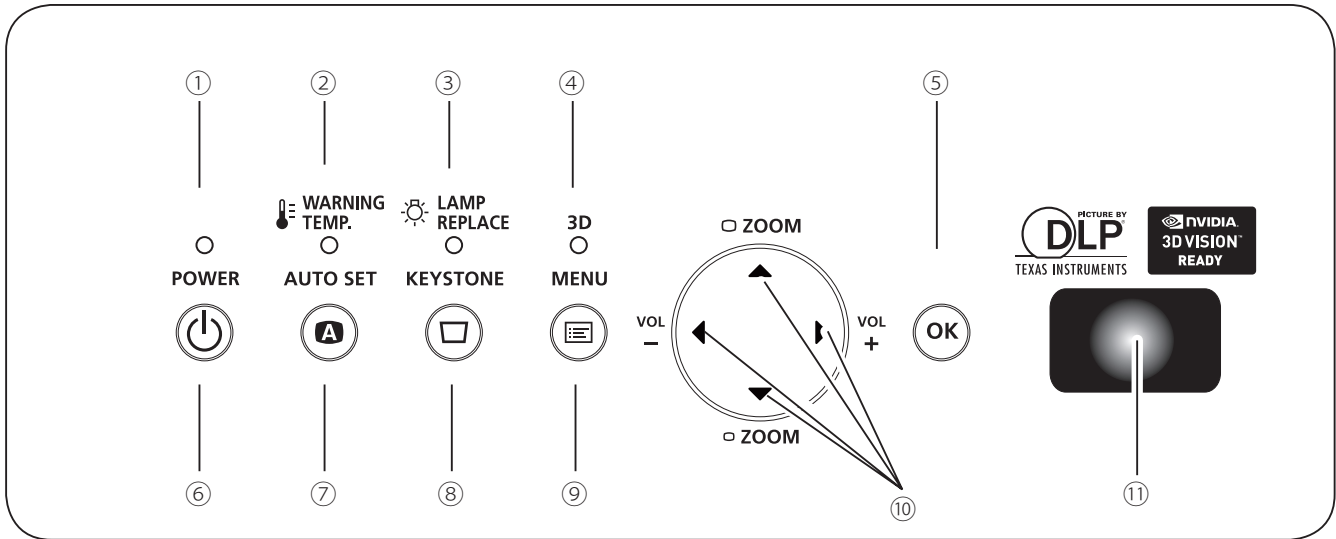
This terminal is switchable and can be used for input from a computer or output to the other monitor.

Set the terminal up as either Computer input or Monitor output properly. [Used for Monitor out, this terminal outputs only incoming signal from COMPUTER IN 1/COMPONENT IN terminal (pp. 18, 58)].

⑫ **HDMI**

Connect the HDMI signal from computer or video equipment to this terminal (pp.18, 20).

## Top Controls and Indicators



### ① POWER indicator

- Turn red when the projector is in the stand-by mode.
- Turn green while the projector is under operation (pp.22, 76).
- Blink green in the Power management mode (pp.59, 76)

### ② WARNING TEMP. indicator

Emit a red light when the projector detects abnormal condition. This also blinks red when the internal temperature of the projector exceeds the operating range (pp. 66, 76).

### ③ LAMP REPLACE indicator

Turn yellow when the life of the projection lamp draws to an end (pp. 69, 76).

### ④ 3D indicator

Turn blue when the projector is in 3D mode (pp. 50-51, 76).

### ⑤ OK button

- Execute the selected item (p.25).
- Zoom in and out the image in the Digital zoom mode (p.41).

### ⑥ POWER button

Turn the projector on or off (pp.22-24).

### ⑦ AUTO SET button

Execute the setting of Auto setup (includes Auto input function and Auto PC function). (pp.28, 53)

### ⑧ KEYSTONE button

Correct the keystone distortion (pp.28, 42, 49).

### ⑨ MENU button

Open or close the On-Screen Menu (p.25).

### ⑩ Point ▲▼◀▶ buttons

- Select an item or adjust the value in the On-Screen Menu (p.25).
- Pan the image in Digital zoom + mode (p.41).
- Adjust the volume level (with Point ◀▶ buttons) (p.29).
- Adjust the screen size (with Point ▲▼ buttons) (p.27).

### ⑪ Infrared Remote Receiver

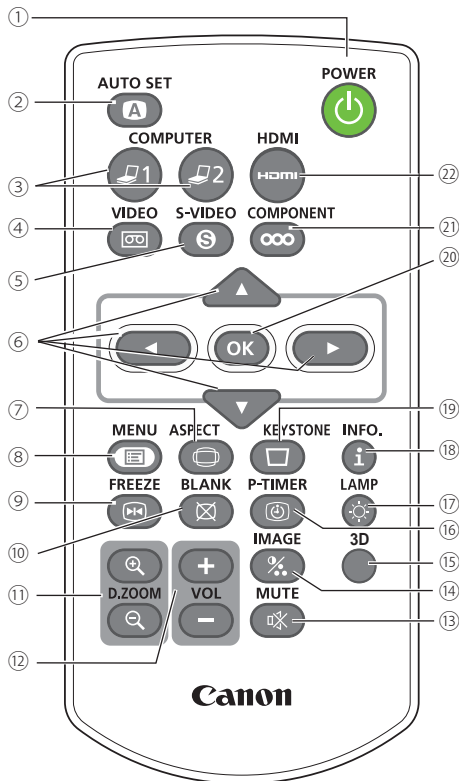
The protruding shape allows wide-angle remote controller signal reception.



## Remote Controller

- ① **POWER button**  
Turn the projector on or off. (pp.22-24)
- ② **AUTO SET button**  
Execute the setting of Auto setup (includes Auto input function and Auto PC function). (pp.28, 53)
- ③ **COMPUTER 1/2 buttons**  
Select the COMPUTER 1 or COMPUTER 2 input source. (pp.32-33, 44)
- ④ **VIDEO button**  
Select the VIDEO input source. (p.43)

- ⑤ **S-VIDEO button**  
Select the S-VIDEO input source. (p.43)
- ⑥ **Point ▲▼◀▶ buttons**  
– Select an item or adjust the value in the On-Screen Menu. (p.25)  
– Pan the image in the Digital zoom + mode. (p.41)
- ⑦ **SCREEN button**  
Select a screen mode. (pp.31, 40-42, 48-49)
- ⑧ **MENU button**  
Open or close the On-Screen Menu. (p.25)
- ⑨ **FREEZE button**  
Freeze the picture on the screen. (p.30)
- ⑩ **BLANK button**  
Temporarily turn off the image on the screen. (p.31)
- ⑪ **D.ZOOM +/- buttons**  
Zoom in and out the images. (pp.30, 41)
- ⑫ **VOLUME +/- buttons**  
Adjust the volume level. (p.29)
- ⑬ **MUTE button**  
Mute the sound. (p.29)
- ⑭ **IMAGE button**  
Select the image mode. (pp.31, 38)
- ⑮ **3D button**  
Operate the 3D function. (pp.31, 50-51)
- ⑯ **LAMP button**  
Select a lamp mode. (pp.30, 60)
- ⑰ **P-TIMER button**  
Operate the P-timer function. (p.31)
- ⑱ **INFO. button**  
Operate the information function. (pp.30, 65)
- ⑲ **KEystone button**  
Correct the keystone distortion. (pp.28, 42, 49)
- ⑳ **OK button**  
– Execute the selected item. (p.25)  
– Zoom in and out the image in Digital zoom mode. (p.41)
- ㉑ **COMPONENT button**  
Select the COMPONENT input source. (p.44)
- ㉒ **HDMI button**  
Select the HDMI input source. (p.44)

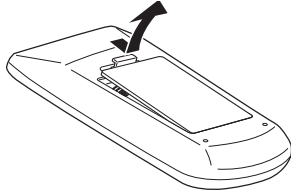
✓ **Note:**

To ensure safe operation, please observe the following precautions:

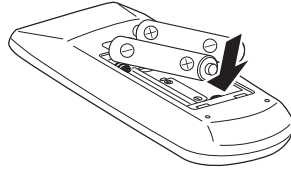
- Do not bend, drop, or expose the remote controller to moisture or heat.
- For cleaning, use a soft dry cloth. Do not apply benzene, thinner, spray, or any chemical material.

## Remote Controller Battery Installation

- 1** Open the battery compartment lid.



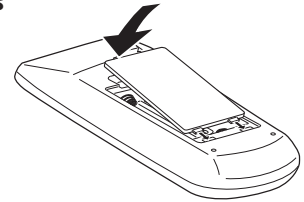
- 2** Install new batteries into the compartment.



**Two AAA size batteries**

For correct polarity (+ and -), be sure battery terminals are in contact with pins in compartment.

- 3** Replace the compartment lid.



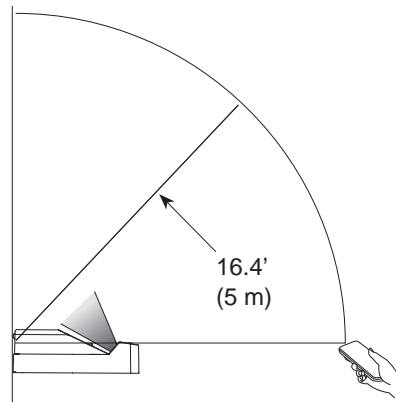
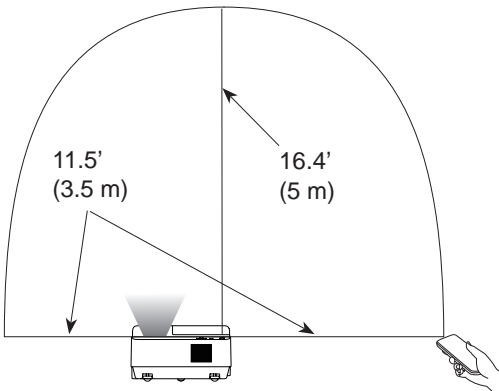
### WARNING

To ensure safe operation, please observe the following precautions :

- Use two (2) AAA type batteries.
- Always replace batteries in sets.
- Do not use a new battery with a used battery.
- Avoid contact with water or liquid.
- Do not expose the remote controller to moisture or heat.
- Do not drop the remote controller.
- If the battery has leaked on the remote controller, carefully wipe the case clean and install new batteries.
- Risk of an explosion if battery is replaced by an incorrect type.
- Dispose of used batteries according to the instructions or your local disposal rule or guidelines.

## Remote Controller Operating Range

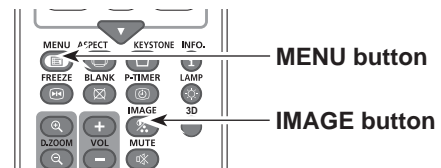
Point the remote controller toward the projector (Infrared Remote Receiver) when pressing the buttons. See the below figures indicating Maximum operating range for the remote controller.



## Remote Control Code

The two different remote control codes (**Code 1-Code 2**) are assigned to this projector. Switching the remote control codes prevents interference from other remote controls when several projectors or video equipment next to each other are operated at the same time. Change the remote control code for the projector first before changing that for the remote control. See "Remote control" in the Setting Menu on page 60.

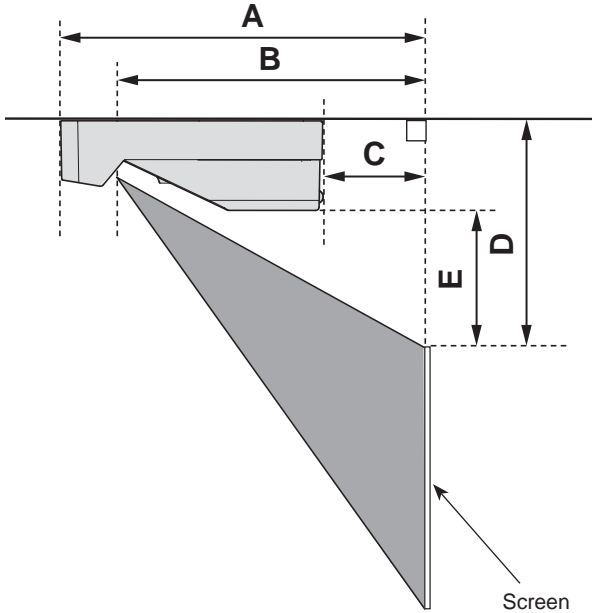
- Press and hold the MENU and IMAGE buttons for more than five seconds to switch between the **Code 1** and **Code 2**. The initial code is set to **Code 1**.



# Installation

## Positioning the Projector

For projector positioning, see the figures below. The projector should be set perpendicularly to the plane of the screen.



### ✓ Note:

- This projector is not equipped with an optical zoom. To adjust the screen size, change the throw distance.
- The brightness in the room has a great influence on picture quality. It is recommended to limit ambient lighting in order to obtain the best image.
- All measurements are approximate and may vary from the actual sizes. Make sure to check the position of images by projecting images on the screen before installing the projector and screen, since each projector shows slight variations.
- Make sure to project images on a fixed flat screen.
- When projecting to wall or flat objects, even slight warpage or irregularities of the screen may have an effect on the quality of the projected images.

Screen Size (W x H) mm 16:10 aspect ratio	60"	74.6"	80"	110"
		1292 x 808	1608 x 1005	1723 x 1077
A	12.60" (32.0 cm)	15.20" (38.6 cm)	16.14" (41.0 cm)	21.46" (54.5 cm)
B	9.06" (23.0 cm)	11.65" (29.6 cm)	12.60" (32.0 cm)	17.91" (45.5 cm)
C	-2.60" (-6.6 cm)	0.00" (0.0 cm)	0.95" (2.4 cm)	6.26" (15.9 cm)
D	8.86" (22.5 cm)	10.00" (25.4 cm)	10.43" (26.5 cm)	12.80" (32.5 cm)
E	1.85" (4.7 cm)	3.00" (7.6 cm)	3.43" (8.7 cm)	5.79" (14.7 cm)

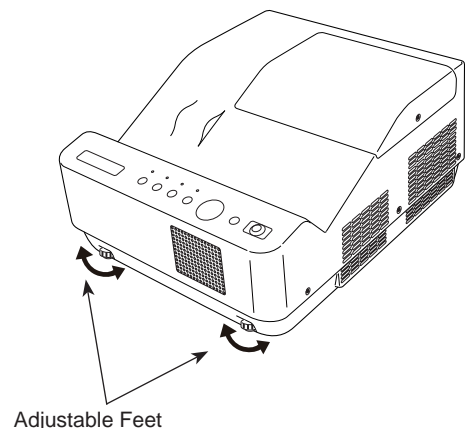
## Adjustable Feet

Projection angle can be adjusted within -1.0 to +1.0 degree with the adjustable feet.

Rotate the adjustable feet and tilt the projector to the proper height; to raise the projector, rotate the both feet clockwise.

To lower the projector or to retract the adjustable feet, rotate the both feet counterclockwise.

To correct keystone distortion, press the KEYSTONE button on the remote controller or on the top control or select Keystone from the menu (See pages 28, 42, 49).



## Connecting to a Computer

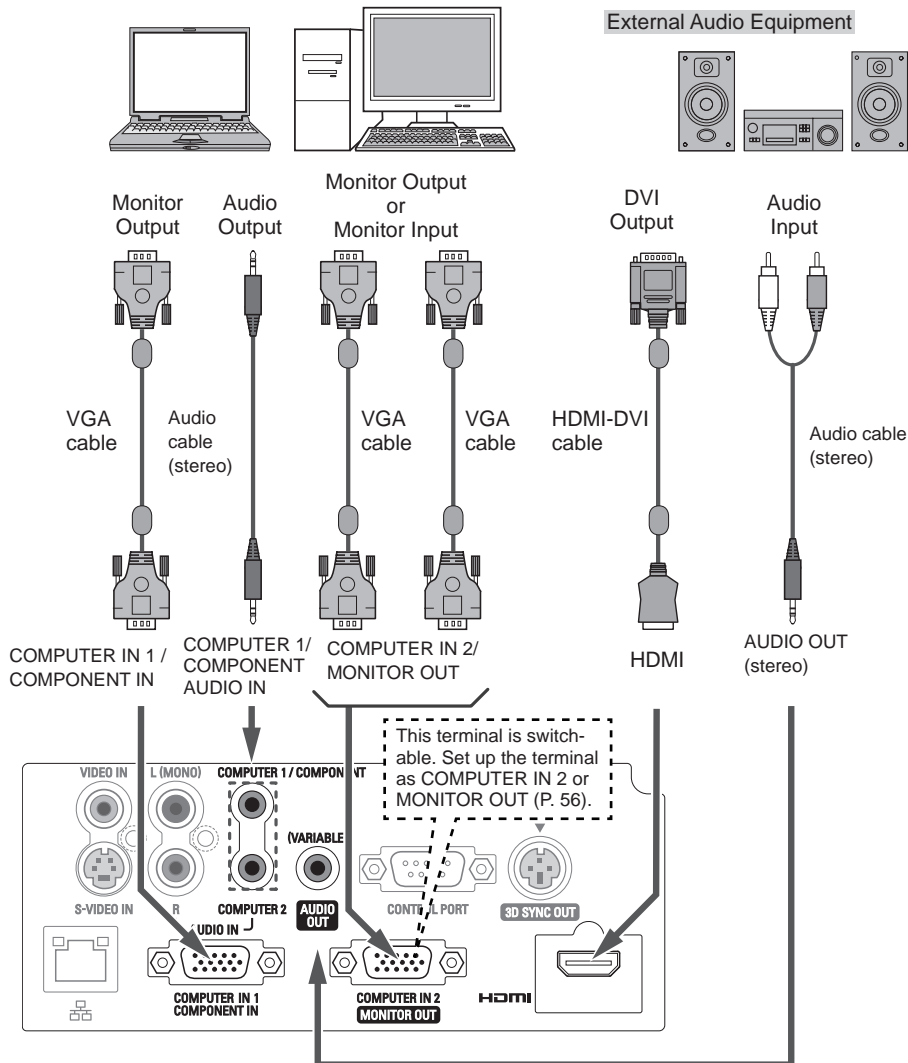
### Cables used for connection

- VGA cables (Mini D-sub 15 pin) \*
- Audio cables
- HDMI-DVI cable

(\*One cable is supplied; other cables are not supplied with the projector.)

### ✓ Note:

Unplug the power cords of both the projector and external equipment from the AC outlet before connecting cables.



### ✓ Note:

- Input sound to the **COMPUTER 1/COMPONENT AUDIO IN** terminal when using the **COMPUTER IN 1/COMPONENT IN** terminal as input.
- When the cable is of the longer variety, it is advisable to use the **COMPUTER IN 1/COMPONENT IN** and not the **COMPUTER IN 2 /MONITOR OUT**.
- Analog PC and component signals can be output from the **COMPUTER IN 2/MONITOR OUT** terminal when using the **COMPUTER IN 2/MONITOR OUT** terminal as output.
- When the **AUDIO OUT** is plugged-in, the projector's built-in speaker is not available.

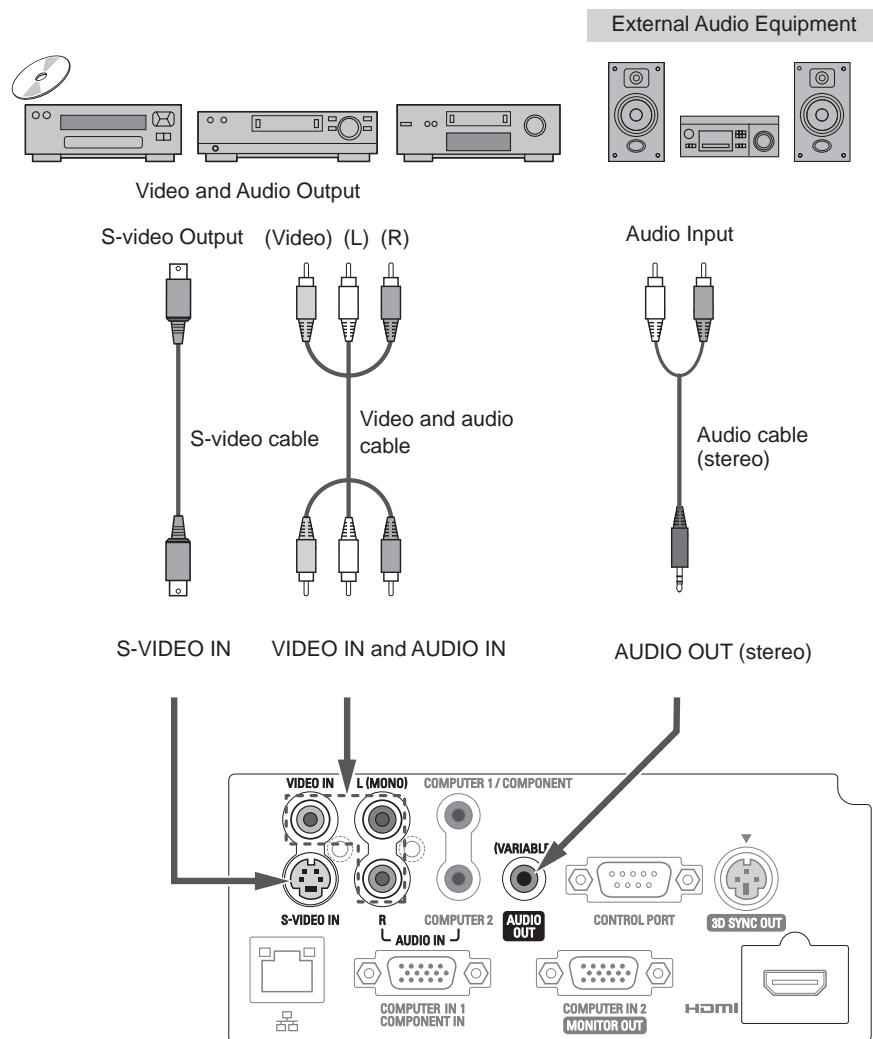
## Connecting to Video Equipment

### Cables used for connection

- Video and Audio cable (RCA x 3)
  - S-video cable
  - Audio cable
- (Cables are not supplied with the projector. )

### ✓ Note:

Unplug the power cords of both the projector and external equipment from the AC outlet before connecting cables.



### ✓ Note:

- When the AUDIO OUT is plugged-in, the projector's built-in speaker is not available.

## Connecting to Component Video Equipment

### Cables used for connection

- Audio cables
- Scart-VGA cable
- Component cable
- Component-VGA cable
- HDMI cable
- HDMI cable

(Cables are not supplied with this projector.)

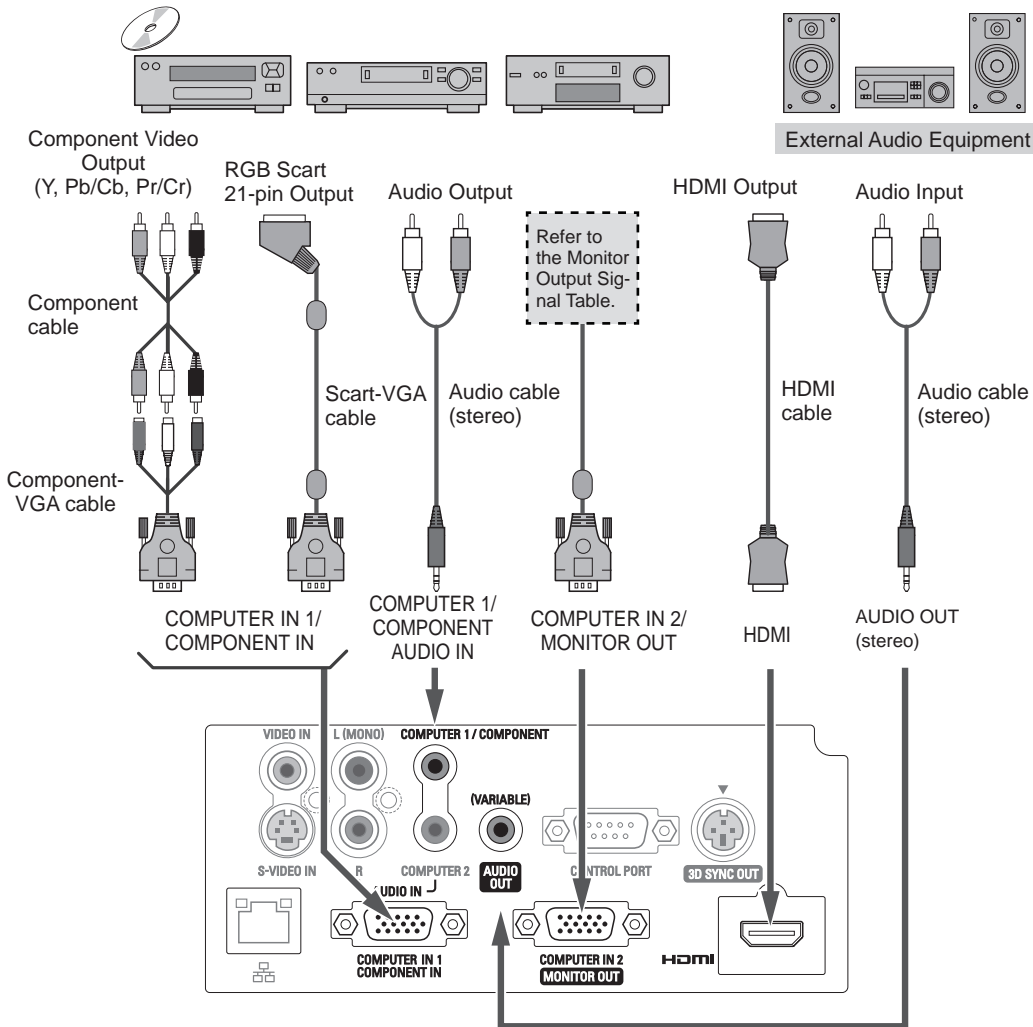
✓ **Note:**

Unplug the power cords of both the projector and external equipment from the AC outlet before connecting cables.

### Monitor Output Signal Table

	Input Terminal		Monitor Out	Cable
<b>COMPUTER 1/ COMPONENT</b>	D-sub15	ANALOG PC	YES	
		Y, Pb/Cb, Pr/Cr	YES	*
		SCART	NO	
<b>COMPUTER 2</b>	D-sub15	ANALOG PC	NO	
<b>HDMI</b>	HDMI	HDMI	NO	
<b>S-VIDEO</b>	DIN-4	S-video	NO	
<b>VIDEO</b>	RCA	Video	NO	

\* A cable with one end D-sub 15 and the other end (Black box) compatible with each equipment is necessary.



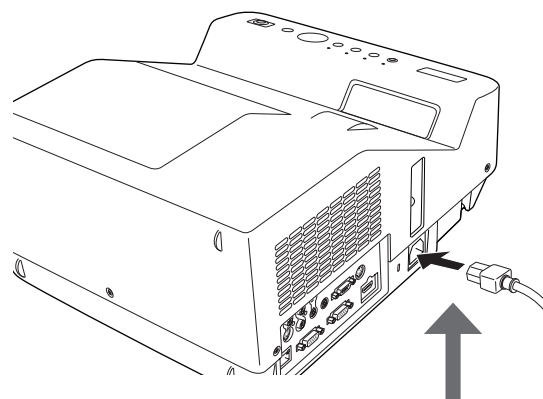
✓ **Note:**

- When the AUDIO OUT is plugged-in, the projector's built-in speaker is not available.
- See page 80 for ordering optional cables.



## Connecting the AC Power Cord

This projector uses nominal input voltages of 100–240 V AC and it automatically selects the correct input voltage. It is designed to work with single-phase power systems having a grounded neutral conductor. To reduce the risk of electrical shock, do not plug into any other type of power system. If you are not sure of the type of power being supplied, consult your authorized dealer or service center. Connect the projector with all peripheral equipment before turning it on.



Connect the AC power cord (supplied) to the projector.

### CAUTION

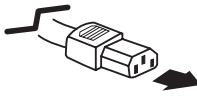
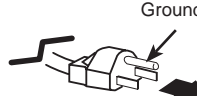
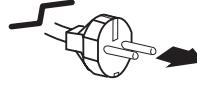
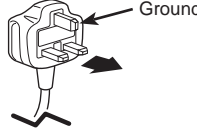
The AC outlet must be near this equipment and must be easily accessible.

✓ **Note:**

*Unplug the AC power cord when the projector is not in use. When this projector is connected to an outlet with the AC power cord, it is in Stand-by mode and consumes a little electric power.*

### NOTE ON THE POWER CORD

AC power cord must meet requirement of the country where you use the projector. Confirm the AC plug type with the chart below and proper AC power cord must be used. If supplied AC power cord does not match your AC outlet, contact your sales dealer.

Projector side	AC outlet side		
 <p>To power cord connector on your projector.</p>	<p><b>For the U.S.A. and Canada</b></p>  <p>To the AC outlet. <b>(120 V AC)</b></p>	<p><b>For Continental Europe</b></p>  <p>To the AC outlet. <b>(200 - 240 V AC)</b></p>	<p><b>For the U.K.</b></p>  <p>To the AC outlet. <b>(200 - 240 V AC)</b></p>

# Basic Operation

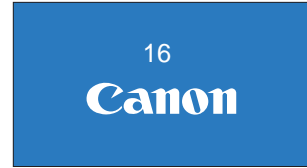
## Turning On the Projector

- 1 Complete peripheral connections (with a computer, VCR, etc.) before turning on the projector.
- 2 Connect the projector's AC power cord into an AC outlet. The POWER indicator lights red.
- 3 Press the POWER button on the remote controller or on the top control. The POWER indicator lights green and the cooling fans start to operate. The preparation display appears on the screen and the countdown starts.
- 4 After the countdown, the input source that was selected the last time and the Lamp mode status icon (See page 60) appear on the screen.
- 5 If there is no signal input when start on the projector, or the current signal is missed while operating the projector, the Video / PC selection window will be displayed on the screen, please move the pointer to input source desired by pressing the Point ▲▼ buttons and press the OK button. And then follow the input signal guidance window to correct the signal and connection.

If the projector is locked with a PIN code, PIN code input dialog box will appear. Enter the PIN code as instructed on the next page.

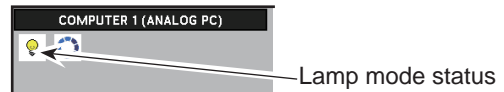
✓ **Note:**

- When the Logo select function is set to Off, the logo will not be shown on the screen. (p.55)
- When Countdown off or Off is selected in the Display function, the countdown will not be shown on the screen. (p.55)
- During the countdown period, all operations are invalid.
- When the Auto input function is set to On 2, the input signal will be searched automatically. (p.53)
- When Off is selected in the Display function, the Video /PC selection window and the input signal guidance window are not shown on the screen. (p.55)



The preparation display will disappear after 30 seconds.

### Selected Input Source and Lamp mode

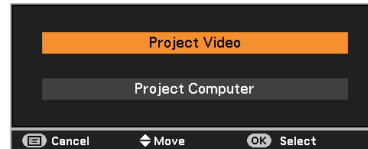


(See page 60 for Lamp mode status.)

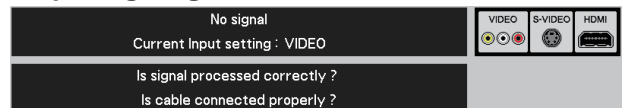
✓ **Note:**

*The Filter warning and Lamp replacement icons may appear on the screen depending on the usage state of the projector.*

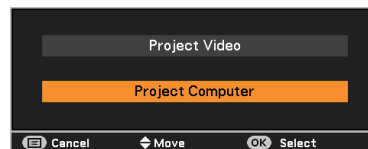
### Video / PC selection window



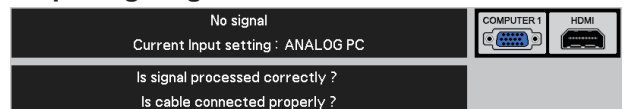
### Input signal guidance window



### Video / PC selection window



### Input signal guidance window



## Enter a PIN code

Use the Point▲▼ buttons to enter a number. Press the Point ► button to fix the number and move the red frame pointer to the next box. The number changes to \*. If you fixed an incorrect number, use the Point ◀ button to move the pointer to the number you want to correct, and then enter the correct number.

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

After entering the four-digit number, move the pointer to "Set". Press the OK button so that you can start to operate the projector.

If you entered an incorrect PIN code, **PIN code** and the number (\*\*\*\*) will turn red for a moment. Enter the correct PIN code all over again.

## What is PIN code?

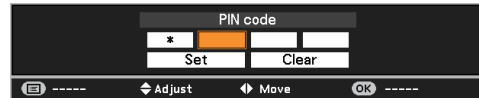
PIN (Personal Identification Number) code is a security code that allows the person who knows it to operate the projector. Setting a PIN code prevents unauthorized use of the projector.

A PIN code consists of a four-digit number. Refer to the PIN code lock function in the Setting Menu on pages 61-62 for locking operation of the projector with your PIN code.

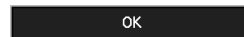
### CAUTION ON HANDLING PIN CODE

If you forget your PIN code, the projector can no longer be started. Take a special care in setting a new PIN code; write down the number as a reminder.

## PIN Code Input Dialog Box



After the OK icon disappears, you can operate the projector.



### ✓ Note:

- If the PIN code number is not entered within three minutes after the PIN code dialog box appeared, the projector will be turned off automatically.
- The "1234" is set as the initial PIN code at the factory.

### Turning Off the Projector

- 1 Press the POWER button on the remote controller or on the top control, and **Power off?** appears on the screen.
- 2 Press the POWER button again to turn off the projector. The POWER indicator starts to blink red, and the cooling fans keep running. (You can select the level of fans' quietness and speed. See "Fan" on page 63.) At this time, you can unplug the AC power cord even if the fans are still running.
- 3 When the projector has cooled down enough, the POWER indicator stops blinking and you can turn on the projector.

Power off ?

**Power off?** disappears after 4 seconds.

TO MAINTAIN THE LIFE OF THE LAMP, ONCE YOU TURN THE PROJECTOR ON, WAIT AT LEAST FIVE MINUTES BEFORE TURNING IT OFF.

DO NOT OPERATE THE PROJECTOR CONTINUOUSLY WITHOUT REST. CONTINUOUS USE MAY RESULT IN SHORTENING THE LAMP LIFE. TURN OFF THE PROJECTOR AND LET STAND FOR ABOUT AN HOUR IN EVERY 24 HOURS.

✓ **Note:**

- When the Direct power on function is set to **On**, the projector will be turned on automatically by connecting the AC power cord to an AC outlet. (p. 59)
- The running speed of cooling fans is changed according to the temperature inside the projector.
- Do not put the projector in a case before the projector is cooled enough.
- If the WARNING TEMP. indicator blinks or lights red, see "WARNING TEMP. indicator" on page 66.
- While the POWER indicator is blinking, the lamp is being cooled down and the projector can not be turned on. Wait until the POWER indicator stops blinking to turn on the projector again.
- The fan rotation will terminate directly if the AC power cord is unplugged immediately after the projector is turned off.
- The projector can be turned on after the POWER indicator turns red. The waiting time to restart will be shortened when the normal power-off processing for fan cooling is completed, compared with the time the AC power cord is immediately unplugged after the power-off.
- To protect the component parts inside the projector, the fans normally start running again in approximately 40 seconds after turning off the projector. This is NORMAL operation and not a malfunction.

### Direct Power Off Function

You can disconnect the power cord from the wall outlet or turn off the breaker even during projection without pressing the POWER button.

✓ **Note:**

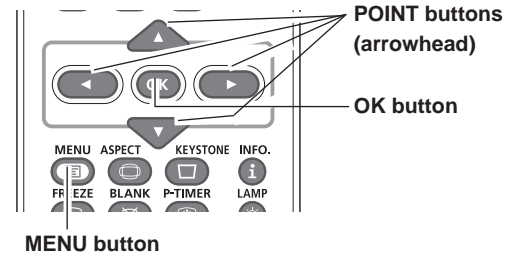
- When using the Direct Power Off function, you can not restart the projector immediately after the power is disconnected. If the external power supply is suddenly cut off, the fans stop immediately. The lamp remains high temperature and needs to be cooled.

## How to Operate the On-Screen Menu

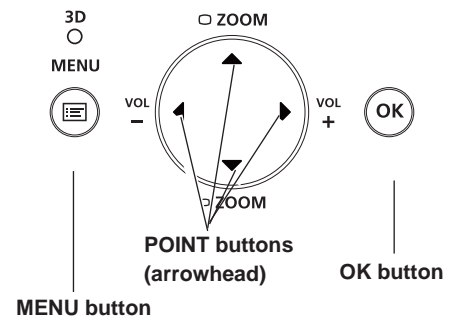
The projector can be adjusted or set via the On-Screen Menu. The menu has a hierarchical structure, with a main menu that is divided into submenus, which are further divided into other submenus. For each adjustment and setting procedure, refer to respective sections in this manual.

- 1 Press the MENU button on the remote controller or on the top control to display the On-Screen Menu.
- 2 Use the Point ▲▼ buttons to highlight and select a main menu item. Press the Point ► or the OK button to access the submenu items. (The selected item is highlighted in orange.)
- 3 Use the Point ▲▼ buttons to select the desired submenu item and press the OK button to set or access the selected item.
- 4 Use the Point ▲▼◀▶ buttons to adjust the setting or switch between each option and press the OK button to activate it and return to the submenu.
- 5 Press the Point ◀ button to return to the main menu. Press the MENU button to exit the On-Screen Menu.

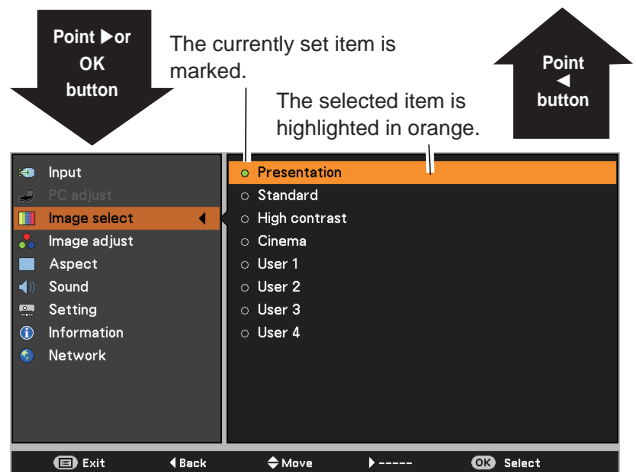
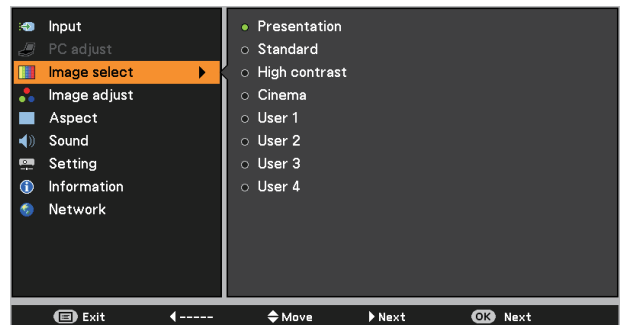
### Remote Controller



### Top Control

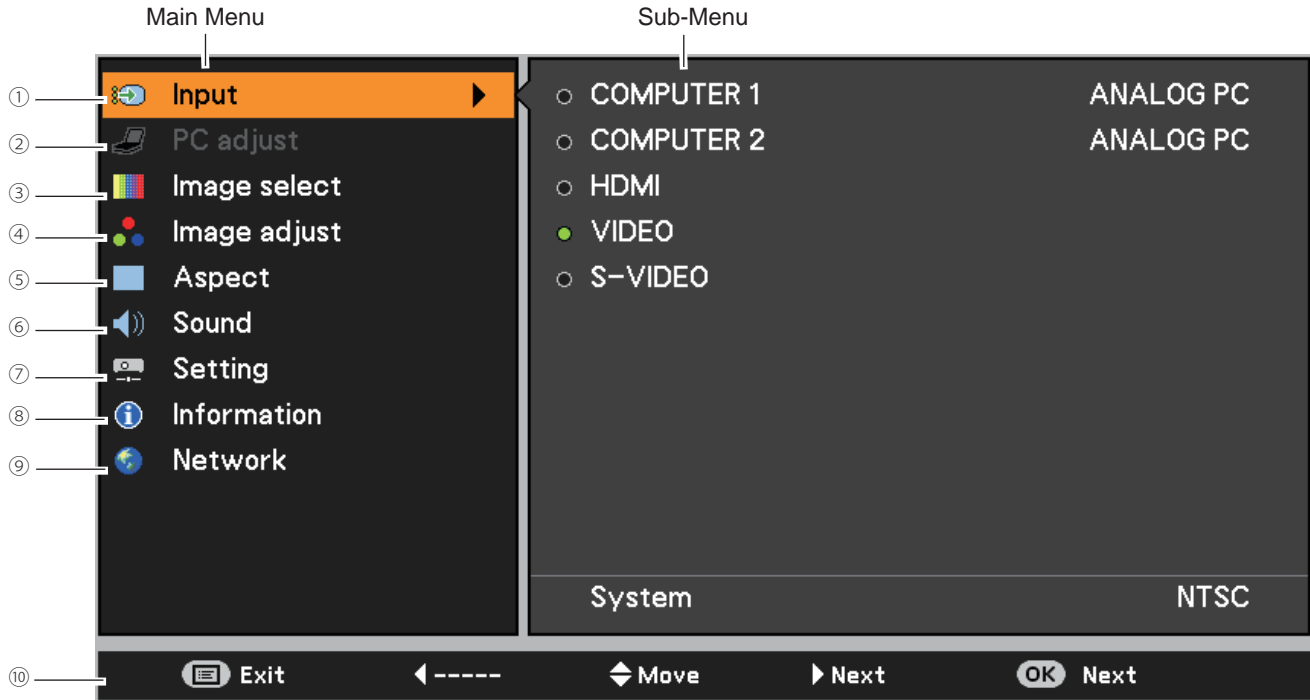


### On-Screen Menu



## Main Menu

For detailed functions of each menu, see “Menu Tree” on pages 74-75.



- ① **Input**                      Used to select an input source from **COMPUTER 1**, **COMPUTER 2**, **HDMI**, **VIDEO** or **S-VIDEO**. (pp.32-33, 43-45)
- ② **PC adjust**                Select **Auto PC**, **Fine sync**, **Total dots**, **Horizontal position**, **Vertical position**, **Current mode** and **Clamp** to adjust the parameters to match with the PC input signal format. (pp.35-37)
- ③ **Image select**            Used to select an image mode from among **Presentation**, **Standard**, **High contrast**, **Cinema** and **User 1-4**. (p.38)
- ④ **Image adjust**            For computer source, used to adjust computer image [**Contrast**, **Brightness**, **Color temp.**, **White balance (Red/Green/Blue)**, **Sharpness** and **Gamma**]. (p.39)  
For video or HDMI source, used to adjust picture image [**Contrast**, **Brightness**, **Color**, **Tint**, **Color temp.**, **White balance (Red/Green/Blue)**, **Sharpness**, **Gamma**, **Noise reduction** and **Progressive**]. (pp.46-47)
- ⑤ **Aspect**                    For computer source, used to adjust size of the image [**Normal**, **Full**, **16:9**, **Zoom**, **True**, **Custom**, **Digital zoom +/-**, **Keystone**, **Ceiling**, **Rear**, **Screen aspect** and **Colorboard**]. (pp.40-42)  
For video or HDMI source, used to set size of image [**Normal**, **Full**, **16:9**, **Zoom**, **Natural wide**, **Custom**, **Keystone**, **Ceiling**, **Rear**, **Screen aspect** and **Colorboard**]. (pp.48-49)
- ⑥ **Sound**                    Used to adjust the volume or mute the sound. (p.29)
- ⑦ **Setting**                    Used to set the projector's operating configurations. (pp.52-64)
- ⑧ **Information**             Display the input source information: **Input**, **H-sync freq.**, **V-sync freq.**, **Aspect**, **Language**, **Lamp status**, **Lamp counter**, **Power management mode**, **Key lock**, **PIN code lock**, **Remote control**, and **SERIAL NO.**. (p.65)
- ⑨ **Network**                See user's manual of “Network Set-up and Operation”.
- ⑩ **Guide**                    The key operation is displayed.



## Zoom and Image Position Adjustment

Press the ZOOM +/- buttons on the top control to adjust the screen size. Screen size can be adjusted 84% to 100% from its maximum screen size.

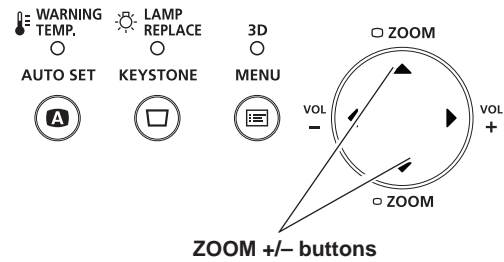
It is not available when On-Screen menu is displayed.

Zoom adjustment can be memorized. (p.54)

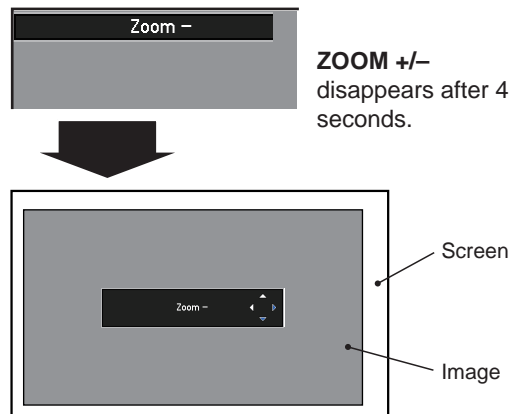
The image position can be adjusted in the Zoom Adjustment.

- 1 Press the ZOOM+ or ZOOM- button on the top control.
- 2 While ZOOM+ or ZOOM- is displayed on the screen, press the OK button. Arrow marks displayed on the screen.
- 3 Press the Point ▲▼◀▶ buttons on the top control or the remote controller to adjust the image position.

### Top Control



### ZOOM +/-

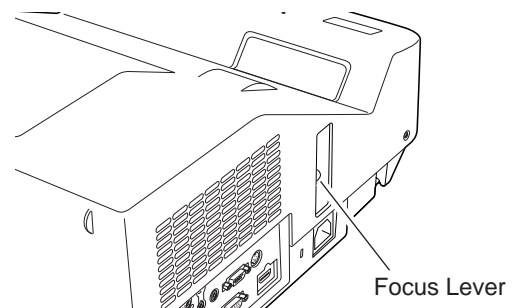


### ✓ Note:

- Zoom and Image Position Adjustment can not be operated when **4:3** or **16:9** mode is selected in the Screen aspect menu or **Custom** is selected in the Screen menu (pp.40-42, 48-49).
- The image position adjustment can not be adjusted at ZOOM maximum.
- The white arrows indicate that there is no correction.
- A blue arrow indicates the direction of correction.
- An arrow disappears at the maximum correction.

## Focus Adjustment

Adjust the lens focus with the focus lever.



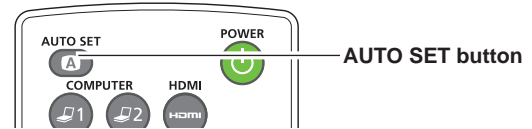
## Auto Setup Function

Auto setup function is provided to automatically execute the setting of Auto setup (includes Auto input and Auto PC functions) in the Setting Menu by just pressing the AUTO SET button on the remote controller. Refer to page 53 for the setting of the Auto setup function.

✓ **Note:**

*Fine sync, Total dots, Horizontal position and Vertical position of some computers can not be fully adjusted with the Auto PC adjustment function. When the image is not provided properly with this operation, manual adjustments are required. (pp.36-37)*

### Remote Controller

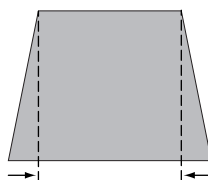
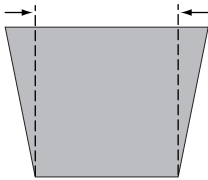


## Keystone Correction

Press the KEYSTONE button on the remote controller or on the top control. The Keystone dialog box appears. Use the Point ▲▼ buttons to correct keystone distortion. The keystone adjustment can be stored (See pages 42, 49).

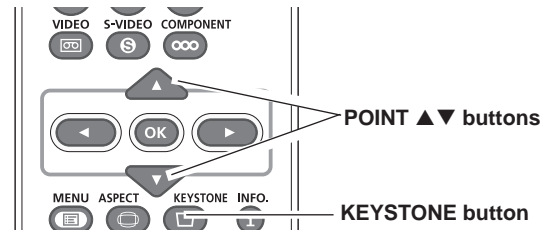
Reduce the upper width with the Point ▲ button.

Reduce the lower width with the Point ▼ button.

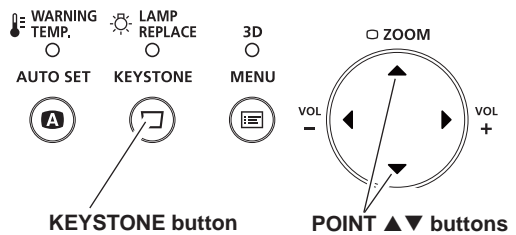


- The white arrows indicate that there is no correction.
- A blue arrow indicates the direction of correction.
- An arrow disappears at the maximum correction.
- If you press the KEYSTONE button on the remote controller or on the top control once more while the keystone dialog box is being displayed, the keystone adjustment will be canceled.
- The adjustable range is limited depending on the input signal.

### Remote Controller



### Top Control



## Sound Adjustment

### Direct Operation

#### Volume

Press the VOLUME +/- buttons on the remote controller or on the top control to adjust the volume. The volume dialog box appears on the screen for a few seconds.

#### Mute

Press the MUTE button on the remote controller to select **On** to temporarily turn off the sound. To turn the sound back on, press the MUTE button again to select **Off** or press the VOLUME +/- buttons. The MUTE function is also effective for the AUDIO OUT jack.

### Menu Operation

- 1 Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select **Sound**. Press the Point ► or the OK button to access the submenu items.
- 2 Use the Point ▲▼ buttons to select the desired submenu item and press the OK button to access the selected item.

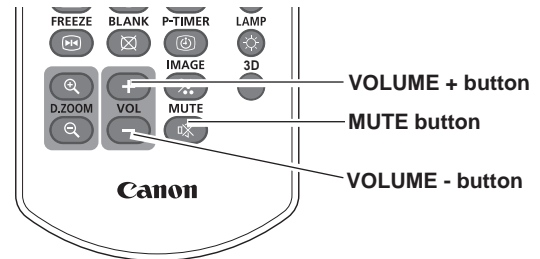
#### Volume

Press the Point ► button to turn up the volume; press the Point ◀ button to turn down the volume.

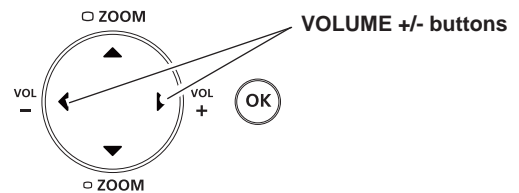
#### Mute

Press the OK button to switch the Mute function **On/Off**. When the sound is turned off, **On** is displayed. Press the VOLUME +/- buttons again to turn the sound back on.

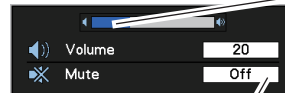
### Remote Controller



### Top Control



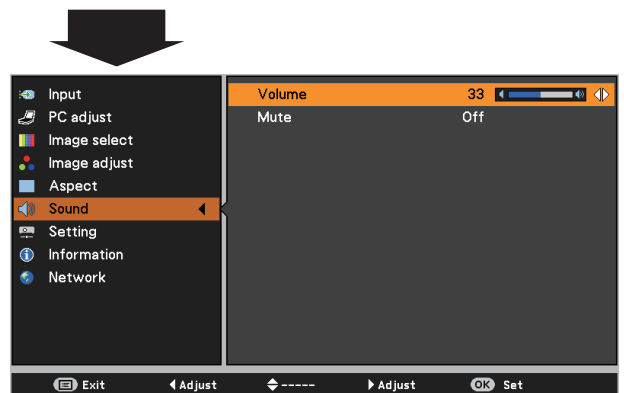
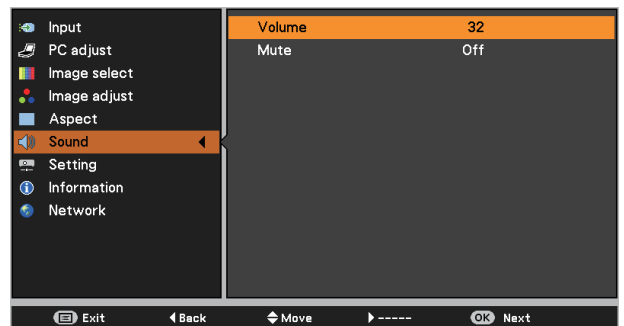
### Volume Dialog Box



Approximate level of the volume.

Press the MUTE button to set the Mute function **On** or **Off**. The dialog box disappears after 4 seconds.

### Sound Menu



## Remote Controller Operation

Using the remote controller for some frequently used operations is advisable. Just pressing one of the buttons enables you to make the desired operation quickly without calling up the On-Screen Menu.

### COMPUTER 1, COMPUTER 2, HDMI buttons

### VIDEO, S-VIDEO, COMPONENT buttons

Press the COMPUTER 1/2, HDMI, VIDEO, S-VIDEO and COMPONENT buttons on the remote controller to select the input source. See pages 32-33, 43-44 for details.

### FREEZE button

Press the FREEZE button on the remote controller to freeze the picture on the screen and turn off the sound. To cancel the Freeze function, press the FREEZE button again or press any other button.

Fig.1 will appear on the Screen menu while the Freeze function is working.



Fig.1

#### ✓ Note:

When use the MUTE button to release the Freeze function, the mute function can not be operated at the same time.

### INFO. button

Display the input source information: **Input, H-sync freq., V-sync freq., Aspect, Language, Lamp status, Lamp counter, Power management mode, Key lock, PIN code lock, Remote controller and SERIAL NO..** (p.65)

### D.ZOOM +/- buttons

Press the D.ZOOM +/- buttons on the remote controller to enter to the D. zoom +/- mode. See page 41 for details.

### LAMP button

Press the LAMP button on the remote controller to select the lamp mode for changing the brightness on the screen.

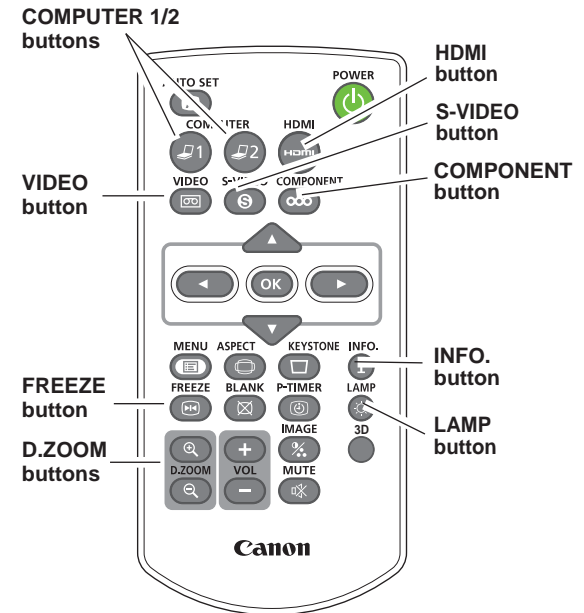


**Normal** ..... Normal brightness.



**Eco** ..... Lower brightness reduces the lamp power consumption and extends the lamp life.

## Remote Controller

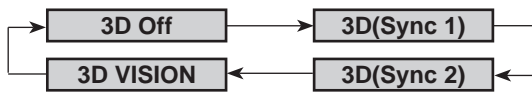


#### ✓ Note:

See the next page for the description of other buttons.

## 3D button

Select 3D mode from **3D Off**, **3D (Sync. 1)** and **3D (Sync. 2)** (p.50-51)



\* The 3D indicator on the control panel emits blue at 3D (Sync 1), 3D(Sync 2) and 3D VISION. (p.50-51)

## BLANK button

Press the BLANK button on the remote controller to black out the image. To restore to normal, press the BLANK button again or press any other button. When the projected image is captured and is set as **User** in the Logo selection (p.55), the screen changes each time you press the BLANK button as follows.

black out → the captured image → normal → . . . . .

### ✓ Note:

When use the MUTE button to release the Blank function, the mute function can not be operated at the same time.

## P-TIMER button

Press the P-TIMER button on the remote controller. The Timer display "00 : 00" appears on the screen and starts to count time (00 : 00–59 : 59).

To stop the P-TIMER, press the P-TIMER button.

To cancel the P-TIMER, press the P-TIMER button again.

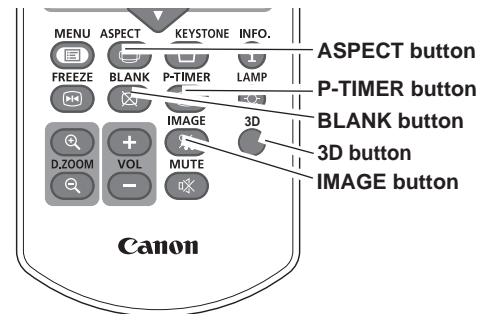
## IMAGE button

Press the IMAGE button on the remote controller to select a desired image mode of the screen. See page 38 for details.

## ASPECT button

Select the screen size (See pages 40-42, 48-49 for details).

## Remote Controller



### ✓ Note:

See the previous page for the description of other buttons.

## BLANK



Blank disappears after 4 seconds.

## P-Timer



# Computer Input

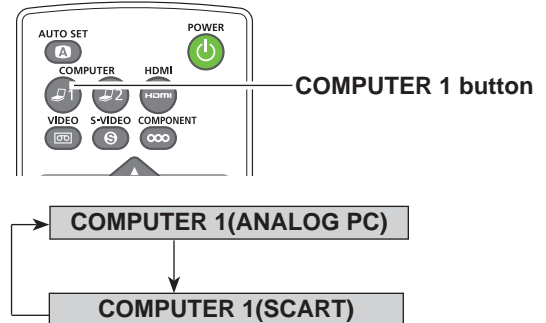
## Input Source Selection (COMPUTER 1: ANALOG PC)

### Direct Operation

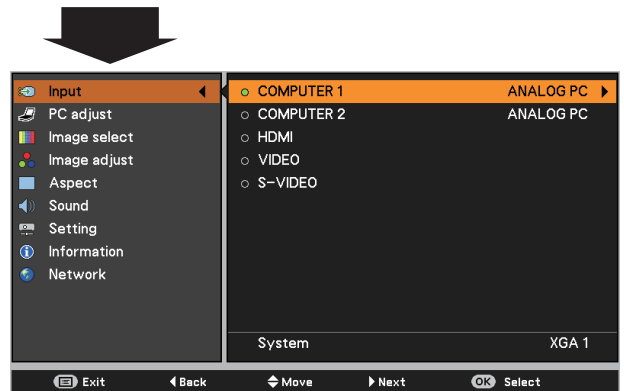
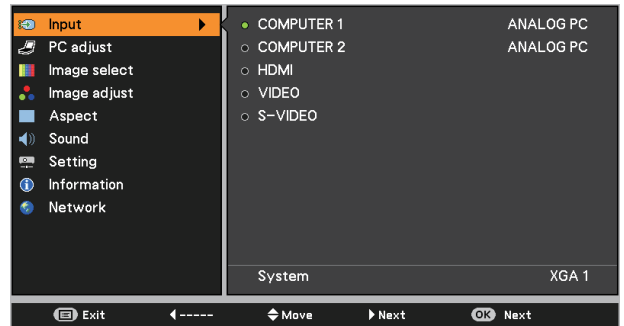
Choose **COMPUTER 1(ANALOG PC)** by pressing the COMPUTER 1 button on the remote controller.

Before using these buttons, correct input source should be selected through Menu operation as described below.

### Remote Controller



### Input Menu



### Menu Operation

- 1 Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select **Input** and then press the Point ► or the OK button.
- 2 Use the Point ▲▼ buttons to select **COMPUTER 1**.
- 3 When **COMPUTER 1** is selected, press the Point ► to access the submenu items. Use the Point ▲▼ buttons to select the ANALOG PC input source and then press the OK button.

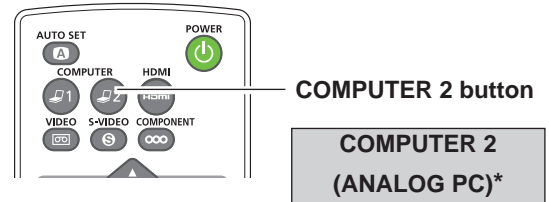
✓ **Note:**  
When the Auto input function is set to **On 1** or **On 2** in the Auto setup function, the input signal will be searched automatically (p.53).

## Input Source Selection (COMPUTER 2: ANALOG PC)

### Direct Operation

Choose **COMPUTER2 (ANALOG PC)** by press the COMPUTER 2 button on the remote controller.

### Remote Controller



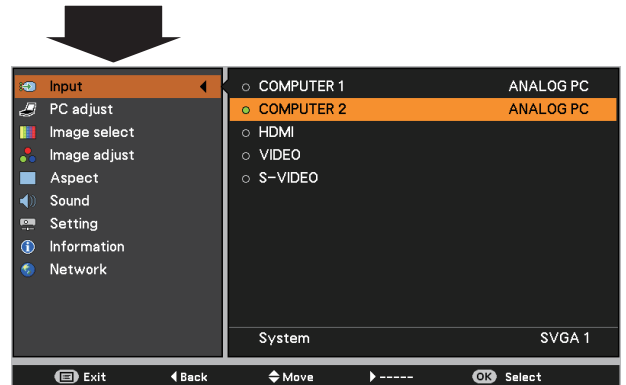
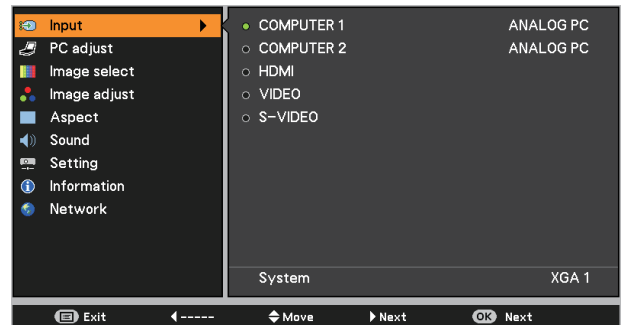
#### ✓ Note:

\* *COMPUTER 2 can not be selected when using the COMPUTER IN 2/ MONITOR OUT terminal as MONITOR OUT. "Monitor out" message will appear on the screen when COMPUTER 2 button is pressed while using the COMPUTER IN 2/ MONITOR OUT terminal as MONITOR OUT.*

### Menu Operation

- 1 Press the MENU button to display the On-Screen Menu. Press the Point ▲▼ buttons, move the highlight to **Input** and then press the Point ► or the OK button.
- 2 Use the Point ▲▼ buttons to select **COMPUTER 2** and then press the OK button.
- 3 When **COMPUTER 2** is selected, ANALOG PC input source will be selected directly.

### Input Menu



#### ✓ Note:

*When the Auto input function is set to On 1 or On 2 in the Auto setup function, the input signal will be searched automatically (p.53).*



## Computer System Selection

This projector automatically tunes to various types of computers with its Multi-scan system and Auto PC adjustment. If a computer is selected as a signal source, this projector automatically detects the signal format and tunes to project a proper image without any additional settings. (Signal formats provided in this projector are shown on pages 77-78.)

One of the following messages may appear when:

**Auto** When the projector can not recognize the connected signal conforming to the provided PC Systems, **Auto** is displayed on the System Menu box and the Auto PC adjustment function works to display proper images. If the image is not projected properly, a manual adjustment is required. (pp.36-37)

**-----** There is no signal input from the computer. Check the connection between your computer and the projector. (See “Troubleshooting” on page 71.)

**Mode 1** The preset system is manually adjusted in the PC adjust Menu. The adjusted data can be stored in **Mode 1-10**. (pp.36-37)

**XGA 1** PC Systems provided in this projector is chosen. The projector chooses a proper system provided in the projector and displays it.

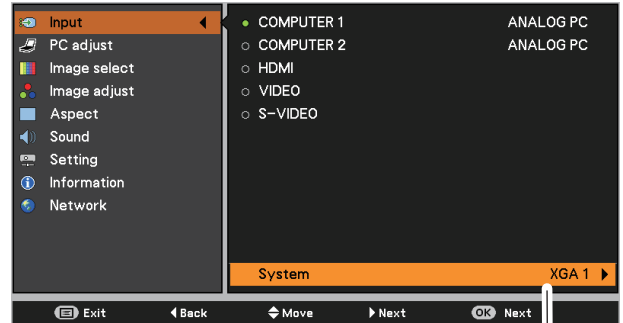
\* **Mode 1** and **XGA 1** are examples.

### Selecting Computer System Manually

PC system can also be selected manually.

- 1 Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select **Input** and then press the Point ► or the OK button.
- 2 Use the Point ▲▼ buttons to select **System** and then press the Point ► or the OK button.
- 3 Use the Point ▲▼ buttons to select the desired system and then press the OK button.

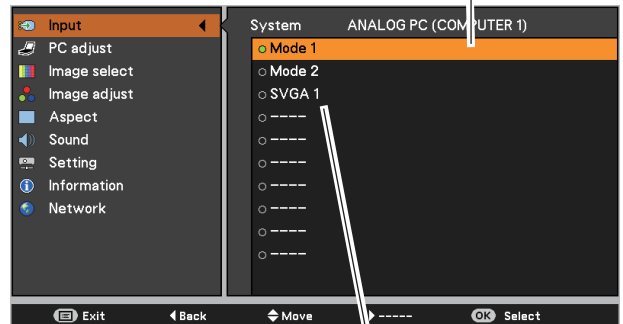
### PC System Menu



Selected system in the PC System Menu is displayed.

Customized **Mode (1-10)** set in the PC adjust Menu (pp.36-37).

### PC System Menu



Systems in this dialog box can be selected.

## Auto PC adjustment

Auto PC adjustment function is provided to automatically adjust **Fine sync**, **Total dots**, **Horizontal position**, **Vertical position** and **Clamp** position to conform to your computer.

### Menu Operation

#### Auto PC

- 1 Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select **PC adjust** and then press the Point ► or the OK button.
- 2 Use the Point ▲▼ buttons to select **Auto PC** and then press the OK button.

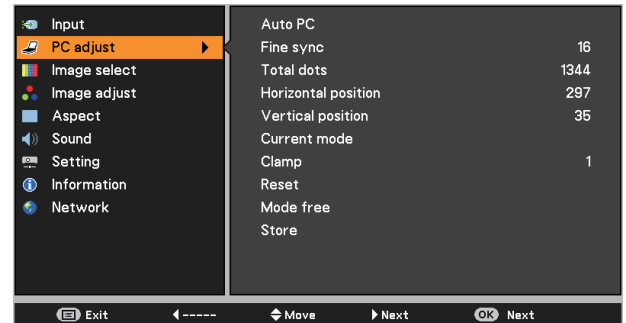
#### To store adjustment parameters

The adjusted parameters from the Auto PC adjustment can be stored in the projector. Once the parameters are stored, the setting can be done just by selecting a **Mode (1–10)** in the PC System Menu (See page 34). See also “Store” on page 37.

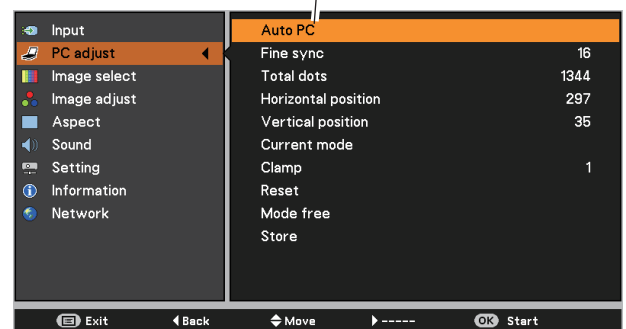
#### ✓ Note:

- **Fine sync**, **Total dots**, **Horizontal position** and **Vertical position** of some computers can not be fully adjusted with the Auto PC adjustment function. When the image is not provided properly with this operation, manual adjustments are required (pp.36-37).
- The Auto PC adjustment can not be operated when **480i**, **575i**, **480p**, **575p**, **720p** or **1080i** is selected in the PC System Menu (p.34), or when the signal is coming from the HDMI terminal.

#### PC adjust Menu



Use Point ▲▼ buttons to select **Auto PC** and press the OK button. **Please wait...** appears while the Auto PC adjustment is in process.



## Manual PC adjustment

Some computers employ special signal formats which may not be tuned by Multi-scan system of this projector. Manual PC adjustment enables you to precisely adjust several parameters to match those signal formats. The projector has 10 independent memory areas to store those parameters manually adjusted. It allows you to recall the setting for a specific computer.

- 1 Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select **PC adjust** and then press the Point ► or the OK button.
- 2 Use the Point ▲▼ buttons to select the desired item and then press the OK button to display the adjustment dialog box. Use the Point ◀▶ buttons to adjust the setting value.

### Fine sync

Use the Point ◀▶ buttons to adjust the value, eliminating a flicker from the image displayed (from 0 to 31).

### Total dots

Use the Point ◀▶ buttons to adjust the number of total dots in one horizontal period to match your PC image.

### Horizontal position

Use the Point ◀▶ buttons to adjust the horizontal picture position.

### Vertical position

Use the Point ◀▶ buttons to adjust the vertical picture position.

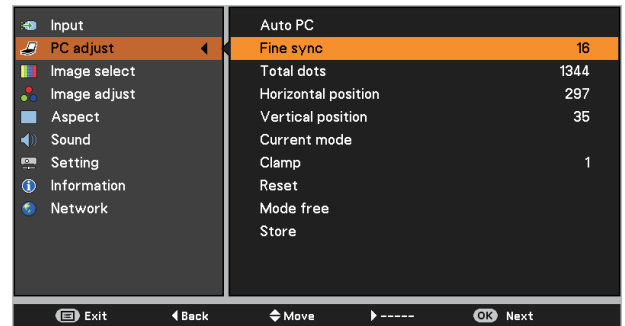
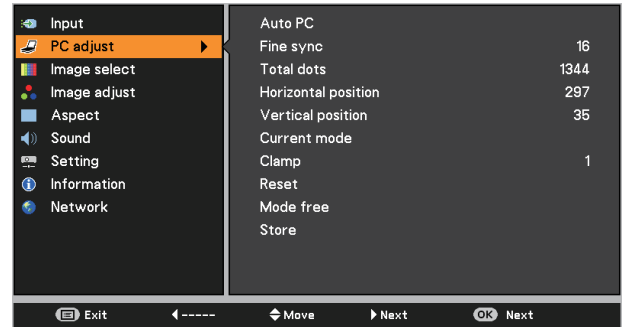
### Current mode

Press the OK button to show **H-sync freq.** and **V-sync freq.** of the connected computer.

### Clamp

Use the Point ◀▶ buttons to adjust the clamp level. When the image has dark bars, try this adjustment.

### PC adjust Menu



### ✓ Note:

*Fine sync and Total dots cannot be selected when the input signal is 480i, 480p, 575i, 575p, 720p or 1080i.*

## Reset

To reset the adjusted data, select **Reset** and press the OK button. A confirmation box appears and then select **Yes**. All adjustments will return to their previous figures.

## Mode free

To clear the stored data, select **Mode free** and then press the Point ► or the OK button. Move the highlight to the Mode that you want to clear and then press the OK button.

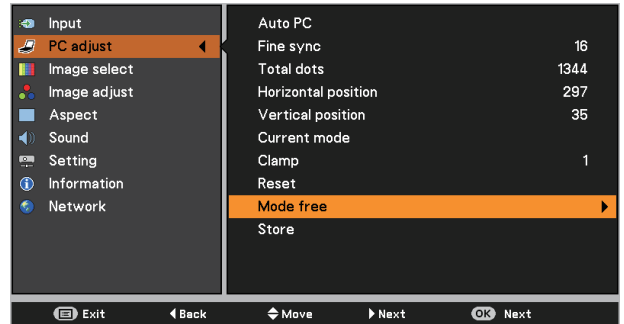
## Store

To store the adjusted data, select **Store** and then press the Point ► or the OK button. Move the highlight to one of the Modes 1 to 10 in which you want to store, and then press the OK button.

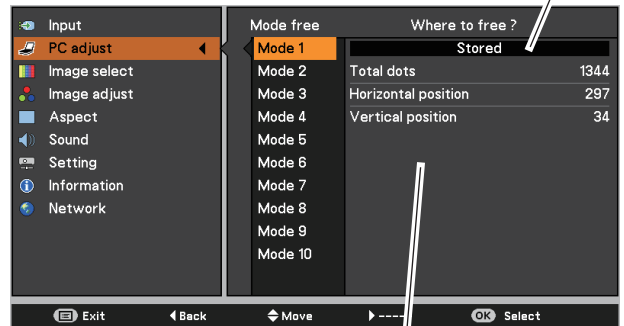
### ✓ Note:

- When input computer signal to the projector, **PC adjust** will become available.

## Mode free Menu

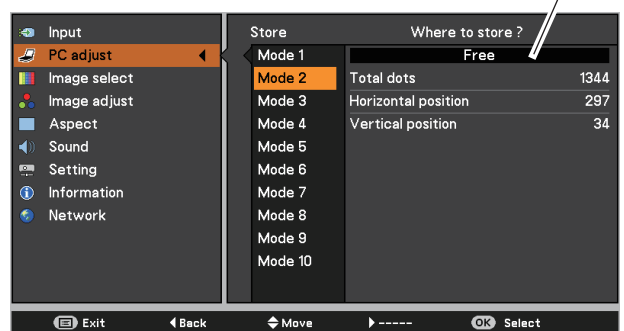


This Mode has stored parameters.



Values of **Total dots**, **Horizontal position**, and **Vertical position**.

## Store Menu



Vacant

Press MENU button to close this dialog box.

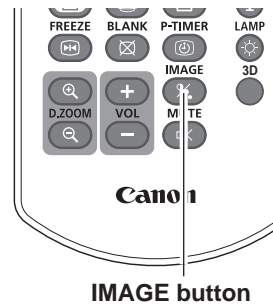
Press OK button to store adjusted data.

## Image Mode Selection

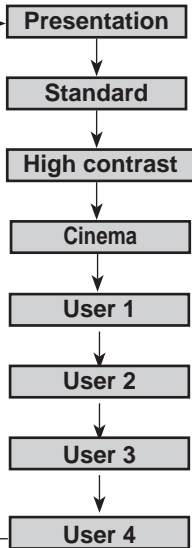
### Direct Operation

Select the desired image mode among **Presentation**, **Standard**, **High contrast**, **Cinema**, **User 1**, **User 2**, **User 3**, and **User 4** by pressing the IMAGE button on the remote controller.

### Remote Controller



### IMAGE button



### Menu Operation

- 1 Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select **Image select** and then press the Point ► or the OK button.
- 2 Use the Point ▲▼ buttons to select the desired item and then press the OK button.

#### Presentation

For viewing pictures in a bright room.

#### Standard

Normal picture mode preset on the projector.

#### High contrast

Picture mode with improved halftone for graphics.

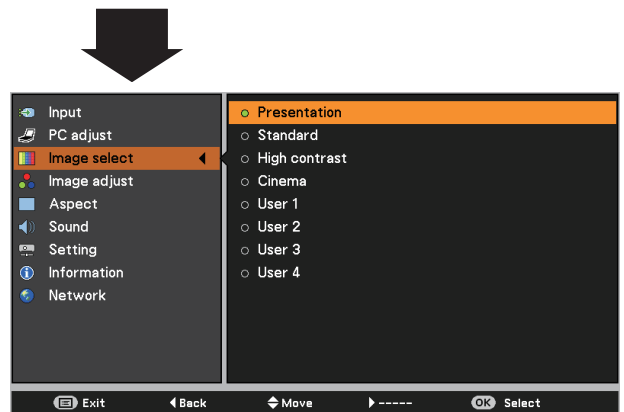
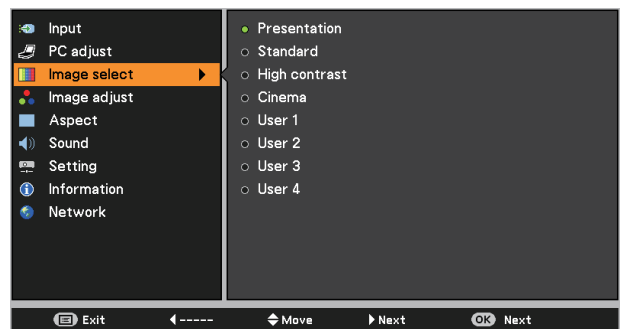
#### Cinema

Picture mode adjusted with fine tone.

#### User 1-4

For viewing with the user preset image mode in the Image adjust Menu (See page 39).

### Image Select Menu



## Image Adjustment

- 1 Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select **Image adjust** and then press the Point ► or the OK button.
- 2 Use the Point ▲▼ buttons select the desired item and then press the OK button to display the adjustment dialog box. Use the Point ◀▶ buttons to adjust the setting value.

### Contrast

Press the Point ◀ button to decrease the contrast; press the Point ► button to increase the contrast (from 0 to 63).

### Brightness

Press the Point ◀ button to decrease the brightness; press the Point ► button to increase the brightness (from 0 to 63).

### Color temp.

Use the Point ◀▶ buttons to select the desired Color temp. level (**XLow**, **Low**, **Mid**, or **High**).

### White balance (Red / Green / Blue)

Press the Point ◀ button to lighten R/G/B tone; press the Point ► button to deepen R/G/B tone (from 0 to 63).

### Sharpness

Press the Point ◀ button to decrease the sharpness of the image; press the Point ► button to increase the sharpness of the image (from 0 to 15).

### Gamma

Use the Point ◀▶ buttons to adjust the gamma value to obtain a better balance of contrast (**Default**, **1.8**, **2.0**, **2.2**, **2.4**, or **2.6**).

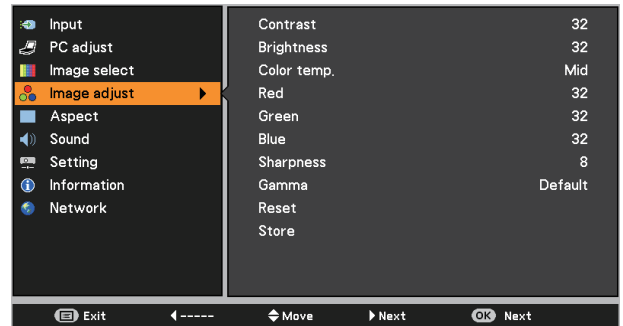
### Reset

To reset the adjusted data, select **Reset** and press the OK button. A confirmation box appears and then select **Yes**. All adjustments will return to their previous figures.

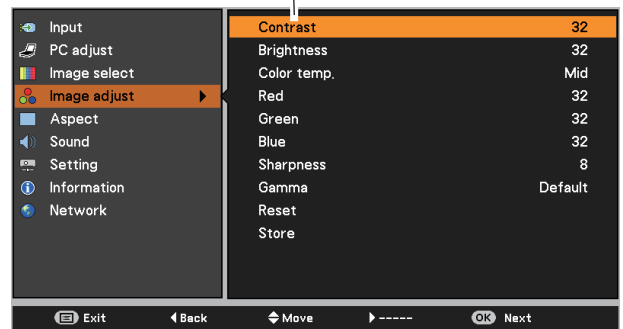
### Store

To store the adjusted data, select **Store** and press the Point ► or the OK button. Use the Point ▲▼ buttons to select one from **User 1** to **4** and press the OK button. A confirmation box appears and then select **Yes**. Stored data can be called up by selecting an **User (1-4)** in the Image Mode Selection on page 36.

### Image adjust Menu



Selected Image mode



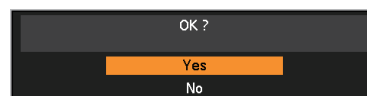
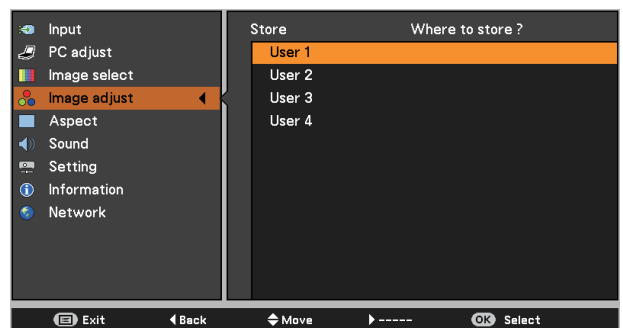
Use the Point ◀▶ buttons to adjust the setting value.



### ✓ Note:

- When White balance **Red**, **Green** or **Blue** is adjusted, **Color temp.** will change to **User**.

### Store Menu



A confirmation box appears and then select **Yes**.

## Screen Size Adjustment

This projector has the picture screen resize function, which enables you to customize the image size.

- 1 Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select **Aspect** and then press the Point ► or the OK button.
- 2 Use the Point ▲▼ buttons select the desired item and then press the OK button .

### Normal

Provide the image to fit the screen size while maintaining the aspect ratio of input signal.

### Full

Provide the full screen image.

### 16:9

Provide the image at the 16:9 wide screen ratio.

### Zoom

Scale the image proportionally to fit the entire screen. Either side of image may go over the screen.

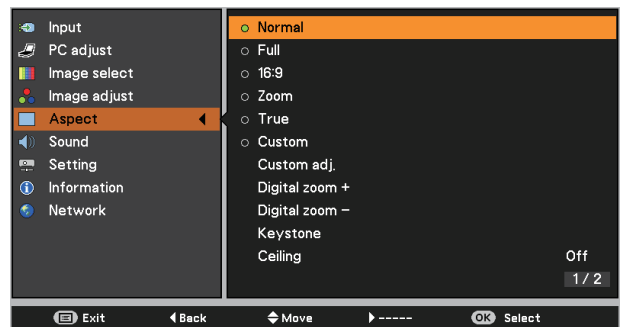
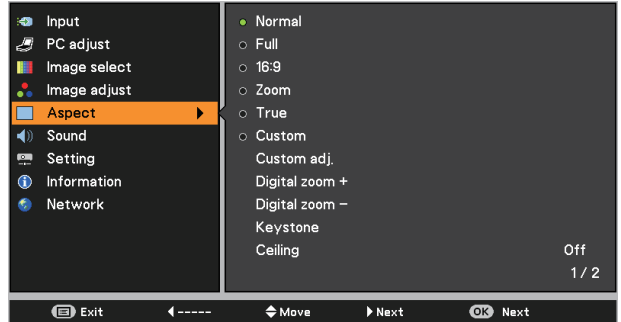
### True

Provide the image in its original size. When the original image size is larger than the panel resolution (DLP chip 1280 x 800 dots), the projector automatically switches to the panning mode. Use the Point ▲▼◀▶ buttons to pan the image. When adjusted, the arrows turn red. When reached to the correction limit, the arrows disappear.

### Custom

Provide the last stored aspect screen image.

### Screen Menu



#### ✓ Note:

- This projector can not display any resolution higher than 1920 x 1200. If your computer's resolution is higher than that, lower the resolution before connecting to the projector.
- The image data other than 1280 x 800 is modified to fit the screen size in initial mode.
- **True** and **Digital zoom +/-** can not be selected when **480i**, **575i**, **480p**, or **575p** is selected in the PC System Menu (p.34).
- **Zoom** and **Image Position Adjustment** (p.27) will be canceled when **Custom** is selected in the Screen menu.



**Custom adj.**

Adjust the screen scale and position manually with this function.

Press the Point ► button at **Custom adj.** and the Custom adjustment menu is displayed on the screen, you can use the Point ▲▼ buttons to choose the item you want to adjust.

- Scale H/V** ..... Adjust the Horizontal/Vertical screen scale.
- H&V** ..... When set to **On**, the aspect ratio is fixed. **Scale V** appears dimmed and becomes unavailable. Adjust **Scale H**, then the screen scale is automatically modified based on the aspect ratio.
- Position H/V** ..... Adjust the Horizontal/Vertical screen position.
- Common** ..... Save the adjusted scale or position to all the inputs. Press the OK button at **Common** to display a confirmation box. To save the scale or position, press the OK button at "Yes". When **Custom** is selected, the saved scale or position is used.
- Reset** ..... Reset the all adjusted values. Press the OK button at **Reset** to display a confirmation box. To reset, press the OK button at "Yes".

**Digital zoom +**

Select **Digital zoom +**. The On-Screen Menu disappears and **D. zoom +** appears. Press the OK button to expand the image size. Use the Point ▲▼◀▶ buttons to pan the image. The Panning function can work only when the image is larger than the screen size.

A projected image can be also expanded by pressing the **D.ZOOM +** or the OK button on the remote controller.

**Digital zoom -**

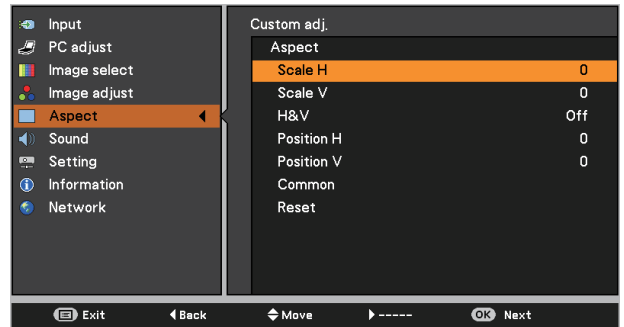
Select **Digital zoom -**. The On-Screen Menu disappears and **D. zoom -** appears. Press the OK button to compress image size.

The projected image can be also compressed by pressing the **D.ZOOM -** or the OK button on the remote controller.

To exit the Digital zoom +/- mode, press any button except the **D.ZOOM +/-** and the OK buttons.

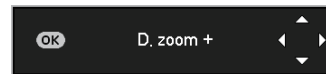
To return to the previous screen size, select a screen size from the Screen Size Adjustment Menu or select an input source from the Input Source Selection Menu (See pages 32-33) again, or adjust the screen size with the **D.ZOOM +/-** buttons.

**Custom adj. Menu**

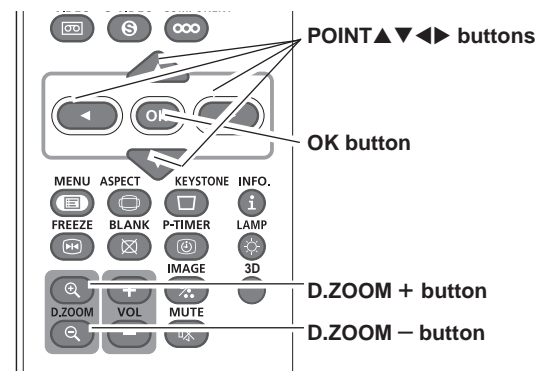


- ✓ **Note:**
- When no signal is detected, **Normal** is set automatically and **Custom adj.** cannot be selected and the Aspect dialog box disappears.
  - The adjustable range for **Scale H/V** and **Position H/V** is limited depending on the input signal.

**D.ZOOM +/-**



**Remote Controller**



- ✓ **Note:**
- The panning function may not operate properly if the stored Mode in the PC adjust Menu is used (p.37).
  - The minimum compression ratio is limited depending on the input signal, when the Keystone function is working or when Custom is selected for the screen size.
  - **True** and **Digital zoom +/-** can not be selected when **480i**, **575i**, **480p**, or **575p** is selected in the PC System Menu (p.34).
  - **Digital zoom +/-** can not be selected when **True** is selected in the Screen menu. (p.40)

## Keystone

This function is used to adjust keystone distortion of the projected image. Use the Point ▲▼ buttons to choose the item you want to adjust.

### Keystone

To correct keystone distortion, press the OK button. Keystone appears on the screen. Use the Point ▲▼ buttons to correct keystone distortion (p.28).

### Store

To store or reset the keystone correction, press the Point ► button.

**Store** ..... Keep the keystone correction even when the AC power cord is unplugged.

**Reset**..... Release the keystone correction when the AC power cord is unplugged.

## Ceiling

When this function is set to **On**, the picture will be top/bottom and left/right reversed. This function is used to project the image from a ceiling-mounted projector.

## Rear

When this function is set to **On**, the picture will be left/right reversed. This function is used to project the image from rear of the screen.

## Screen aspect

This function is used to project the image to a 4:3 or 16:9 projection screen.

**4:3** ..... Set to a 4:3 projection screen.

**16:9** ..... Set to a 16:9 projection screen.

**Default(16:10)**.... 16:10 is the aspect of the DLP chip. The original Screen Menu is available.

## Colorboard

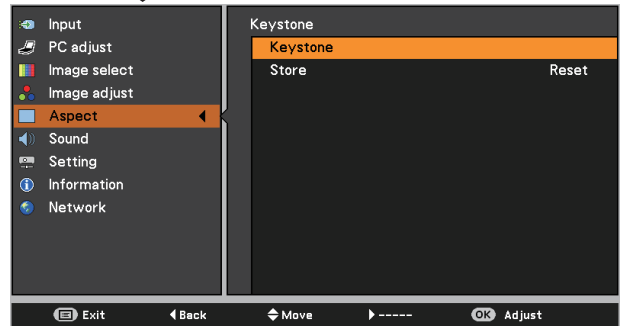
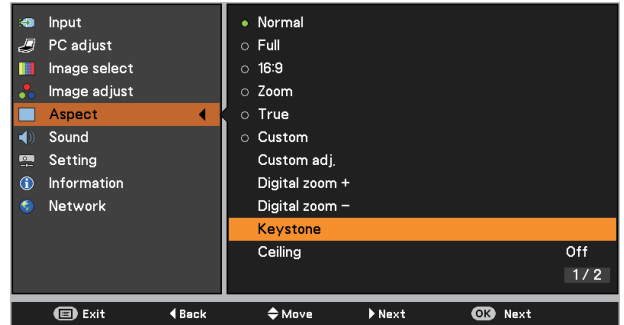
Press the Point ► button at **Colorboard**, and then use the Point ▲▼ buttons to switch the desired item [**Red, Blue, Yellow, Green, Blackboard(Green)**] and then press the OK button.

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 colors.

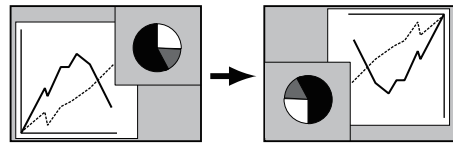
## Reset

To reset the adjusted data, select **Reset** and press the OK button. A confirmation box appears and then select **Yes**. All adjustments will return to their previous figures.

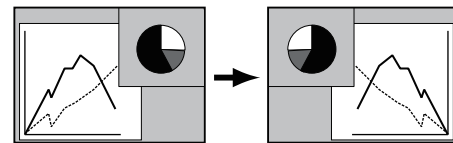
## Keystone



## Ceiling



## Rear



### ✓ Note:

- When **4:3** is selected, **True** is not available in the PC screen (p.40).
- When **16:9** is selected, **16:9** is not available in the PC screen (p.40).
- When the screen size is resized by the **ZOOM +/-** button on the top control and then **4:3** or **16:9** is selected, the screen size will be reset and the Screen aspect is available.



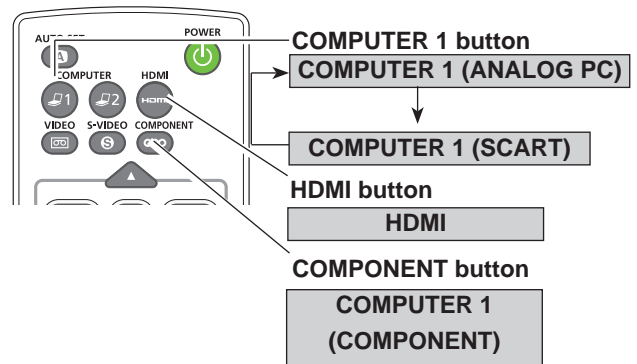
## Input Source Selection (COMPONENT, SCART, HDMI)

### Direct Operation

Choose **COMPUTER 1 (COMPONENT)** or **COMPUTER 1 (SCART)** by pressing the COMPONENT or COMPUTER 1 button on the remote controller; choose **HDMI** by pressing the HDMI button on the remote controller.

Before using these buttons, correct input source should be selected through Menu operation as described below.

### Remote Controller



### Menu Operation

- 1 Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select **Input** and then press the Point ► or the OK button.
- 2 Use the Point ▲▼ buttons to select **COMPUTER 1** and then press the Point ► button; use the Point ▲▼ buttons to select **ANALOG PC**, **COMPONENT** or **SCART** and then press the OK button.

**OR**

Use the Point ▲▼ buttons to select **HDMI**, and then press the OK button;

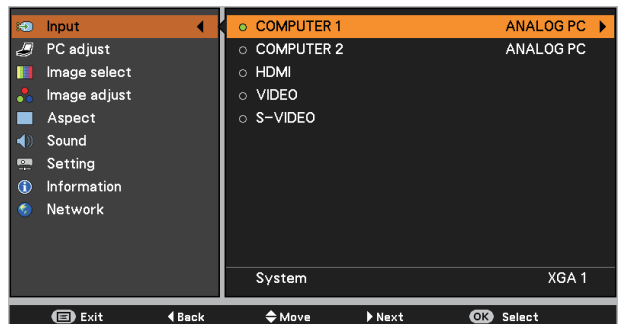
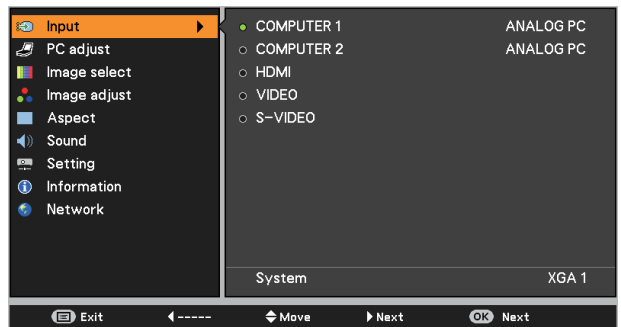
**COMPONENT** When the input source is coming from video equipment connected to the COMPUTER IN 1/COMPONENT IN terminal with a Component-VGA Cable, select **COMPONENT**.

**SCART** When the input source is coming from video equipment connected to the COMPUTER IN 1/S-VIDEO IN/COMPONENT IN terminal with a Scart-VGA Cable, select **SCART**.

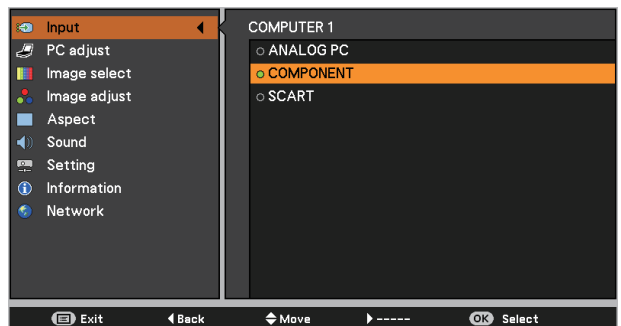
**HDMI** When the video signal is connected to the HDMI terminal, select **HDMI**.

✓ **Note:**  
When the Auto input function is set to **On 1** or **On 2** in the Auto setup function, the input signal will be searched automatically (p.53).

### Input Menu



Press the Point ▲▼ buttons to select **COMPONENT** or **SCART**.

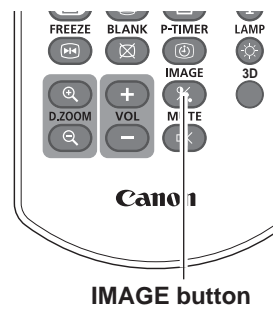


## Image Mode Selection

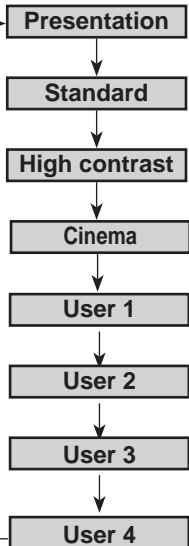
### Direct Operation

Select the desired image mode among **Presentation**, **Standard**, **High contrast**, **Cinema**, **User 1**, **User 2**, **User 3**, and **User 4** by pressing the IMAGE button on the remote controller.

### Remote Controller



### IMAGE button



### Menu Operation

- 1 Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select **Image select** and then press the Point ► or the OK button.
- 2 Use the Point ▲▼ buttons to select the desired item and then press the OK button.

#### Presentation

For viewing pictures in a bright room.

#### Standard

Normal picture mode preset on the projector.

#### High contrast

Picture mode with improved halftone for graphics.

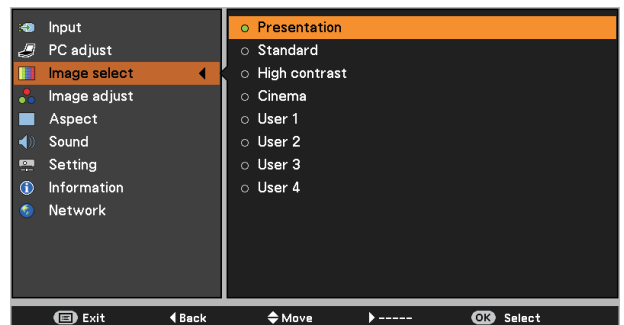
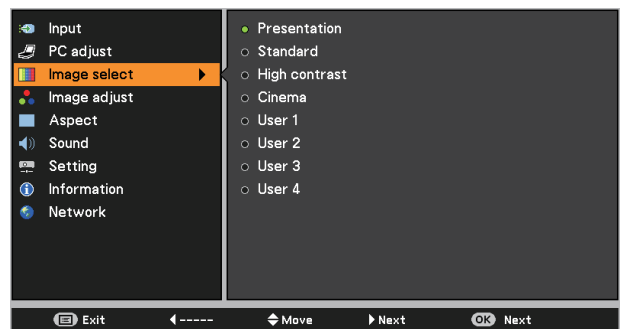
#### Cinema

Picture mode adjusted with fine tone.

#### User 1-4

For viewing with the user preset image mode in the Image adjust Menu (See pages 46, 47).

### Image Select Menu



## Image Adjustment

- 1 Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select the **Image adjust** and then press the Point ► or the OK button.
- 2 Use the Point ▲▼ buttons select the desired item and then press the OK button to display the adjustment dialog box. Use the Point ◀▶ buttons to adjust the setting value.

### Contrast

Press the Point ◀ button to decrease the contrast; press the Point ► button to increase the contrast (from 0 to 63).

### Brightness

Press the Point ◀ button to decrease the brightness; press the Point ► button to increase the brightness (from 0 to 63).

### Color

Press the Point ◀ button decrease the intensity of the color; press the Point ► button increase the intensity of the color (from 0 to 63).

### Tint

Press the Point ◀▶ buttons to adjust the tint value to get a proper color balance (from 0 to 63).

### Color temp.

Use the Point ◀▶ buttons to select the desired Color temp. level (Xlow, Low, Mid, or High).

### White balance (Red)

Press the Point ◀ button to lighten red tone; press the Point ► button to deepen red tone (from 0 to 63).

### White balance (Green)

Press the Point ◀ button to lighten green tone; press the Point ► button to deepen green tone (from 0 to 63).

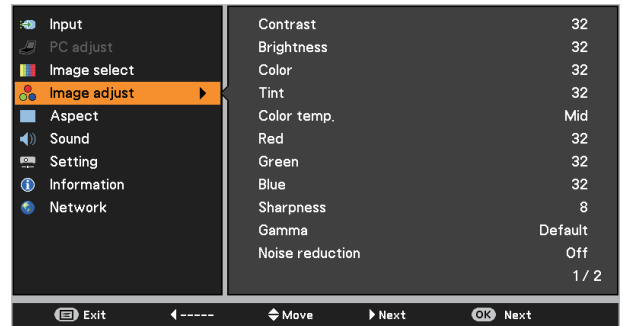
### White balance (Blue)

Press the Point ◀ button to lighten blue tone; press the Point ► button to deepen blue tone (from 0 to 63).

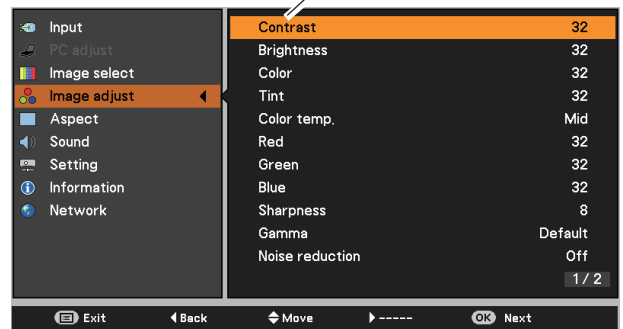
### ✓ Note:

- When the **White balance Red, Green, or Blue** is adjusted, the **Color temp.** level will change to **User**.
- **Tint** can not be selected when the video system is **PAL, SECAM, PAL-M, or PAL-N**.

### Image adjust Menu



### Selected Image mode



Use the Point ◀▶ buttons to adjust the setting value.



### Sharpness

Press the Point ◀ button to decrease the sharpness of the image; press the Point ▶ button to increase the sharpness of the image (from 0 to 15).

### Gamma

Use the Point ◀▶ buttons to adjust the gamma value to obtain a better balance of contrast (**Default, 1.8, 2.0, 2.2, 2.4, or 2.6**).

### Noise reduction

Noise interference on the screen can be reduced. Select one of the following options to get smoother images.

- Off** ..... Disabled.
- L 1** ..... Lower reduction.
- L 2** ..... Higher reduction.

### Progressive

An interlaced video signal can be displayed in progressive mode. Select one of the following options.

- Off** ..... Disabled.
- L 1** ..... For an active picture.
- L 2** ..... For a still picture.
- Film** ..... For watching a film. With this function, the projector reproduces pictures faithful to the original film quality.

### Reset

To reset the adjusted data, select **Reset** and press the OK button. A confirmation box appears and then select **Yes**. All adjustments will return to their previous figures.

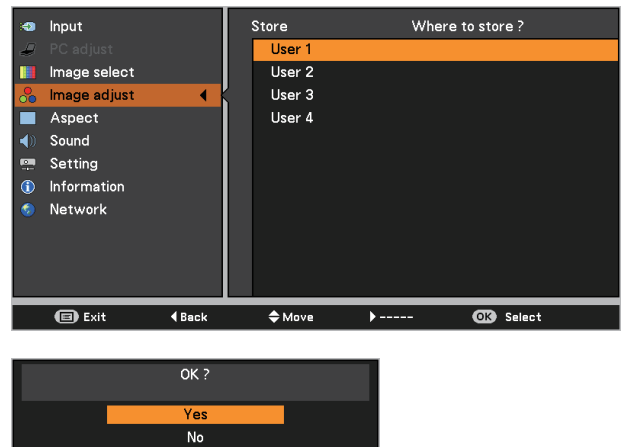
### Store

To store the adjusted data, select **Store** and press the Point ▶ button or the OK button. Use the Point ◀▶ buttons to select one from User 1 to 4 and press the OK button. A confirmation box appears and then select **Yes**. Stored data can be called up by selecting an User (1-4) in the Image Mode Selection on page 45.

#### ✓ Note:

- *Noise reduction and Progressive can not be selected when the input signal is 480p, 575p, 720p or 3D mode is set to On.*
- *Film of Progressive cannot be selected when the input signal is 1080i.*
- *When 480i, 575i, 480p, 575p, 720p or 1080i is selected in computer source, the items of Image adjustment are the same as the items in video source, except for Color and Tint.*

### Store Menu



A confirmation box appears and then select **Yes**.



## Screen Size Adjustment

This projector has the picture screen resize function, which enables you to customize the image size.

- 1 Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select **Aspect** and then press the Point ► or the OK button.
- 2 Use the Point ▲▼ buttons select the desired item and then press the OK button.

### Normal

Provide the image to fit the screen size while maintaining the aspect ratio of input signal.

### Full

Provide the full screen image.

### Zoom

Pan the horizontal direction of the image and cut the vertical direction of the image to fit the screen size (16:9). Only for 4:3 video aspect ratio signals.

### 16:9

Provide the image at the 16:9 wide screen ratio.

### Natural wide

Modify the 4:3 aspect ratio image to fit the screen size (16:9 aspect ratio) by stretching the image to make it look natural.

### Custom

Provide the last stored aspect screen image.

### Custom adj.

Adjust the screen scale and position manually with this function.

Press the Point ► button at **Custom adj.** and the Custom adjustment menu is displayed on the screen, you can use the Point ▲▼ buttons to choose the item you want to adjust.

**Scale H/V** ..... Adjust the Horizontal/Vertical screen scale.

**H&V** ..... When set to **On**, the aspect ratio is fixed.

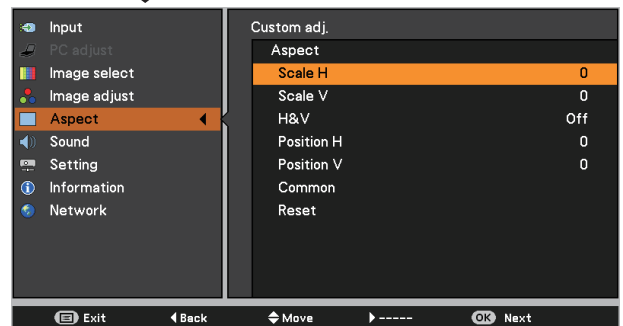
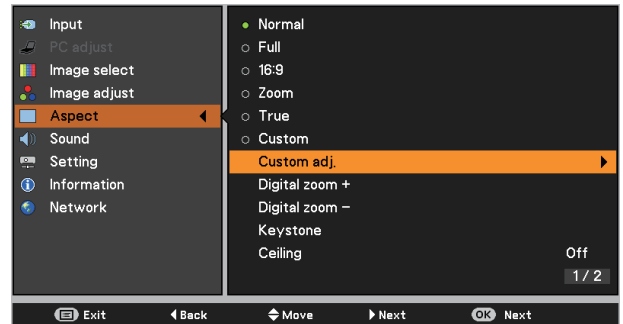
**Scale V** appears dimmed and becomes unavailable. Adjust **Scale H**, then the screen scale is automatically modified based on the aspect ratio.

**Position H/V** ... Adjust the Horizontal/Vertical screen position.

**Common** ..... Save the adjusted scale or position to all the inputs. Press the OK button at Common to display a confirmation box. To save the scale or position, press the OK button at "Yes", When Custom is selected, the saved scale or position is used.

**Reset** ..... Reset the all adjusted values. Press the OK button at **Reset** to display a confirmation box. To reset, press the OK button at "Yes".

### Aspect Menu



### ✓ Note:

- When no signal is detected, **Normal** is set automatically and the Image adjustment menu disappears.
- The adjustable range for **Scale H/V** and **Position H/V** is limited depending on the input signal.
- **Natural wide** and **16:9** can not be operated when **720p** or **1080i** is selected in the AV System Menu (p.45).
- **Natural wide** and **16:9** are not available when the **4:3** or **16:9** is selected in the Screen aspect (p.49).

**Keystone**

This function is used to adjust keystone distortion of the projected image. Use the Point ▲▼ buttons to choose the item you want to adjust.

**Keystone**

To correct keystone distortion, press the OK button. Keystone appears on the screen. Use the Point ▲▼ buttons to correct keystone distortion (p.28).

**Store**

To store or reset the keystone correction, press the Point ► button.

- Store** ..... Keep the keystone correction even when the AC power cord is unplugged.
- Reset**..... Release the keystone correction when the AC power cord is unplugged.

**Ceiling**

When this function is set to **On**, the picture will be top/bottom and left/right reversed. This function is used to project the image from a ceiling-mounted projector.

**Rear**

When this function is set to **On**, the picture will be left/right reversed. This function is used to project the image from rear of the screen.

**Screen aspect**

This function is used to project the image to a 4:3 or 16:9 projection screen.

- 4:3** ..... Set to a 4:3 projection screen.
- 16:9** ..... Set to a 16:9 projection screen.
- Default(16:10)**.... 16:10 is the aspect of the DLP chip. The original Screen Menu is available.

**Colorboard**

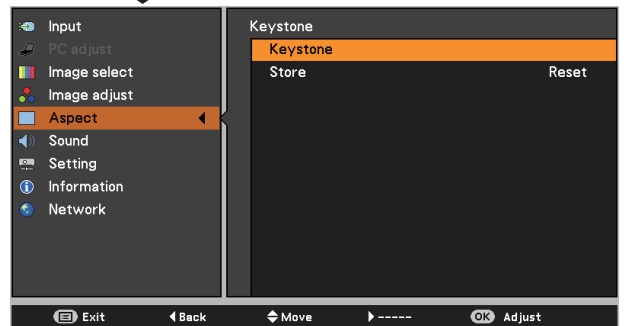
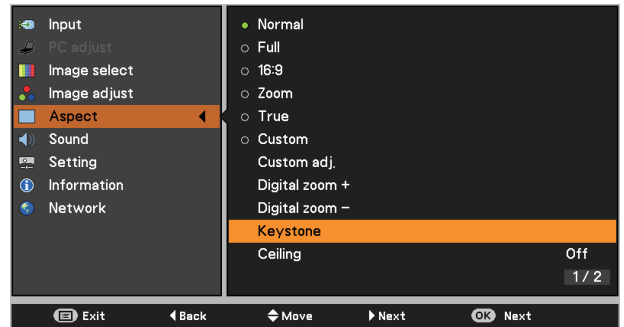
Press the Point ► button at **Colorboard**, and then use the Point ▲▼ buttons to switch the desired item [**Red, Blue, Yellow, Green, Blackboard(Green)**] and then press the OK button.

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 colors.

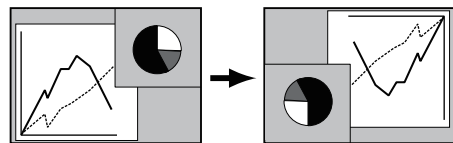
**Reset**

To reset the adjusted data, select **Reset** and press the OK button. A confirmation box appears and then select **Yes**. All adjustments will return to their previous figures.

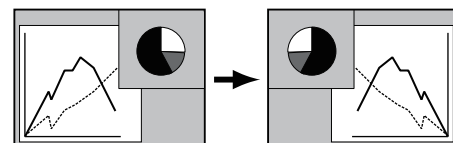
**Keystone**



**Ceiling**



**Rear**



✓ **Note:**

- When **4:3** is selected, **Natural wide** is not available in the AV screen (p.48).
- When **16:9** is selected, **16:9** is not available in the AV screen (p.48).
- When **16:9** is selected and the input signal is **720p** or **1080i**, **Natural wide** is not available in the AV screen (pp.45, 48).
- When the screen size is resized by the **ZOOM +/-** button on the top control and then **4:3** or **16:9** is selected, the screen size will be reset and the Screen aspect will be available.

# 3D Display

## For Viewing 3D Contents

To view 3D images, you need to prepare at least the 3D active shutter glasses, 3D content and 3D reproducing equipment. For example, as for computer, when transmitting 3D signals from a computer to the projector, you also need to install the graphic card which has the capability to sequentially output the 3D frames at 120Hz and software in the computer. The 3D signal type which the projector can accept is frame sequential only. Other 3D signal types such as frame packing and side-by-side are not supported.

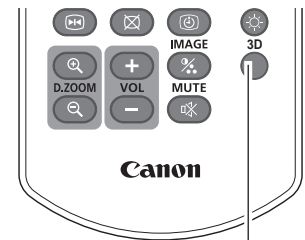
As for 3D glasses, DLP Link format and IR emitter format are compatible with this projector. Compatibility with any other 3D glasses than the 2 types 3D glasses is not guaranteed.



In a situation of using NVIDIA® 3D glasses, NVIDIA IR emitter, and a computer which NVIDIA graphics card is installed, when you want to view NVIDIA-compatible 3D contents, please set to NVIDIA 3D VISION mode.

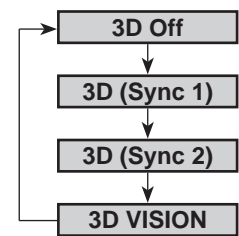
\* COMPUTER IN 2/MONITOR OUT terminal is not supported NVIDIA® 3D VISION™.  
Please input the image signals to COMPUTER IN 1/COMPONENT IN or HDMI terminal.

### Remote Controller



3D button

### 3D Mode



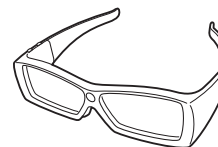
### Using 3D Glasses with DLP Link compatible

When using DLP Link compatible glasses, follow these steps:

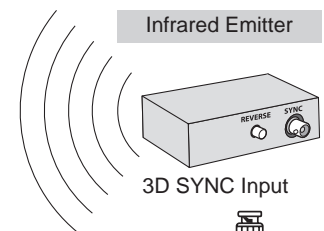
1. Turn on the projector and the 3D glasses.
2. Wear the 3D glasses and press the 3D button on the remote controller to activate 3D Display function. When 3D mode is in On, 3D indicator turns blue.
3. If you see a discrete or overlapping image, 3D Sync Invert function enables you to get the correct image. Press the 3D button to switch 3D Sync signal from among "3D Off", "3D (Sync 1)", "3D (Sync 2)" or "3D VISION".



LCD Glasses with DLP Link compatible



Stereoscopic Wireless LCD Glasses



Infrared Emitter

3D SYNC Input

Sync Signal Cable (Supplied with the IR Emitter)

3D SYNC OUT

3D setting can also be selected from the menu (p.54).

### Using 3D Glasses with IR wireless emitter

When using IR emitter system, follow these steps:

1. Turn off the projector.
2. Connect the sync cable for the IR emitter to 3D SYNC OUT terminal of the projector.
3. Turn on the projector, the IR emitter and the stereoscopic wireless LCD glasses.
4. Wear the 3D glasses and press the 3D button on the remote controller to activate 3D Display function.
5. If you see a discrete or overlapping image, press the 3D button to switch 3D Sync signal from among "3D Off", "3D (Sync 1)", "3D (Sync 2)" or "3D VISION". You can also invert the sync signal by using the switch on the IR emitter.

COMPONENT

VARIABLE

AUDIO OUT

CONTROL PORT

3D SYNC OUT

### ✓ Note:

Unplug the power cords of both the projector and external equipment from the AC outlet before connecting cables.

**CAUTION FOR PROPERLY VIEWING 3D PICTURES**

- The optimum 3D viewing distance from the screen is about 3 m or more and your eyes should be level with the screen.
- Viewing 3D images for an extended period of time or viewing them from an oblique angle can cause eye strain.
- Take breaks when viewing 3D images for an extended period of time. As this may cause eye fatigue.
- Some image sources can cause pseudoscopic image problem. Check the 3D settings to get the 3D effect.
- If the right-eye image and left-eye image are switched, you may not get the 3D effect, resulting in eye strain or nausea.
- There are differences in 3D visual perception between individuals.
- If you get double vision or don't get the 3D effect, discontinue using the projector.
- If you experience fatigue or nausea, stop using the projector.
- After viewing the rotating, swinging, or jumping 3D images, you may experience 3D motion sickness.
- If you experience such symptom, immediately stop viewing the 3D images and take a break until the symptom has subsided.
- If you view 3D images in bright ambient light environment, you may not able to see them clearly. Or if you use the 3D glasses in a room which fluorescent lighting (50Hz), flickering may occur. If these happen, change the room lighting condition by making the room dark or turning off the light.

**RESTRICTIONS ON VIEWING 3D IMAGES**

- Children who are six year of age or younger should not view 3D images.
- Parents should accompany and monitor their children as children cannot properly express discomfort with 3D image viewing.
- Photosensitive patients, patients with heart disease, pregnant women, elderly people, and people with serious illness and/or with a history of epilepsy should not view 3D images
- We advise that you should refrain from viewing 3D images if you are in bad physical condition
- We do not recommend viewing 3D images if you need sleep or have been drinking alcohol.

**TROUBLESHOOTING FOR 3D DISPLAY**

Symptoms	Possible problems	Solution
3D contents appear as 2D.	The glasses or the projector are set to 2D mode.	Change the setting of the glasses or projector.
3D image is inverted. (3D image is not correct.)	3D mode is out of phase. (The data for right/left eyes is inverted.)	Reverse the 3D sync phase of the projector by using 3D button on the remote controller or through the Setting menu of the projector.
Image of glasses has flicker.	Outside of the recommended viewing zone of the glasses.	Move your position closer to the emitter.
Glasses does not turn on.	<ul style="list-style-type: none"> <li>- The battery of the glasses is exhausted.</li> <li>- The projector is not set to 3D mode.</li> </ul>	<ul style="list-style-type: none"> <li>- Recharge the battery.</li> <li>- Change the setting of the projector.</li> </ul>

## Setting

This projector has a Setting Menu that allows you to set up the other various functions described below.

- 1 Press the MENU button to display the On-Screen Menu. Press the Point ▲▼ buttons to select the **Setting** and press the Point ► or the OK button to access the submenu items.
- 2 Use the Point ▲▼ buttons to select the desired item and then press the Point ► or the OK buttons to access the selected item.
- 3 Use the Point ▲▼ buttons select the desired item and then press the OK button.



### Language

The language used in the On-Screen Menu is available in English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Finnish, Norwegian, Danish, Polish, Hungarian, Romanian, Russian, Brazilian Portuguese, Turkish, Arabic, Kazakh, Simplified Chinese, Traditional Chinese, Korean, Japanese and Thai.

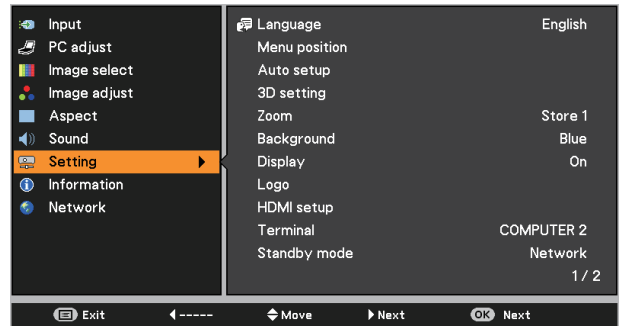
### Menu position

This function is used to change the position of the On-Screen Menu. Select **Menu position** and press the OK button.

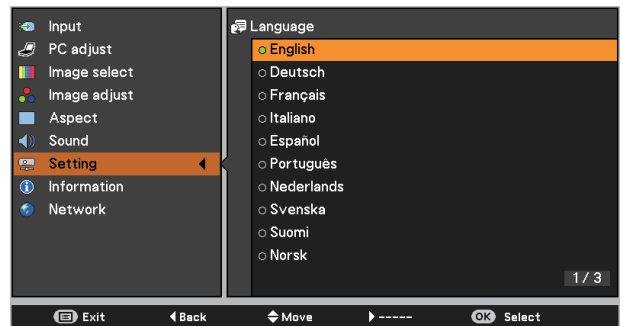
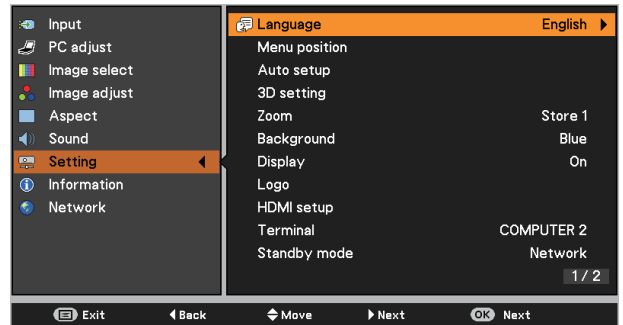
The Menu position changes each time you press the OK button as follows.

the center ➔ the bottom left ➔ the bottom right ➔ the top left ➔ the top right ➔ .....

## Setting Menu



## Language Menu



## Auto setup

This function enables Auto input and Auto PC adjustment by pressing the AUTO SET button on the remote controller. Settings for those functions can be altered as follows:

### Auto input

This function detects the input signal automatically. When a signal is found, the search will stop. Use the Point ▲▼ buttons to select one of the following options.

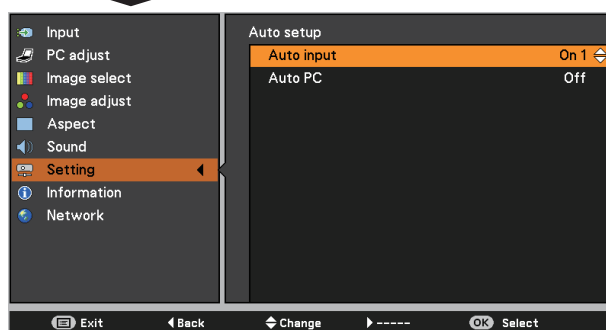
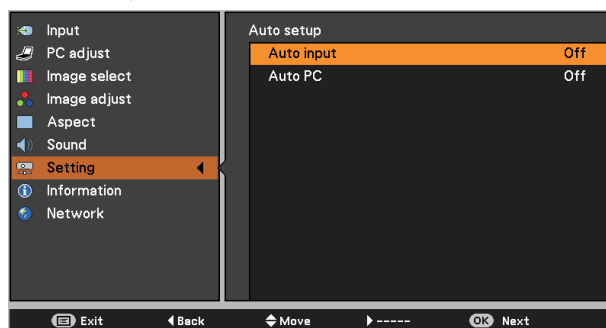
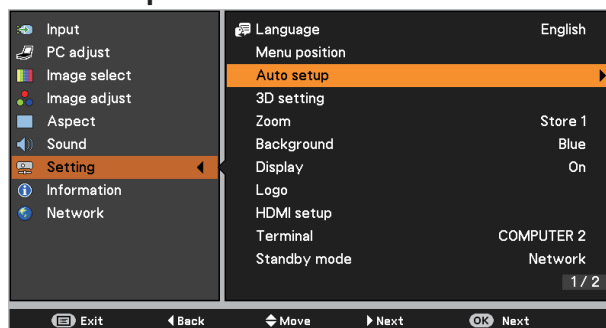
- Off** ..... Auto input does not work.
- On 1** ..... Auto input works under the following situation.
  - When pressing the AUTO SET button on the remote controller.
- On 2** ..... Auto input works under the following situation.
  - When turning on the projector by pressing the POWER button.
  - When pressing the AUTO SET button on the remote controller.
  - When the current input signal is cut off.\*

\* If the Blank or Freeze function is active, cancel it to activate the Auto input. It is also unavailable when On-Screen Menu is displayed.

### Auto PC

- On** ..... Enables Auto PC adjustment when pressing the AUTO SET button on the remote controller.
- Off** ..... Disables Auto PC adjustment.

## Auto setup



### ✓ Note:

- While Auto input function is set to **On 1** or **On 2**, the status of Input and Lamp are displayed every time the signal is switched.
- Only the last selected input source can be detected.
- If the COMPUTER 1/2 button, VIDEO, S-VIDEO, COMPONENT or HDMI button on the remote controller, or POWER or MENU button on the top control is pressed during Auto input is in progress, Auto input will stop and go back to the previous input signal.
- Auto PC and Auto input functions can not be set **Off** at the same time.
- **Fine sync, Total dots, Horizontal position and Vertical position** of some computers can not be fully adjusted with the Auto PC adjustment function. When the image is not provided properly with this operation, manual adjustments are required (pp.36-37).

## 3D setting

This function is used to set the 3D display function. (pp.50-51) Press the Point ▲▼ buttons to switch between each option.

**3D**.....Select among **Off**, **On** and **NVIDIA 3D VISION** mode.

\* When selecting **NVIDIA 3D VISION** mode, the other menus **3D sync**, **3D->2D**, **3D phase** setting are not necessary. (displayed in gray)

**3D sync**....If you see a discrete or overlapping image, 3D Sync Invert function\* enables you to get the correct image. Switch the 3D sync signal to **1** or **2**.

**3D->2D**.....When viewing the 3D contents without wearing the 3D glasses, set to "On" to convert 3D display format to 2D display format.

**3D phase**...Adjust the phase of the 3D sync signal when the 3D SYNC OUT terminal is used. (0 - 31)

\* The Frame Sequential Format is a technology that rapidly alternates between left-eye and right-eye images. When right-eye image and left-eye image are switched or you feel like you cannot get 3D effect due to out-of-synchronization state, first try to synchronize the projector with the 3D glasses by using 3D SYNC function.

## Zoom

This function is used to memorize the Zoom adjustment with the ZOOM +/- buttons on the top control (p.27).

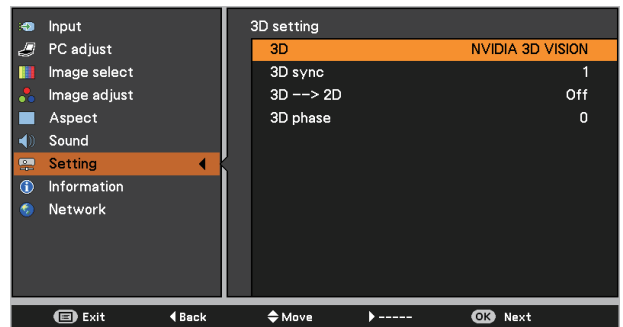
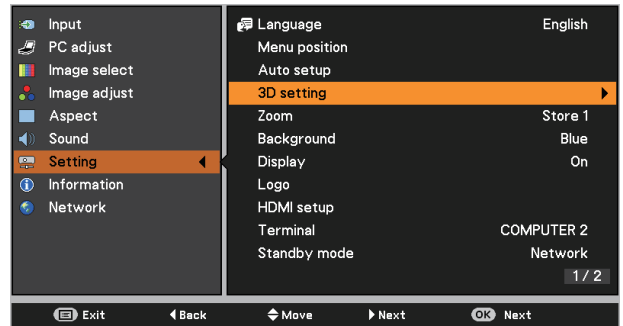
Press the Point ▲▼ buttons to select Reset, Store1 or Store2.

**Reset** . . . Reset the Zoom adjustment when the projector is turned off or the AC power cord is unplugged.

**Store1** . . Store the Zoom setting even when the projector is turned off. Zoom setting is cleared when the AC power cord is unplugged.

**Store2** . . Store the Zoom setting even when the AC power cord is unplugged.

## 3D setting





**Background**

Select the background screen for when no input signal is detected. Press the Point ▲▼ buttons to switch between each option.

- Blue** . . . Project a blue background.
- User** . . . Project an image captured in the Logo setting.
- Black** . . Project a black background.

**Display**

This function decides whether to display On-Screen Displays.

- On** ..... Show all the On-Screen displays. Use this function when you want to project images after the lamp becomes bright enough. The factory default setting is this option.
- Countdown off** ..... Show the input image instead of the countdown when turning on the projector. Use this function when you want to project the image as early as possible even when the lamp is not bright enough.
- Off** ..... Hide the On-Screen Displays except;
  - On-Screen Menu
  - **Power off?** (p.24)
  - **No signal** for Power management. (p.59)
  - **Please wait** ...
  - Arrows for the True mode in the Screen Menu (p.40)
  - **P-Timer**

**Logo (Logo and Logo PIN code lock settings)**

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

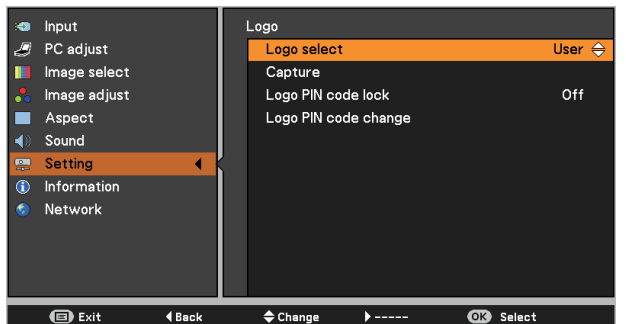
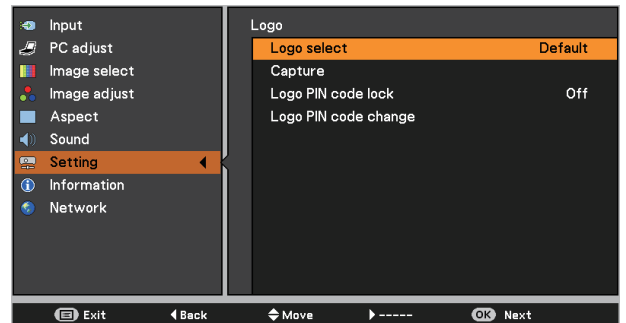
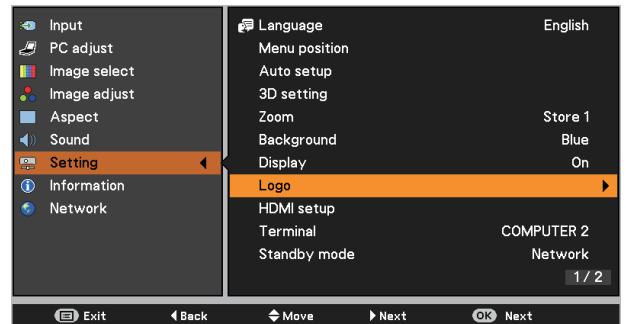
✓ **Note:**  
 When **On** is selected in the Logo PIN code lock function, Logo select and Capture functions can not be selected.

**Logo select**

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

- Off** ..... Show the countdown display only.
- Default** .... Show the factory-set logo.
- User** ..... Show the image you captured.

**Logo select**



## Capture

This function enables you to capture an image being projected to use it for a starting-up display or interval of presentations.

Select **Capture** and press the OK button.

A confirmation box appears and select **Yes** to capture the projected image.

After capturing the projected image, go to the Logo select function and set it to **User**. Then the captured image will be displayed the next time you turn on the projector.

To cancel the capture function, select **Yes** in the "Quit?" confirmation box.

### ✓ Note:

- Before capturing an image, select **Standard** in the Image select Menu to capture a proper image (p.38).
- The output image resolution from a computer can be supported up to the panel resolution (DLP chip 1280 x 800 dots).
- When capturing the image that has been adjusted by the Keystone function, the adjusted data is automatically reset and the projector captures an image without keystone correction.
- When Logo PIN code lock function is set to **On**, **Logo select** and **Capture** can not be selected.
- When starting to capture a new image, the previously stored image is cleared even if you cancel the capturing.
- When there is no captured image or it is interrupted while capturing an image, **User** is not included in Logo Select Menu, you can only switch between **Default** and **Off**.

## Logo PIN code lock

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

**Off** ..... The screen logo can be changed freely from the Logo Menu (p.55).

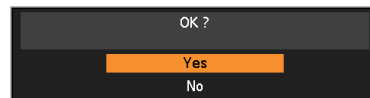
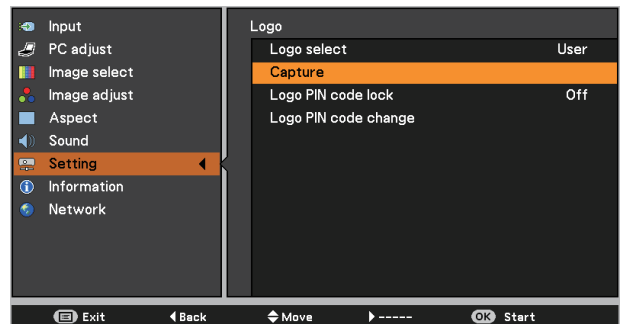
**On** ..... The screen logo can not be changed without a Logo PIN code.

If you want to change the Logo PIN code lock setting, press the OK button and the Logo PIN code dialog box appears. Enter a Logo PIN code by following the steps below. The initial Logo PIN code is set to "4321" at the factory.

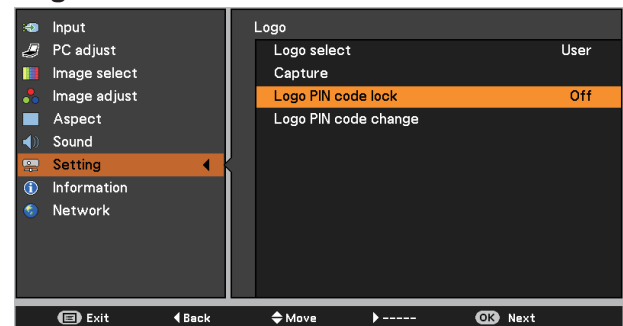
### ✓ Note:

When Logo PIN code lock function is set to **On**, **Logo select** and **Capture** can not be selected.

## Capture



## Logo PIN code lock



### Enter a Logo PIN code

Use the Point ▲▼ buttons to enter a number. Press the Point ► button to fix the number and move the red frame pointer to the next box. The number changes to \*. If you fixed an incorrect number, use the Point ◀ button to move the pointer to the number you want to correct, and then enter the correct number.

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

After entering the four-digit number, move the pointer to **Set** and press the OK button.

If you entered an incorrect Logo PIN code, **Logo PIN code** and the number (\*\*\*\*) will turn red for a moment. Enter the correct Logo PIN code all over again.

### Change the Logo PIN code lock setting

Use the Point ▲▼ buttons to switch **On** or **Off**, and then press the OK button to make a choice.

### Logo PIN code change

Logo PIN code can be changed to your desired four-digit number. Press the OK button to select **Logo PIN code change**. Current logo PIN code dialog box appears, use the Point ▲▼ buttons to enter the correct code. The New Logo PIN code input dialog box appears. Set a new Logo PIN code, confirmation box appears, choose **Yes** to set the new Logo PIN code.

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

#### CAUTION:

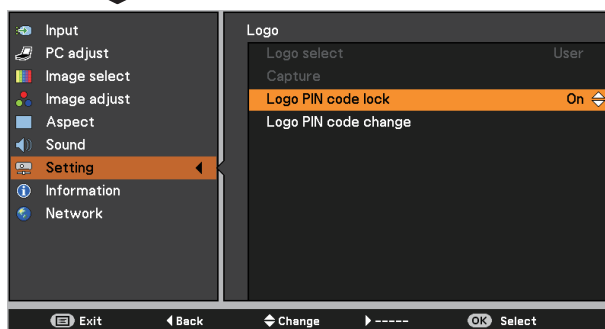
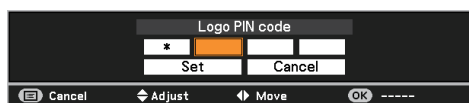
**WHEN YOU HAVE CHANGED THE LOGO PIN CODE, WRITE DOWN THE NEW PIN CODE AS A REMINDER. SHOULD THE LOGO PIN CODE BE LOST OR FORGOTTEN, THE LOGO PIN CODE SETTING CAN NO LONGER BE CHANGED.**

#### ✓ Note:

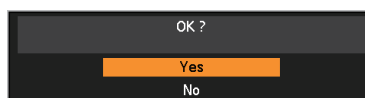
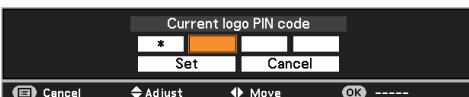
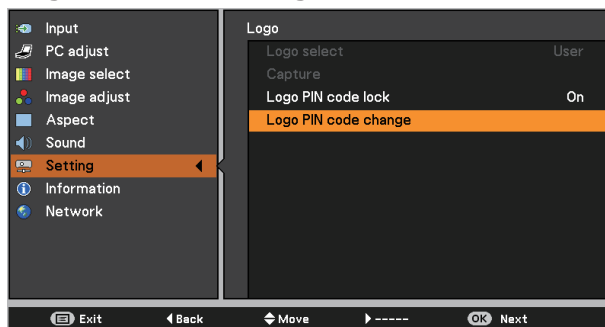
If you forget your Logo PIN code and unable to change it, the Logo PIN code can be reset to the factory default setting (4321) according to the following procedures. When you reset the Logo PIN code, the PIN code and Key lock will be reset, as well.

1. Unplug the AC Power Cord from the AC outlet.
2. Hold down the OK button on the projector and connect the AC Power Cord into the outlet again. Keep holding down the OK button until the POWER indicator lights. The Logo PIN code returns to the factory default setting while the Logo PIN code lock state will remain the same as the previous set state.

### Enter a Logo PIN code



### Logo PIN code change



## HDMI setup

This function is only used for HDMI input source.

### Image

Select **Normal** or **Enhanced** to match the video range setting of your HDMI Digital RGB equipment.

### Sound

**HDMI** ..... When using the HDMI cable, select **HDMI**. Both video and audio\* are transferred and you need not to connect any additional cables for audio.

\* This HDMI terminal supports Linear PCM (32kHz/44.1kHz/48kHz).

**COMPUTER 1** ..... When using the DVI-HDMI cable, select **COMPUTER 1** and connect the audio cable to **COMPUTER 1/ COMPONENT AUDIO IN** terminal.

The names for the output setting of Digital RGB vary from equipment to equipment. For details, refer to the user's manual of your Digital RGB equipment.

When the black parts of the image are destroyed or stand out, please switch to **Normal** or **Enhanced**, and then switch the output type of the HDMI Digital RGB output equipment.

## Terminal

The **COMPUTER IN 2/MONITOR OUT** terminal on the back of the projector is switchable for computer input or monitor output (p.13).

**COMPUTER 2** ..... Computer input  
**Monitor out** ..... Monitor output

Terminal function is not available when **COMPUTER 2** to the input source is selected. Change the input source to the others (**COMPUTER 1**, **VIDEO**, **S-VIDEO** or **HDMI**) so that the Terminal function is available (pp.32-33, 43-44).

## Standby mode

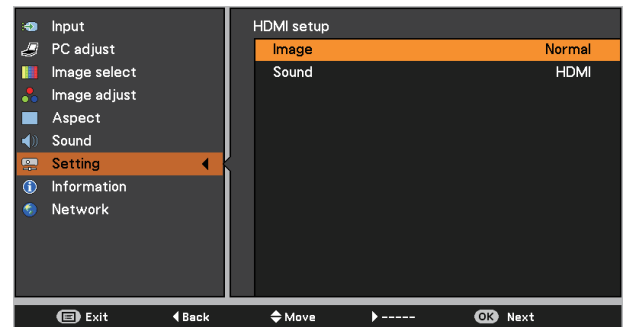
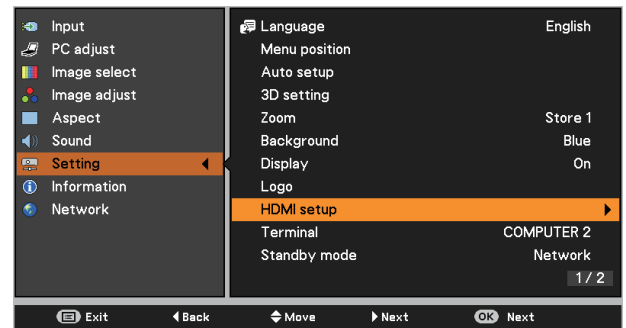
This function is available when operating the projector via network.

**Network** .... Supply the power to the network function even after turning off the projector. You can turn on/off the projector via network, modify network environment, and receive an e-mail about projector status while the projector is powered off.

**Eco** ..... Select **Eco** when you do not use the projector via network. The projector's network function will stop when turning off the projector.

Refer to the user's manual of "Network Set-up and Operation".

## HDMI setup



### ✓ Note:

The input/output terminal [Computer 2] does not support EDID. Depending on the computer used, an adjustment of the resolution might be necessary after connection of the terminal. For the adjustment of the resolution please refer to the user's manual of the computer.

\* EDID (Extended Display Identification Data): The display ID of the connected monitor for transmission of the model name and the setting value to the computer.

### ✓ Note:

- Factory default is **Network**.
- When **Eco** is selected and the projector is in Stand-by, the communication of RS-232C serial port is not available.

**Power management mode**

For reducing power consumption as well as maintaining the lamp life, the Power management mode function turns off the projection lamp when the projector is not operated for a certain period.

Select one of the following options:

**Standby** ..... When the lamp has been fully cooled down, the POWER indicator changes to green blinking. In this condition, the projection lamp will be turned on if the input signal is reconnected or any button on the remote controller is pressed.

**Exit** ..... When the lamp has been fully cooled down, the power will be turned off.

**Off** ..... Power management mode function is off.

**Timer** ..... If the input signal is interrupted and no button is pressed for more than 30 seconds, the timer display with **No signal** appears. It starts the countdown until the lamp is turned off. Use the Point **▲▼** buttons to set the Timer(1~30Min).

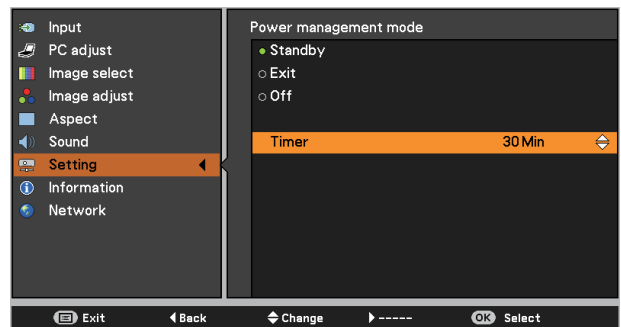
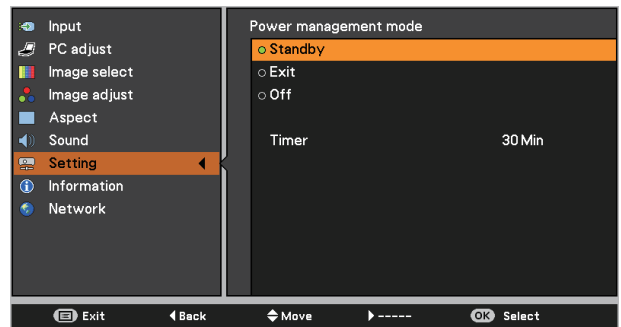
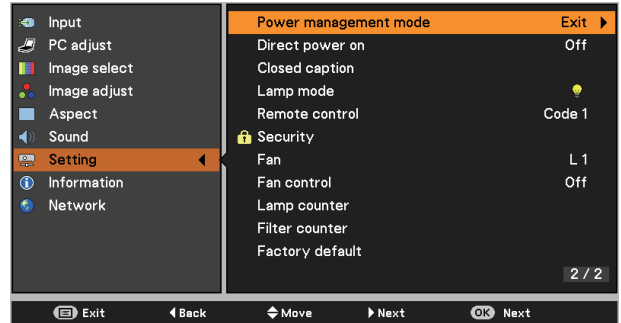
✓ **Note:**

Factory default is **Exit: 30 Min.**

**Power management mode**



Timer left before Lamp is off.



**Direct power on**

When this function is set to **On**, the projector will be automatically turned on just by connecting the AC power cord to a wall outlet.

✓ **Note:**

Be sure to turn off the projector properly (see "Turning Off the Projector" on page 24). If the projector is turned off in the incorrect sequence, the Direct power on function does not work properly.

## Closed caption

Closed Caption is a function that displays the audio portion of a TV program as text on the screen. If the input signal contains Closed captions, you can turn on the feature and switch the channels. Press the Point ▲▼ buttons to select **Off**, **CC1**, **CC2**, **CC3** or **CC4**.

If the Closed caption is not clear, you can change the text from **Color** to **White**.

✓ **Note:**

The Closed caption is available only under the situation below.

- The input signal is **NTSC** of composite video or S-video.
- The item of Closed caption is displayed in gray while it is not available.
- The Closed caption is unavailable when On-Screen Menu or P-Timer is displayed.

## Lamp mode

This function allows you to change brightness of the screen.



**Normal** ..... Normal brightness.



**Eco** ..... Lower brightness reduces the lamp power consumption and extends the lamp life.

## Remote control

This projector provides two different remote control codes: the factory-set initial code (**Code 1**) and the secondary code (**Code 2**). This switching function prevents remote controller interference when operating several projectors or video equipment at the same time.

When operating the projector in **Code 2**, both the projector and the remote controller must be switched to **Code 2**.

**To change the code for the projector:**

Select either **Code 1** or **Code 2** in this Setting Menu.

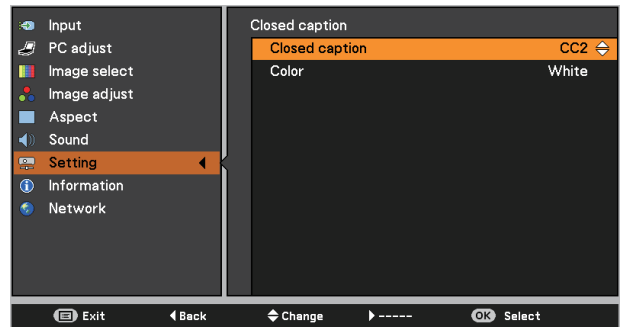
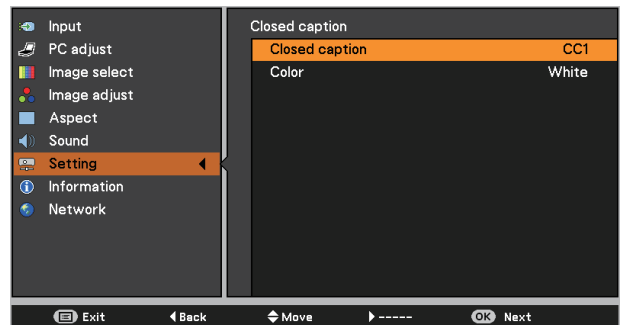
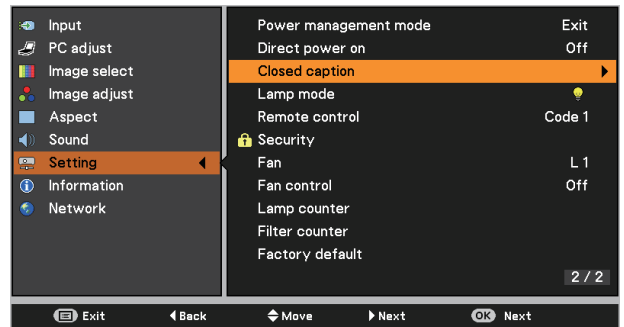
**To change the code for the remote controller:**

Press and hold both the MENU and IMAGE buttons together for 5 seconds or more. After changing the code, make sure the remote controller operates properly.

✓ **Note:**

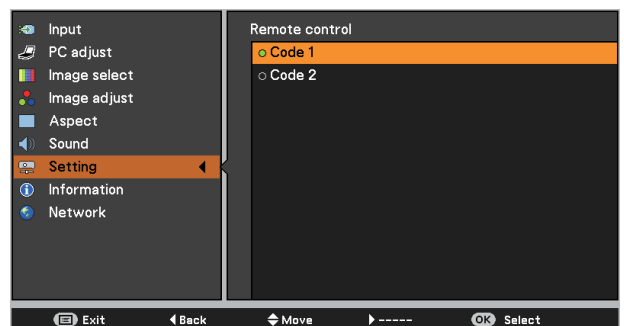
- When different codes are set on the projector and on the remote controller, any operation cannot be made. In that case, switch the code on the remote controller to fit the code on the projector.
- If the batteries are removed from the remote controller for a long period of time, the remote control code will be reset.

## Closed caption



Press the Point ▲▼ buttons to select **Off**, **CC1**, **CC2**, **CC3** or **CC4**, and then Press OK button.

## Remote control




 **Security (Key lock and PIN code lock)**


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

**Key lock**

This function locks the top control and remote controller buttons to prevent operation by unauthorized persons.

 Unlocked.

 Lock the operation of the top control. To unlock, use the remote controller.

 Lock the operation of the remote controller. To unlock, use the top control.

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

**PIN code lock**

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

**Off** . . . . .Unlocked.

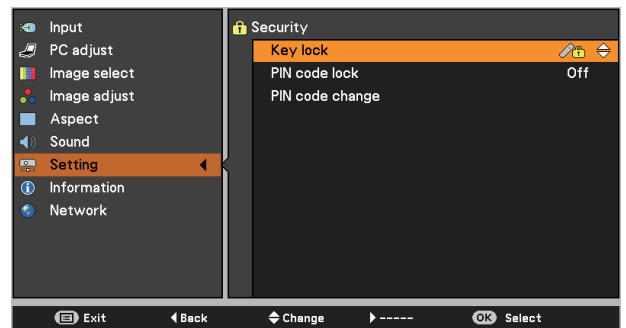
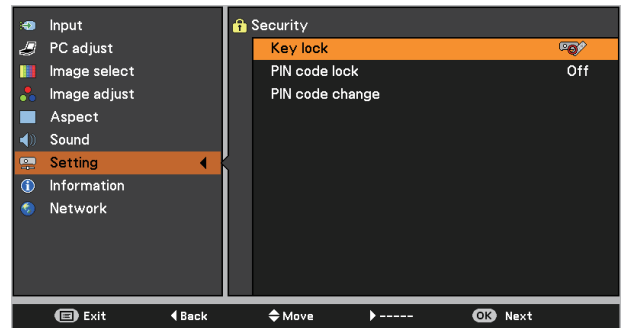
**On 1** . . . . .Enter the PIN code every time turning on the projector.

**On 2** . . . . .Enter the PIN code to operate the projector once the power cord is disconnected; as long as the AC power cord is connected, the projector can be operated without a PIN code.

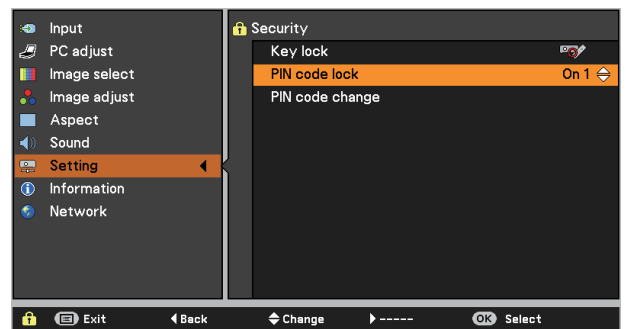
Whenever you change the PIN code lock setting or the PIN code (the four-digit number), you are required to enter the PIN code. The "1234" is set as the initial PIN code at the factory.

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

**Key lock**



**PIN code lock**



When the projector is locked with the PIN code, the Security icon appears on the guide.



## Enter a PIN code

Use the Point ▲▼ buttons to enter a number. Press the Point ► button to fix the number and move the red frame pointer to the next box. The number changes to \*. If you fixed an incorrect number, use the Point ◀ button to move the pointer to the number you want to correct, and then enter the correct number.

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

After entering the four-digit number, move the pointer to **Set**. Press the OK button so that you can start to operate the projector.

If you entered an incorrect PIN code, **PIN code** and the number (\*\*\*\*) will turn red for a moment. Enter the correct PIN code all over again.

## Change the PIN code lock setting

Use the Point ▲▼ buttons to select **Off**, **On 1** or **On 2**. Press the OK button to close the dialog box.

## PIN code change

The PIN code can be changed to your desired four-digit number.

Press the Point ▼ button to select **PIN code change** and press the OK button. The Current PIN code dialog box appears.

Use the Point ▲▼ buttons to set the current PIN code. The New PIN code dialog box appears. Set a new PIN code, the confirmation box appears, and choose **Yes** to set the new PIN code.

### CAUTION:

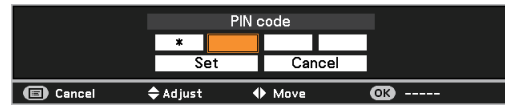
**WHEN YOU HAVE CHANGED THE PIN CODE, WRITE DOWN THE NEW PIN CODE AS A REMINDER, IF YOU FORGET YOUR PIN CODE, THE PROJECTOR CAN NO LONGER BE STARTED.**

### ✓ Note:

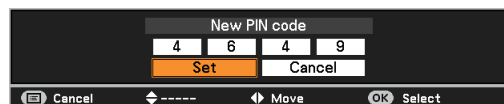
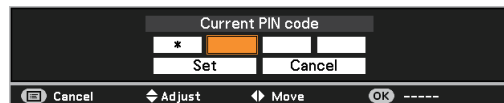
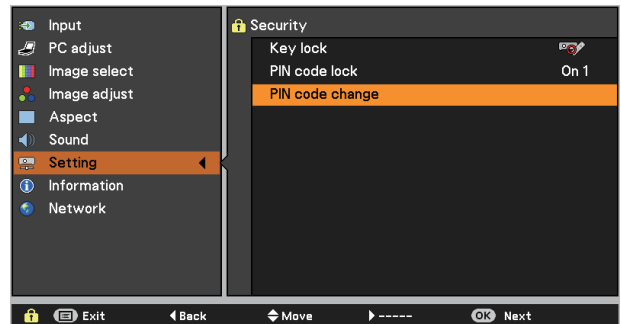
If you forget your PIN code and unable to change it, the PIN code can be reset to the factory default setting (1234) according to the following procedures. When you reset the PIN code, the Logo PIN code and Key lock will be reset, as well.

1. Unplug the AC Power Cord from the AC outlet.
2. Hold down the OK button on the projector and connect the AC Power Cord into the outlet again. Keep holding down the OK button until the POWER indicator lights. The PIN code returns to the factory default setting while the PIN code lock state will remain the same as the previous set state.

## Enter a PIN code



## Change the PIN code



## Fan

This function provides the following options in the cooling fans' operation when the projector is turned off (p.22).

**L 1** ..... Normal operation

**L 2** ..... Slower, lower-sound and longish-time than the normal operation (**L1**).

## Fan control

Choose the running speed of cooling fans from the following options according to the ground elevation under which you use the projector.

**Off** ..... Normal speed. Set this function to **Off** when using the projector in non-high altitude environment.

**On 1** ..... Faster than Off mode. Select this mode when using the projector in high altitudes (about 1,000 meters or more above the sea level) where the fans have less cooling effect.

**On 2** ..... Faster than On 1 mode. Select this mode when using the projector in higher altitudes than above where the fans have lesser cooling effect.

## Lamp counter

This function is used to display the cumulative lamp operating time and reset the lamp counter.

When the total lighting time of a lamp exceeds the recommended total hours of use, the Lamp replacement icon (Fig.1) will appear on the screen, indicating that the end of lamp life is reached.

When replacing the projection lamp, reset lamp counter. See "Resetting the Lamp Counter" on page 70.

### ✓ Note:

*The Lamp replacement icon (Fig.1) will not appear when the Display function is set to **Off** (p.53), or **Freeze** (p.30), or **Blank** (p.31).*

### ✓ Note:

- *Fan noise becomes louder in On 1 and On 2.*
- *Failure to set the running speed of cooling fans properly may affect the projector life.*

**Fig.1** Lamp replacement icon



This icon appears on the screen when the end of lamp life is reached.

### ✓ Note:

*At turning on, the icon (Fig.1) will appear.*

## Filter counter

This function is used to set a frequency for the filter replacement.

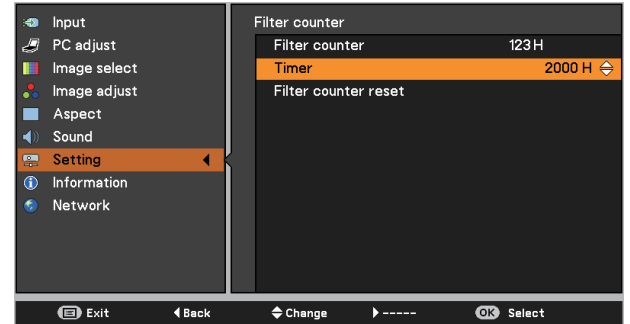
Use the Point ▲▼ buttons to select Filter counter and then press the Point ► or the OK button to access the submenu items.

Filter counter..... Show the total accumulated time of the filter use timer setting.

Timer ..... To set a timer, when the projector reaches the time, the Filter warning icon (Fig.1) appears on the screen and the total accumulated time turns red, indicating that the filter replacement is necessary.

Filter counter reset... After replacing the filter, be sure to reset the timer. The Filter warning icon will not turn off until the filter counter is reset. For details about resetting the timer, refer to “Resetting the Filter Counter” on page 67.

## Filter counter



Press the OK button to select Timer, and then use the Point ▲▼ buttons to set the timer. Select from (Off/ 2000H/ 3000H/ 4000H) depending on the use environment.

Fig.1 Filter warning icon



Filter warning icon appears on the screen at a set time (Off/2000H/3000H/4000H).

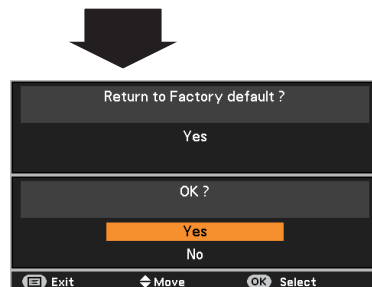
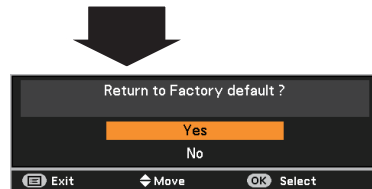
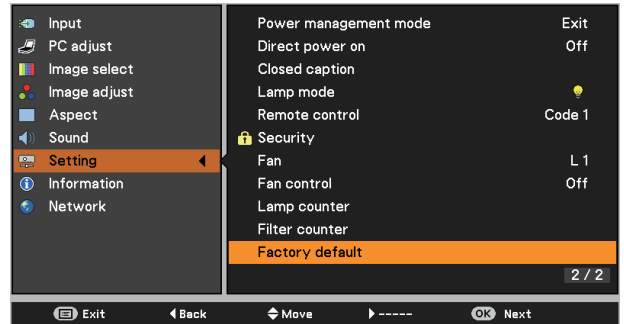
### ✓ Note:

- The Filter warning icon (Fig.1) will not appear when the Display function is set to **Off** (p.55), or **Freeze** (p.30), or **Blank** (p.31).
- This icon also appears at turning on.

## Factory default

This function returns all setting values except for the **User logo**, **PIN code lock**, **Logo PIN code lock**, **Lamp counter** and **Filter counter** to the factory default settings.

## Factory default



## Input Source Information Display

The Information Menu is used for checking the status of the image signal being projected and the operation of the projector.

### Direct Operation

The information menu changes each time you press the INFO. button on the remote controller as follows.

page 1/2 → page 2/2 → hide → page 1/2 →.....

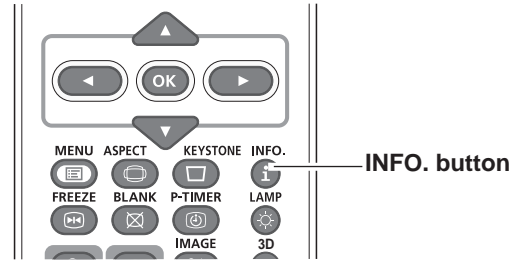
While the information menu is displayed, press the Point ◀▶ buttons to display the previous or next page.

### Menu Operation

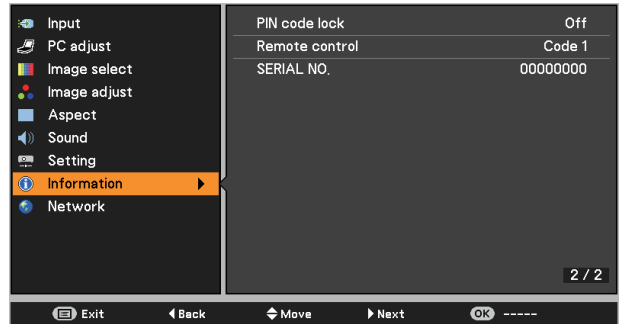
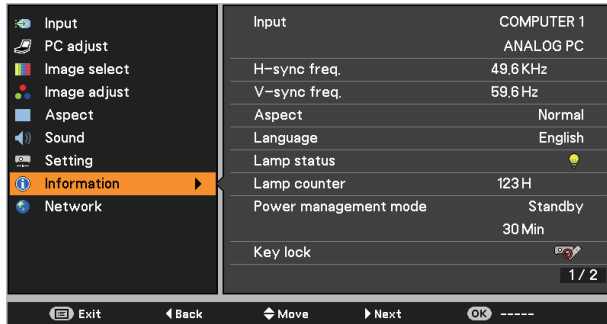
Press the Point ▲▼ buttons to select the Information. The Information Menu is displayed.

See below for displayed information.

Remote Controller



Information Menu



#### Input

The selected input source is displayed.

#### H-sync freq.

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

#### V-sync freq.

The vertical frequency of the input signal is displayed in **Hz**, or **---- Hz** when no signal. Numbers of Hz doubles when during Interlace.

#### Screen

The selected screen size is displayed.

#### Language

The selected language is displayed.

#### Lamp status

The selected lamp mode is displayed.

#### Lamp counter

The cumulative lamp operating time is displayed.

#### Power management mode

**Off**, **Standby**, **Exit** or **Timer** is displayed.

#### Key lock

The selected Key lock icon is displayed.

#### PIN code lock

**Off** or **On 1** or **On 2** is displayed.

#### Remote control

The selected remote code is displayed.

#### SERIAL NO.

The serial number of the projector is displayed. The serial number is used to service the projector.

# Maintenance and Cleaning

## WARNING TEMP. indicator

The WARNING TEMP. indicator shows the state of the function which protects the projector. Check the state of the WARNING TEMP. indicator and the POWER indicator to take proper maintenance.

### The projector is shut down and the WARNING TEMP. indicator is blinking red.

When the temperature inside the projector reaches a certain level, the projector will be automatically shut down to protect the inside of the projector. The POWER indicator is blinking while the projector is being cooled down. When the projector has cooled down enough (to its normal operating temperature), it can be turned on again by pressing the POWER button.

✓ **Note:**

*The WARNING TEMP. indicator continues to blink even after the temperature inside the projector returns to normal. When the projector is turned on again, the WARNING TEMP. indicator stops blinking.*

### Then check the matters below:

- Did you provide appropriate space for the projector to be ventilated? Check the installing condition to see if the air vents of the projector are not blocked.
- Has the projector been installed near an Air-Conditioning/ Heating Duct or Vent? Move the installation of the projector away from the duct or vent.
- Is the filter clean? Replace the filter with a new one.

### The projector is shut down and the WARNING TEMP. indicator lights red.

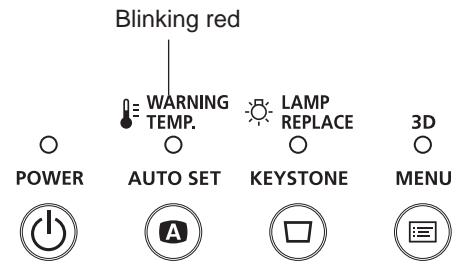
When the projector detects an abnormal condition, it is automatically shut down to protect the inside of the projector and the WARNING TEMP. indicator lights red. In this case, unplug the AC power cord and reconnect it, and then turn the projector on once again to verify operation. If the projector can not be turned on and the WARNING TEMP. indicator still lights red, unplug the AC power cord and contact the service center.



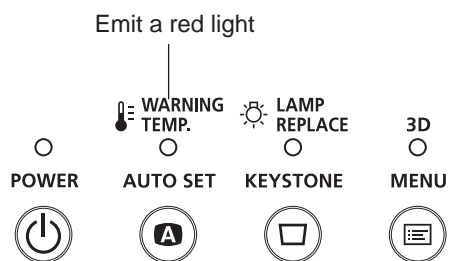
#### **CAUTION**

DO NOT LEAVE THE PROJECTOR WITH THE AC POWER CORD CONNECTED UNDER AN ABNORMAL CONDITION. IT MAY RESULT IN FIRE OR ELECTRIC SHOCK.

### Top Panel



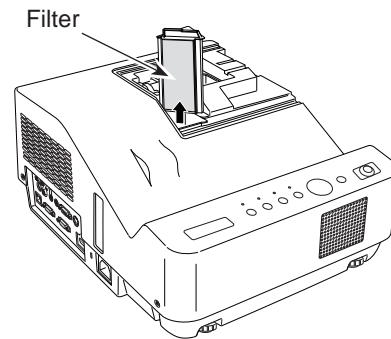
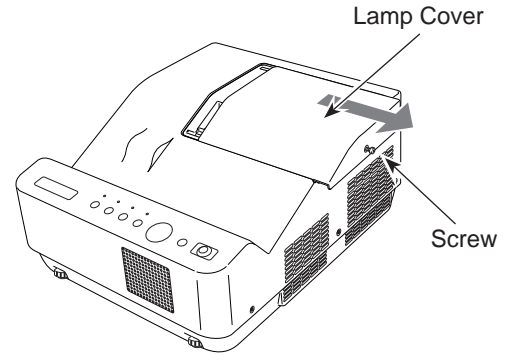
### Top Panel



## Replacing the Filter

Filter prevents dust from accumulating on the optical elements inside the projector. Should the Filter become clogged with dust particles, it will reduce cooling fans' effectiveness and may result in internal heat buildup and adversely affect the life of the projector. If a "Filter warning" icon appears on the screen, replace the Filter immediately. Replace the filter by following the steps below.

- 1 Turn off the projector, and unplug the AC power cord from the AC outlet.
- 2 First, clean up the dust on the projector and around the air vents.
- 3 Loosen the screw and remove the lamp cover and lift the filter out of the projector.
- 4 Put the new one back into the position, and close the lamp cover and secure the screw.
- 5 Connect the AC power cord to the projector and turn on the projector.
- 6 Reset the filter counter.



### CAUTION

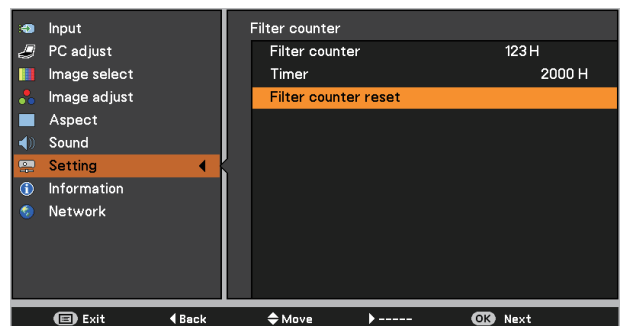
- Do not operate the projector with the filter removed. Dust may accumulate on the optical elements degrading picture quality.
- Do not put anything into the air vents. Doing so may result in malfunction of the projector.
- Do not wash the filter with water or any other liquid matter. Otherwise the filter may be damaged.

### RECOMMENDATION

**We recommend avoiding dusty/smoky environments when you operate the projector. Usage in these environments may cause poor image quality.**

When using the projector under dusty or smoky conditions, dust may accumulate on a lens or optical elements inside the projector degrading the quality of a projected image. When the symptoms above are noticed, contact your authorized dealer or service center for proper cleaning.

### Filter counter



## Resetting the Filter Counter

Be sure to reset the Filter counter after replacing the Filter .

- 1 Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select **Setting** and then press the Point ► or the OK button.
- 2 Use the Point ▲▼ buttons to select **Filter counter** and then press the OK button. Use the Point ▲▼ buttons to select **Filter counter reset** and then press the OK button. **Filter counter Reset?** appears. Select **Yes** to continue.
- 3 Another confirmation dialog box appears, select **Yes** to reset the Filter counter.



**Filter counter Reset?** appears. Select **Yes**, then another confirmation box appears.



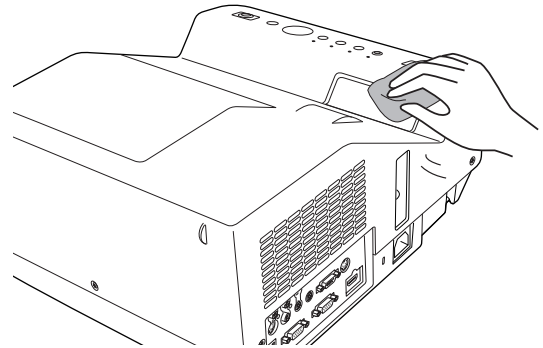
Select **Yes** again to reset the Filter counter.

### Cleaning the Projection Window



#### **CAUTION**

- This projector is equipped with a projection window.
- Do not rub the projection window with a hard fiber cloth or hit it with something hard to prevent the projection window from scratching.
  - Do not use a chemical cleaner (liquid and solid) to avoid deteriorating the projection window.



Unplug the AC power cord before cleaning.

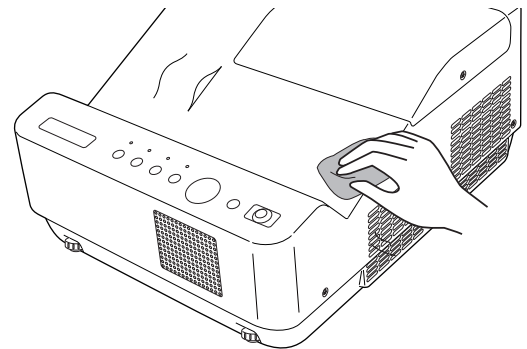
First, remove the dust with a commercially available air blower. Then gently wipe the projection window surface. Use a cleaning paper moistened with methyl alcohol (methanol). Avoid using an excessive amount of cleaner.

Do not use abrasive cleaners, solvents, or other harsh chemical cleaners to avoid damaging the projection window.

### Cleaning the Projector Cabinet

Unplug the AC power cord before cleaning.

Gently wipe the projector body with a soft dry cleaning cloth. When the cabinet is heavily soiled, use a small amount of mild detergent and finish with a soft dry cleaning cloth. Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents, or other harsh chemicals might scratch the surface of the cabinet.



When the projector is not in use, put the projector in an appropriate carrying case to protect it from dust and scratches.



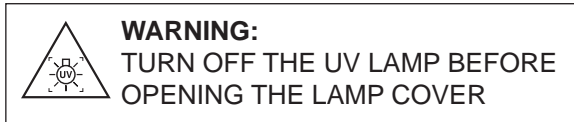
#### **CAUTION**

Do not use any flammable solvents or air sprays on the projector and in its vicinity. The explosion or fire hazard may occur even after the AC power cord is unplugged because the temperature inside the projector is extremely high due to the lamps. In addition, there is a risk that the internal parts may be damaged not only by the flammable air spray but also by the cold air.

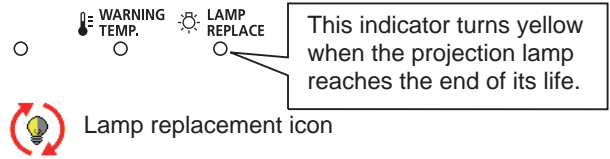


## Lamp Replacement

When the projection lamp of the projector reaches its end of life, the Lamp replacement icon appears on the screen and LAMP REPLACE indicator lights yellow. Replace the lamp with a new one promptly. The timing when the LAMP REPLACE indicator should light is depending on the lamp mode.



### Top Panel



✓ **Note:**  
The Lamp replacement icon will not appear when the Display function is set to **Off** (p.55), during **Freeze** (p.30), or **Blank** (p.31).



### CAUTION

Allow a projector to cool for at least one hour before you open the Lamp Cover. The inside of the projector can become very hot.



### CAUTION

For continued safety, replace with a lamp of the same type. Do not drop a lamp or touch a glass bulb! The glass can shatter and may cause injury.

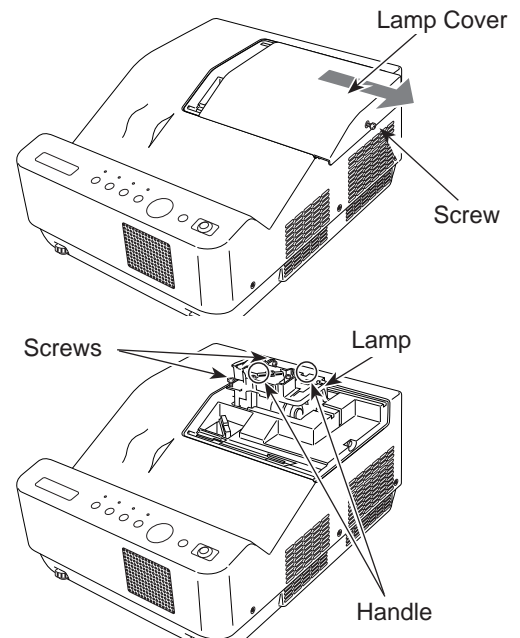


### CAUTION

When replacing the lamp because it has stopped illuminating, there is a possibility that the lamp may be broken. If replacing the lamp of a projector which has been installed on the ceiling, you should always assume that the lamp is broken, and you should stand to the side of the lamp cover, not underneath it. Remove the lamp cover gently. Small pieces of glass may fall out when the lamp cover is opened. If pieces of glass get into your eyes or mouth, seek medical advice immediately.

Follow these steps to replace the lamp.

- 1** Turn off the projector and unplug the AC power cord. Let the projector cool for at least one hour.
- 2** Loosen the screw and remove the lamp cover.
- 3** Loosen the two (2) screws that secure the lamp. Lift the lamp out of the projector by using the handle.
- 4** Replace the lamp with a new one and secure the two (2) screws. Make sure that the lamp is set properly. Close the lamp cover and secure the screw.
- 5** Connect the AC power cord to the projector and turn on the projector.
- 6** **Reset the lamp counter.**  
See "Resetting the Lamp Counter" on the next page.



### ORDER REPLACEMENT LAMP

Replacement lamp can be ordered through your dealer. When ordering a projection lamp, give the following information to the dealer.

- **Model No. of your projector** : LV-8235 UST
- **Replacement Lamp Type No.** : LV-LP36

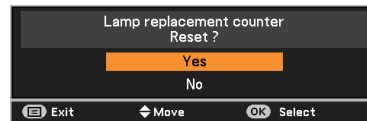
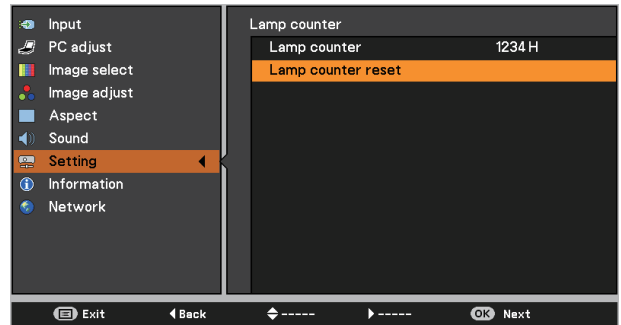
## Resetting the Lamp Counter

Be sure to reset the Lamp counter after the lamp is replaced. When the Lamp counter is reset, the LAMP REPLACE indicator stops lighting and the Lamp replacement icon disappears.

- 1 Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select **Setting** and then press the Point ► or the OK button.
- 2 Use the Point ▲▼ buttons to select **Lamp counter** and then press the OK button. Use the Point ▲▼ buttons to select **Lamp counter reset** and then press OK button. **Lamp replacement counter Reset?** appears. Select **Yes** to continue.
- 3 Another confirmation dialog box appears, select **Yes** to reset the Lamp counter.

✓ **Note:**

*Do not reset the Lamp counter without implementing lamp replacement. Be sure to reset the Lamp counter only after replacing the lamp.*



**Lamp replacement counter Reset?** appears.

Select **Yes**, then another confirmation box appears.



Select **Yes** again to reset the Lamp counter.



## LAMP HANDLING PRECAUTIONS

This projector uses a high-pressure lamp which must be handled carefully and properly. Improper handling may result in accidents, injury, or create a fire hazard.

- Lamp life may differ from lamp to lamp and according to the environment of use. There is no guarantee of the same life for each lamp. Some lamps may fail or terminate their life in a shorter period of time than other similar lamps.
- If the projector indicates that the lamp should be replaced, i.e., if the LAMP REPLACE indicator lights up, replace the lamp with a new one IMMEDIATELY after the projector has cooled down. (Follow carefully the instructions in the Lamp Replacement section of this manual.) Continuous use of the lamp with the LAMP REPLACE indicator lighted may increase the risk of lamp explosion.
- A Lamp may explode as a result of vibration, shock or degradation as a result of hours of use as its lifetime draws to an end. Risk of explosion may differ according to the environment or conditions in which the projector and lamp are being used.

### IF A LAMP EXPLODES, THE FOLLOWING SAFETY PRECAUTIONS SHOULD BE TAKEN.

If a lamp explodes, disconnect the projector's AC plug from the AC outlet immediately. Contact an authorized service center for a checkup of the unit and replacement of the lamp. Additionally, check carefully to ensure that there are no broken shards or pieces of glass around the projector or coming out from the cooling air circulation holes. Any broken shards found should be cleaned up carefully. No one should check the inside of the projector except those who are authorized trained technicians and who are familiar with projector service. Inappropriate attempts to service the unit by anyone, especially those who are not appropriately trained to do so, may result in an accident or injury caused by pieces of broken glass.

## Troubleshooting

Before calling your dealer or service center for assistance, check the items below once again.

- Make sure you have properly connected the projector to peripheral equipment as described on pages 18-20.
- Make sure all equipment is connected to AC outlet and the power is turned on.
- When the projector does not project an image from the connected computer, restart the computer.

	Problem	Solutions	Pages
Power	No power	<input type="checkbox"/> Plug the power cord of the projector into the AC outlet.	
		<input type="checkbox"/> See if the POWER indicator lights red.	
		<input type="checkbox"/> Wait until the POWER indicator stops blinking to turn on the projector again. The projector can be turned on after the POWER indicator turns red.	22
		<input type="checkbox"/> Check the WARNING TEMP. indicator. If the WARNING TEMP. indicator lights red, projector can not be turned on.	66
		<input type="checkbox"/> Check the projection lamp.	69
		<input type="checkbox"/> Unlock the Key lock function for the projector.	61
	PIN code dialog box appears at start-up.	<input type="checkbox"/> PIN code lock is being set. Enter a PIN code (the "1234" or numbers you have set.)	23, 61-62
Opening display	The initial display is not shown.	<input type="checkbox"/> Make sure <b>Off</b> or <b>Countdown off</b> are not chosen at display function.	55
	The initial display is not same as the default set.	<input type="checkbox"/> Make sure <b>User</b> or <b>Off</b> are not chosen at Logo (select) function.	55
	Input signal switches automatically. (or does not switch automatically)	<input type="checkbox"/> Make sure Auto input function is adjusted properly.	53
	An icon other than Input mode or Lamp mode icon appears	<input type="checkbox"/> That is the Filter warning icon or the Lamp replacement icon.	65, 69
Image	No image	<input type="checkbox"/> Check the connection between your computer or video equipment and the projector.	18-20
		<input type="checkbox"/> See if the input signal is correctly output from your computer. Some laptop computers may need to change the setting for monitor output when connecting to a projector. See your computer's instruction manual for the setting.	
		<input type="checkbox"/> It takes about 30 seconds to display an image after turning on the projector.	22
		<input type="checkbox"/> Check the Input signal, color system, video system or computer system mode.	
		<input type="checkbox"/> Make sure the temperature is not out of the specified Operating Temperature (41°F–104°F [5°C–40°C]).	
		<input type="checkbox"/> When <b>Blank</b> is operating, the image can not be displayed. Press the BLANK button or any other button on the remote controller.	
	Image is Left/Right reversed.	<input type="checkbox"/> Check the Ceiling/Rear function.	42, 49
Image is Top/Bottom reversed.	<input type="checkbox"/> Check the Ceiling function.	42, 49	

	Problem	Solutions	Pages
Image	Image is out of focus.	<input type="checkbox"/> Adjust focus of the projector.	27
		<input type="checkbox"/> Provide proper distance between the projector and the projection screen.	17
		<input type="checkbox"/> Check the projection window to see if it needs cleaning.	68
		<input type="checkbox"/> Moving the projector from a cool to warm place may result in moisture condensation on the projection lens. In such cases, leave the projector off and wait until condensation evaporates.	
	Picture is not bright enough.	<input type="checkbox"/> Check if the <b>Contrast</b> or <b>Brightness</b> is adjusted properly.	39, 46
		<input type="checkbox"/> Check if Image mode is selected properly.	38
		<input type="checkbox"/> Check the Lamp mode function.	30, 60
		<input type="checkbox"/> Check the LAMP REPLACE indicator. If it lights, the end of lamp life is approaching. Replace the lamp with a new one promptly.	69
	The color is strange.	<input type="checkbox"/> Check the Input signal, color system, video system or computer system mode.	
		<input type="checkbox"/> Make sure the <b>Colorboard</b> is not selected on Screen Menu.	42, 49
The image is distorted or runs off.	<input type="checkbox"/> Check <b>PC adjustment</b> Menu or <b>Aspect</b> and adjust them.	36-37, 40-42	
Setting and adjustment	Auto PC adjustment function does not work.	<input type="checkbox"/> Check the Input signal. Auto PC function can not work when <b>480p, 575p, 720p, 480i, 575i</b> or <b>1080i</b> is selected, or when the digital signal is input into HDMI terminal.	34, 35
	Some displays are not seen during the operation.	<input type="checkbox"/> Check the Display function.	55
	The setting does not remain after turning off power.	<input type="checkbox"/> Make sure you selected <b>Store</b> after adjusting setting. Some settings can not be stored if not registered with "Store".	39, 47
	Power management mode does not work.	<input type="checkbox"/> Power management mode function can not work while <b>Freeze</b> or <b>Blank</b> is running.	59
	Capture function does not work.	<input type="checkbox"/> Check the connection and the input signal to see if there is signal	56
	Auto setup does not work properly.	<input type="checkbox"/> Make sure <b>Off</b> is not selected at any function of <b>Auto setup</b>	53
	Top control does not work.	<input type="checkbox"/> The top control is not available if the top control is locked at Key lock under Security of SETTING section.	61
Remote controller	The remote controller does not work.	<input type="checkbox"/> Check the batteries.	
		<input type="checkbox"/> Make sure no obstruction is between the projector and remote controller.	
		<input type="checkbox"/> Make sure you are not too far from the projector when using the remote controller. Maximum operating range is 16.4'(5 m).	
		<input type="checkbox"/> Make sure the code of the remote controller is conformed to the projector's code.	60
		<input type="checkbox"/> Unlock the Key lock function for the remote controller function.	61

	Problem	Solutions	Pages
Sound	No sound	<input type="checkbox"/> Check the audio cable connection from audio input source.	
		<input type="checkbox"/> Adjust the audio source.	
		<input type="checkbox"/> Press the Volume + button.	29
		<input type="checkbox"/> Press the Mute button.	29
		<input type="checkbox"/> When the AUDIO OUT is plugged-in, the projector's built-in speaker is not available.	
		<input type="checkbox"/> Is the image projected? You will hear the sound only when the image is projected.	
Others	Indicator blinks or lights.	<input type="checkbox"/> Check the status of the projector with referring to "Indicators and projector Condition".	76
	COMPUTER 2 can not be selected	<input type="checkbox"/> Select COMPUTER 2 in the Terminal function.	58
	The terminal function can not be selected.	<input type="checkbox"/> The Terminal function cannot be selected after COMPUTER 2 is selected. Select other input source such as COMPUTER 1, HDMI, S-video or Video so that the Terminal function can be selected.	32, 42-43, 58
	The exclamation mark appears on the screen.	<input type="checkbox"/> Your operation is invalid. Operate correctly.	
3D	There are some trouble about 3D display function.	<input type="checkbox"/> The troubleshooting about 3D display function is described on page 49.	50, 51

**WARNING :**

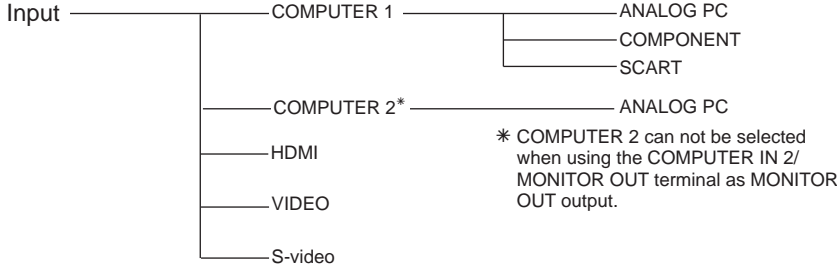
**High voltages are used to operate this projector. Do not attempt to open the cabinet.**

If problems still persist after following all operating instructions, contact the dealer where you purchased the projector or the service center. Specify the model number and explain about the problem. We will advise you how to obtain service.

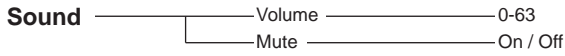
## Menu Tree

### Computer Input/HDMI Input/Video Input

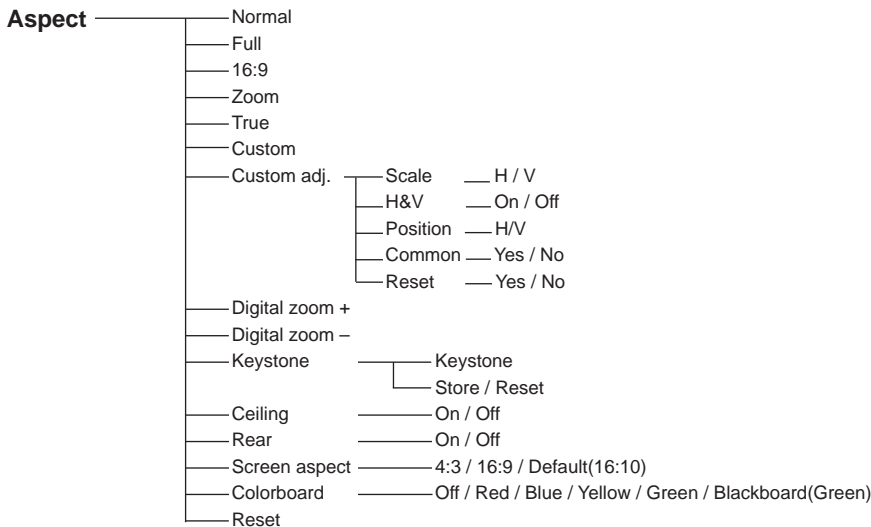
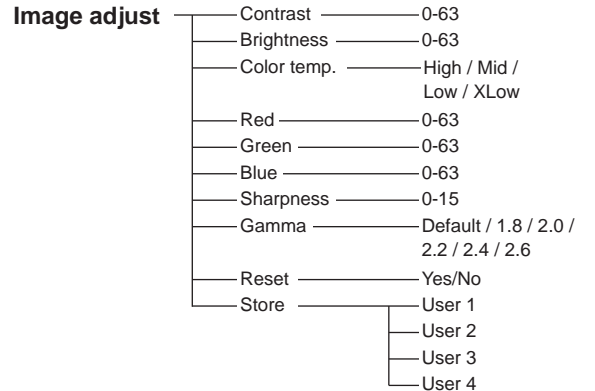
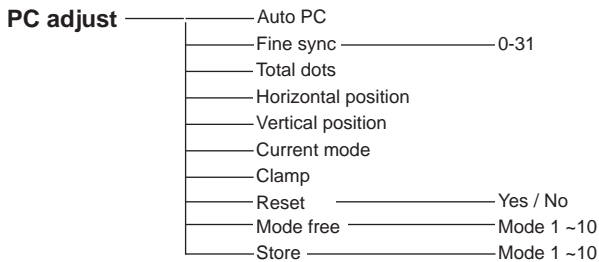
#### Input



#### Sound



### Computer Input



**Video Input**

- System (2)**
  - 1080p
  - 1080i
  - 720p
  - 575p
  - 480p
  - 575i
  - 480i
- System (3)**
  - PAL
  - SECAM
  - NTSC
  - NTSC 4.43
  - PAL-M
  - PAL-N

**HDMI Input/Video Input**

- Image adjust**
  - Contrast — 0-63
  - Brightness — 0-63
  - Color — 0-63
  - Tint — 0-63
  - Color temp. — High / Mid / Low / XLow
  - Red — 0-63
  - Green — 0-63
  - Blue — 0-63
  - Sharpness — 0-15
  - Gamma — Default / 1.8 / 2.0 / 2.2 / 2.4 / 2.6
  - Noise reduction — Off / L1 / L2
  - Progressive — Off / L1 / L2 / Film
  - Reset — Yes/No
  - Store
    - User 1
    - User 2
    - User 3
    - User 4

- Aspect**
  - Normal
  - Full
  - 16:9
  - Zoom
  - Natural wide
  - Custom
  - Custom adj.
    - Scale — H / V
    - H&V — On / Off
    - Position — H/V
    - Common — Yes / No
    - Reset — Yes / No
  - Keystone
    - Keystone
    - Store / Reset
  - Ceiling — On / Off
  - Rear — On / Off
  - Screen aspect — 4:3 / 16:9 / Default(16:10)
  - Colorboard — Off / Red / Blue / Yellow / Green / Blackboard(Green)
  - Reset — Yes / No

**Computer Input/HDMI Input/Video Input**

- Image select**
  - Presentation
  - Standard
  - High contrast
  - Cinema
  - User 1
  - User 2
  - User 3
  - User 4
- Setting**
  - Language — 24 languages provided.
  - Menu position
  - Auto setup
    - Auto input — Off / On 1 / On 2
    - Auto PC — On / Off
  - 3D setting
    - 3D — On / Off/ NVIDIA 3D VISION
    - 3D sync — 1 / 2
    - 3D -> 2D — On / Off
    - 3D phase — 0 - 31
  - Zoom — Reset / Store1 / Store2
  - Background — Blue / User / Black
  - Display — On / Countdown off / Off
  - Logo
    - Logo select — Off / Default / User
    - Capture — Yes/No
    - Logo PIN code lock — Off / On
    - Logo PIN code change
  - HDMI setup
    - Image — Normal / Enhanced
    - Sound — HDMI / COMPUTER 1
  - Terminal — COMPUTER 2 / Monitor out
  - Standby mode — Eco / Network
  - Power management mode
    - Standby
    - Exit
    - Off
    - Timer (1-30 Min)
  - Direct power on — On/Off
  - Closed caption
    - Closed caption — Off / CC1 / CC2 / CC3 / CC4
    - Color — Color / White
  - Lamp mode — Normal / Eco
  - Remote control — Code 1 - Code 2
  - Security
    - Key lock
    - PIN code lock — Off / On 1 / On 2
    - PIN code change
  - Fan — L 1 / L 2
  - Fan control — Off / On 1 / On 2
  - Lamp counter
    - Lamp counter
    - Lamp counter reset
  - Filter counter
    - Filter counter — H
    - Timer — Off/2000H/3000H/4000H
    - Filter counter reset — Yes/No
  - Factory default — Yes/No

**Information** — Input Source Information Display



## Indicators and Projector Condition

Check the indicators for projector condition.

		Indicators				Projector Condition
		POWER Red/Green	WARNING TEMP. Red	LAMP REPLACE Yellow	3D Blue	
<b>Normal Condition</b>	●	●	●	●	The projector is off. (The AC power cord is unplugged.)	
	○ red	●	*	❖	The projector is in stand-by mode. Press the POWER button to turn on the projector.	
	○ green	●	*	❖	The projector is operating normally.	
	○ red	●	*	❖	The projector is preparing for stand-by or the projection lamp is being cooled down. The projector can not be turned on until cooling is completed and the POWER indicator stops blinking.	
	○ green	●	*	❖	The projector is in the Power management mode.	
	○ green	●	*	○	The projector is in 3D display mode.	
<b>Abnormal Condition</b>	○ red	○	*	❖	The temperature inside the projector is abnormally high. The projector can not be turned on. When the projector is cooled down enough and the temperature returns to normal, the POWER indicator stops blinking and the projector can be turned on. (The WARNING TEMP. indicator keeps blinking.)	
	○ red	○	*	❖	The projector has been cooled down enough and the temperature returns to normal. When turning on the projector, the WARNING TEMP. indicator stops blinking.	
	●	○	*	❖	The projector detects an abnormal condition and can not be turned on. Unplug the AC power cord and plug it again to turn on the projector. If the projector is turned off again, unplug the AC power cord and contact the dealer or the service center for service and checkup. Do not leave the projector on. It may cause an electric shock or a fire hazard.	
	○ green	●	○	❖	The lamp has been used overtime. Replace the lamp immediately and then reset the lamp counter. The indicator will be turned off after resetting the counter.	

○ ... on.      ○ ... blinking.      ● ... off

\* / ❖ ... Differs according to conditions.

## Compatible Computer Specifications

Basically this projector can accept the signal from all computers with the V-, H- Frequency mentioned below and less than 150 MHz of Dot Clock.

When selecting these modes, PC adjustment can be limited.

ON-SCREEN DISPLAY	RESOLUTION	H-FREQ. [kHz]	V-FREQ. [Hz]	3D DISPLAY
VGA 1	640X480	31.470	59.880	✓
VGA 2	720X400	31.470	70.090	-
VGA 2	640X400	31.470	70.090	-
VGA 4	640X480	37.860	74.380	-
VGA 5	640X480	37.860	72.810	-
VGA 6	640X480	37.500	75.000	-
VGA 7	640X480	43.269	85.000	-
MAC 13	640x480	34.970	66.600	-
MAC 13	640x480	35.000	66.670	-
SVGA 1	800x600	35.156	56.250	✓
SVGA 2	800x600	37.880	60.320	✓
SVGA 3	800x600	46.875	75.000	-
SVGA 4	800x600	53.674	85.060	-
SVGA 5	800x600	48.080	72.190	-
SVGA 6	800x600	37.900	61.030	✓
SVGA 7	800x600	34.500	55.380	✓
SVGA 2	800x600	38.000	60.510	✓
SVGA 9	800x600	38.600	60.310	✓
SVGA 10	800x600	32.700	51.090	✓
SVGA 2	800x600	38.000	60.510	✓
SVGA 12	800x600	76.302	119.972	✓
MAC 16	832x624	49.720	74.550	-
XGA 1	1024x768	48.360	60.000	✓
XGA 2	1024x768	68.677	84.997	-
XGA 3	1024x768	60.023	75.030	-
XGA 4	1024x768	56.476	70.070	-
XGA 5	1024x768	60.310	74.920	-
XGA 1	1024x768	48.500	60.020	✓
XGA 7	1024x768	44.000	54.580	✓
XGA 8	1024x768	68.480	79.350	-
XGA 10	1024x768	62.040	77.070	-
XGA 11	1024x768	61.000	75.700	-
XGA 13	1024x768	46.900	58.200	✓
XGA 13	1024x768	47.000	58.300	✓
XGA 15	1024x768	58.030	72.000	-
XGA 16	1024x768	97.551	119.989	✓
XGA 5	1024x768	60.240	75.080	-
SXGA 1	1152x864	64.200	70.400	-
SXGA 2	1280x1024	62.500	58.600	✓
SXGA 3	1280x1024	63.900	60.000	✓
SXGA 4	1280x1024	63.340	59.980	✓
SXGA 3	1280x1024	63.740	60.010	✓
SXGA 6	1280x1024	71.690	67.190	-
SXGA 7	1280x1024	81.130	76.107	-
SXGA 3	1280x1024	63.980	60.020	✓
SXGA 9	1280x1024	79.976	75.025	-
SXGA 10	1280x960	60.000	60.000	✓
SXGA 11	1152x900	61.200	65.200	-
SXGA 12	1152x900	71.400	75.600	-

ON-SCREEN DISPLAY	RESOLUTION	H-FREQ. [kHz]	V-FREQ. [Hz]	3D DISPLAY
SXGA 4	1280x1024	63.370	60.010	✓
SXGA 16	1280x1024	76.970	72.000	-
SXGA 17	1152x900	61.850	66.000	-
SXGA 3	1280x1024	63.790	60.180	✓
SXGA 20	1280x1024	91.146	85.024	-
SXGA+ 1	1400x1050	63.970	60.190	✓
SXGA+ 2	1400x1050	65.350	60.120	✓
SXGA+ 2	1400x1050	65.120	59.900	✓
SXGA+ 1	1400x1050	64.030	60.010	✓
SXGA+ 5	1400x1050	62.500	58.600	✓
SXGA+ 6	1400x1050	64.744	59.948	✓
SXGA+ 2	1400x1050	65.317	59.978	✓
MAC 21	1152x870	68.680	75.060	-
SXGA 9	1280x1024	80.000	75.080	-
WXGA 3	1376x768	48.360	60.000	✓
WXGA 6	1280x768	47.776	59.870	✓
WXGA 7	1280x768	60.289	74.893	-
WXGA 8	1280x768	68.633	84.837	-
WXGA 9	1280x800	49.600	60.050	✓
WXGA 10	1280x800	41.200	50.000	✓
WXGA 11	1280x800	49.702	59.810	✓
WXGA 13	1360x768	97.533	119.967	✓
WXGA 14	1280x768	97.396	119.798	✓
WXGA 15	1280x800	101.563	119.909	✓
WUXGA 1	1920x1200	74.556	59.885	-
WUXGA 2	1920x1200	74.038	59.950	✓
WSXGA+ 1	1680x1050	65.290	59.954	-
WXGA+ 1	1440x900	55.935	59.887	✓
UXGA 1	1600x1200	75.000	60.000	✓
UXGA 2	1600x1200	81.250	65.000	-
UXGA 3	1600x1200	87.500	70.000	-
UXGA 4	1600x1200	93.750	75.000	-
UXGA 5	1600x1200	106.250	85.000	-
480p	720x480	31.469	59.940	-
575p	768x575	31.250	50.000	-
575i	768x576 i	15.625	50.000	-
480i	640x480 i	15.734	60.000	-
720p	1280x720	45.000	60.000	-
	1280x720	37.500	50.000	-
1080i	1920x1080 i	33.750	60.000	-
	1920x1080 i	28.125	50.000	-
1080p	1920x1080	33.750	30.000	-
	1920x1080	28.125	25.000	-
	1920x1080	27.000	24.000	-
	1920x1080	67.500	60.000	-
	1920x1080	56.250	50.000	-

✓ **Note:**

- The mark "✓" indicates that the 3D image can be projected.
- Alphabet letter "i" placed beside some of the resolutions represents interlace signal.
- The specifications are subject to change without notice.

When the input signal is digital from HDMI terminal, refer to the chart below.

ON-SCREEN DISPLAY	RESOLUTION	H-FREQ. [kHz]	V-FREQ. [Hz]	3D DISPLAY
D-VGA	640x480	31.469	59.940	✓
D-480i	720x480 i	15.734	59.940	✓
	720x480 i	31.469	119.880	✓
D-480p	720x480	31.469	59.940	✓
	720x480	62.937	119.880	✓
D-575i	720x575 i	15.625	50.00	✓
	720x575 i	31.250	100.00	✓
D-575p	720x575	31.250	50.000	✓
	720x575	62.500	100.00	✓
D-SVGA	800x600	37.879	60.320	✓
D-SVGA	800x600	76.302	119.972	✓
D-XGA	1024x768	43.363	60.000	✓
D-XGA	1024x768	97.551	119.989	✓
D-WXGA 3	1376x768	48.360	60.000	✓
D-WXGA 6	1280x768	47.776	59.870	✓
D-WXGA 7	1280x768	60.289	74.893	-
D-WXGA 8	1280x768	68.633	84.837	-
D-WXGA 9	1280x800	49.600	60.050	✓
D-WXGA 10	1280x800	41.200	50.000	✓
D-WXGA 11	1280x800	49.702	59.810	✓
D-WXGA 13	1360x768	97.533	119.967	✓
D-WXGA 14	1280x768	97.396	119.798	✓
D-WXGA 15	1280x800	101.563	119.909	✓

ON-SCREEN DISPLAY	RESOLUTION	H-FREQ. [kHz]	V-FREQ. [Hz]	3D DISPLAY
D-SXGA 1	1280x1024	63.980	60.020	✓
D-SXGA 2	1280x1024	60.276	58.069	-
D-SXGA+ 2	1400x1050	65.350	60.120	-
D-SXGA+ 2	1400x1050	65.120	59.900	-
D-SXGA+ 5	1400x1050	62.500	58.600	✓
D-SXGA+ 6	1400x1050	64.744	59.948	✓
D-SXGA+ 2	1400x1050	65.317	59.978	✓
D-WSXGA+ 1	1680 x 1050	65.290	59.954	-
D-WXGA+ 1	1440 x 900	55.935	59.887	✓
D-720p	1280x720	45.000	60.000	✓
	1280x720	37.500	50.000	✓
	1280x720	90.000	120.000	✓
	1280x720	75.000	100.000	✓
D-1080i	1920x1080 i	33.750	59.94/60	✓
	1920x1080 i	28.125	50.000	✓
	1920x1080 i	67.500	119.98/120	✓
	1920x1080 i	56.250	100.000	✓
D-1080p	1920x1080	33.750	30.000	-
	1920x1080	28.125	25.000	-
	1920x1080	27.000	24.000	-
	1920x1080	67.500	60.000	-
	1920x1080	56.250	50.000	-

✓ **Note:**

- The mark "✓" indicates that the 3D image can be projected.
- Alphabet letter "i" placed beside some of the resolutions represents interlace signal.
- The specifications are subject to change without notice.
- Depending on your PC settings, the digital signals of your PC may not be projected correctly. In such a case, confirm your PC settings.
- When you project a DVI signal, connect the cables, turn the projector on, then select the input. Finally, turn on your PC. Be sure to follow this procedure, otherwise an image may not be projected on the screen. If an image is not projected correctly, restart your PC.
- Do not disconnect the cable while the projector is running. If the cable has been disconnected and then reconnected, an image may not be correctly projected.

## Technical Specifications

### Mechanical Information

Projector Type	Multi-media Projector
Dimensions (W x H x D)	12.6" x 6.7" x 15.2" (321.0 mm x 170.0 mm x 385.0 mm) (Not including protrusions)
Net Weight	13.7 lbs (6.2 kg)
Feet Adjustment	±1.0°

### DLP Chip

Projection System	0.65" Single DLP chip, 6 segment Color Wheel
Number of Pixels	1,024,000 pixels (1,280 x 800 dots)

### Signal Compatibility

Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M, and PAL-N
SD/HDTV Signal	Component: 480i, 480p, 575i, 575p, 720p, 1080i and 1080p HDMI: 480p, 575p, 720p, 1080i and 1080p
Input Scanning Frequency	H-sync. 15 kHz-93 kHz, V-sync. 50-120 Hz

### Optical Information

Projection Image Size (Diagonal)	Adjustable from 60" to 110"
Throw Distance	0.75' - 1.49' (23.0 cm - 45.5 cm)
Projection Lens	F 2.5 lens with f 4.83 mm with manual focus
Projection Lamp	275 W

### Image Information

Brightness	2500 lm (Lamp mode in "Normal", Image mode in "Presentation")
Contrast ratio	2000:1 (Lamp mode in "Normal", Image mode in "Presentation")
Uniformity	78%

### Interface

Video Input Jack	RCA Type x 1
S-Video Input Jack	Mini DIN 4 pin x 1
Audio Input Jacks	RCA Type x 2
Computer Input 1 / Component Input Terminal	Analog RGB (Mini D-sub 15 pin) Terminal x 1
Computer Input 2 / Monitor Output Terminal	Analog RGB (Mini D-sub 15 pin) Terminal x 1 (In/Out switchable)
Computer 1/ Component Audio Input Jack	Mini Jack (stereo) x 1
Computer 2 Audio Input Jack	Mini Jack (stereo) x 1
Audio Output Jack	Mini Jack (stereo) x 1 (Variable)
HDMI	HDMI (V.1.3 with Deep Color) x 1
Control port	D-sub 9 pin x 1
LAN Connection Terminal	RJ-45 x 1
3D Sync Output	Mini DIN 3 pin x 1

### Audio

Internal Audio Amp	10 W RMS
Built-in Speaker	1 speaker, $\phi$ 1.46" (37 mm)

### Power

Voltage and Power Consumption	AC 100–120 V (4.4 A Max. Ampere), 50/60 Hz (The U.S.A and Canada) AC 100–240 V (4.4 - 2.3 A Max. Ampere), 50/60 Hz (For other countries)
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### Operating Environment

Operating Temperature	41°F–104°F (5 °C–40 °C)
Storage Temperature	14°F–140°F (-10°C–60 °C)

### Remote Controller

Battery	AAA 1.5V TYPE x 2
Operating Range	16.4' (5 m)±30°
Dimensions	2.0" (W) x 0.7" (H) x 4.3" (D) (52 mm x 18 mm x 110 mm)
Net Weight	2.37 oz (67 g) (including batteries)

### Accessories

- User's Manual( CD-ROM)
- Important Information and Quick Start Guide
- AC Power Cord
- Remote Controller and Batteries
- VGA Cable
- PIN Code Label
- Warranty Card

- The specifications are subject to change without notice.
- DLP chips are manufactured to the highest possible standards. A tiny fraction of pixels may be ineffective or always lit, but this is not a malfunction.

## Optional Parts

The parts listed below are optionally available. When ordering those parts, specify the item name and Model No. to the sales dealer.

	Model No.
<b>COMPONENT-VGA Cable</b>	: LV-CA32
<b>Remote Controller</b>	: LV-RC05
<b>Ceiling Attachment</b>	: LV-CL20
<b>High Ceiling Attachment</b>	: LV-CL21
<b>Wall Attachment</b>	: LV-WL01

## PJ Link Notice

This projector is compliant with PJLink Standard Class 1 of JBMIA (Japan Business Machine and Information System Industries Association). The projector supports all commands defined by PJLink Class 1 and is verified conformance with PJLink Standard Class 1.

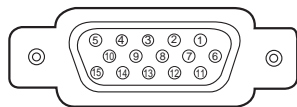
Projector Input	PJLink Input	Parameter	
COMPUTER 1	ANALOG PC	RGB 1	11
	COMPONENT	VIDEO 2	22
	SCART	RGB 2	12
COMPUTER 2	ANALOG PC	RGB 3	13
HDMI (Digital)	DIGITAL 3		33
VIDEO	VIDEO 1		21
S-VIDEO	VIDEO 5		25

PJLink is a registered trademark of JBMIA and pending trademark in some countries.



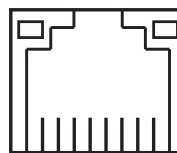
## Configurations of Terminals

### COMPUTER IN 1 /COMPONENT IN (Mini D-sub 15 pin)



1	Red(R/Cr) Input
2	Green(G/Y) Input
3	Blue (B/Cb) Input
4	-----
5	Ground (Horiz.sync.)
6	Ground (Red)
7	Ground (Green)
8	Ground (Blue)
9	5V Power
10	Ground (Vert.sync.)
11	Ground
12	DDC Data
13	Horiz. sync. Input (Composite H/V sync.)
14	Vert. sync.
15	DDC Clock

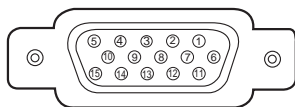
### LAN TERMINAL (RJ-45)



87654321

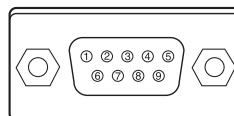
1	TX+
2	TX-
3	RX+
4	---
5	---
6	RX-
7	---
8	---

### COMPUTER IN 2/MONITOR OUT (ANALOG) (Mini D-sub 15 pin)



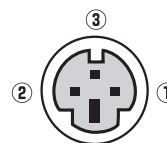
1	Red (R/Cr) Input/Output
2	Green (G/Y) Input/Output
3	Blue (B/Cb) Input/Output
4	-----
5	Ground (Horiz.sync.)
6	Ground (Red)
7	Ground (Green)
8	Ground (Blue)
9	-----
10	Ground (Vert.sync.)
11	-----
12	-----
13	Horiz. sync. Input/Output
14	Vert. sync. Input/Output
15	-----

### CONTROL PORT CONNECTOR (D-sub 9 pin)



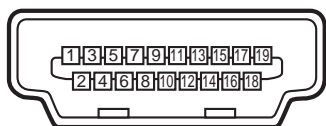
	Serial
1	---
2	RXD
3	TXD
4	---
5	SG
6	---
7	---
8	---
9	---

### 3D SYNC OUT CONNECTOR (Mini DIN 3 pin)



1	+5VDC
2	Ground
3	Stereo Sync

### HDMI (19 PIN Type A)



1	TMDS Data 2+ Input	11	Ground (TMDS Clock)
2	Ground (TMDS Data 2)	12	TMDS Clock- Input
3	TMDS Data 2- Input	13	---
4	TMDS Data 1+ Input	14	---
5	Ground (TMDS Data 1)	15	SCL
6	TMDS Data 1- Input	16	SDA
7	TMDS Data 0+ Input	17	Ground (DDC/CEC)
8	Ground (TMDS Data 0)	18	+5V Power
9	TMDS Data 0- Input	19	Plug insert detection
10	TMDS Clock+ Input		

## PIN Code Number Memo

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

**PIN Code Lock No.**

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Factory default set No: 1 2 3 4\*

**Logo PIN Code Lock No.**

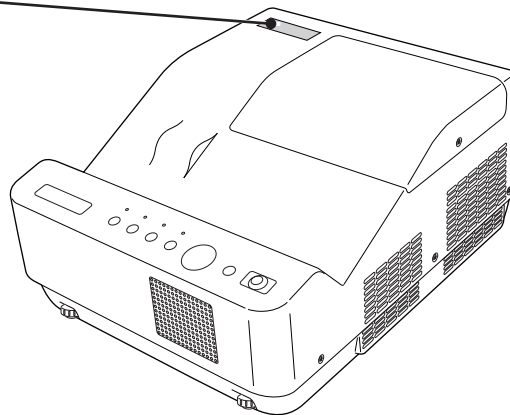
--	--	--	--

Factory default set No: 4 3 2 1\*

\*Should the four-digit number be changed, the factory set number will be invalid.

While the projector is locked with the PIN code.

Put the label below (supplied) on in a prominent place of the projector's body while it is locked with a PIN code.

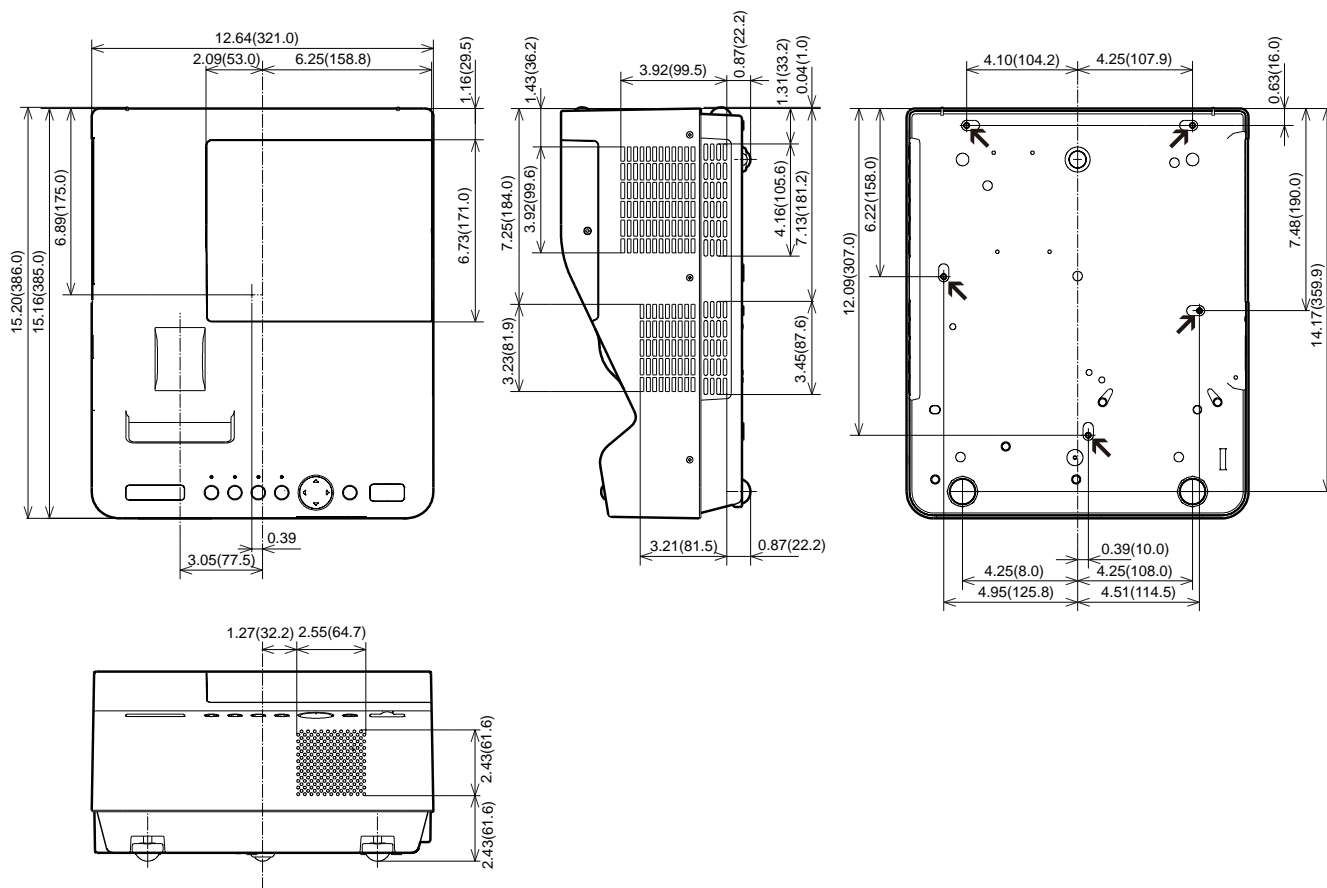




Dimensions

Unit: inch(mm)

↘ Screw Holes for Ceiling Mount  
Screw: M4  
Depth: 0.63(16.0)



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