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PROJECTOR OWNER'S MANUAL

EIKI

LC-WS250

Need a replacement lamp for this projector?

www.myprojectorlamps.com

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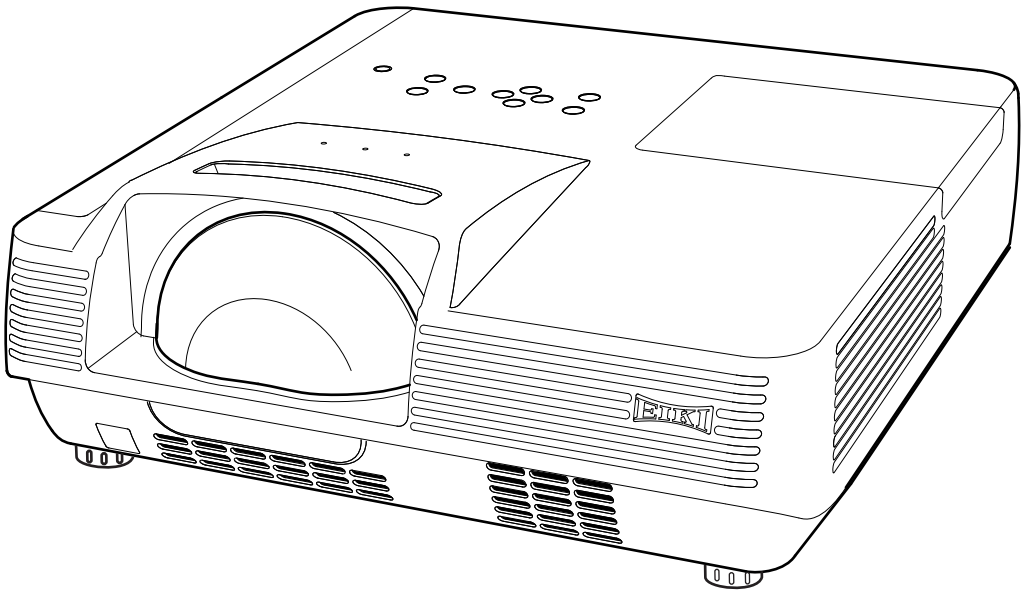
EIKI

Multimedia Projector

Network Supported

- □ Wired LAN
  - * Refer to the owner's manual below for details about network function.
- □ Network Set-up and Operation
- □ PJ Network Manager

MODEL LC-WS250



Owner's Manual

PJLink™

Features and Design

This Multimedia Projector is designed with the most advanced technology for portability, durability, and ease of use. This projector utilizes built-in multimedia features, a palette of 16.77 million colors, and matrix liquid crystal display (LCD) technology.

✦Large Screen in Limited Space

Short focus lens allows you to project large images from short distance. (p.13)

✦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 control (p.55). PIN code lock function prevents unauthorized use of the projector. (pp.19, 55–56)

✦Logo Function

The Logo function allows you to customize the screen logo. The Logo page identifies the owner of the projector. (pp.47-49)

✦Closed caption

Closed Caption is a function that displays the audio portion of a TV program as text on the screen. You can turn on the feature and switch the channels. (p.53)

✦Simple Computer System Setting

The projector has a Multi-scan system to conform to almost all computer output signals quickly. (p.29)

✦Helpful Maintenance Functions

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

✦LAN Network Function

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

✦Direct OFF Function

With the Direct OFF function, you can disconnect the power cord from the wall outlet or turn off the breaker even during projection. (p.20)

✦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.36)

✦Blackboard Function

A blackboard can be used as a projection screen. (pp.33, 40)

*The board color is limited to Green.

✦Colorboard Function

At the time of simple projection on the colored wall, you can get the close color image to the color image projected on a white screen by selecting the similar color to the wall color from the preset four colors. (pp.33, 40)

✦Multilanguage Menu Display

The Operation menu is available in 23 languages: English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Finnish, Norwegian, Danish, Polish, Hungarian, Romanian, Russian, Brazilian Portuguese, Turkish, Arabic, Kazak, Simplified Chinese, Traditional Chinese, Korean, and Japanese. (p.44)

✦Switchable Interface Terminal

The projector provides a switchable interface terminal. You can use the terminal as computer input or monitor output conveniently. (p.50)

✦Power Management

The Power management function reduces power consumption and maintains lamp life. (p.51)

✦Auto Setup Function

This function enables Input search and Auto PC adjustment by simply pressing the AUTO SET button. (pp.23, 45)

✓**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.*

Table of Contents

Features and Design 2
Table of Contents 3
To the Owner. 4
Safety Instructions 5
Air Circulation 6
Installing the Projector in Proper Position 6
Moving the Projector 6
Compliance 7
Part Names and Functions 8
Front 8
Side 8
Side Terminal 9
Top Panel 10
Remote Control 11
Remote Control Battery Installation 12
Remote Control Operating Range 12
Remote Control Code 12
Installation. 13
Positioning the Projector 13
Adjustable Feet 13
Connecting to a Computer 14
Connecting to Video Equipment 15
Connecting to Component Video Equipment 16
Connecting the AC Power Cord 17
Basic Operation 18
Turning On the Projector 18
Turning Off the Projector 20
How to Operate the On-Screen Menu 21
Menu Bar 22
Focus Adjustment 23
Auto Setup Function 23
Keystone Correction 23
Sound Adjustment 24
Remote Control Operation 25
Computer Input 27
Input Source Selection (Computer 1: RGB) 27
Input Source Selection (Computer 2: RGB) 28
Computer System Selection 29
Auto PC adjustment 30
Manual PC adjustment 31
Image Mode Selection 33
Image Adjustment 34
Screen Size Adjustment 35
Video Input 37
Input Source Selection (Video, S-video) 37
Input Source Selection (Component, RGB Scart 21-pin, HDMI) 38
Video System Selection 39
Image Mode Selection 40
Image Adjustment 41
Screen Size Adjustment 43
Setting 44
Setting 44
Information 59
Input Source Information Display 59
Maintenance and Cleaning 60
WARNING indicator 60
Replacing the Filter 61
Resetting the Filter Counter 61
Attaching the Lens Cover 62
Cleaning the Projection Lens 62
Cleaning the Projector Cabinet 62
Lamp Replacement 63
Resetting the Lamp Counter 64
Appendix 65
Troubleshooting 65
Menu Tree 68
Indicators and Projector Condition 70
Compatible Computer Specifications 71
Technical Specifications 73
Optional Parts 74
PJ Link Notice 74
Configurations of Terminals 75
PIN Code Number Memo 76
Dimensions 77

Trademarks
Each name of corporations or products in this book is either a registered trademark or a trademark of its respective corporation.

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 in the back of this manual. If the problem still persists, contact the dealer where you purchased the projector or the service center.

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: **TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE EXCEPT LAMP REPLACEMENT. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT.

THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE OWNER'S MANUAL WITH THIS UNIT.

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

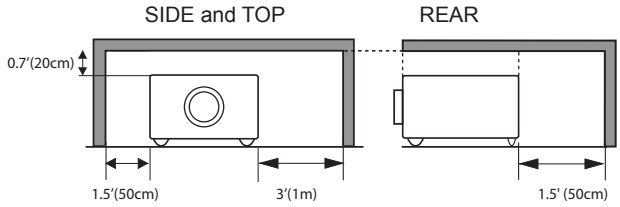
Note:
If a chemical symbol is printed beneath the symbol mark, this chemical symbol means that the battery or accumulator contains a heavy metal at a certain concentration. This will be indicated as follows: *Hg: mercury, Cd: cadmium, Pb: lead*
In the European Union there are separate collection systems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

Please, help us to conserve the environment we live in!

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. Otherwise it may result in 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 project the same image for a long time. The afterimage may remain on the LCD panels by the characteristic of panel.

CAUTION

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.

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.

READ AND KEEP THIS OWNER'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.

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.



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.

NOTE FOR CUSTOMERS IN THE US

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

Air Circulation

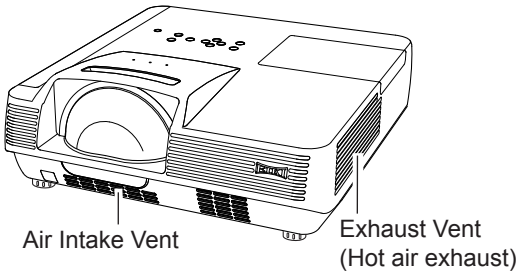
Openings in the cabinet are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered.

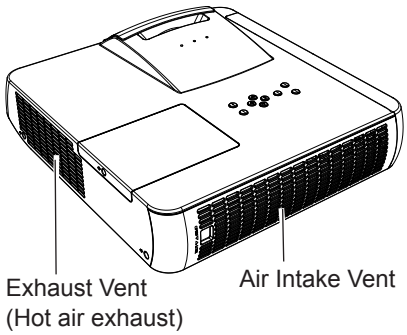
CAUTION

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.

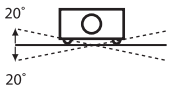
Cooling fans are provided to cool down the projector. The fans' running speed is changed according to the temperature inside the projector.



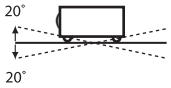


Installing the Projector in Proper Position

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



Do not roll the projector more than 20 degrees from side to side.



Do not pitch the projector more than 20 degrees backward and forward.



Do not point the projector up to project an image.



Do not point the projector down to project an image.



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

CAUTION

Choose the running speed of cooling fans in the fan control setting according to the altitude in which the projector is being used (p.57). 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.

Moving the Projector

When moving the projector, replace the lens cover and retract adjustable feet to prevent damage to the lens and 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.

Compliance

Federal Communications Commission Notice

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

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

Use of shielded cable is required to comply with class B limits in Subpart B of Part 15 of FCC Rules.
Do not make any changes or modifications to the equipment unless otherwise specified in the instructions. If such changes or modifications should be made, you could be required to stop operation of the equipment.

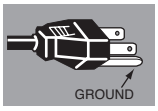
Model Number	: LC-WS250
Trade Name	: EIKI
Responsible party	: EIKI International,Inc.
Address	: 30251 Esperanza Rancho Santa Margarita CA 92688-2132
Telephone No.	: 800-242-3454 (949-457-0200)

AC Power Cord Requirement

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

AC Power Cord for the United States and Canada:

AC Power Cord used in the United States and Canada is listed by the Underwriters Laboratories (UL) and certified by the Canadian Standard Association (CSA).
AC Power Cord has a grounding-type AC line plug. This is a safety feature to be sure that the plug will fit into the power outlet. Do not try to defeat this safety feature. Should you be unable to insert the plug into the outlet, contact your electrician.



AC Power Cord for the United Kingdom:

This cord is already fitted with a moulded plug incorporating a fuse, the value of which is indicated on the pin face of the plug. Should the fuse need to be replaced, an ASTA approved BS 1362 fuse must be used of the same rating, marked thus ⎆. If the fuse cover is detachable, never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is of the same colour as that visible on the pin face of the plug (i.e. red or orange). Fuse covers are available from the Parts Department indicated in your User Instructions.
If the plug supplied is not suitable for your socket outlet, it should be cut off and destroyed.
The end of the flexible cord should be suitably prepared and the correct plug fitted.
WARNING : A PLUG WITH BARED FLEXIBLE CORD IS HAZARDOUS IF ENGAGED IN A LIVE SOCKET OUTLET.
The Wires in this mains lead are coloured in accordance with the following code:

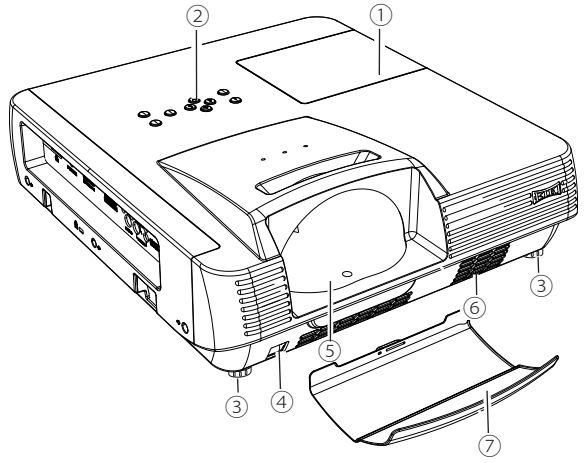
Green-and-yellow . .	Earth
Blue	Neutral
Brown	Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:
The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol ⏚ or coloured green or green-and-yellow.
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.
WARNING: THIS APPARATUS MUST BE EARTHED.

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

Part Names and Functions

Front

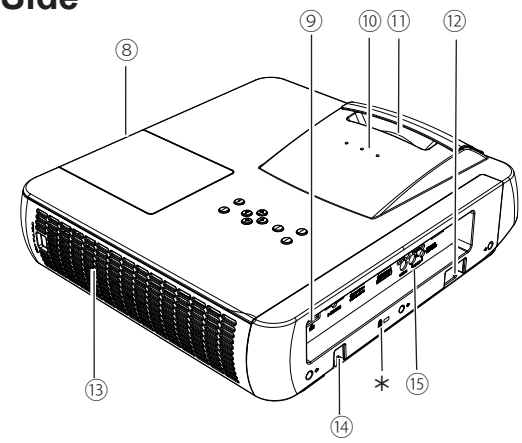


① **Lamp Cover**
② **Top controls**
③ **Adjustable feet**
④ **Infrared Remote Receiver**
⑤ **Projection Lens**
⑥ **Speaker**
⑦ **Lens Cover**

CAUTION

Do not turn on a projector with lens cover attached. High temperature from light beam may damage lens cover and result in fire hazard.

Side



⑧ **Exhaust vent**

CAUTION

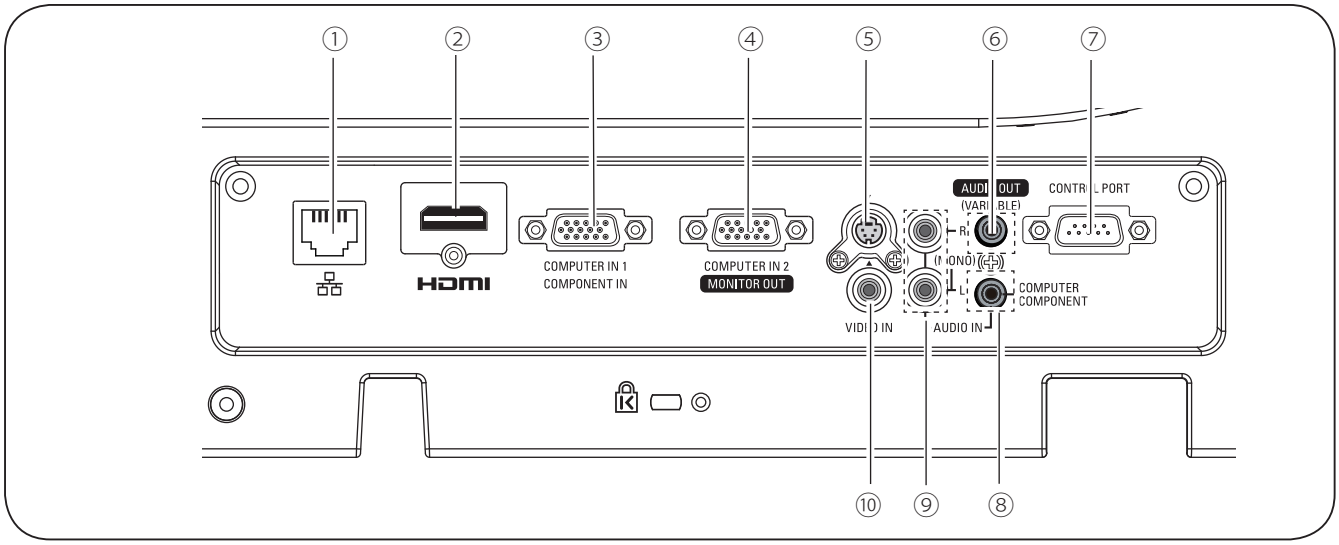
Hot air is exhausted from the exhaust vent. Do not put heat-sensitive objects near this side.

⑨ **LAN Connection Terminal**
⑩ **Indicators**
⑪ **Focus Ring**
⑫ **Power Cord Connector**
⑬ **Filter**
⑭ **Security Bar**
⑮ **Terminals and Connectors**

✓Note:
⑨ LAN Connection Terminal is for the Network function. Refer to the owner'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 **LAN Connection Terminal**

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

② **HDMI**

Connect the HDMI signal from computer or video equipment to this terminal (pp.14,16).

HDMI is registered trademarks of HDMI Licensing, LLC.

③ **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.14,16).

④ **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. 14, 50)].

⑤ **S-VIDEO IN**

Connect the S-VIDEO output signal from video equipment to this jack (p.15).

⑥ **AUDIO OUT (VARIABLE)**

Connect an external audio amplifier to this jack (pp.14-16).
This terminal outputs sound from AUDIO IN terminal (⑧ or ⑨) or HDMI terminal ② (digital audio).

⑦ **CONTROL PORT**

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

⑧ **COMPUTER / COMPONENT AUDIO IN**

Connect the audio output (stereo) from a computer or video equipment connected to ②, ③ or ④ to this jack (pp.14,16).

⑨ **AUDIO IN (L/R)**

Connect the audio output signal from video equipment connected to ⑤ or ⑩ to this jack.

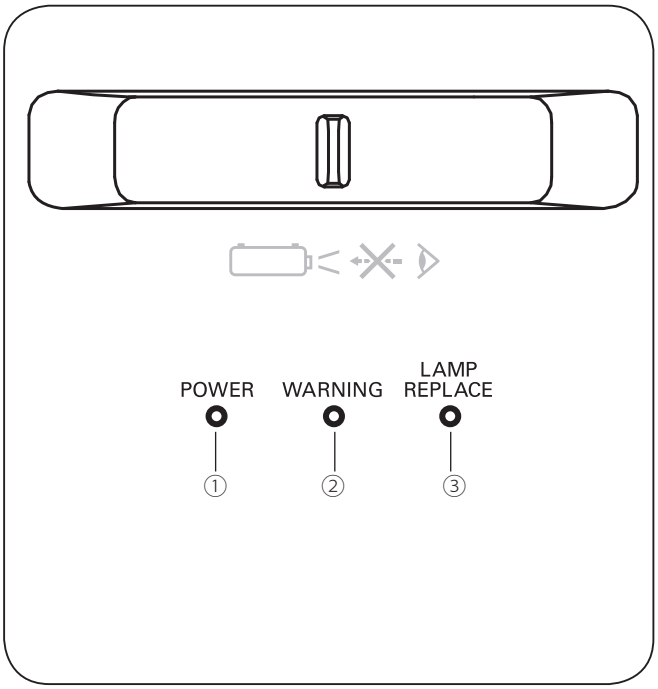
For a monaural audio signal (a single audio jack), connect it to the L (MONO) jack (p.15).

⑩ **VIDEO IN**

Connect the composite video output signal to this jack (p.15).

Top Panel

Indicators



① **POWER indicator**

It turns red when the projector is in the stand-by mode.
It remains green while the projector is under operation. (pp.18, 70)

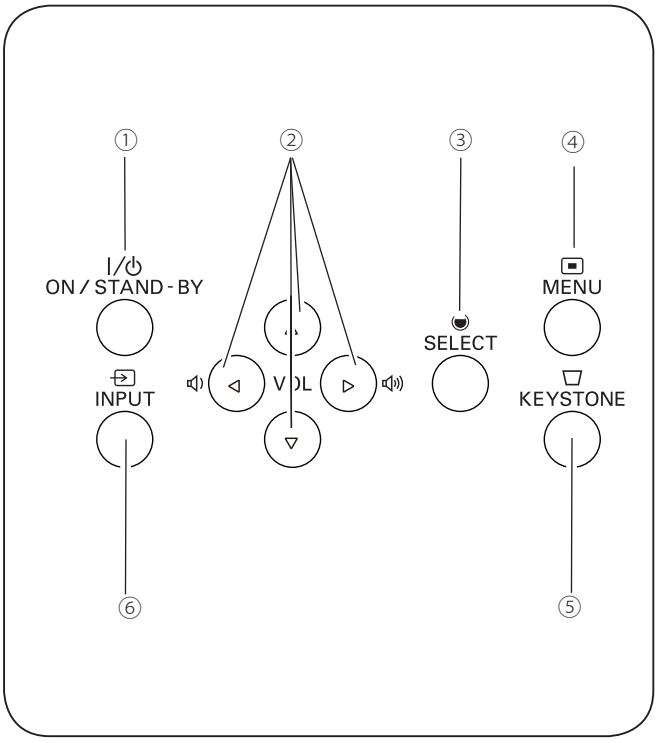
② **WARNING indicator**

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. 60, 70)

③ **LAMP REPLACE indicator**

Turn yellow when the life of the projection lamp draws to an end. (pp. 63, 70)

Top controls



① **ON/STAND-BY button**

Turn the projector on or off (pp.18-20).

② **Point ▲▼◄► (VOLUME – / +) buttons**

– Select an item or adjust the value in the On-Screen Menu (p.21).
– Pan the image in Digital zoom + mode (p.36).
– Adjust the volume level (with Point ◄► buttons) (p.24).

③ **SELECT button**

– Execute the selected item (p.21).
– Zoom in or out the image in the Digital zoom mode (p.36).

④ **MENU button**

Open or close the On-Screen Menu (p.21).

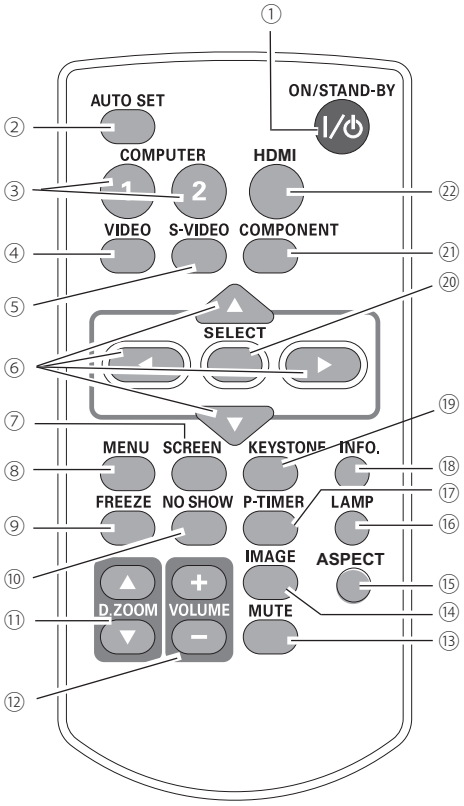
⑤ **KEYSTONE button**

Correct the keystone distortion. (pp.23, 46)

⑥ **INPUT button**

Select an input source (pp.27-28, 37-38)

Remote Control



① **ON/STAND-BY button**
Turn the projector on or off. (pp.18-20)

② **AUTO SET button**
Execute the setting of Auto setup (includes Input search function and Auto PC adj. function). (pp.23, 45)

③ **COMPUTER 1/2 buttons**
Select the COMPUTER 1 or COMPUTER 2 input source. (pp.27-28, 38)

✓Note:
To ensure safe operation, please observe the following precautions:
– Do not bend, drop, or expose the remote control to moisture or heat.
– For cleaning, use a soft dry cloth. Do not apply benzene, thinner, spray, or any chemical material.

④ **VIDEO button**
Select the VIDEO input source. (p.37)

⑤ **S-VIDEO button**
Select the S-VIDEO input source. (p.37)

⑥ **Point ▲▼◄► buttons**
– Select an item or adjust the value in the On-Screen Menu. (p.21)
– Pan the image in the Digital zoom +/- mode. (p.36)

⑦ **SCREEN button**
Select a screen mode. (pp.26, 35-36, 43)

⑧ **MENU button**
Open or close the On-Screen Menu. (p.21)

⑨ **FREEZE button**
Freeze the picture on the screen. (p.25)

⑩ **NO SHOW button**
Temporarily turn off the image on the screen. (p.26)

⑪ **D.ZOOM ▲▼ buttons**
Zoom in and out the images. (pp.25, 36)

⑫ **VOLUME +/- buttons**
Adjust the volume level. (p.24)

⑬ **MUTE button**
Mute the sound. (p.24)

⑭ **IMAGE button**
Select the image mode. (pp.26, 33, 40)

⑮ **ASPECT button**
Select a screen aspect from **4:3**, **16:9** and **16:10**. (pp.25,50)

⑯ **LAMP button**
Select a lamp mode. (pp.25, 54)

⑰ **P-TIMER button**
Operate the P-timer function. (pp.26, 52)

⑱ **INFO. button**
Operate the information function. (pp.25,59)

⑲ **KEYSTONE button**
Correct the keystone distortion. (pp.23, 46)

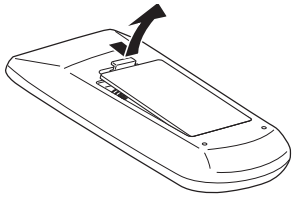
⑳ **SELECT button**
– Execute the selected item. (p.21)
– Zoom in or out the image in Digital zoom mode. (p.36)

㉑ **COMPONENT button**
Select the COMPONENT input source. (p.38)

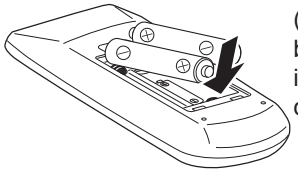
㉒ **HDMI button**
Select the HDMI input source. (p.38)

Remote Control Battery Installation

1 Open the battery compartment lid.

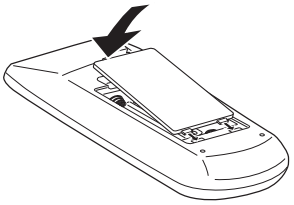


2 Install new batteries into the compartment.



Two AAA size batteries
For correct polarity (+ and –), be sure battery terminals are in contact with pins in compartment.

3 Replace the compartment lid.

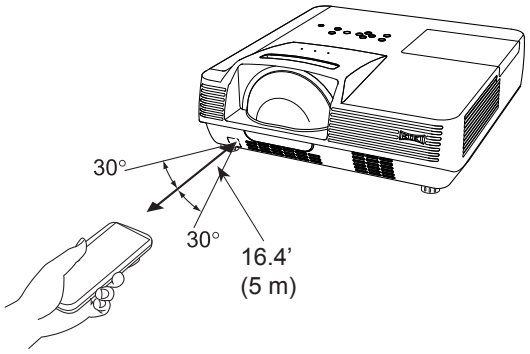


To ensure safe operation, please observe the following precautions :

- Use two (2) AAA or LR03 type alkaline 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 control to moisture or heat.
- Do not drop the remote control.
- If the battery has leaked on the remote control, 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 Control Operating Range

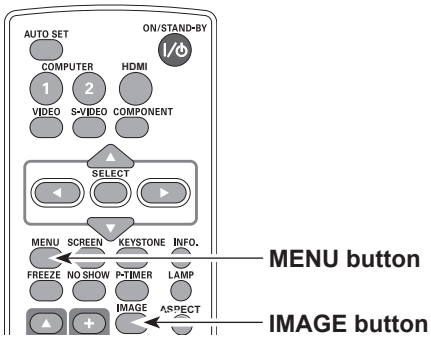
Point the remote control toward the projector (Infrared Remote Receiver) when pressing the buttons. Maximum operating range for the remote control is about 16.4'(5 m) and 60 degrees in front of the projector.



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 54.

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**.

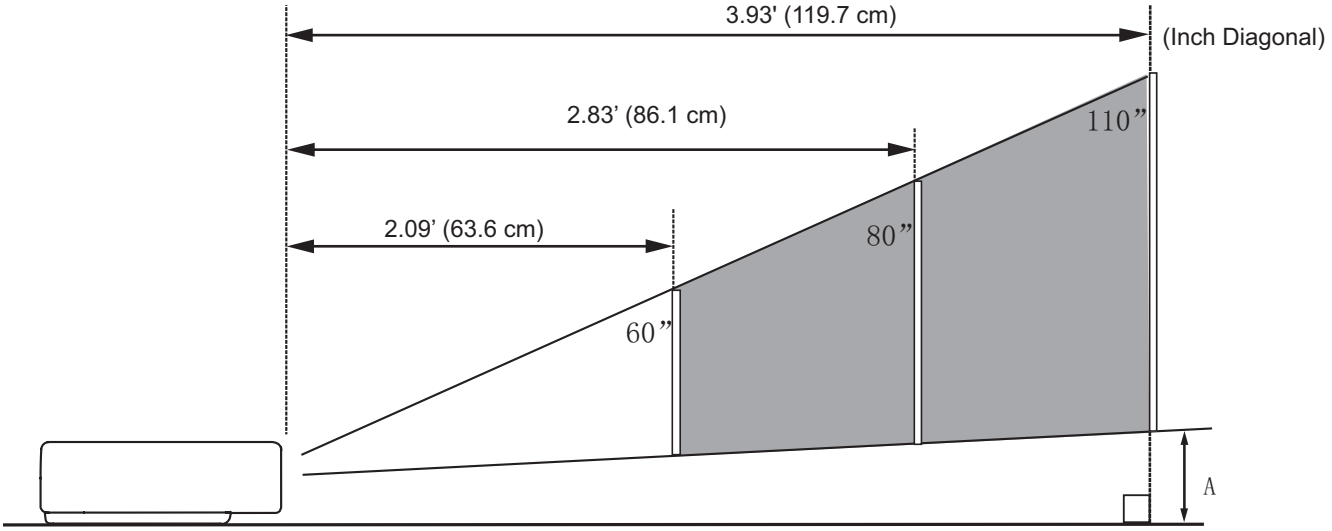


Positioning the Projector

For projector positioning, see the figures below. The projector should be set perpendicularly to the plane of the screen. The projector will focus at distance from 2.09' to 3.93' (63.6 cm to 119.7 cm).

✓**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.



Screen Size (W x H) mm 16:10aspect ratio	60”	80”	110”
	1292 x 808	1723 x 1077	2369 x 1481
Throw distance	2.09’ (63.6 cm)	2.83’ (86.1 cm)	3.93' (119.7 cm)
A	7.9” (20.0 cm)	9.7” (24.5 cm)	12.3” (31.3 cm)

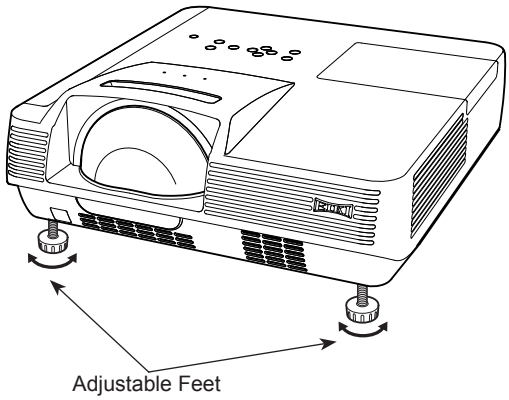
Adjustable Feet

Projection angle can be adjusted up to 10.0 degrees 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 control or on the top control or select **Keystone** from the menu (see pages 23, 46).

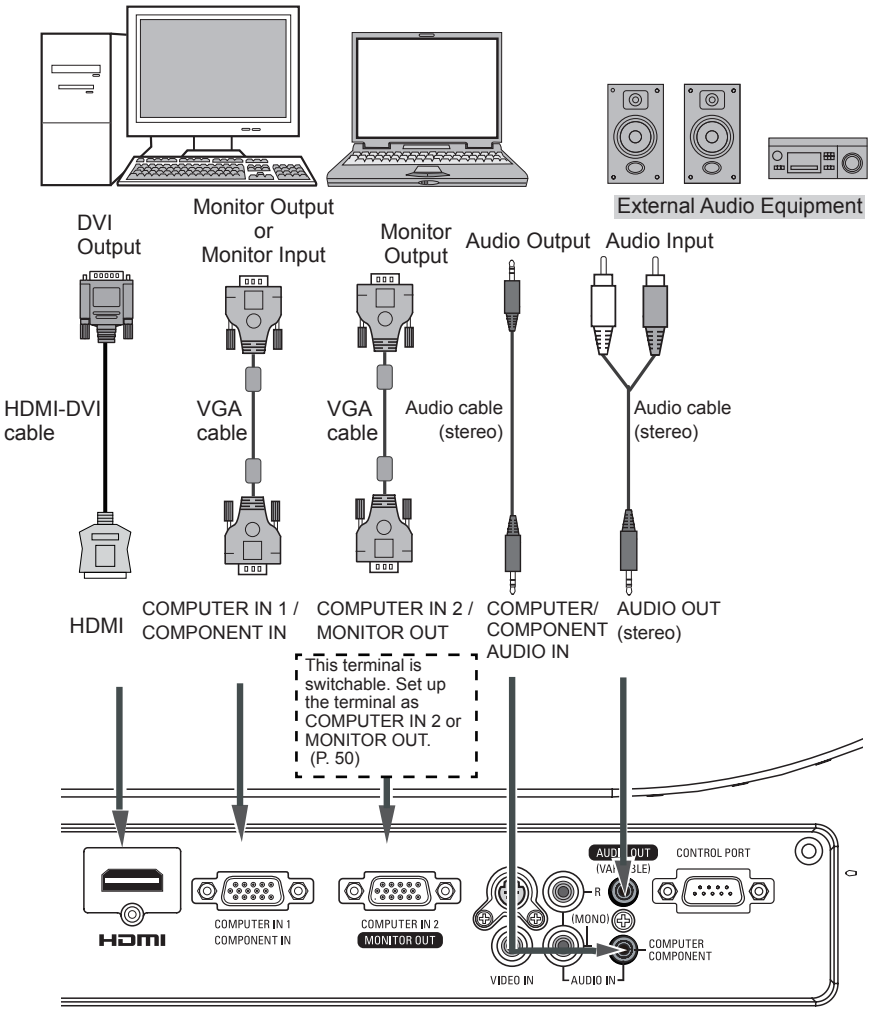


Connecting to a Computer

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:**

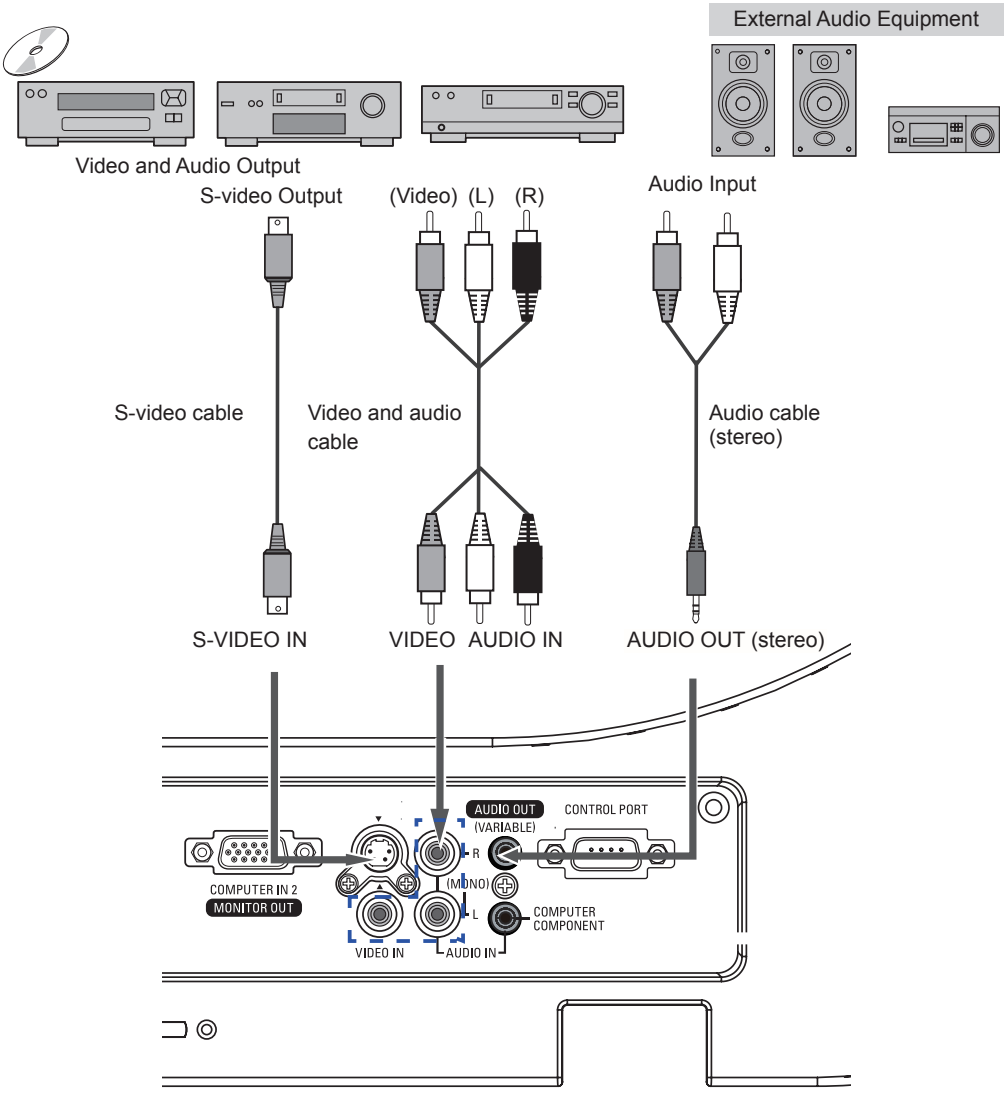
- Input sound to the COMPUTER/COMPONENT AUDIO IN terminal when using the COMPUTER IN 1/COMPONENT IN terminal as input.
- When the cable is of the longer variety, it is advisable to use the COMPUTER IN 1/COMPONENT IN and not the COMPUTER IN 2 /MONITOR OUT.
- Analog RGB and component signals can be output from the COMPUTER IN 2/MONITOR OUT terminal when using the COMPUTER IN 2/MONITOR OUT terminal as output.

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

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.)

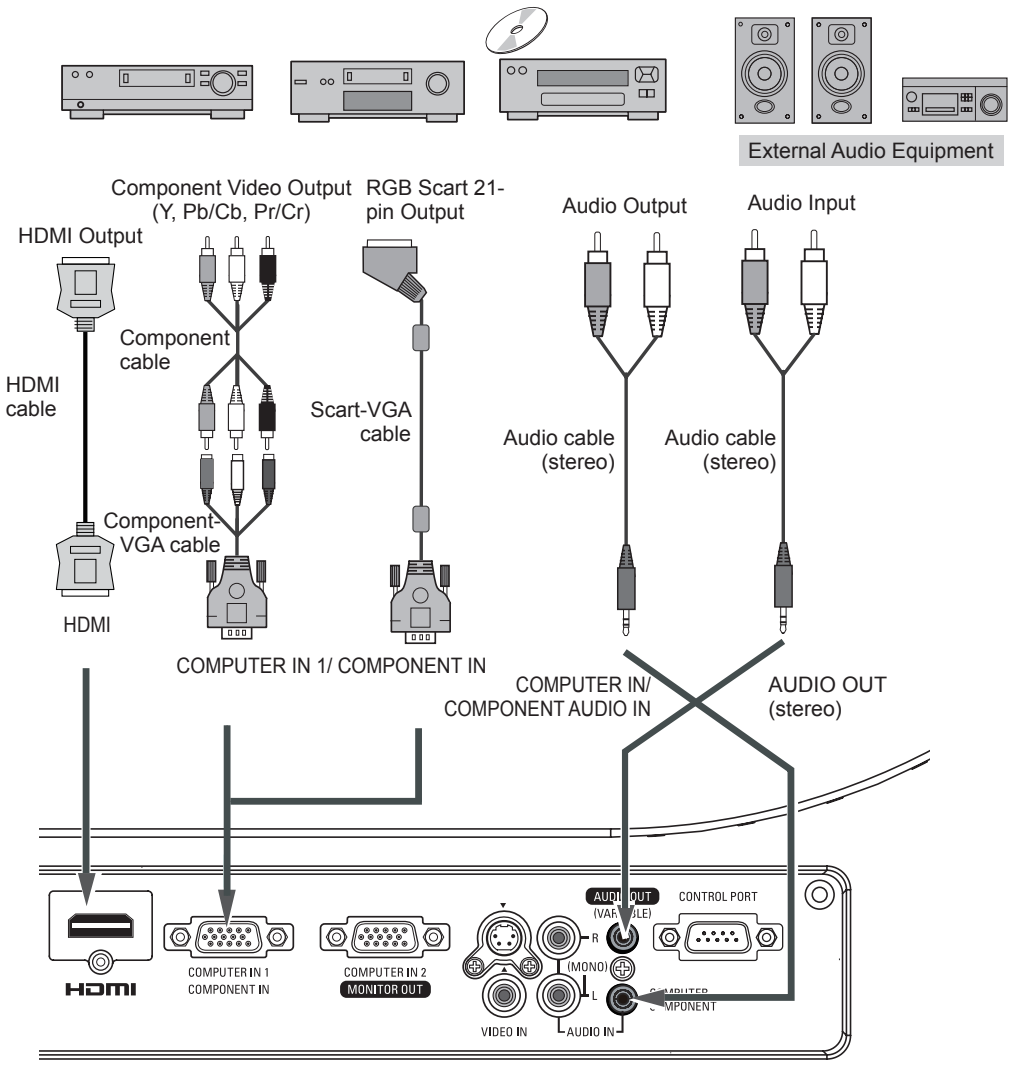


Unplug the power cords of both the projector and external equipment from the AC outlet before connecting cables.

Connecting to Component Video Equipment

Cables used for connection
- Audio cables
- Scart-VGA cable
- Component cable
- Component-VGA cable
- HDMI cable

(Cables are not supplied with this projector.)

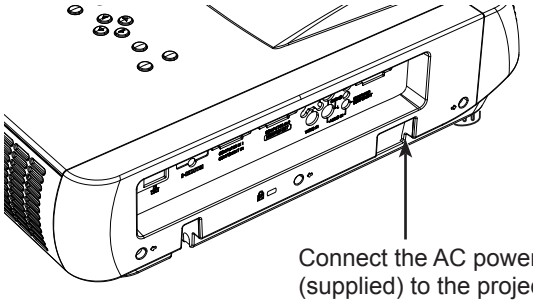


✓**Note:**
- See page 74 for ordering optional cables.

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

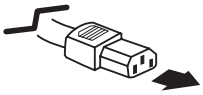
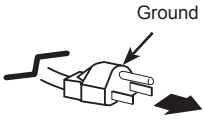
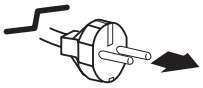
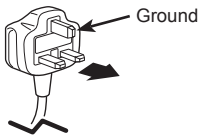
CAUTION

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		
	For the U.S.A. and Canada	**For Continental Europe**	**For the U.K.**
			
To power cord connector on your projector.	To the AC outlet. **(120 V AC)**	To the AC outlet. **(200 - 240 V AC)**	To the AC outlet. **(200 - 240 V AC)**

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 ON/STAND-BY button on the remote control 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 control status icon (see page 54) 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 SELECT 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.



The preparation display will disappear after 15 seconds.

Selected Input Source and Lamp Control



Lamp control status

(See page 54 for Lamp control status.)

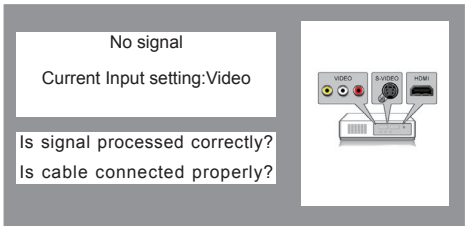
✓**Note:**

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

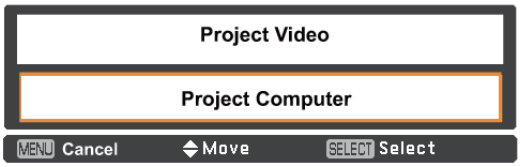
Video / PC selection window



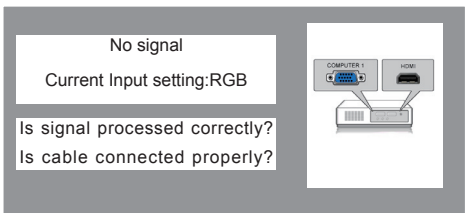
Input signal guidance window



Video / PC selection window



Input signal guidance window



✓**Note:**

- When the Logo select function is set to **Off**, the logo will not be shown on the screen. (p.47)
- When **Countdown off** or **Off** is selected in the Display function, the countdown will not be shown on the screen. (p.46)
- When the Input search function is set to **On 2**, the input signal will be searched automatically. (p.45)
- 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.46)

Enter a PIN code

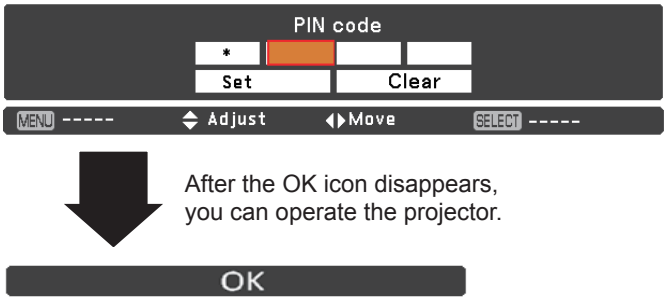
Use the Point ▲▼ buttons to enter a number. Press the Point ► button to fix the number and move the red frame pointer to the next box. The number changes to ∗. If you fixed an incorrect number, use the Point ◄ button to move the pointer to the number you want to correct, and then enter the correct number.

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

After entering the four-digit number, move the pointer to "Set". Press the SELECT 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.

PIN Code Input Dialog Box



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 55-56 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 in a column on page 76 of this manual and keep it on hand. Should the PIN code be missing or forgotten, consult your dealer or service center.

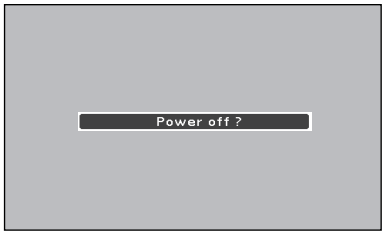
✓**Note:**
- If the PIN code number is not entered within three minutes after the PIN code dialog box appeared, the projector will be turned off automatically.
- The “1234” is set as the initial PIN code at the factory.

Turning Off the Projector

1 Press the ON/STAND-BY button on the remote control or on the top control, and **Power off?** appears on the screen.

2 Press the ON/STAND-BY 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 57.) 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? 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 on function is set to **On**, the projector will be turned on automatically by connecting the AC power cord to an AC outlet. (p. 52)
- 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 indicator blinks or lights red, see "WARNING indicator" on page 60.
- 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.

Direct OFF Function

You can disconnect the power cord from the wall outlet or turn off the breaker even during projection without pressing the ON/STAND-BY button.

✓**Note:**

- When using the Direct OFF function, you cannot 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 control or on the top control to display the On-Screen Menu.

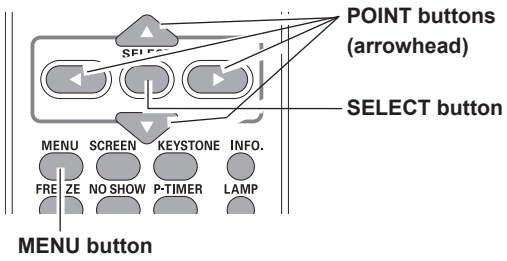
2 Use the Point ▲▼ buttons to highlight and select a main menu item. Press the Point ► or the SELECT button to access the submenu items. (The selected item is highlighted in orange.)

3 Use the Point ▲▼ buttons to select the desired submenu item and press the SELECT button to set or access the selected item.

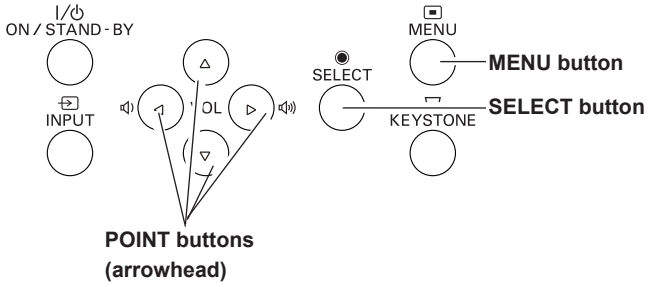
4 Use the Point ▲▼◄► buttons to adjust the setting or switch between each option and press the SELECT button to activate it and return to the submenu.

5 Press the Point ◄ button to return to the main menu. Press the MENU button to exit the On-Screen Menu.

Remote Control



Top Control

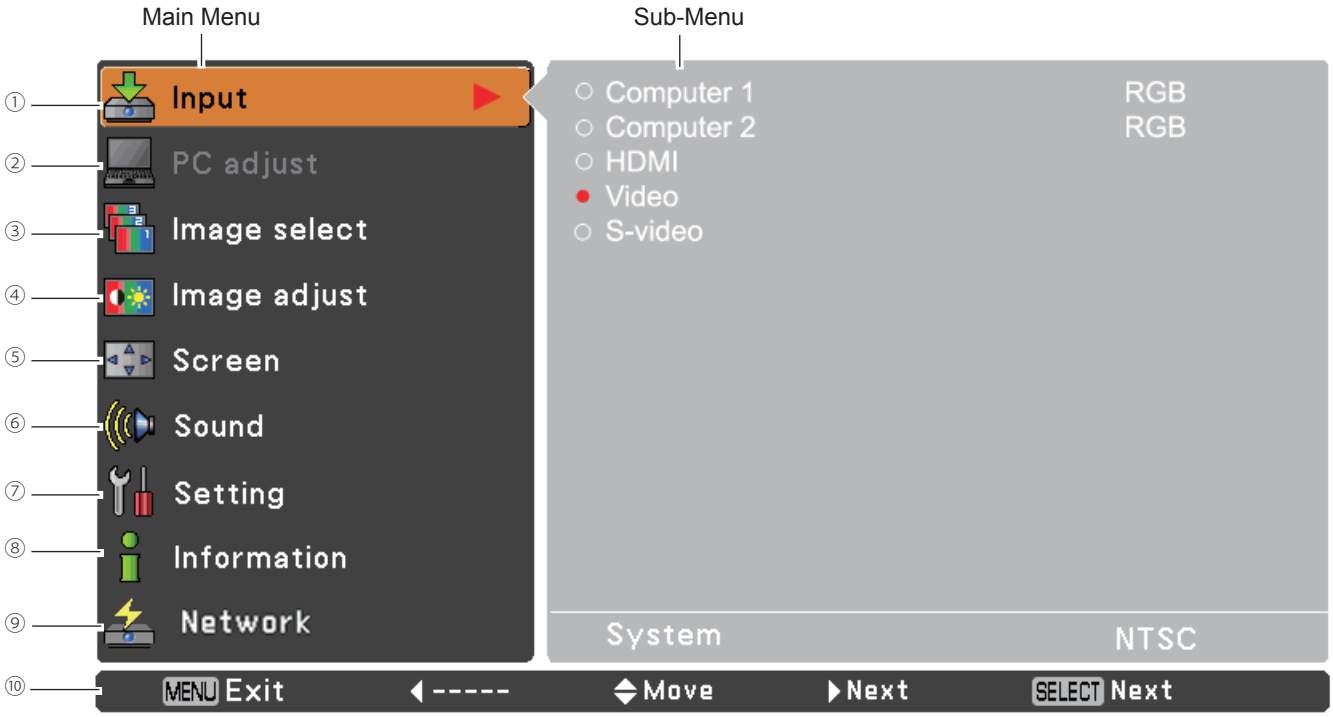


On-Screen Menu



Menu Bar

For detailed functions of each menu, see “Menu Tree” on pages 68-69.



① **Input**
Used to select an input source from **Computer 1**, **Computer 2**, **HDMI**, **Video** or **S-video**. (pp.27-28,37-38)

② **PC adjust**
Select **Auto PC adj.**, **Fine sync**, **Total dots**, **Horizontal**, **Vertical**, **Current mode**, **Clamp**, **Display area H** and **Display area V** to adjust the parameters to match with the PC input signal format. (pp.30-32)

③ **Image select**
For computer source, used to select an image mode from among **Dynamic**, **Standard**, **Real**, **Blackboard(Green)**, **Colorboard** and **Image 1-4**. (p.33)
For video or HDMI source, used to select an image mode among **Dynamic**, **Standard**, **Cinema**, **Blackboard(Green)**, **Colorboard** and **Image 1-4**. (p.40)

④ **Image adjust**
For computer source, used to adjust computer image [**Contrast**, **Brightness**, **Color temp.**, **White balance (Red/Green/Blue), Sharpness** and **Gamma**]. (pp.34-35)
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.41-42)

⑤ **Screen**
For computer source, used to adjust size of the image [**Normal**, **True**, **Full**, **Custom** and **Digital zoom +/–**]. (pp.35-36)
For video or HDMI source, used to set size of image [**Normal**, **Full**, **Zoom**, **Wide, Natural wide** and **Custom**]. (p.43)

⑥ **Sound**
Used to adjust the volume or mute the sound. (p.24)

⑦ **Setting**
Used to set the projector’s operating configurations. (pp.44-58)

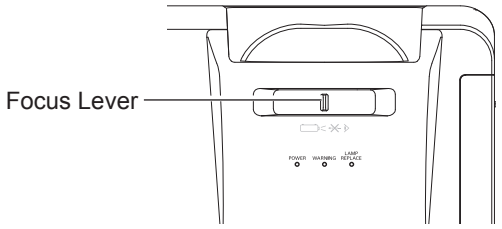
⑧ **Information**
Display the input source information: **Input** , **H-sync freq.**, **V-sync freq.**, **Screen**, **Language**, **Lamp status**, **Lamp counter**, **Power management**, **Key lock**, **PIN code lock** and **Remote control.** (p.59)

⑨ **Network**
See owner’s manual of “Network Set-up and Operation”.

⑩ **Guide**
The key operation is displayed.

Focus Adjustment

Adjust the lens focus with the focus lever.



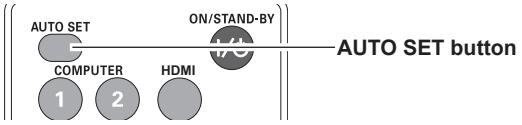
Auto Setup Function

Auto setup function is provided to automatically execute the setting of Auto setup (includes Input search and Auto PC adj. functions) in the Setting Menu by just pressing the AUTO SET button on the remote control. Refer to page 45 for the setting of the Auto setup function.

✓**Note:**

Fine sync, **Total dots**, **Horizontal** 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.31-32)

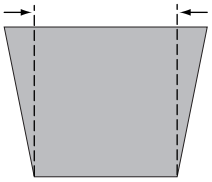
Remote Control



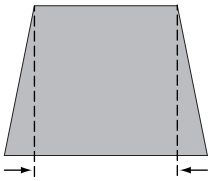
Keystone Correction

Press the KEYSTONE button on the remote control 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 page 46).

Reduce the upper width with the Point ▲ button.



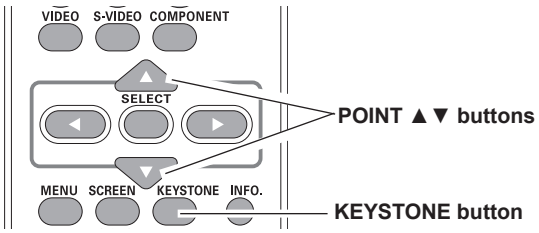
Reduce the lower width with the Point ▼ button.



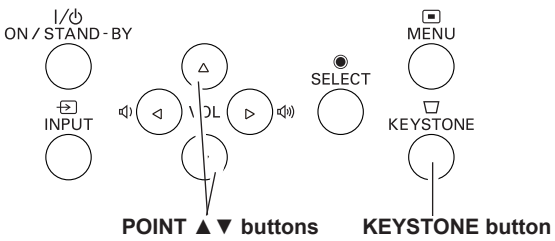


- The white arrows indicate that there is no correction.
- A red arrow indicates the direction of correction.
- An arrow disappears at the maximum correction.
- If you press the KEYSTONE button on the remote control or on the top control once more while the keystone dialog box is being displayed, the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

Remote Control



Top Control



Sound Adjustment

Direct Operation

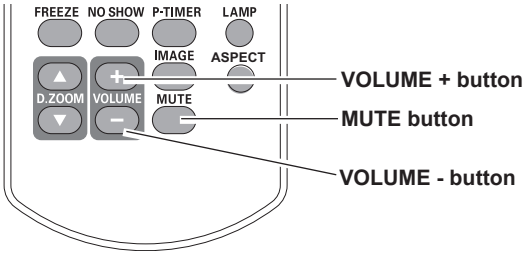
Volume

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

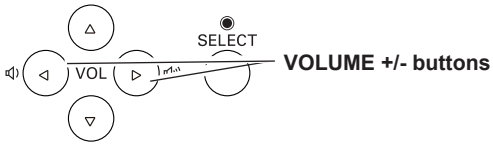
Mute

Press the MUTE button on the remote control 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.

Remote Control



Top Control



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 SELECT button to access the submenu items.

2 Use the Point ▲▼ buttons to select the desired submenu item and press the SELECT button to access the selected item.

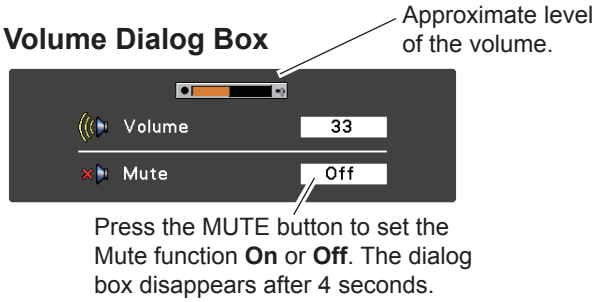
Volume

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

Mute

Press the SELECT 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.

Volume Dialog Box



Sound Menu



Remote Control Operation

Using the remote control 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 1/2, HDMI, VIDEO, S-VIDEO and COMPONENT buttons

Press the COMPUTER 1/2, HDMI, VIDEO, S-VIDEO and COMPONENT buttons on the remote control to select the input source. See pages 27-28, 37-38 for details.

FREEZE button

Press the FREEZE button on the remote control to freeze the picture on the screen. To cancel the Freeze function, press the FREEZE button again or press any other button. Fig.1 will appear on the screen 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.**, **Screen**, **Language**, **Lamp status**, **Lamp counter**, **Power management**, **Key lock**, **PIN code lock** and **Remote control**. (p.59)

D.ZOOM buttons

Press the D.ZOOM buttons on the remote control to enter to the D. zoom +/– mode. See page 36 for details.

LAMP button

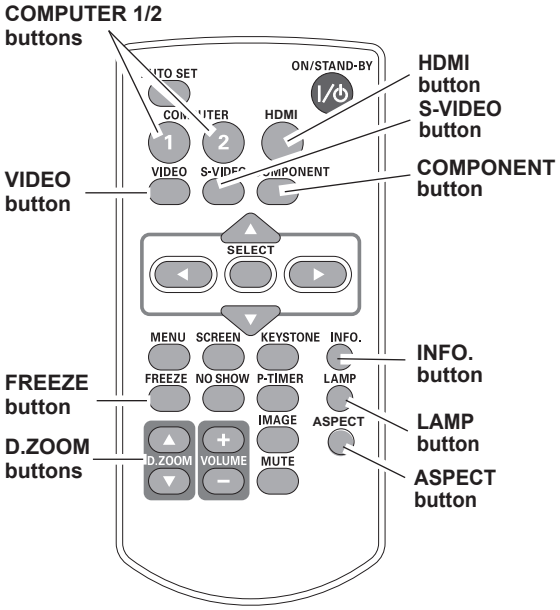
Press the LAMP button on the remote control to select the lamp mode for changing the brightness on the screen.

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

ASPECT button

Select a screen aspect from **4:3**, **16:9** and **16:10**. (p.50)

Remote Control



✓**Note:**

See the next page for the description of other buttons.

✓**Note:**

When **4:3** or **16:9** is selected, some Screen modes are limited. See pages 35 and 43 for details.

NO SHOW button

Press the NO SHOW button on the remote control to black out the image. To restore to normal, press the NO SHOW button again or press any other button. When the projected image is captured and is set as **User** in the Logo selection (p.47), the screen changes each time you press the NO SHOW button as follows.

black out → the captured image → normal → • • • • •



No show disappears after 4 seconds.

✓**Note:**

When use the MUTE button to release the No Show function, the mute function can not be operated at the same time.

P-TIMER button

Press the P-TIMER button on the remote control to operate the Count up/Count down function. Refer to p.52 for detail of Setting for the P-timer function.
To stop the count time, press the P-TIMER button.
To cancel the P-timer function, press and hold the P-TIMER button for a few seconds.

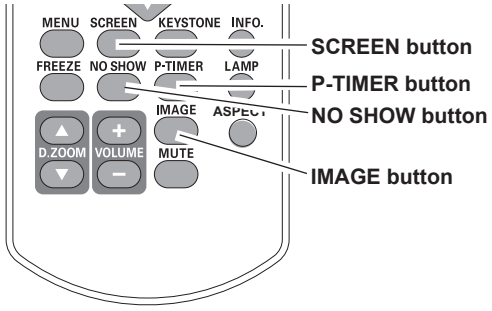
IMAGE button

Press the IMAGE button on the remote control to select a desired image mode of the screen. See pages 33, 40 for details.

SCREEN button

Select the screen size (See pages 35-36, 43 for details).

Remote Control



✓**Note:**

See the previous page for the description of other buttons.

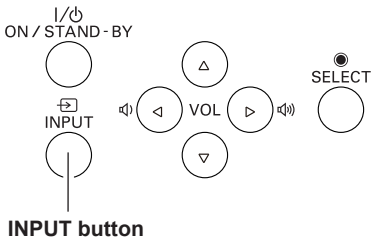
Input Source Selection (Computer 1: RGB)

Direct Operation

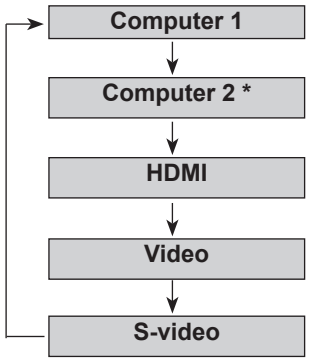
Choose **Computer 1(RGB)** by pressing the COMPUTER 1 button on the remote control or press the INPUT button on the top control.

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

Top Control

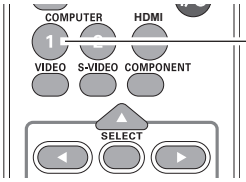


INPUT button

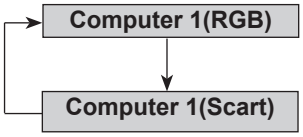


*COMPUTER 2 can not be selected when using the COMPUTER IN 2/ MONITOR OUT terminal as MONITOR OUT output.

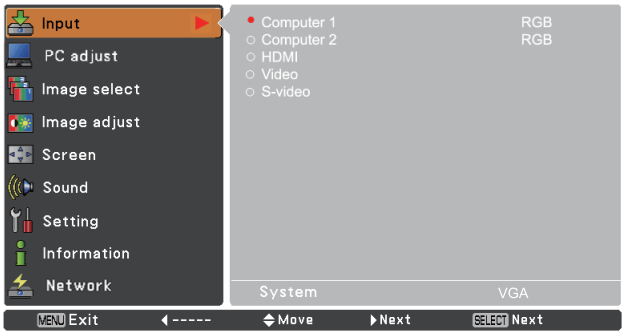
Remote Control

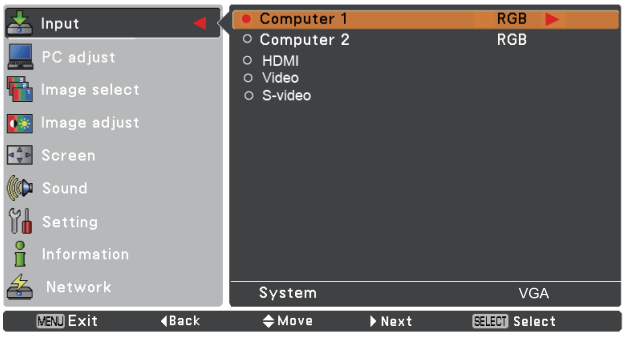


COMPUTER 1 button

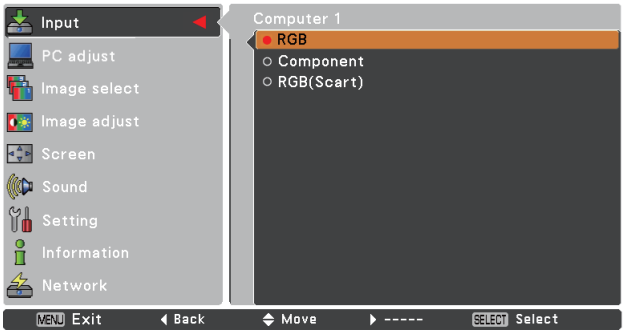


Input Menu





Computer 1



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 SELECT 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 RGB input source and then press the SELECT button.

✓**Note:**

When the Input Search function is set to **On 1** or **On 2** in the Auto setup function, the input signal will be searched automatically (p.45).

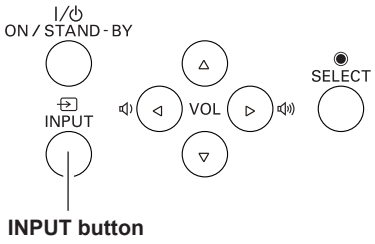
Input Source Selection (Computer 2: RGB)

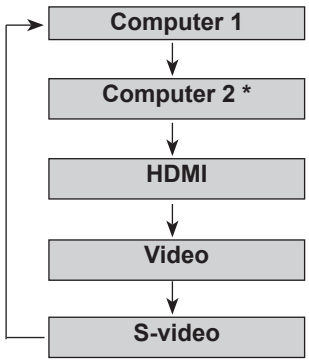
Direct Operation

Choose **Computer 2 (RGB)** by press the COMPUTER 2 button on the remote control or press the INPUT button on the top control.

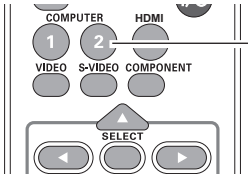
Before using these buttons, correct input source should be selected through Menu operation as described below.

Top Control





Remote Control



COMPUTER 2 button

Computer 2 (RGB)*

*COMPUTER 2 can not be selected when using the COMPUTER IN 2/ MONITOR OUT terminal as MONITOR OUT output.

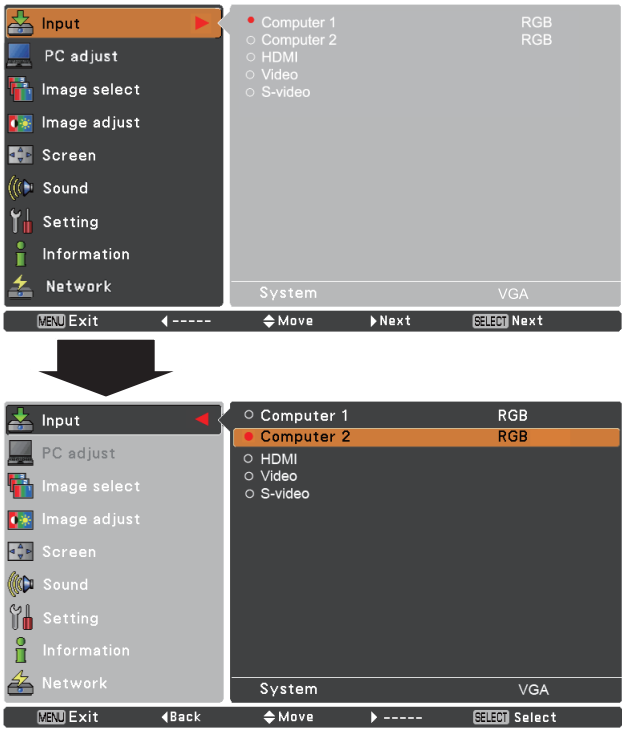
Menu Operation

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 SELECT button.

2 Use the Point ▲▼ buttons to select **Computer 2** and then press the SELECT button.

3 When **Computer 2** is selected, analog RGB input source will be selected directly.

Input Menu



✓**Note:**

When the Input Search function is set to **On 1** or **On 2** in the Auto setup function, the input signal will be searched automatically (p.45).

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 71-72.)

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.31-32)

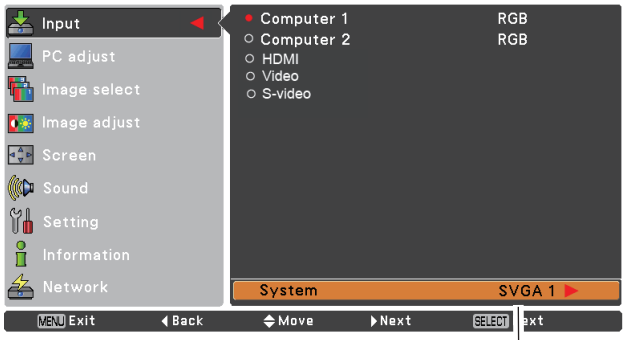
----- There is no signal input from the computer. Check the connection between your computer and the projector. (See “Troubleshooting” on page 66.)

Mode 1 The preset system is manually adjusted in the PC adjust Menu. The adjusted data can be stored in **Mode 1-10**. (pp.31-32)

SVGA 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 **SVGA 1** are examples.

PC System Menu



Selected system in the PC System Menu is displayed.

Selecting Computer System Manually

PC system can also be selected manually.

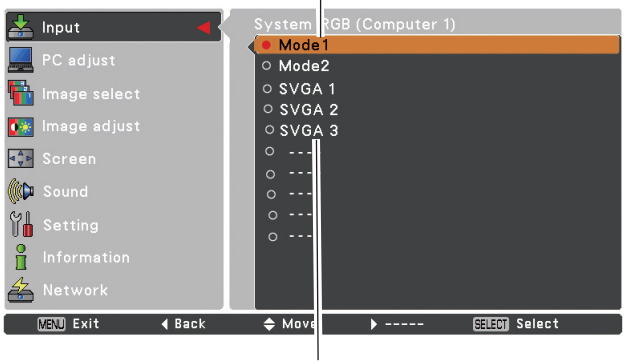
1 Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select **Input** and then press the Point ► or the SELECT button.

2 Use the Point ▲▼ buttons to select **System** and then press the Point ► or the SELECT button.

3 Use the Point ▲▼ buttons to select the desired system and then press the SELECT button.

Customized **Mode (1–10)** set in the PC adjust Menu (pp.31-32).

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** and **Vertical** positions to conform to your computer.

Menu Operation

Auto PC adj.

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 SELECT button.

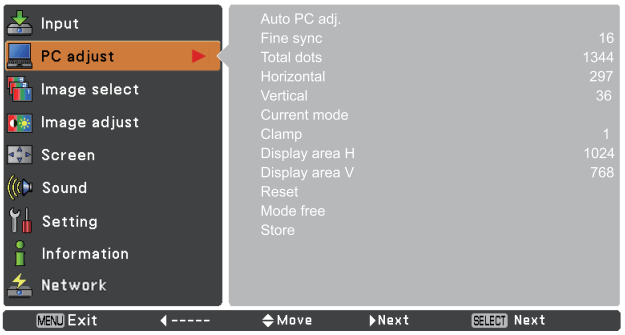
2 Use the Point ▲▼ buttons to select **Auto PC adj.** and then press the SELECT button.

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 29). See also “Store” on page 32.

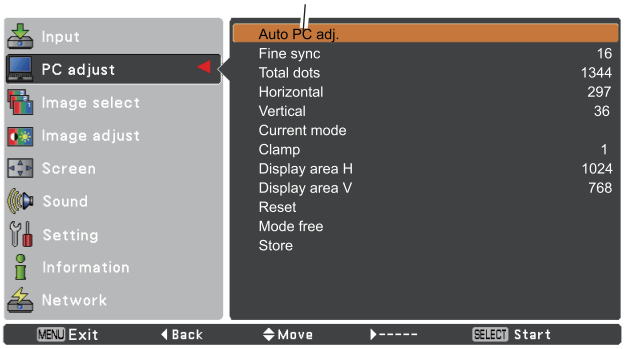
✓**Note:**

- **Fine sync**, **Total dots**, **Horizontal** 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.31-32).
- The Auto PC adjustment can not be operated when **480i**, **575i**, **480p**, **575p**, **720p**, **1035i** or **1080i** is selected in the PC System Menu (p.29) , or when the signal is coming from the HDMI terminal.

PC adjust Menu



Use Point ▲▼ buttons to select **Auto PC adj.** and press the SELECT 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 five 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 SELECT button.

2 Use the Point ▲▼ buttons to select the desired item and then press the SELECT 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

Use the Point ◄► buttons to adjust the horizontal picture position.

Vertical

Use the Point ◄► buttons to adjust the vertical picture position.

Current mode

Press the SELECT 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.

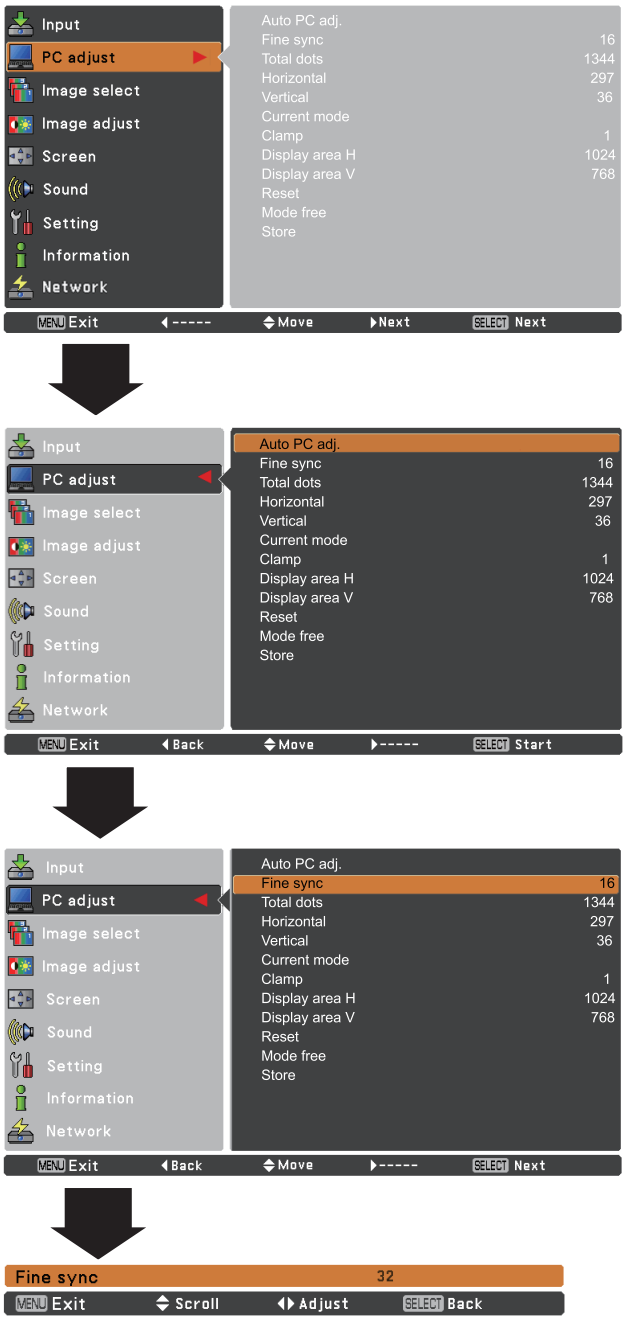
Display area H

Use the Point ◄► buttons to adjust the horizontal area displayed by this projector.

Display area V

Use the Point ◄► buttons to adjust the vertical area displayed by this projector.

PC adjust Menu



Reset

To reset the adjusted data, select **Reset** and press the SELECT 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 SELECT button. Move the highlight to the Mode that you want to clear and then press the SELECT button.

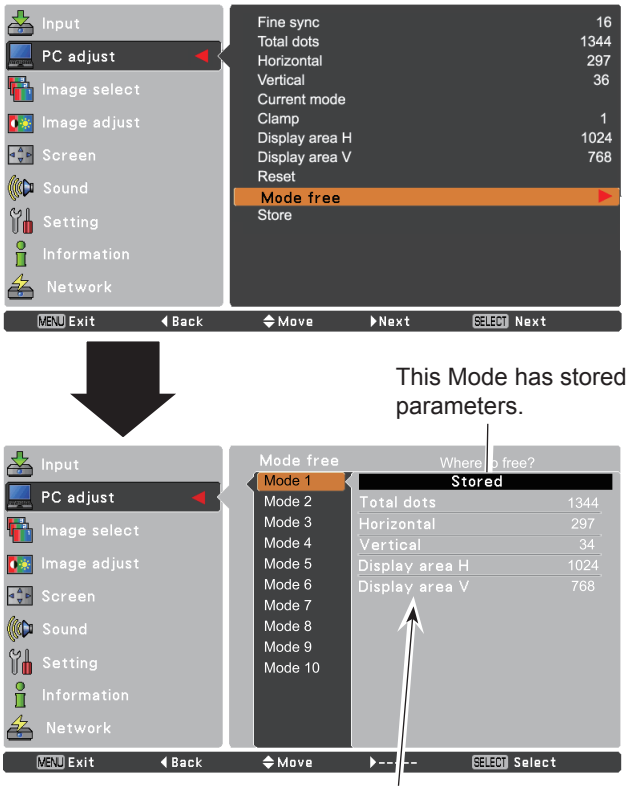
Store

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

✓**Note:**

- **Display area (H/V)** can not be selected when **480i**, **575i**, **480p**, **575p**, **720p**, **1035i**, or **1080i** is selected in the PC System Menu (p.29).
- When input computer signal to the projector, **PC adjust** will become available.

Mode free Menu



Store Menu

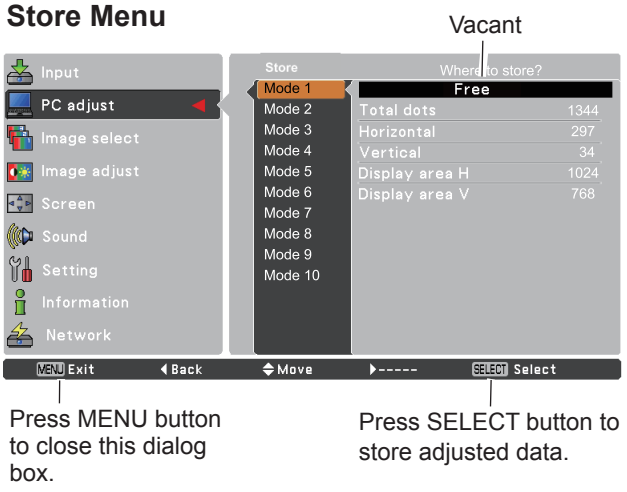
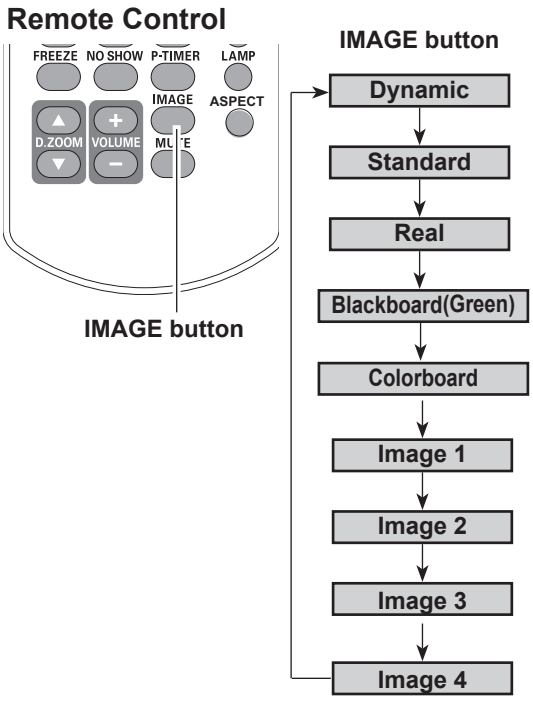


Image Mode Selection

Direct Operation

Select the desired image mode among **Dynamic**, **Standard**, **Real**, **Blackboard (Green)**, **Colorboard**, **Image 1**, **Image 2**, **Image 3**, and **Image 4** by pressing the IMAGE button on the remote control.



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 SELECT button.
2. Use the Point ▲▼ buttons to select the desired item and then press the SELECT button.

Dynamic
For viewing pictures in a bright room.

Standard
Normal picture mode preset on the projector.

Real
Picture mode with improved halftone for graphics.

Blackboard (Green)
For the image projected on a blackboard.
This mode helps enhance the image projected on a blackboard. This is mainly effective on a green colored board, not truly effective on a black colored board.

Colorboard
Press the Point ► button at **Colorboard**, and then use the Point ▲▼ buttons to switch the desired item (**Red**, **Blue**, **Yellow**, **Green**) and then press the SELECT 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 four colors.

Image 1- 4
For viewing with the user preset image mode in the Image adjust Menu (see pages 34-35).

Image Select Menu

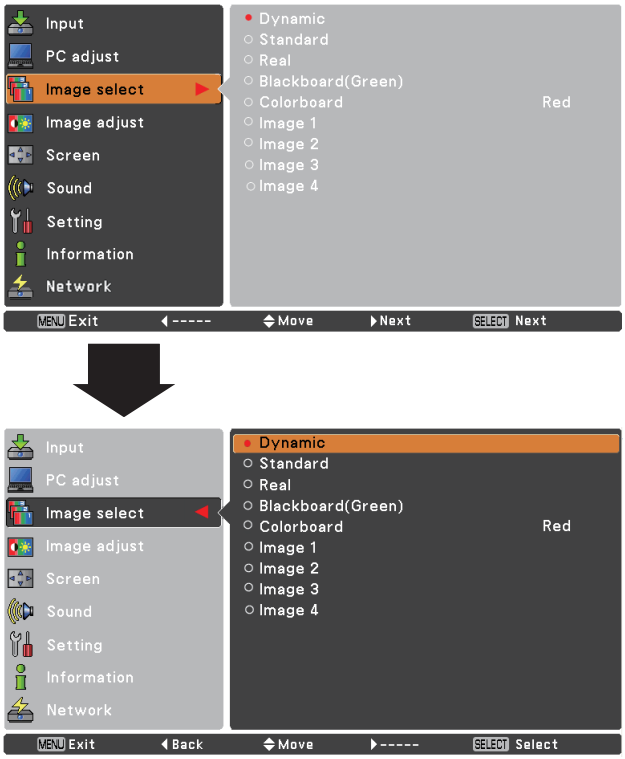
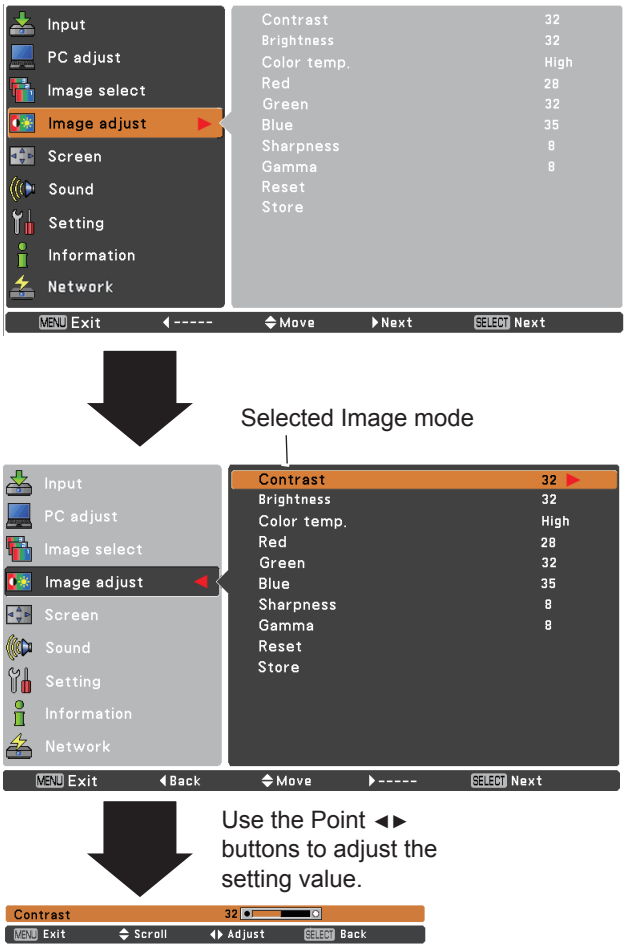


Image Adjustment

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 SELECT button.

2 Use the Point ▲▼ buttons select the desired item and then press the SELECT button to display the adjustment dialog box. Use the Point ◄► buttons to adjust the setting value.

Image adjust Menu



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)

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).

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 (from 0 to 15).

Reset

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

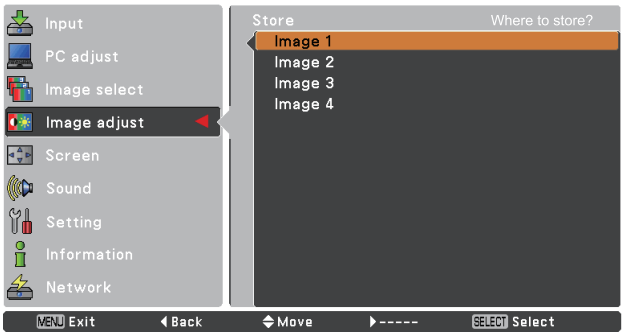
✓**Note:**

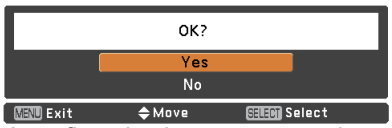
- When White balance **Red**, **Green** or **Blue** is adjusted, **Color temp.** will change to **User**.
- When **Blackboard(Green)** or **Colorboard** is selected in Image select, **Color temp.** will change to **Blackboard** or **Colorboard**.

Store

To store the adjusted data, select **Store** and press the Point ► or the SELECT button. Use the Point ▲▼ buttons to select one from **Image 1** to **4** and press the SELECT button. A confirmation box appears and then select **Yes**. Stored data can be called up by selecting an **Image (1-4)** in the Image Mode Selection on page 33.

Store Menu





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

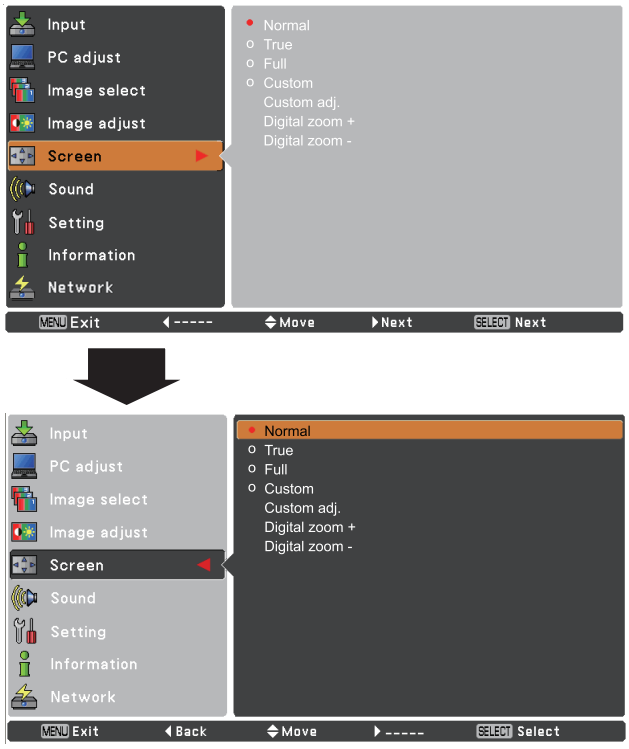
Screen Size Adjustment

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 **Screen** and then press the Point ► or the SELECT button.

2 Use the Point ▲▼ buttons select the desired item and then press the SELECT button .

Screen Menu



Normal

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

True

Provide the image in its original size. When the original image size is larger than the screen size (1280 x 800), 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.

Full

Provide the full screen image.

Custom

Provide the last stored aspect screen image.

✓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 +/-** are not available when the 4:3 or 16:9 function is selected in the Screen aspect (p.50).
- **True**, **Full**, and **Digital zoom +/–** can not be selected when **480i**, **575i**, **480p**, or **575p** is selected in the PC System Menu (p.29).

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 SELECT button at **Common** to display a confirmation box. To save the scale or position, press the SELECT button at "Yes". When **Custom** is selected, the saved scale or position is used.

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

For zooming in and out the images

Digital zoom +

Select **Digital zoom +**. The On-Screen Menu disappears and **D. zoom +** appears. Press the SELECT 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 SELECT button on the remote control.

Digital zoom -

Select **Digital zoom -**. The On-Screen Menu disappears and **D. zoom -** appears. Press the SELECT button to compress image size.
The projected image can be also compressed by pressing the D.ZOOM ▼ or the SELECT button on the remote control.

To exit the Digital zoom +/– mode, press any button except the D.ZOOM ▲▼ and the SELECT 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 27-28) again, or adjust the screen size with the D.ZOOM ▲▼ buttons.

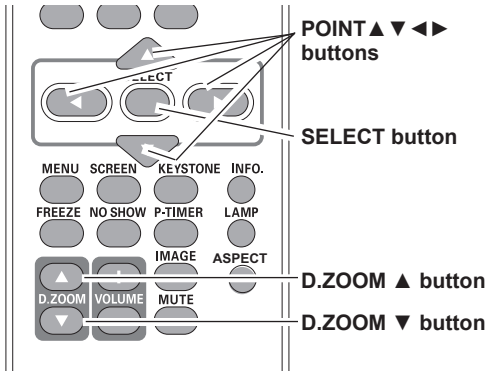
Custom adj. Menu



✓**Note:**

- When no signal is detected, **Normal** is set automatically and **Custom adj.** can not 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.

Remote Control



✓**Note:**

- The panning function may not operate properly if the stored Mode in the PC adjust Menu is used (p.32).
- 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**, **Full**, and **Digital zoom +/–** can not be selected when **480i**, **575i**, **480p**, or **575p** is selected in the PC System Menu (p.29).
- **Digital zoom +/-** can not be selected when **Full** or **True** or **4:3** or **16:9** is selected in the Screen aspect. (p.50)

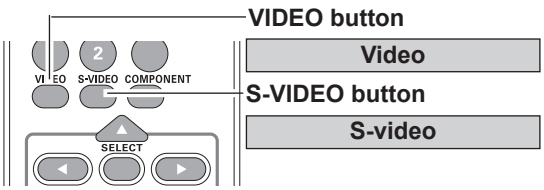
Input Source Selection (Video, S-video)

Direct Operation

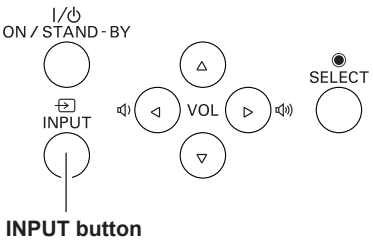
Choose **Video** or **S-video** by pressing the VIDEO button or the S-VIDEO button on the remote control or press the INPUT button on the top control.

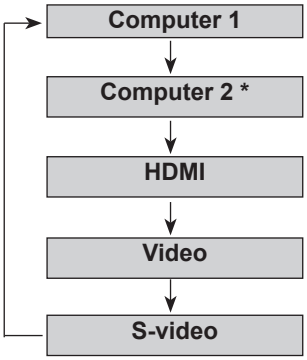
Before using these buttons, correct input source should be selected through Menu operation as described below.

Remote Control



Top Control





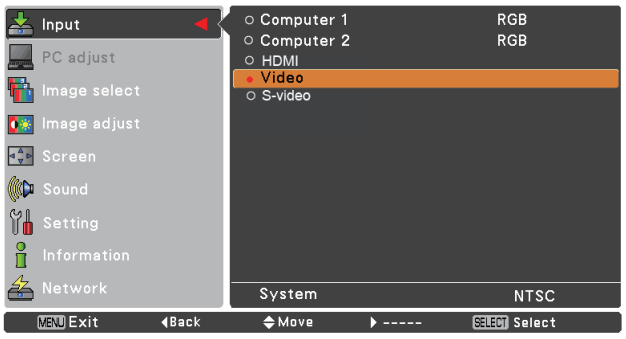
*COMPUTER 2 can not be selected when using the COMPUTER IN 2/ MONITOR OUT terminal as MONITOR OUT output.

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 SELECT button.

2 Use the Point ▲▼ buttons to select either **Video** or **S-video** and then press the SELECT button.

Input Menu



Video When video input signal is connected to the VIDEO jack, select Video.

S-video When video input signal is connected to the S-VIDEO jack, select S-video.

✓**Note:**

When the Input Search function is set to **On 1** or **On 2** in the Auto setup function, the input signal will be searched automatically (p.45).

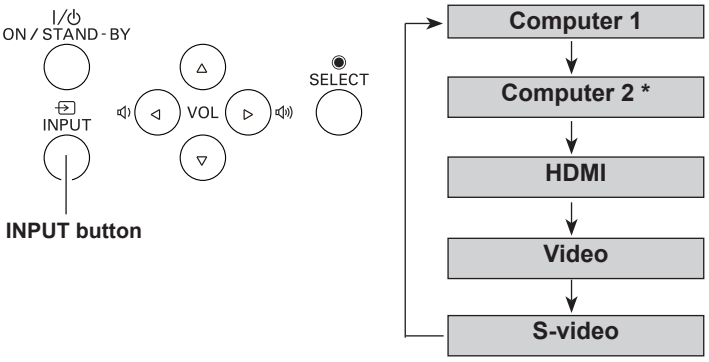
Input Source Selection (Component, RGB Scart 21-pin, HDMI)

Direct Operation

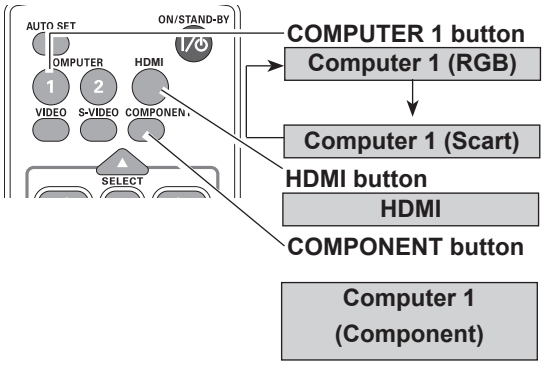
Choose **Computer 1(Component)** or **Computer 1(Scart)** by pressing the the COMPONENT or COMPUTER 1 button on the remote control or press the INPUT button on the top control; choose **HDMI** by pressing the HDMI button on the remote control or press the INPUT button on the top control.

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

Top Control



Remote Control



*COMPUTER 2 can not be selected when using the COMPUTER IN 2/ MONITOR OUT terminal as MONITOR OUT output.

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 SELECT button.

2 Use the Point ▲▼ buttons to select **Computer 1** and then press the Point ► button; use the Point ▲▼ buttons to select **Component** or **RGB(Scart)** and then press the SELECT button.

OR

Use the Point ▲▼ buttons to select **HDMI**, and then press the SELECT 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**.

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

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

✓**Note:**

When the Input Search function is set to **On 1** or **On 2** in the Auto setup function, the input signal will be searched automatically (p.45).

Video System Selection

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 SELECT button.

2 Use the Point ▲▼ buttons to select **Video** or **S-video** or **Computer 1(Component)** and then press the SELECT button.

3 Use the Point ▲▼ buttons to select **System** and then press the Point ► or the SELECT button. Use the Point ▲▼ buttons to select the desired system and then press the SELECT button.

Video or S-video

Auto

The projector automatically detects an incoming video system, and adjusts itself to optimize its performance. When Video System is **PAL-M** or **PAL-N**, select the system manually.

PAL/SECAM/NTSC/NTSC4.43/PAL-M/PAL-N

If the projector can not reproduce proper video image, select a specific broadcast signal format from among **PAL**, **SECAM**, **NTSC**, **NTSC 4.43**, **PAL-M**, and **PAL-N**.

AV System Menu (Video or S-video)



Component

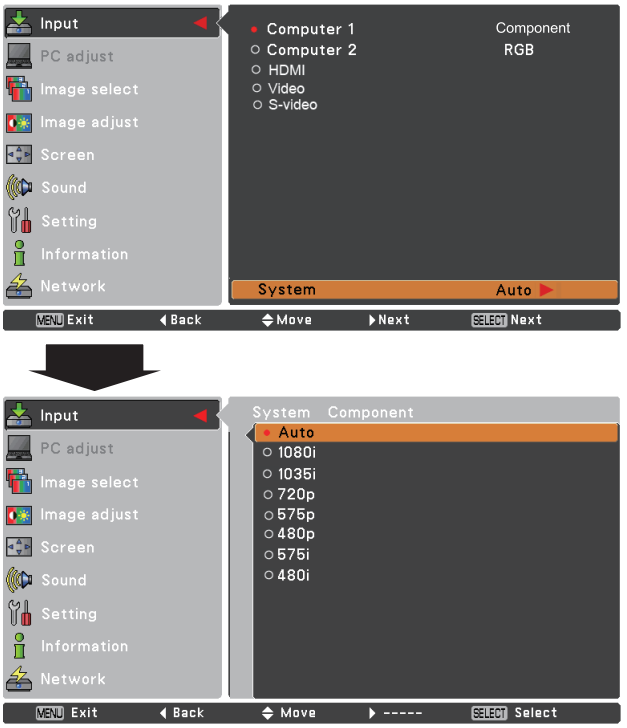
Auto

The projector automatically detects an incoming video signal, and adjusts itself to optimize its performance.

COMPONENT VIDEO SIGNAL FORMAT

If the projector can not reproduce proper video image, select a specific component video signal format from among **480i**, **575i**, **480p**, **575p**, **720p**, **1035i**, and **1080i**.

AV System Menu (Component)



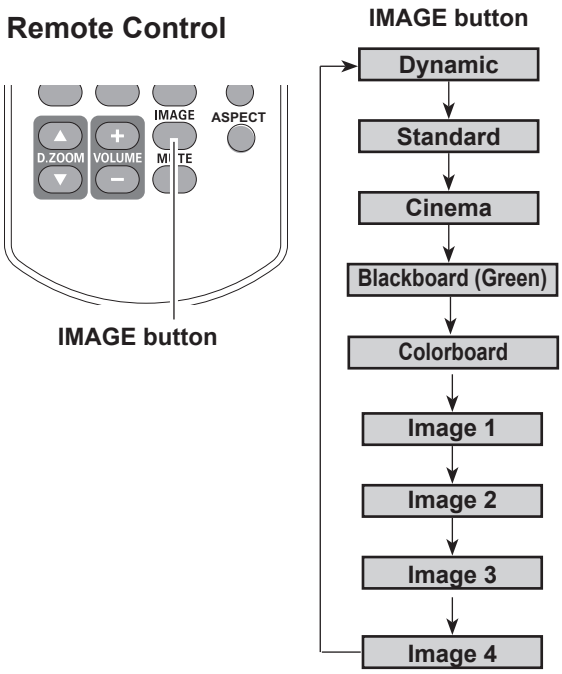
✓**Note:**

The AV System Menu can not be selected when selecting **RGB (Scart)** or **HDMI**.

Image Mode Selection

Direct Operation

Select the desired image mode from among **Dynamic**, **Standard**, **Cinema**, **Blackboard (Green)**, **Colorboard**, **Image 1**, **Image 2**, **Image 3**, and **Image 4** by pressing the IMAGE button on the remote control.



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 SELECT button.

2 Use the Point ▲▼ buttons to select the desired item and then press the SELECT button.

Dynamic
For viewing pictures in a bright room.

Standard
Normal picture mode preset on the projector.

Cinema
Picture mode adjusted with fine tone.

Blackboard (Green)
For the image projected on a blackboard.
This mode helps enhance the image projected on a blackboard. This is mainly effective on a green colored board, not truly effective on a black colored board.

Colorboard
Press the Point ► button at **Colorboard**, and then use the Point ▲▼ buttons to switch the desired item (Red, Blue, Yellow, Green) and then press the SELECT 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 four colors.

Image 1-4
For viewing with the user preset image mode in the Image adjust Menu (see pages 41-42).

Image select Menu

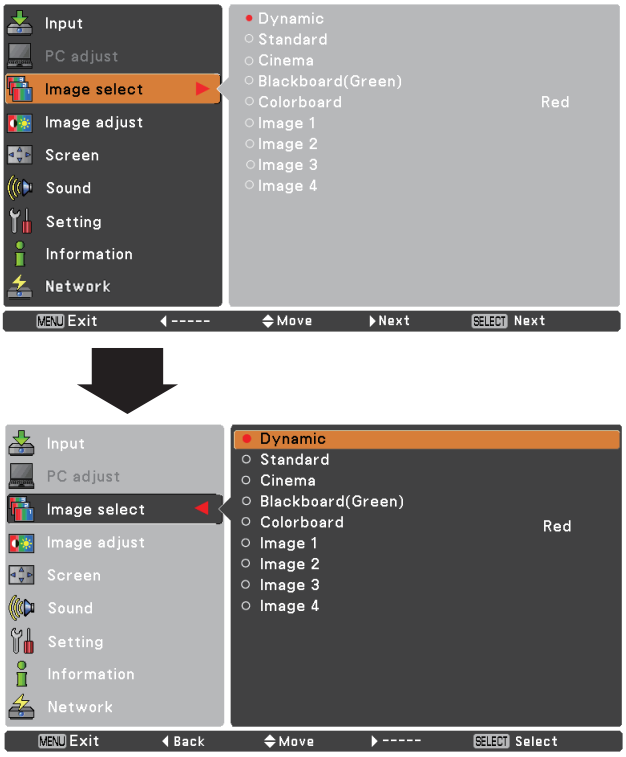


Image Adjustment

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 SELECT button.

2 Use the Point ▲▼ buttons select the desired item and then press the SELECT 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).

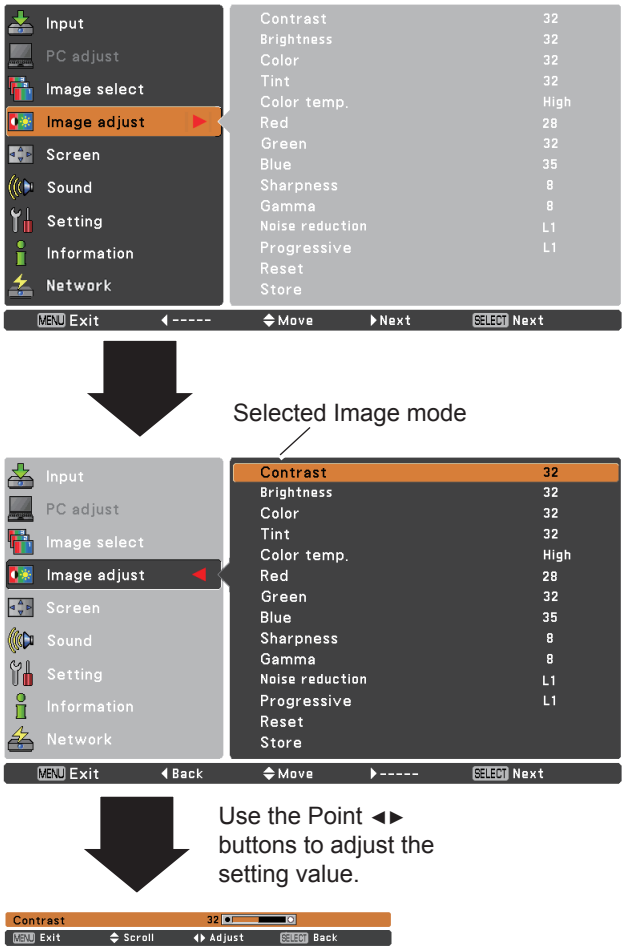
White balance (Green)

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).

Image adjust Menu



✓**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** (p.39).
- When **Blackboard (Green)** or **Colorboard** is selected in Image select Menu, **Color temp.** will change to **Blackboard** or **Colorboard**.

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 (from 0 to 15).

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 SELECT button. A confirmation box appears and then select **Yes**. All adjustments will return to their previous figures.

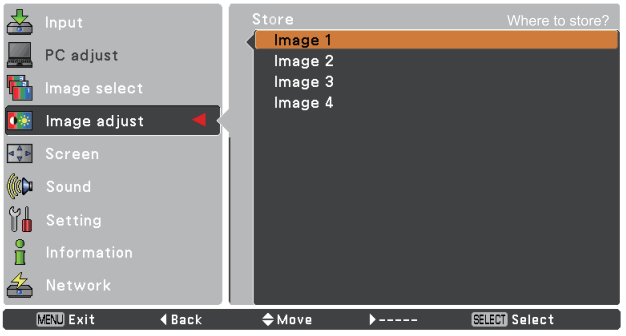
Store

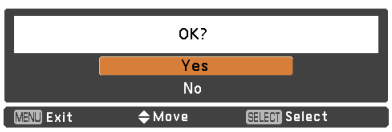
To store the adjusted data, select **Store** and press the Point ► button or the SELECT button. Use the Point ▲▼ buttons to select one from Image 1 to 4 and press the SELECT button.
A confirmation box appears and then select **Yes**. Stored data can be called up by selecting an Image (1-4) in the Image Mode Selection on page 40.

✓**Note:**

Noise reduction and **Progressive** can not be selected when **480p**, **575p**, **720p**, **1035i** or **1080i** is selected (p.39), or Video delay control function is set to **On** in Setting menu (p.57).

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 **Screen** and then press the Point ► or the SELECT button.

2 Use the Point ▲▼ buttons select the desired item and then press the SELECT 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.

Wide
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 SELECT button at **Common** to display a confirmation box. To save the scale or position, press the SELECT button at "Yes", When **Custom** is selected, the saved scale or position is used.
Reset..... Reset the all adjusted values. Press the SELECT button at **Reset** to display a confirmation box. To reset, press the SELECT button at "Yes".

Screen Menu



✓**Note:**

- When no signal is detected, **Normal** is set automatically and the Aspect adjustment menu disappears.
- The adjustable range for **Scale H/V** and **Position H/V** is limited depending on the input signal.
- **Zoom**, **Natural wide** and **Wide** can not be operated when **720p**, **1035i**, or **1080i** is selected in the AV System Menu (p.39).
- **Zoom**, **Natural wide** and **Wide** are not available when the **4:3** or **16:9** is selected in the Screen aspect (p.50).

Setting

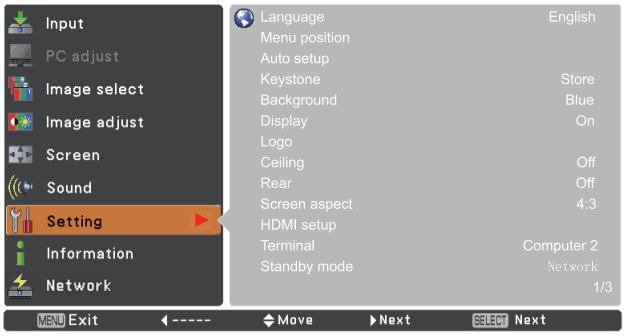
This projector has a Setting Menu that allows you to set up the other various functions described below.

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 SELECT button to access the submenu items.

2 Use the Point ▲▼ buttons to select the desired item and then press the Point ► or the SELECT buttons to access the selected item.

3 Use the Point ▲▼ buttons select the desired item and then press the SELECT button.

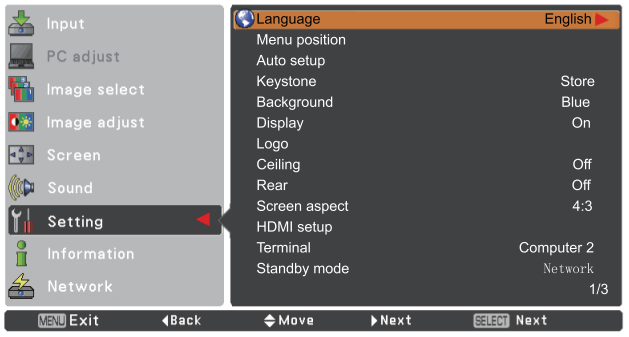
Setting Menu



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, Kazak, Simplified Chinese, Traditional Chinese, Korean, and Japanese.

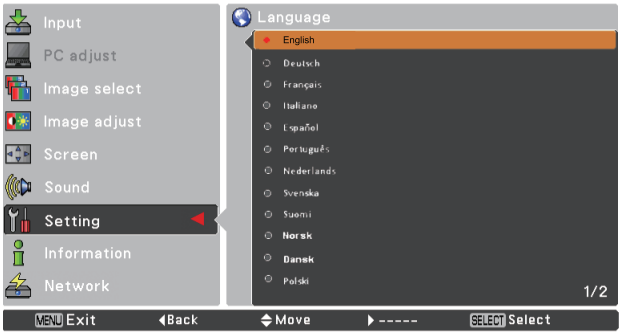
Language Menu



Menu position

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

The Menu position changes each time you press the SELECT button as follows.
the top left → the top right → the center → the bottom left →the bottom right → the top left →.....



Auto setup

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

Input search

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 ..... Input search does not work.

On 1..... Input search works under the following situation.
- –When pressing the AUTO SET button on the remote control.

On 2..... Input search works under the following situation.
- –When turning on the projector by pressing the ON/STAND-BY button.
- –When pressing the AUTO SET button on the remote control.
- – When the current input signal is cut off.*

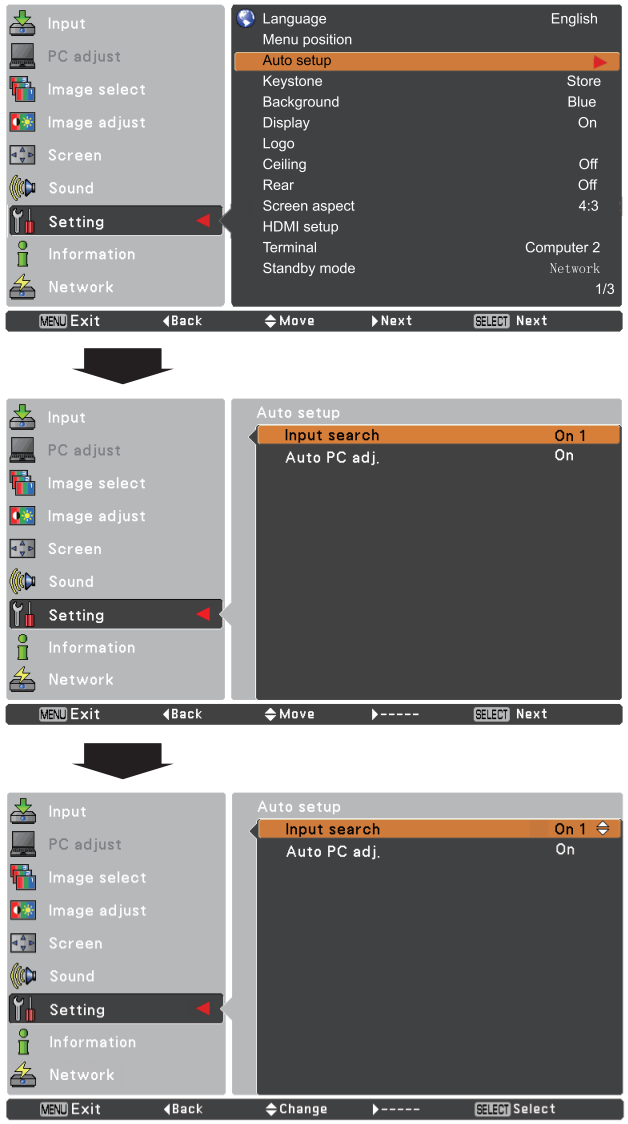
* If the No show or Freeze function is active, cancel it to activate the Input search. It is also unavailable when On-Screen Menu is displayed.

Auto PC adj.

On. . . . . .Enables Auto PC adjustment when pressing the AUTO SET button on the remote control.

Off . . . . . .Disables Auto PC adjustment.

Auto setup



✓**Note:**

- While Input search 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 control is pressed during Input search is in progress, Input search will stop and go back to the previous input signal.
- Auto PC adj. and Input search functions can not be set **Off** at the same time.
- **Fine sync**, **Total dots**, **Horizontal** and **Vertical** positions 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.31-32).

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 SELECT button. Keystone appears on the screen. Use the Point ▲▼ buttons to correct keystone distortion (p.23).

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.

Keystone



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.20)
- **No signal** for Power management. (p.51)
- **Please wait ...**
- Arrows for the True mode in the Screen Menu (p.35)
- **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:**

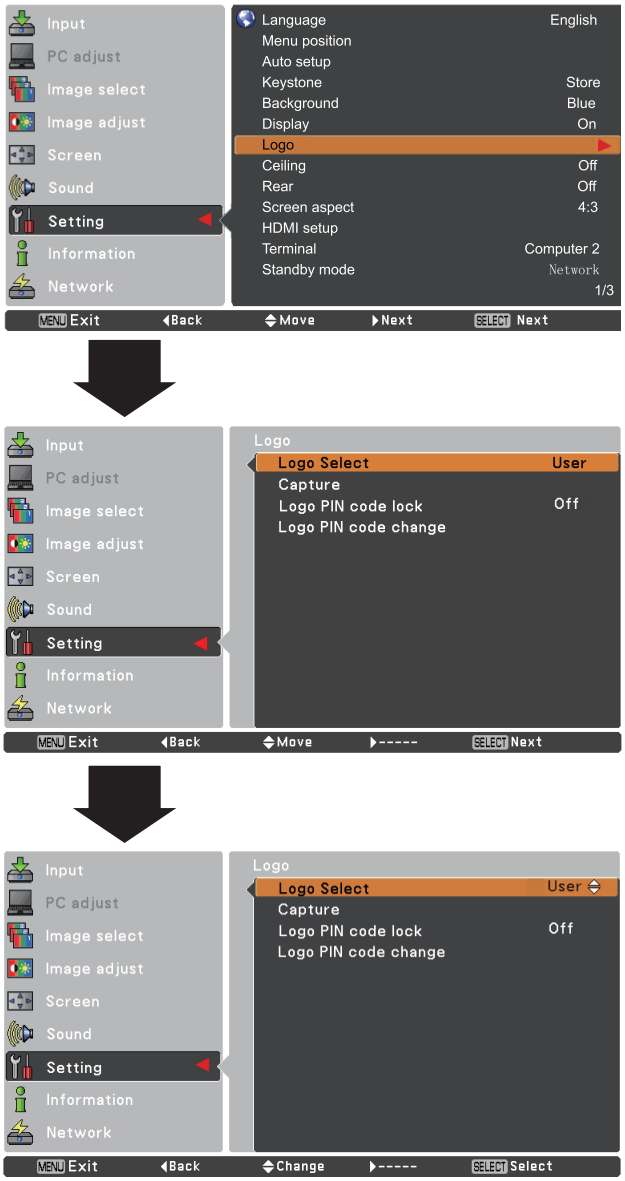
When **On** is selected in the Logo PIN code lock function, Logo select and Capture functions can not be selected.

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

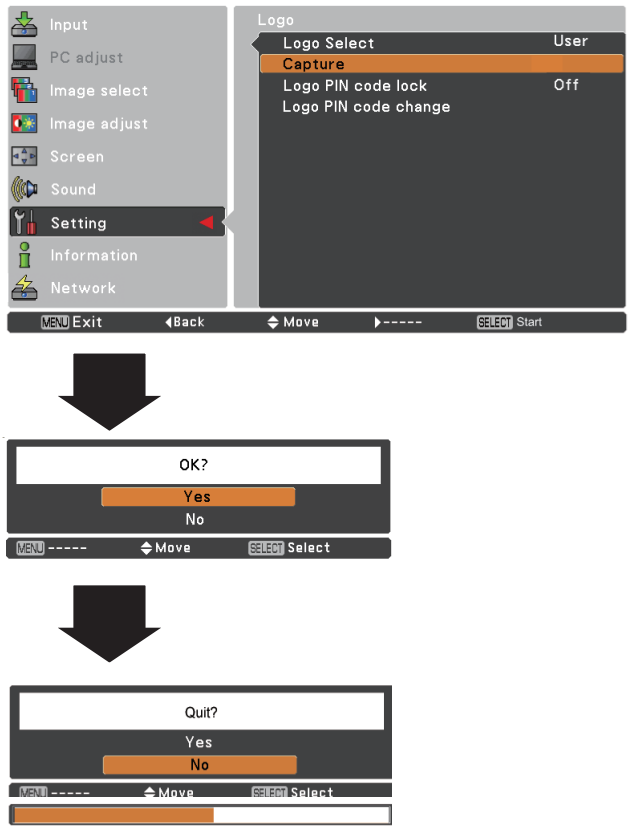
After capturing the projected image, go to the Logo select function and set it to **User**. Then the captured image will be displayed the next time you turn on the projector.

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 (pp.33, 40).
- A signal from a computer can be captured up to WXGA (1280 x 800). A signal from video equipment can be captured except for **720p**, **1035i**, and **1080i**.
- 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**.

Capture



Logo PIN code lock

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

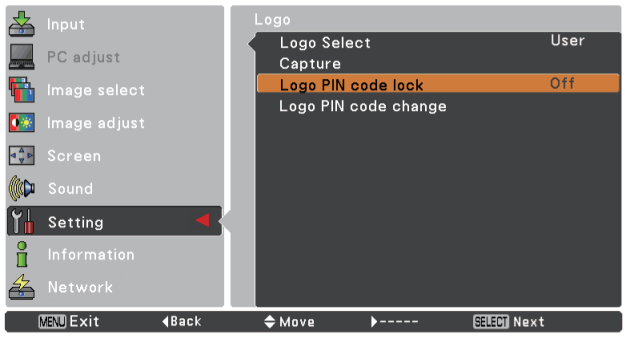
Off ..... The screen logo can be changed freely from the Logo Menu (p.47).
On ..... The screen logo can not be changed without a Logo PIN code.

If you want to change the Logo PIN code lock setting, press the SELECT 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.

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 SELECT 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 SELECT button to make a choice.

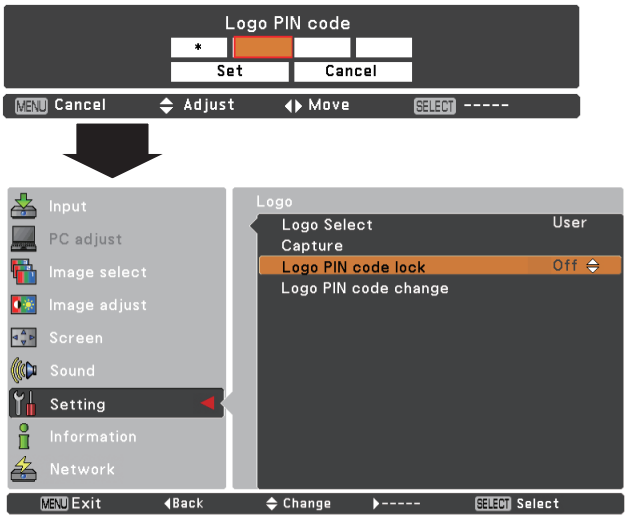
Logo PIN code change

Logo PIN code can be changed to your desired four-digit number. Press the SELECT 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 IN COLUMN OF THE LOGO PIN CODE NO. MEMO ON PAGE 76, AND KEEP IT SECURELY. SHOULD THE LOGO PIN CODE BE LOST OR FORGOTTEN, THE LOGO PIN CODE SETTING CAN NO LONGER BE CHANGED.

Enter a Logo PIN code



Logo PIN code change



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.
16:10 ....16:10 is the aspect of the LCD panel. The orignal Screen Menu is available.

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.

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

The names for the output setting of Digital RGB vary from equipment to equipment. For details, refer to the owner'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.

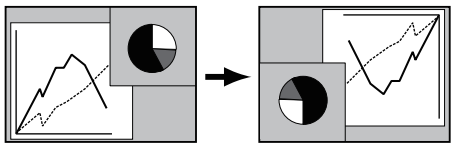
Terminal

The COMPUTER IN 2/MONITOR OUT terminal on the back of the projector is switchable for computer input or monitor output (p.9).

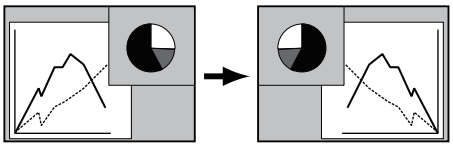
Computer 2..... Computer input
Monitor Out..... Monitor out

Terminal function is not available when **Computer 2** is selected to the input source. Change the input source to the others (**Computer 1**, **Video** or **HDMI**) so that the Terminal function is available (pp.27-28, 37-38).

Ceiling



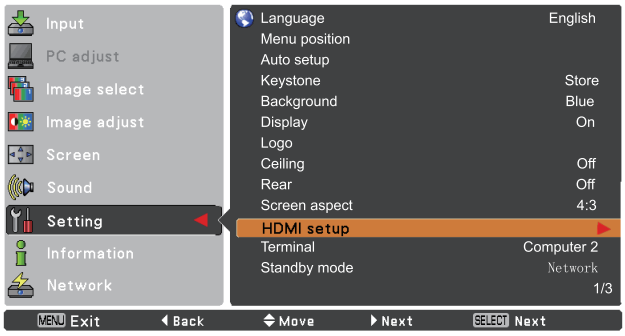
Rear

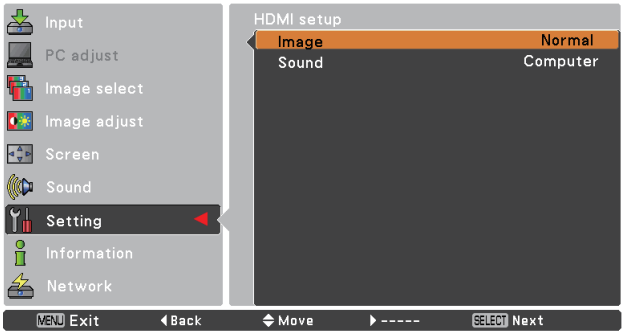


✓Note:

- When **4:3** or **16:9** is selected, **True** and **Digital zoom +/-** are not available in the PC screen (pp.35-36).
- When **4:3** or **16:9** is selected, **Zoom**, **Natural wide** and **Wide** are not available in the AV screen (p.43).

HDMI setup





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 owner's manual of "Network Set-up and Operation".

✓**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

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

Select one of the following options:

Ready ..... 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 control is pressed.

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

Off ..... Power management 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).

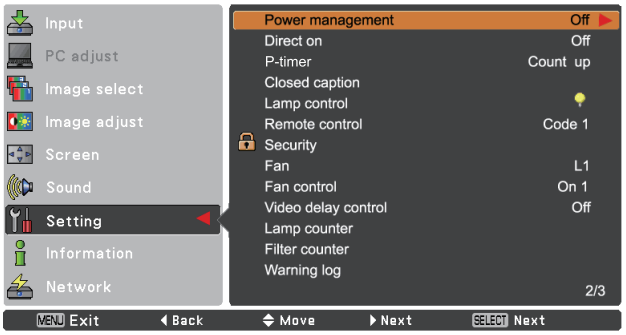
✓**Note:**

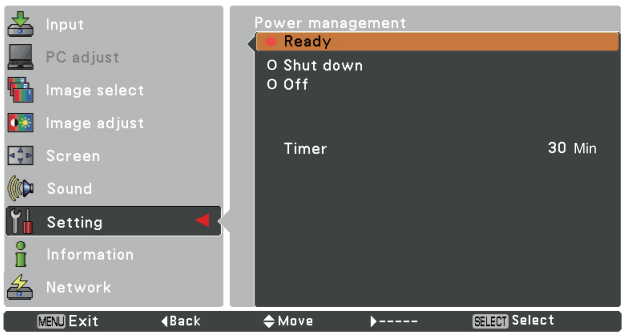
Factory default is **Ready: 5 Min**.

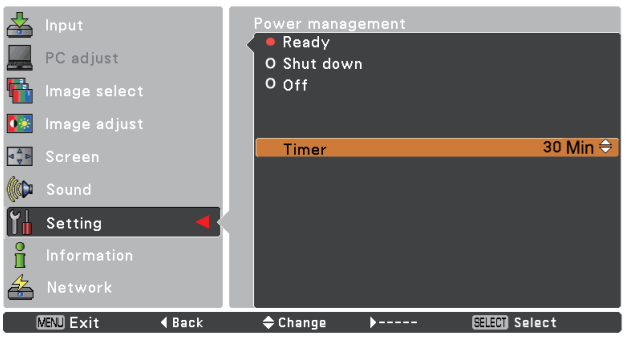
Power management



Timer left before Lamp is **off**.







Direct 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 20). If the projector is turned off in the incorrect sequence, the Direct on function does not work properly.

P-timer

This function allows you to change the presentation of the P-timer and execute it.

Select one of the following options:

Count up ..... The P-timer display **000:00** appears on the screen and the count starts (**000:00-180:00**)

Count down..... The time set in the Timer setting appears on the screen and the countdown starts.

Timer..... Use the Point ▲▼ buttons to set the Timer (**1-180 Min**). Only set to **Count down**, **Timer** is active. Factory default value is **10 Min**.

Start ..... It executes the count up or count down function. Press the SELECT button at **Start** and the indication changes into **Stop**. To stop **Count up** or **Count down**, press the SELECT button at **Stop** on the screen menu, then the indication changes into **Restart**.

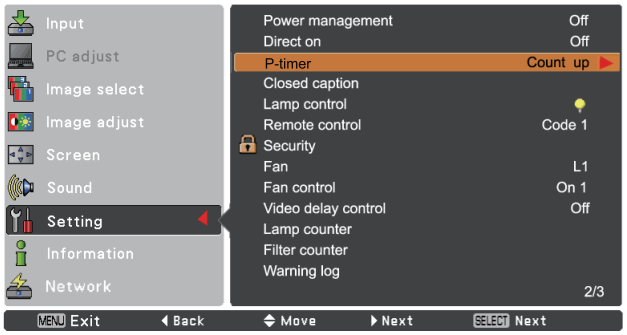
Reset ..... Reset the P-timer values.
Press the SELECT button at **Reset** to return to the following value;
Count up ... "000:00"
Count down ... Timer that you set

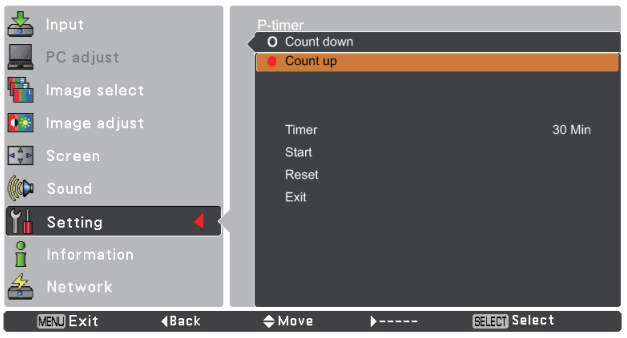
Exit..... To exit the P-timer operation.

Stop or Cancel the P-timer via Remote Control

To stop the P-timer, press the P-TIMER button.
To cancel the P-timer, press and hold the P-TIMER button for a few seconds.

P-timer







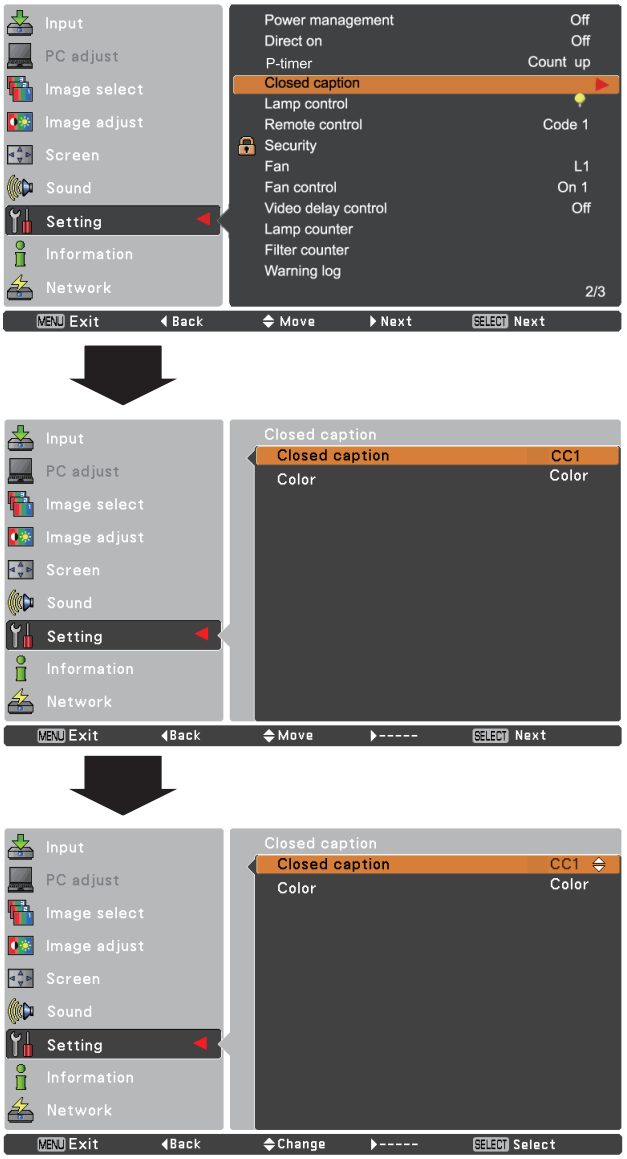
Closed caption

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.

- When the input signal is **NTSC** of composite and S-video, and the system is set according to the signal or set on **Auto**.
- The system must be set on **NTSC** or **Auto** in Video System Selection. (p.39)
- The item of Closed caption is displayed in gray while it is not available.
- **Closed caption** is unavailable when On-Screen Menu and P-timer are displayed.

Closed caption



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

Lamp control

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.

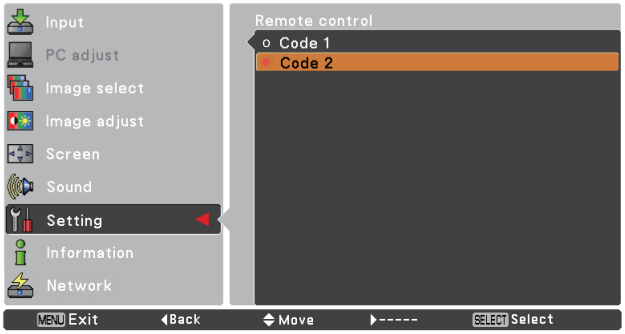
Remote control

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

Remote control



✓**Note:**

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

Security (Key lock and PIN code lock)

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

Key lock

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

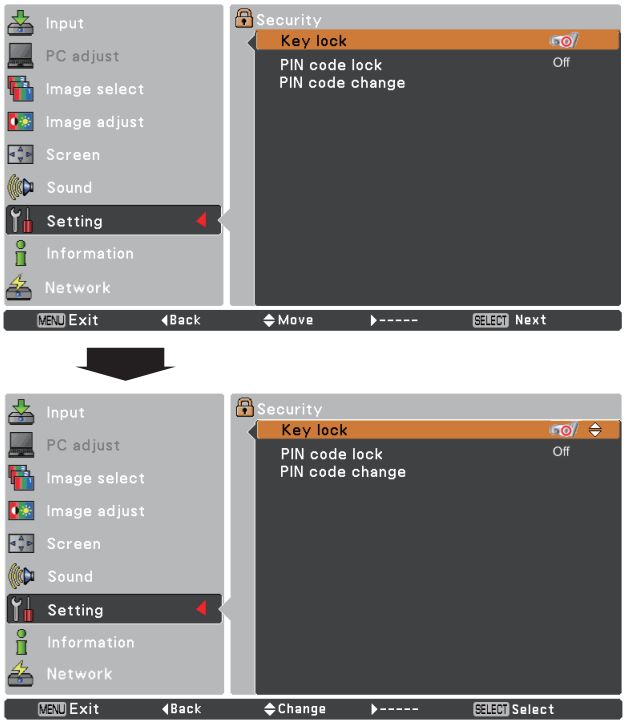
. . . . . Unlocked.

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

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

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

Key lock



PIN code lock

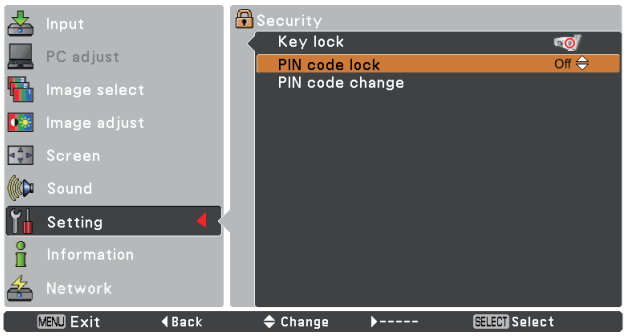
This function prevents the projector from being operated by unauthorized persons and provides the following setting options for security.

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 SELECT button and the PIN code dialog box appears.

PIN code lock



Enter a PIN code

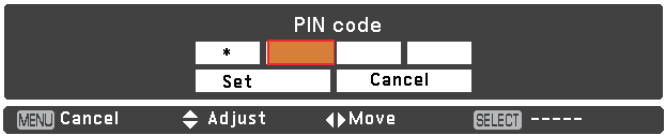
Use the Point ▲▼ buttons to enter a number. Press the Point ► button to fix the number and move the red frame pointer to the next box. The number changes to∗. If you fixed an incorrect number, use the Point ◄ button to move the pointer to the number you want to correct, and then enter the correct number.

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

After entering the four-digit number, move the pointer to **Set**. Press the SELECT 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.

Enter a PIN code



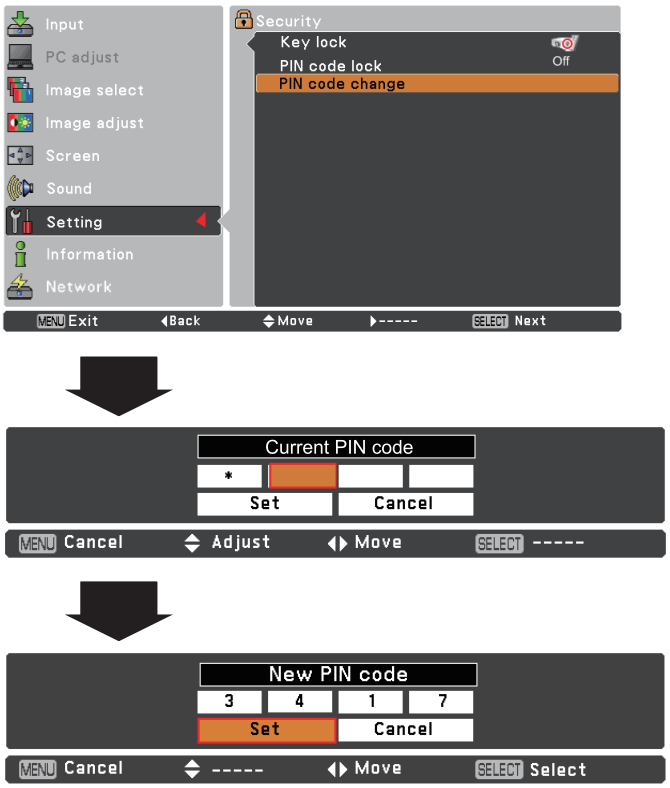
Change the PIN code lock setting

Use the Point ▲▼ buttons to select **Off**, **On 1** or **On 2**. Press the SELECT 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 SELECT 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.

Change the PIN code



CAUTION:
WHEN YOU HAVE CHANGED THE PIN CODE, WRITE DOWN THE NEW PIN CODE IN COLUMN OF THE PIN CODE NO. MEMO ON PAGE 76, AND KEEP IT SECURELY. IF YOU FORGET YOUR PIN CODE, THE PROJECTOR CAN NO LONGER BE STARTED.

Fan

This function provides the following options in the cooling fans' operation when the projector is turned off (p.20).

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 1,200 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.

✓**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.

Video delay control

When you want to make a digital processing of a projected image faster, set this function.
Use the Point ▲▼ buttons, select an item of **Off** or **On**.

✓**Note:**

Noise reduction and **Progressive** can not be selected when Video delay control function is set to **On**.

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 64.

✓**Note:**

The Lamp replacement icon (Fig.1) will not appear when the Display function is set to **Off** (p.46), or **Freeze** (p.25), or **No show** (p.26).

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 replacing.

When the projector reached a specified time between replacing, a Filter warning icon appears on the screen, notifying the replacing is necessary. After replacing the filter, be sure to select **Filter counter reset** and set 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 61.

Fig.1 Filter warning icon



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

✓**Note:**

This icon also appears at turning on.

✓**Note:**

The Filter warning icon (Fig.1) will not appear when the Display function is set to **Off** (p.46), or **Freeze** (p.25), or **No show** (p.26).

Warning log

This function records anomalous operations while the projector is in operation and use it when diagnosing faults. Up to 10 warning logs are displayed with the latest warning message at the top of the list, followed by previous warning messages in chronological order.

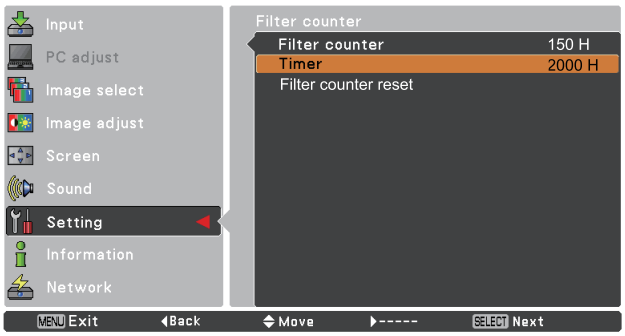
✓**Note:**

When the Factory default function is executed, all the warning log records will be deleted.

Factory default

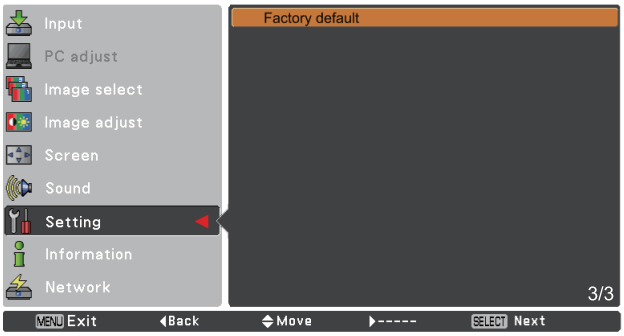
This function returns all setting values except for the **User logo**, **PIN code lock**, **Logo PIN code lock**, **Lamp counter** and **Filter counter** to the factory default settings.

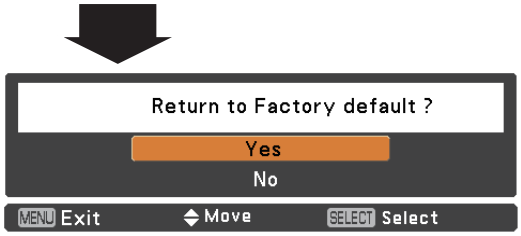
Filter counter

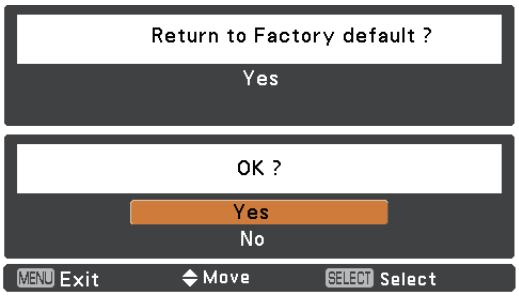


Press the SELECT button to select Timer, and then use the Point ▲▼ buttons to set the timer. Select from (**Off**/ **2000H**/ **3000H**/ **4000H**) depending on the use environment.

Factory default







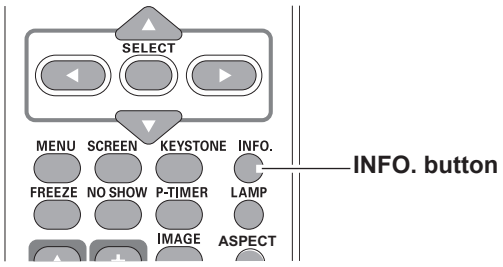
Input Source Information Display

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

Direct Operation

Press the INFO. button on the remote control to display the Information Menu.

Remote Control

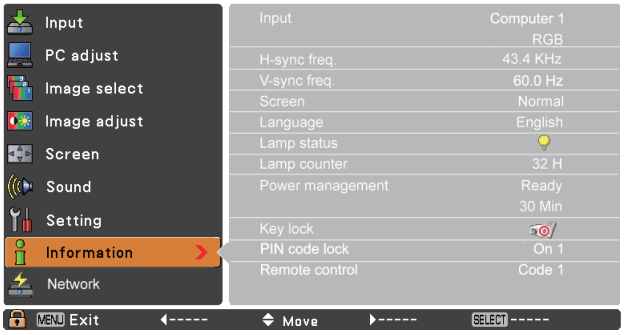


Menu Operation

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

See below for displayed information.

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
Off, **Ready**, **Shut down** 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.

WARNING indicator

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

The projector is shut down and the WARNING 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 ON/STAND-BY button.

Top Panel



WARNING blinking red

✓**Note:**

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

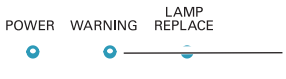
Then check the matters below:

– 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 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 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 indicator still lights red, unplug the AC power cord and contact the service center.

Top Panel



WARNING emit a red light

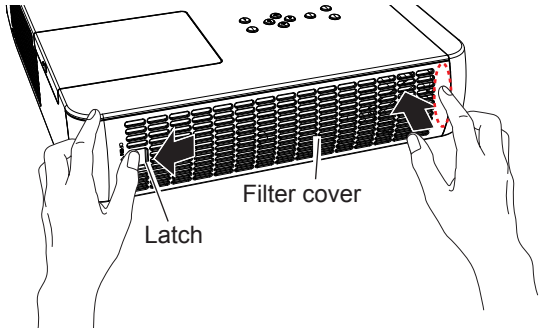
CAUTION

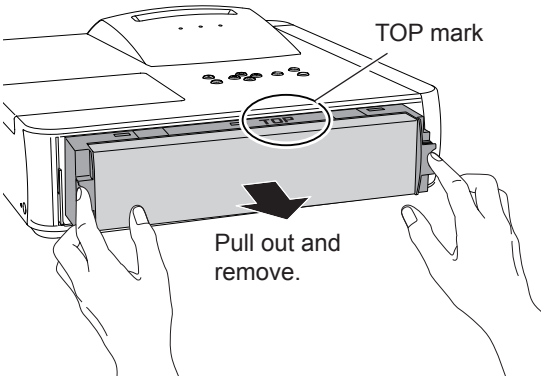
DO NOT LEAVE THE PROJECTOR WITH THE AC POWER CORD CONNECTED UNDER AN ABNORMAL CONDITION. IT MAY RESULT IN FIRE OR ELECTRIC SHOCK.

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. Press and hold any part of the red circle, and then press ◄ leftwards on the filter cover to release the latch and open the filter cover.
4. Pull out the filter. When taking out the filter, put your fingers on the filter tab and then pull.
5. Insert the new filter completely and replace the filter cover. Ensure that the area with "TOP" mark is in an upward direction.
6. Connect the AC power cord to the projector and turn on the projector.
7. 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.

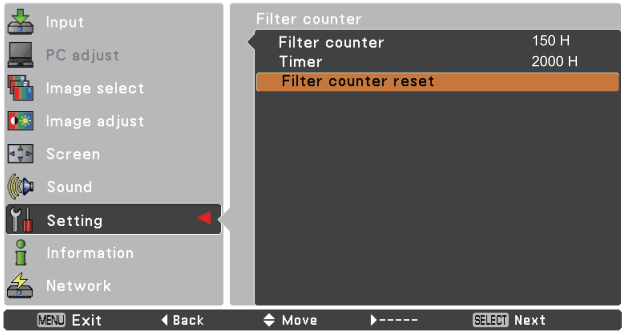
Do not wash the filter with water or any other liquid matter. Otherwise the filter may be damaged.

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, LCD panels, 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.

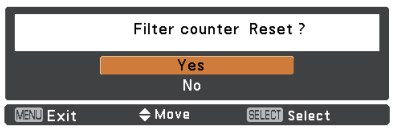
Filter counter



Resetting the Filter Counter

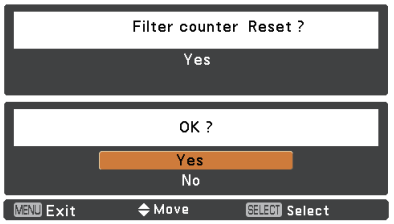
Be sure to reset the Filter counter after replacing the Filter .

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 SELECT button.
2. Use the Point ▲▼ buttons to select **Filter counter** and then press the SELECT button. Use the Point ▲▼ buttons to select **Filter counter reset** and then press the SELECT 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.

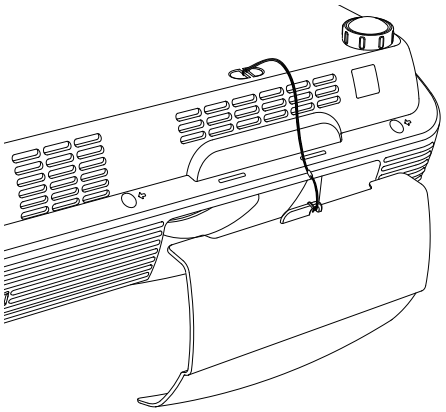


Select **Yes** again to reset the Filter counter.

Attaching the Lens Cover

When moving the projector or while it is not in use, replace the lens cover.

1. Thread the string through the hole on the lens cover and then tie a knot in the string to secure it in place.
2. To pass the other end of the string into the hole on the top of the projector and pull at it.

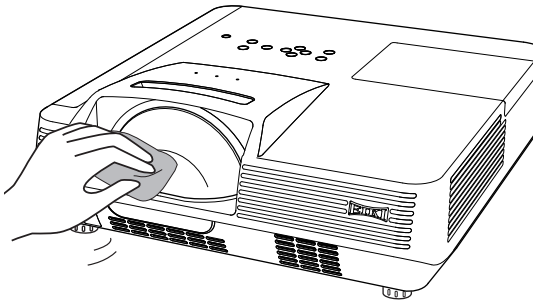


Cleaning the Projection Lens

Unplug the AC power cord before cleaning.

Gently wipe the projection lens with a cleaning cloth that contains a small amount of non-abrasive camera lens cleaner, or use a lens cleaning paper or commercially available air blower to clean the lens.

Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents, or other harsh chemicals might scratch the surface of the lens.

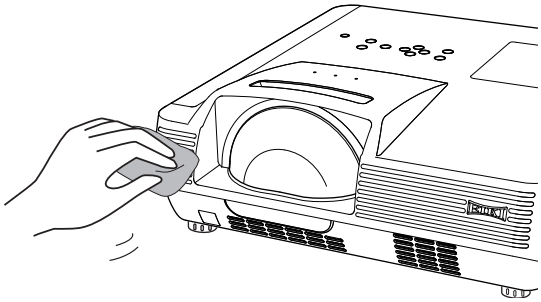


Cleaning the Projector Cabinet

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.

WARNING:
TURN OFF THE UV LAMP BEFORE OPENING THE LAMP COVER

Top Panel



This indicator turns yellow when the projection lamp reaches the end of its life.

Lamp replacement icon



✓**Note:**

The Lamp replacement icon (Fig.1) will not appear when the Display function is set to **Off** (p.46), during **Freeze**(p.25), or **No show** (p.26).

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.

CAUTION

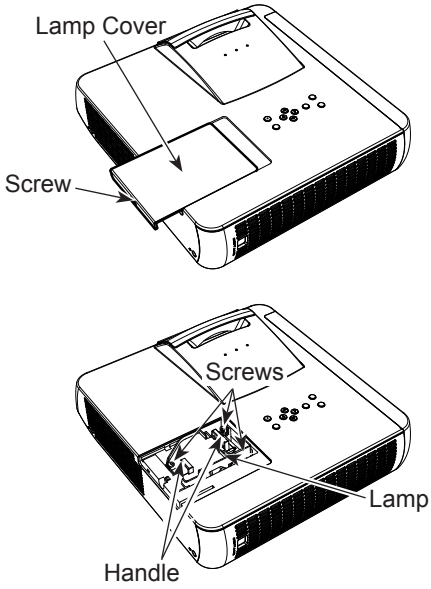
Allow a projector to cool for at least 45 minutes before you open the Lamp Cover. The inside of the projector can become very hot.

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.

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 45 minutes.
2. Loosen the screw and open the lamp cover.
3. Loosen the three (3) 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 three (3) 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 : LC-WS250**
- **Replacement Lamp Type No. : POA-LMP141**
  (Service Parts No. 610 349 0847)

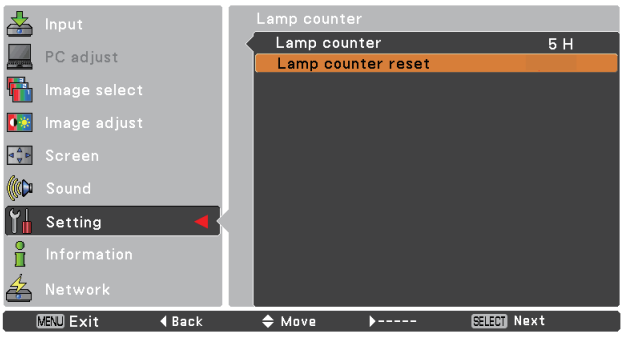
Resetting the Lamp Counter

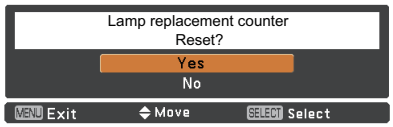
Be sure to reset the Lamp counter after the lamp is replaced. When the Lamp counter is reset, the LAMP REPLACE indicator stops lighting and the Lamp replacement icon disappears.

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 SELECT button.

2 Use the Point ▲▼ buttons to select **Lamp counter** and then press the SELECT button. Use the Point ▲▼ buttons to select **Lamp counter reset** and then press SELECT button. **Lamp replacement counter Reset?** appears. Select **Yes** to continue.

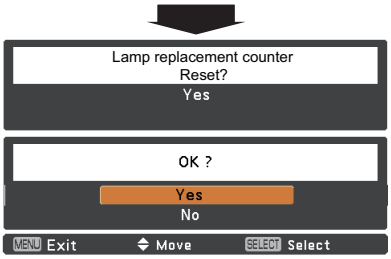
3 Another confirmation dialog box appears, select **Yes** to reset the Lamp counter.





Lamp replacement counter Reset? appears.

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



Select **Yes** again 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 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 14-16.
–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
No power	– Plug the power cord of the projector into the AC outlet. – See if the POWER indicator lights red. – 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. See page 18. – Check the WARNING indicator. If the WARNING indicator lights red, projector can not be turned on. See page 60. – Check the projection lamp. See page 63. – Unlock the Key lock function for the projector. See page 55.
The initial display is not shown.	– Make sure **Off** or **Countdown off** are not chosen at display function. See page 46.
The initial display is not same as the default set.	– Make sure **User** or **Off** are not chosen at Logo (select) function. See page 47.
Input signal switches automatically. (or does not switch automatically)	– Make sure Input search function is adjusted properly. See page 45.
An icon other than Input mode or Lamp mode icon appears.	– That is the Filter warning icon or the Lamp replacement icon. See page 58 or 63.
Image is out of focus.	– Adjust focus of the projector. See page 23. – Provide proper distance between the projector and the projection screen. See page 13. – Check the projection lens to see if it needs cleaning. See page 62. – 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.
Image is Left/Right reversed. **Image is Top/Bottom reversed.**	– Check the Ceiling/Rear function. See page 50. – Check the Ceiling function. See page 50.
Picture is not bright enough.	– Check if the **Contrast** or **Brightness** is adjusted properly. See pages 34, 41. – Check if Image mode is selected properly. See pages 33,40. – Check the lamp control function. See pages 25,54. – Check the LAMP REPLACE indicator. If it lights, the end of lamp life is approaching. Replace the lamp with a new one promptly. See page 63.

No image	– Check the connection between your computer or video equipment and the projector. See pages 14-16. – 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. – It takes about 15 seconds to display an image after turning on the projector. See page 18. – Check the Input signal, color system, video system or computer system mode. – Make sure the temperature is not out of the specified Operating Temperature (41˚F–95˚F [5˚C–35˚C]). – When **No Show** is operating, the image can not be displayed. Press the NO SHOW button or any other button on the remote control.
No sound	– Check the audio cable connection from audio input source. – Adjust the audio source. – Press the Volume + button. See page 24. – Press the Mute button. See page 24. – When the AUDIO OUT is plugged-in, the projector's built-in speaker is not available. – Is the image projected? You will hear the sound only when the image is projected.
The color is strange.	– Check the Input signal, color system, video system or computer system mode. – Make sure the **Blackboard** is not selected on Image select Menu. See pages 33, 40.
Some displays are not seen during the operation.	– Check the Display function. See page 46.
Auto PC adjustment function does not work.	– Check the Input signal. Auto PC function can not work when **480p**, **575p**, **720p**, **480i**, **575i**, **1035i** or **1080i** is selected (p 30), or when the digital signal is input into HDMI terminal. See page 30.
The setting does not remain after turning off power.	– Make sure you selected **Store** after adjusting setting. Some settings can not be stored if not registered with "Store". See pages 35,42.
Power management does not work.	– Power management function can not work while **Freeze** or **No Show** is running. See page 51.
Capture function does not work.	– Check the connection and the input signal to see if there is signal.
Auto setup does not work properly.	– Make sure **Off** is not selected at any function of **Auto setup**. See page 45.

The image is distorted or runs off.	– Check **PC adjustment** Menu or **Screen** and adjust them. See pages 31-32, 35-36.
PIN code dialog box appears at start-up.	– PIN code lock is being set. Enter a PIN code (the “1234” or numbers you have set). See pages 19, 55-56.
The Remote Control does not work.	– Check the batteries. – Make sure no obstruction is between the projector and remote control. – Make sure you are not too far from the projector when using the remote control. Maximum operating range is 16.4'(5 m). – Make sure the code of the remote control is conformed to the projector’s code. See page 54. – Unlock the Key lock function for the remote control function. See page 55.
Indicator blinks or lights.	– Check the status of the projector with referring to "Indicators and projector Condition". See page 70.
The exclamation mark appears on the screen.	– Your operation is invalid. Operate correctly.
Top control does not work.	– The top control is not available if the top control is locked at Key lock under Security of SETTING section. See page 55.
Unable to unlock the Logo PIN code lock or Security PIN code lock.	– Contact the dealer where you purchased the projector or the service center.

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.

CE The CE Mark is a Directive conformity mark of the European Community (EC).

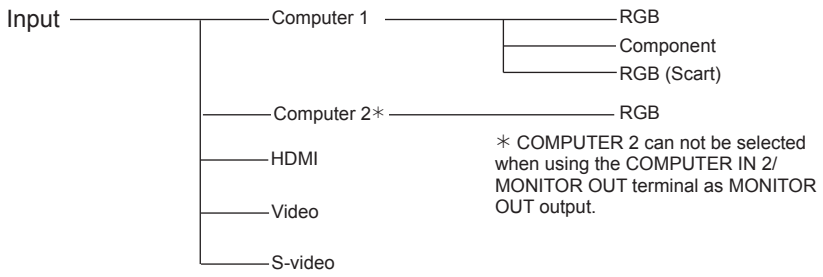
Licensed under USP5,717,422 USP6,816,141

c UL us LISTED This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.

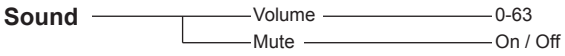
Menu Tree

Computer Input/HDMI Input/Video Input

Input

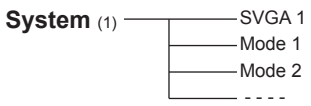


Sound

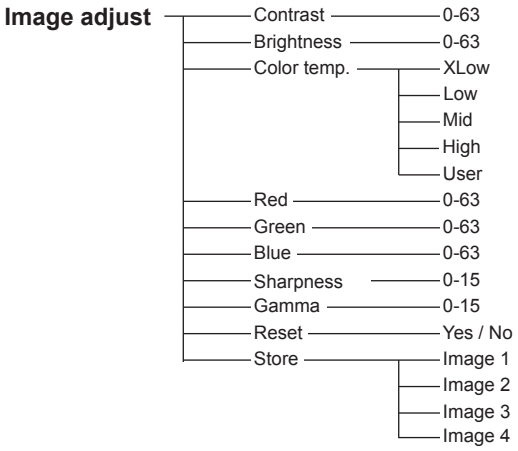


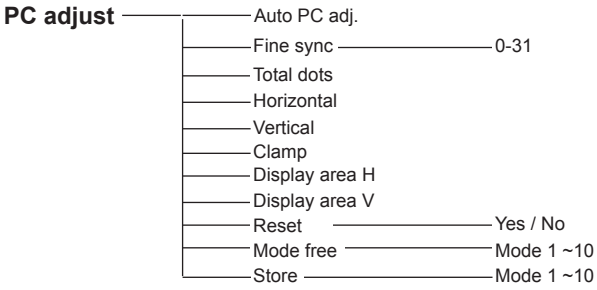
Computer Input

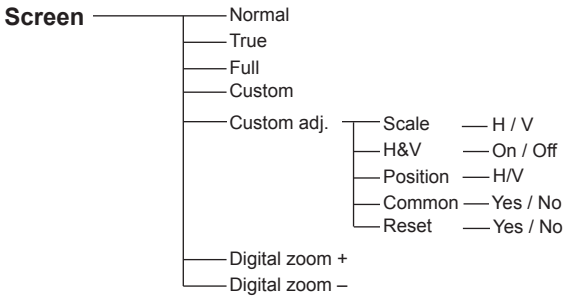
SVGA 1

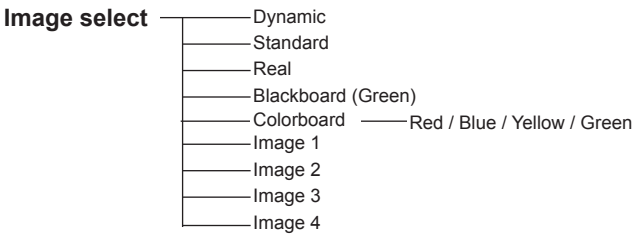


* Systems displayed in the System Menu vary depending on an input signal.









Video Input

- **System** (2)
  - Auto
  - 1080i
  - 1035i
  - 720p
  - 575p
  - 480p
  - 575i
  - 480i
- **System** (3)
  - Auto
  - PAL
  - SECAM
  - NTSC
  - NTSC 4.43
  - PAL-M
  - PAL-N

HDMI Input/Video Input

- **Image select**
  - Dynamic
  - Standard
  - Cinema
  - Blackboard (Green)
  - Colorboard — Red / Blue / Yellow / Green
  - Image 1
  - Image 2
  - Image 3
  - Image 4
- **Image adjust**
  - Contrast — 0-63
  - Brightness — 0-63
  - Color — 0-63
  - Tint — 0-63
  - Color temp. — XLow / Low / Mid / High / User
  - Red — 0-63
  - Green — 0-63
  - Blue — 0-63
  - Sharpness — 0-15
  - Gamma — 0-15
  - Noise reduction — Off / L 1 / L 2
  - Progressive — Off / L 1 / L 2 / Film
  - Reset — Yes/No
  - Store — Image 1 / Image 2 / Image 3 / Image 4
- **Screen**
  - Normal
  - Full
  - Zoom
  - Wide
  - Natural wide
  - Custom
  - Custom adj. — Scale H / V; H&V — On / Off; Position H / V; Common — Yes / No; Reset — Yes / No

Computer Input/HDMI Input/Video Input

- **Setting**
  - Language — 23 languages provided.
  - Menu position
  - Auto setup — Input search — Off / On 1 / On 2; Auto PC adj. — On / Off
  - Keystone — Keystone; Store / Reset
  - Background — Blue / Black / User
  - Display — On / Countdown off / Off
  - Logo — Logo select — Default / Off / User; Capture — Yes/No; Logo PIN code lock — Off / On; Logo PIN code change
  - Ceiling — On / Off
  - Rear — On / Off
  - Screen aspect — 4:3 / 16:9 / 16:10
  - HDMI setup — Image — Normal / Enhanced; Sound — HDMI / Computer
  - Terminal — Computer 2/Monitor out
  - Standby mode — Eco / Network
  - Power management — Ready / Shut down / Off / Timer (1-30 Min)
  - Direct on — On/Off
  - P-Timer — Count up / Count down / Timer / Start / Stop / Restart / Reset / Exit
  - Closed caption — Closed caption — Off / CC1 / CC2 / CC3 / CC4; Color — Color / White
  - Lamp control — 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
  - Video delay control — Off / On
  - Lamp counter — Lamp counter; Lamp counter reset
  - Filter counter — Filter counter — H; Timer — Off/2000H/3000H/4000H; Filter counter reset — Yes/No
  - Warning log
  - 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 **red**	LAMP REPLACE **yellow**	
●	●	●	The projector is off. (The AC power cord is unplugged.)
◍	●	✳	The projector is in stand-by mode. Press the ON/STAND-BY button to turn on the projector.
○	●	✳	The projector is operating normally.
◍ (blinking)	●	✳	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.
○ (blinking)	●	✳	The projector is in the Power management mode.
◍ (blinking)	◍ (blinking)	✳	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 indicator keeps blinking.)
◍	◍ (blinking)	✳	The projector has been cooled down enough and the temperature returns to normal. When turning on the projector, the WARNING 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. ◍ • • • red ● • • • off

○ (blinking) • • • blinks green. ◍ (blinking) • • • blinks red.

✳When the projection lamp reaches its end of life, the LAMP REPLACE indicator lights yellow. When this indicator lights yellow, replace the projection lamp with a new one promptly.

Compatible Computer Specifications

Basically this projector can accept the signal from all computers with the V-, H-Frequency mentioned below and less than 140 MHz of Dot Clock.

When selecting these modes, PC adjustment can be limited.

ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (KHz)	V-Freq. (Hz)
VGA 1	640 x 480	31.47	59.88
VGA 2	720 x 400	31.47	70.09
VGA 3	640 x 400	31.47	70.09
VGA 4	640 x 480	37.86	74.38
VGA 5	640 x 480	37.86	72.81
VGA 6	640 x 480	37.50	75.00
VGA 7	640 x 480	43.269	85.00
MAC LC13	640 x 480	34.97	66.60
MAC 13	640 x 480	35.00	66.67
480p	640 x 480	31.47	59.88
575p	768 x 575	31.25	50.00
480i	640 x 480	15.734	60.00 (Interlace)
575i	768 x 576	15.625	50.00 (Interlace)
720p	1280 x 720	37.50	50.00
720p	1280 x 720	45.00	60.00
SVGA 1	800 x 600	35.156	56.25
SVGA 2	800 x 600	37.88	60.32
SVGA 3	800 x 600	46.875	75.00
SVGA 4	800 x 600	53.674	85.06
SVGA 5	800 x 600	48.08	72.19
SVGA 6	800 x 600	37.90	61.03
SVGA 7	800 x 600	34.50	55.38
SVGA 8	800 x 600	38.00	60.51
SVGA 9	800 x 600	38.60	60.31
SVGA 10	800 x 600	32.70	51.09
SVGA 11	800 x 600	38.00	60.51
MAC 16	832 x 624	49.72	74.55
MAC 19	1024 x 768	60.24	75.08
XGA 1	1024 x 768	48.36	60.00
XGA 2	1024 x 768	68.677	84.997
XGA 3	1024 x 768	60.023	75.03
XGA 4	1024 x 768	56.476	70.07
XGA 5	1024 x 768	60.31	74.92
XGA 6	1024 x 768	48.50	60.02
XGA 7	1024 x 768	44.00	54.58
XGA 8	1024 x 768	63.48	79.35
XGA 9	1024 x 768	36.00	87.17 (Interlace)
XGA 10	1024 x 768	62.04	77.07
XGA 11	1024 x 768	61.00	75.70
XGA 12	1024 x 768	35.522	86.96 (Interlace)
XGA 13	1024 x 768	46.90	58.20
XGA 14	1024 x 768	47.00	58.30
XGA 15	1024 x 768	58.03	72.00
SXGA 1	1152 x 864	64.20	70.40
SXGA 2	1280 x 1024	62.50	58.60
SXGA 3	1280 x 1024	63.90	60.00
SXGA 4	1280 x 1024	63.34	59.98

ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (KHz)	V-Freq. (Hz)
SXGA 5	1280 x 1024	63.74	60.01
SXGA 6	1280 x 1024	71.69	67.19
SXGA 7	1280 x 1024	81.13	76.107
SXGA 8	1280 x 1024	63.98	60.02
SXGA 9	1280 x 1024	79.976	75.025
SXGA 10	1280 x 960	60.00	60.00
SXGA 11	1152 x 900	61.20	65.20
SXGA 12	1152 x 900	71.40	75.60
SXGA 13	1280 x 1024	50.00	86.00 (Interlace)
SXGA 14	1280 x 1024	50.00	94.00 (Interlace)
SXGA 15	1280 x 1024	63.37	60.01
SXGA 16	1280 x 1024	76.97	72.00
SXGA 17	1152 x 900	61.85	66.00
SXGA 18	1280 x 1024	46.43	86.70 (Interlace)
SXGA 19	1280 x 1024	63.79	60.18
SXGA 20	1280 x 1024	91.146	85.024
SXGA+ 1	1400 x 1050	63.97	60.19
SXGA+ 2	1400 x 1050	65.35	60.12
SXGA+ 3	1400 x 1050	65.12	59.90
MAC21	1152 x 870	68.68	75.06
MAC	1280 x 960	75.00	75.08
MAC	1280 x 1024	80.00	75.08
WXGA 1	1366 x 768	48.36	60.00
WXGA 2	1360 x 768	47.70	60.00
WXGA 3	1376 x 768	48.36	60.00
WXGA 4	1360 x 768	56.16	72.00
WXGA 6	1280 x 768	47.776	59.87
WXGA 7	1280 x 768	60.289	74.893
WXGA 8	1280 x 768	68.633	84.837
WXGA 9	1280 x 800	49.600	60.050
WXGA 10	1280 x 800	41.200	50.000
WXGA 11	1280 x 800	49.702	59.810
WXGA 12	1280 x 800	63.980	60.020
WUXGA 1	1920 x 1200	74.556	59.885
WUXGA 2	1920 x 1200	74.038	59.950
WSXGA+ 1	1680 x 1050	65.290	59.954
WXGA+ 1	1440 x 900	55.935	59.887
WXGA+ 2	1440 x 900	74.918	60.000
UXGA 1	1600 x 1200	75.00	60.00
UXGA 2	1600 x 1200	81.25	65.00
UXGA 3	1600 x 1200	87.5	70.00
UXGA 4	1600 x 1200	93.75	75.00
1035i	1920 x 1035	33.75	60.00 (Interlace)
1080i	1920 x 1080	33.75	60.00 (Interlace)
1080i	1920 x 1080	28.125	50.00 (Interlace)

✓ **Note:**

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)
D-480p	640 x 480	31.47	59.88
D-575p	768 x 575	31.25	50.00
D-720p	1280 x 720	37.50	50.00
D-720p	1280 x 720	45.00	60.00
D-VGA	640 x 480	31.47	59.94
D-SVGA	800 x 600	37.879	60.32
D-XGA	1024 x 768	43.363	60.00
D-WXGA 1	1366 x 768	48.36	60.00
D-WXGA 2	1360 x 768	47.7	60.00
D-WXGA 3	1376 x 768	48.36	60.00
D-WXGA 4	1360 x 768	56.160	72.000
D-WXGA 5	1366 x 768	46.500	50.000
D-WXGA 6	1280 x 768	47.776	59.870
D-WXGA 7	1280 x 768	60.289	74.893
D-WXGA 8	1280 x 768	68.633	84.837
D-WXGA 9	1280 x 800	49.572	59.870
D-1080i	1920 x 1080	----	59.94 (Interlace)
D-1080p	1920 x 1080	----	59.94
D-1080p	1920 x 1080	----	60.00
D-1080p	1920 x 1080	----	50.00

ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (KHz)	V-Freq. (Hz)
D-WXGA 10	1280 x 800	41.200	50.000
D-WXGA 11	1280 x 800	49.702	59.810
D-WXGA 12	1280 x 800	63.98	60.02
D-SXGA1	1280 x 1024	63.98	60.02
D-SXGA2	1280 x 1024	60.276	58.069
D-SXGA3	1280 x 1024	31.65	29.80
D-SXGA+ 1	1400 x 1050	63.97	60.19
D-SXGA+ 2	1400 x 1050	65.350	60.120
D-SXGA+ 3	1400 x 1050	65.120	59.900
D-WSXGA +1	1680 x 1050	65.290	59.954
D-WXGA +1	1440 x 900	55.935	59.887
D-1035i	1920 x 1035	33.75	60.00 (Interlace)
D-1080i	1920 x 1080	33.75	60.00 (Interlace)
D-1080i	1920 x 1080	28.125	50.00 (Interlace)
D-WUXGA 2	1920 x 1200	74.038	59.95

✓**Note:**

- 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)	13.78" x 4.80" x 15.04" (350.0mm x 121.9mm x 382.0mm) (Not including protrusions)
Net Weight	10.4 lbs (4.7kg)
Feet Adjustment	0˚ to 10˚

Panel Resolution

LCD Panel System	0.59" TFT Active Matrix type, 3 panels
Panel Resolution	1,280 x 800 dots
Number of Pixels	3,072,000 (1,280 x 800 x 3 panels)

Signal Compatibility

Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M, and PAL-N
SD/HDTV Signal	Analog: 480i, 480p, 575i, 575p, 720p, 1035i, and 1080i HDMI: 480p, 575p, 720p, 1080i, and 1080p
Scanning Frequency	H-sync. 15 kHz-100 kHz, V-sync. 50-100 Hz

Optical Information

Projection Image Size (Diagonal)	Adjustable from 60” to 110”
Throw Distance	2.09’ - 3.94' (0.64 m - 1.20 m)
Projection Lens	F 1.8 lens with f 6.68 mm with manual focus
Projection Lamp	230W

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/ Component Audio Input Jack	Mini Jack (stereo) x 1
Control port	D-sub 9 pin x 1
Audio Output Jack	Mini Jack (stereo) x 1 (Variable)
LAN Connection Terminal	RJ-45
HDMI	HDMI (V.1.3 with Deep Color) x 1

Audio

Internal Audio Amp	10 W RMS
Built-in Speaker	1 speaker, φ1.46" (37mm)

Power

Voltage and Power Consumption	AC 100–120 V (3.9 A Max. Ampere), 50/60 Hz (The U.S.A and Canada) AC 100-240 V (3.9 - 2.2 A Max. Ampere), 50/60Hz (For other countries)

Operating Environment

Operating Temperature	41˚F–95˚F (5 ˚C–35 ˚C)
Storage Temperature	14˚F–140˚F (-10˚C–60 ˚C)

Remote Control

Battery	AAA or LR03 1.5V ALKALINE 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

Owner’s Manual (CD-ROM)	Quick Reference Guide
AC Power Cord	Remote Control and Batteries
VGA Cable	PIN Code Label
Lens Cover with String	Safety Manual
Network Application (CD-ROM)	

- The specifications are subject to change without notice.
- LCD panels are manufactured to the highest possible standards. Even though 99.99% of the pixels are effective, a tiny fraction of the pixels (0.01% or less) may be ineffective by the characteristics of the LCD panels.

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.
COMPONENT~VGA Cable	**: AH-98771**
SCART~VGA Cable	**: AH-98881**

PJ Link Notice

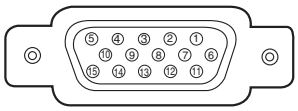
This projector is compliant with PJLink Standard Class 1 of JBMIA (Japan Business Machine and Information System Industries Association). The projector supports all commands defined by PJLink Class 1 and is verified conformance with PJLink Standard Class 1.

Projector Input		PJLink Input	Parameter
Computer 1	RGB	RGB 1	11
	Component	RGB 2	12
	RGB (Scart)	RGB 3	13
Computer 2		RGB 4	14
HDMI (Digital)		DIGITAL 1	31
Video	Video	VIDEO 2	22
	S-video	VIDEO 3	23

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

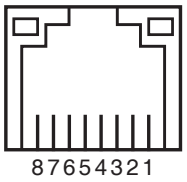
Configurations of Terminals

COMPUTER IN 1 /COMPONENT IN
Terminal: Analog RGB (Mini D-sub 15 pin)



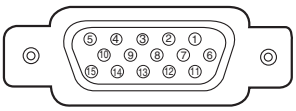
1	Red (R/Cr) Input
2	Green (G/Y) Input
3	Blue (B/Cb) Input
4	-----
5	Ground (Horiz.sync.)
6	Ground (Red)
7	Ground (Green)
8	Ground (Blue)
9	5V Power
10	Ground (Vert.sync.)
11	Ground
12	DDC Data
13	Horiz. sync. Input (Composite H/V sync.)
14	Vert. sync.
15	DDC Clock

LAN TERMINAL



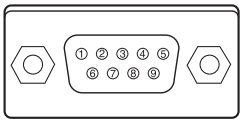
1	TX +
2	TX –
3	RX +
4	-----
5	-----
6	RX –
7	-----
8	-----

COMPUTER IN 2/MONITOR OUT (ANALOG)
Terminal: Analog RGB (Mini D-sub 15 pin)



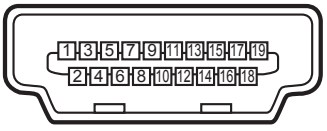
1	Red (R/Cr) Input/Output
2	Green (G/Y) Input/Output
3	Blue (B/Cb) Input/Output
4	-----
5	Ground (Horiz.sync.)
6	Ground (Red)
7	Ground (Green)
8	Ground (Blue)
9	-----
10	Ground (Vert.sync.)
11	-----
12	-----
13	Horiz. sync. Input/Output
14	Vert. sync. Input/Output
15	-----

CONTROL PORT CONNECTOR (D-sub 9 pin)



	Serial
1	-----
2	R X D
3	T X D
4	-----
5	SG
6	-----
7	-----
8	-----
9	-----

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.

Factory default set No: 1 2 3 4*

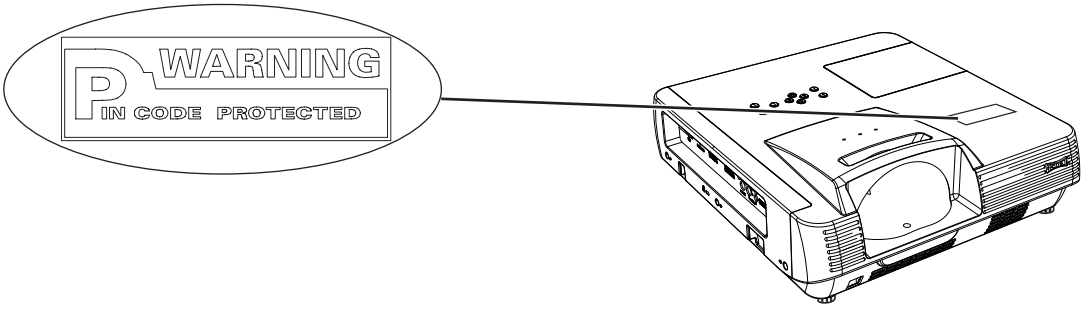
Logo PIN Code Lock No.

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.

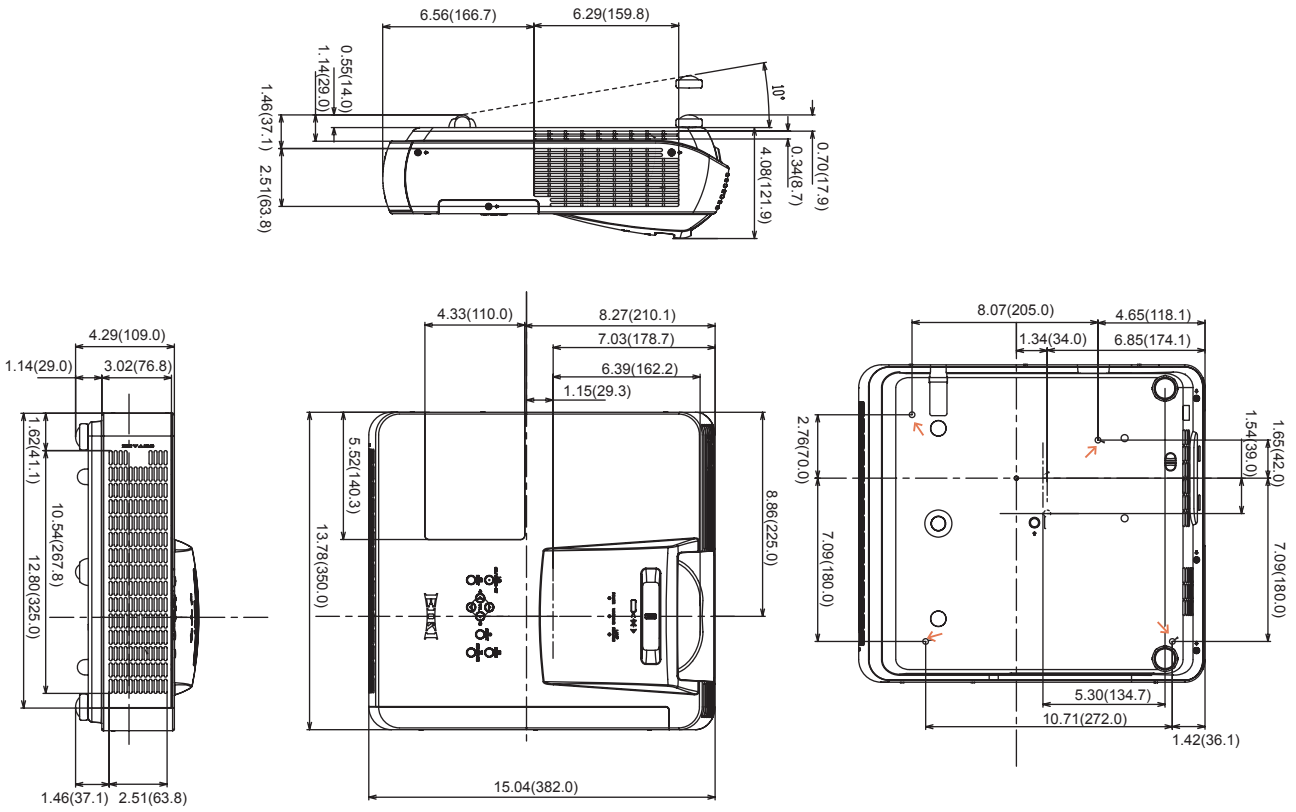
Put the label below (supplied) on in a prominent place of the projector's body while it is locked with a PIN code.



Dimensions

Unit: inch(mm)

Screw Holes for Ceiling Mount
Screw: M5
Depth: 0.394(10.0)



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