# EIKI

# **Multimedia Projector**

# MODEL LC-XB43N

#### Network Supported

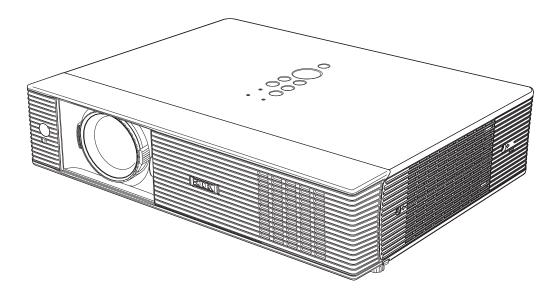
- Wireless LAN
  - IEEE802.11b/g/n
- U Wired LAN
- 100-Base-TX/10-Base-T

#### Memory Viewer

USB Memory Viewer

\* Refer to the owner's manuals below for details about network and memory viewer function.

- Network Set-up and Operation
- Memory viewer function



# **Owner's Manual**

## **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.

#### Compact Design

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

#### Capable of 360-degree Projection

This projector is capable of 360-degree projection. \*Some restriction required, see page 7.

#### • Simple Computer System Setting

The projector has the Multi-scan system to conform to almost all computer output signals quickly (p.33). Up to WUXGA resolution can be accepted.

#### Power Management

The Power management function reduces power consumption and maintains the lamp life (p.55).

#### Quick Termination

The AC power cord can be unplugged immediately after turning off the projector without waiting for the termination of the cooling fan rotation (p.23).

#### Logo Function

The Logo function allows you to customize the screen logo (pp.51-53). You can capture an image for the screen logo and use it for the starting-up display or between presentations.

#### Multilanguage Menu Display

Operation menu is available in 17 languages; English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Finnish, Polish, Hungarian, Romanian, Russian, Chinese, Korean, Japanese and Thai (p.48).

#### Security Function

The Security function helps you to ensure security of the projector. With the Key lock function, you can lock the operation on the top control or the remote control (p.58). PIN code lock function prevents unauthorized use of the projector (pp.22, 58-59).

#### 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 and Wireless LAN network functions.

#### √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.

- You can project an image on a computer as well as operate and manage the projector via network.
- The projector provides the "USB display" function that the image and sound are sent to the projector by connecting the computer to the projector with a USB cable.
- This projector is capable of the wireless LAN simple setting function by attaching the supplied USB memory to a computer.

For details, refer to the owner's manual of "Network Set-up and Operation."

#### Memory Viewer Function

Insert the dedicated USB memory into the projector to project images or movie files stored within. You do not have to carry computers or other equipment for a presentation.

For details, refer to the owner's manual of "Memory viewer function".

#### Auto setup Function

This function enables Input search, Auto Keystone correction and Auto PC adjustment by simple pressing the AUTO SETUP button (pp. 26,49).

#### 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.

#### 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.56).

#### Corner Correction

With the "Horizontal and vertical keystone correction function" and "Corner keystone correction function" of this projector, you can correct the keystone distortion even when projecting from the diagonal to the screen (pp.27, 50).

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#### Trademarks

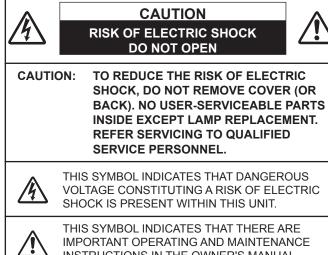
Each name of corporations or products in this book is either a registered trademark or a trademark of its respective corporation.

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

This projector provides many convenient features and functions. Operating the projector properly enables you to manage those features and maintains it in good condition for many years to come.

Improper operation may result in not only shortening the product-life, but also malfunctions, fire hazard, or other accidents.

If your projector seems to operate improperly, read this manual again, check operations and cable connections and try the solutions in the "Troubleshooting" section on pages 68-70 of this manual. If the problem still persists, contact the dealer where you purchased the projector or the service center.



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 local community waste collection/recycling centre.

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

READ AND KEEP THIS OWNER'S MANUAL FOR LATER USE.

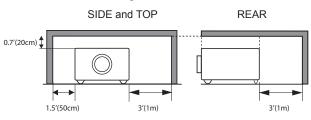
## Safety Precaution

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.

# 

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.



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

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 (H) 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.

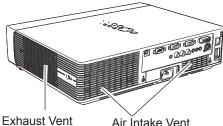
# CAUTION

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.





(Hot air exhaust)

Air Intake Vent

#### **Moving the Projector**

When moving the projector, close the slide shutter 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 the supplied carrying case with the lens side up.



The carrying case (supplied) is intended for protection against dust and scratches on surface of the cabinet, and it is not designed to protect an appliance from external forces. Do not transport the projector by courier or any other transport service with this case, otherwise the projector can be damaged. When handling the projector, do not drop, bump, subject it to strong forces, or put other things on the cabinet.

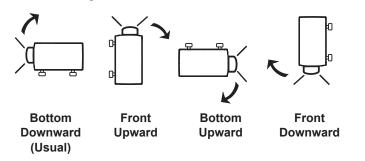
#### **CAUTION IN CARRYING OR TRANSPORTING** THE PROJECTOR

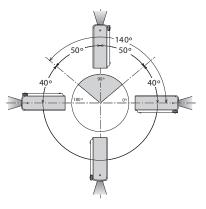
- Do not drop or bump the projector, otherwise damages or malfunctions may result.
- When carrying the projector, use a suitable carrying case.
- Do not transport the projector by courier or any other transport service in an unsuitable transport case. This may cause damage to the projector. For information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

#### Installing the Projector in Proper Directions

Use the projector properly in specified positions. Improper positioning may reduce the lamp life and result in severe accident or fire hazard.

This projector can project the picture upward, downward or backward, perpendicular to the plane of the screen as shown in the figure below.



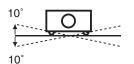


Be sure to set the Lamp control in High and the Fan control in **On 3** in the setting menu when using the projector inclined at between +40 degrees to +140 degrees to the horizontal plane at altitudes between 0 and approximately 1,600 meters above sea level.

Be sure to set the Fan control in **On 2** when using the projector at higher altitudes than the altitudes described above, regardless of the installation position of the projector. (p.60).

#### **Positioning Precautions**

Avoid positioning the projector as described below when installing.

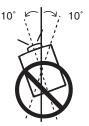


Do not roll the projector more than 10 degrees from side to side.

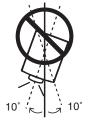




Do not put the projector on either side to project an image.



In upward projection, do not tilt the projector over 10 degrees right and left.



In downward projection, do not tilt the projector over 10 degrees right and left.

#### **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-XB43N
Trade Name	: EIKI
Responsible party	: EIKI International,Inc.
Address	: 30251 Esperanza Santa Margaria CA 92688-2123
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:

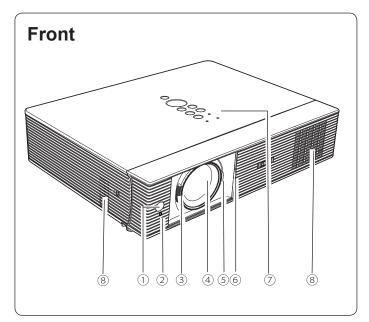
The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol  $\downarrow$  or coloured green or green-and-yellow.

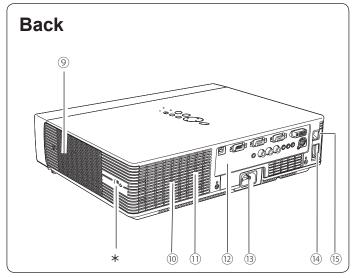
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

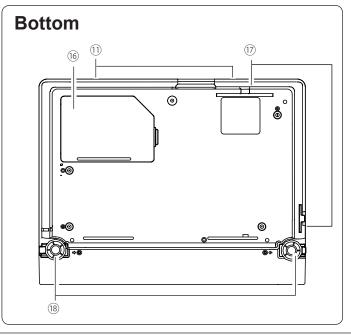
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

#### WARNING: THIS APPARATUS MUST BE EARTHED.

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







- ① Infrared Remote Receiver
- **② WIRELESS Indicator**
- $\ensuremath{\textcircled{}}$  Focus Ring
- **④** Projection Lens
- **5** Zoom Lever
- 6 Slide Shutter



Do not turn on a projector with slide shutter closed. High temperature from light beam may damage slide shutter and result in fire hazard.

- $\oslash\,$  Top Controls and Indicators
- **8** Air Intake Vent

#### 9 Exhaust vent



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

- 10 Speaker
- ① Air Intake Vent (back and bottom)
- 12 Terminals and Connectors
- 13 Power Cord Connector
- (4) USB Connector (Series A)
- **LAN Connection Terminal**
- 6 Lamp Cover
- 17 Filters
- 18 Adjustable Feet
- ✓ Note:

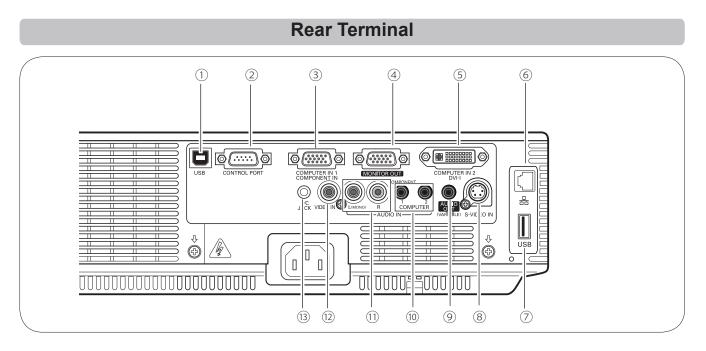
② WIRELESS Indicator and <sup>(5)</sup> LAN Connection Terminal are for the Network function. Refer to the owner's manual of "Network Set-up and Operation".

<sup>(A)</sup> USB Connector (Series A) is for the Memory Viewer function. Refer to the owner's manual of "Memory Viewer function".

#### \* 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.



#### ① USB Connector (Series B)

This terminal is switchable. Set up this terminal as either "Mouse control" (p.15) or "USB display" (refer to "Network Set-up and Operation") in "USB terminal" of "Setting" menu.

#### **2 CONTROL PORT**

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

#### **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.17,19).

#### **MONITOR OUT**

This terminal can be used to output the incoming analog RGB and component signals from COMPUTER IN 1/COMPONENT IN or COMPUTER 2/DVI-I terminal to the other monitor (p.17).

#### **5 COMPUTER IN 2 / DVI-I**

Connect computer output (Digital/Analog DVI-I type) to this terminal (p.17).

#### 6 LAN Connection Terminal

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

#### **⑦ USB Connector (Series A)**

Connect the USB menory (refer to the owner's manual "Memory Viewer function").

#### 8 S-VIDEO IN

Connect the S-VIDEO output signal from video equipment to this jack (p.18).

#### **9 AUDIO OUT (VARIABLE)**

Connect an external audio amplifier to this jack (pp.17-19). This terminal outputs sound from AUDIO IN terminal (((0) or ((1))).

#### O COMPUTER 1 COMPONENT / COMPUTER 2 AUDIO IN

Connect the audio output (stereo) from a computer or video equipment connected to ③, ④ or ⑤ to this jack. (pp17, 19)

#### 1 AUDIO IN

Connect the audio output signal from video equipment connected to (8) or (2) to this jack. For a mono audio signal (a single audio jack), connect it to the L (MONO) jack (p.18).

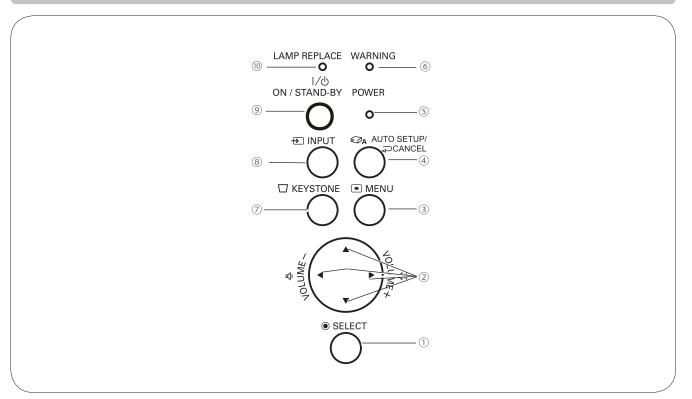
#### 12 VIDEO IN

Connect the composite video output signal to this jack (p.18).

#### **13 R/C JACK**

When using the wired remote control, connect the wired remote control to this jack with a remote control cable (supplied).

#### **Top Control**



#### 1 SELECT button

- -Execute the selected item (p.24).
- Expand or compress the image in the Digital zoom mode (p.40).

#### ② POINT ▲ ▼ ◀► (VOLUME +/–) buttons

- -Select an item or adjust the value in the On-Screen Menu (p.24).
- -Pan the image in the Digital zoom + mode (p.40).
- –Adjust the volume level (Point ◀► buttons) (p.28).

#### **③ MENU button**

Open or close the On-Screen Menu (p.24).

#### **④ AUTO SETUP/CANCEL button**

- -Correct vertical keystone distortion and adjust computer display parameters such as **Fine sync**, **Total dots**, **Horizontal** and **Vertical** position (pp.26, 49).
- –Display the image in USB thumb drive or return to the menu bar in Memory Viewer menu. Refer to the owner's manual of "Memory Viewer function".

#### **5 POWER indicator**

- -Lights red when the projector is in stand-by mode.
- -Lights green during operations.
- -Blinks green in the Power management mode (p.55).

#### **6 WARNING indicator**

- -Lights red when the projector detects an abnormal condition.
- -Blinks red when the internal temperature of the projector exceeds the operating range (pp.63, 74).

#### **⑦ KEYSTONE** button

Correct keystone distortion (pp.27, 50).

#### **⑧ INPUT button**

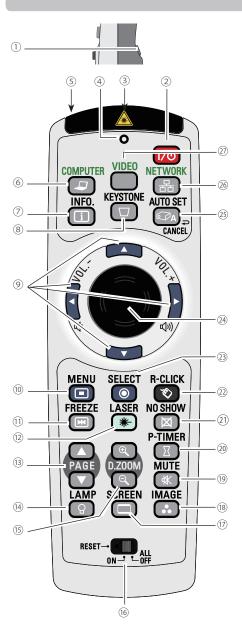
Select an input source (pp.31-32, 41-42).

#### **9 ON/STAND-BY button**

Turn the projector on or off (pp.21-23).

#### 10 LAMP REPLACE indicator

Lights yellow when the projection lamp reaches its end of life (pp.66, 74).



#### ① L-CLICK button

Act as the left mouse button for wireless mouse operation. (p.15)

② ON/STAND-BY button Turn the projector on or off. (pp.21-23)

3 WIRED REMOTE jack

Connect the remote control cable(supplied) to this jack when using as a wired remote control.Wireless remote control does not work when the remote control cable is connected to the projector.

#### **④ SIGNAL EMISSION indicator**

Lights red while the laser beam is being emitted from the laser light window or a signal is being sent from the remote control to the projector.

#### ✓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.

#### **Remote Control**

- **⑤ LASER LIGHT window**
- A laser beam is emitted from here (p.14).
- 6 COMPUTER button
  - Select the COMPUTER input source. (pp.31-32, 42)
- ⑦ INFO. button
- Operate the information function. (p.62)
- 8 KEYSTONE button
  - Correct keystone distortion. (pp.26, 50)
  - Point ▲ ▼ ◀► (VOLUME +/-) buttons
  - -Select an item or adjust the value in the On-Screen Menu. (p.24) -Pan the image in the Digital zoom + mode. (p.40)
  - -Adjust the volume level. (Point ◄ ► buttons) (p.28)
- 10 MENU button
  - Open or close the On-Screen Menu. (p.24)
- 1 FREEZE button
- Freeze the picture on the screen. (p.29)
- 12 LASER button
  - Operate the Laser pointer function. Laser beam is emitted while pressing this button within 1 minute. When using this laser pointer for more than 1 minute, release the LASER button and press it again. (p.14)
     Display the Pointer on the screen. (p.14)
- Biopidy the Founder of
   PAGE ▲ ▼ buttons

Scroll back and forth the pages on the screen when giving a presentation. To use these buttons, connect the projector and your computer with a USB cable. (pp.10, 17)

(4) LAMP button

Select a lamp mode. (pp.29, 57)

15 D.ZOOM +/- buttons

Zoom in and out the images. (pp.29, 40)

16 RESET/ON/ALL-OFF switch

When using the remote control, set this switch to "ON." Set it to "ALL OFF" for power saving when it is not used. Slide this switch to "RESET" to initialize the remote control code or switch Spotlight and Pointer to the Laser pointer function. (pp.13-14)

- 17 SCREEN button
  - Select a screen mode. (pp.30,39-40,47)
- 18 IMAGE button
  - Select the image mode. (pp.30,37,44)
- 19 MUTE button
- Mute the sound. (p.28)
- 20 P-TIMER button

Operate the P-timer function. (p.30)

1 NO SHOW button

Temporarily turn off the image on the screen. (p.30)

- 2 R-CLICK button
  - Act as the right mouse button for wireless mouse operation. (p.15)
- 3 SELECT button
  - Execute the selected item. (p.24)
  - Expand or compress the image in Digital zoom mode. (p.40)
- **PRESENTATION POINTER button**
- Move a pointer of the projector or a pointer for wireless mouse operation. (pp.14-15)

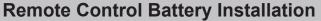
#### 3 AUTO SET/CANCEL button

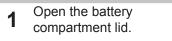
- Correct vertical keystone distortion and adjust computer display parameters such as Fine sync, Total dots, Horizontal and Vertical position. (pp.26, 49)
- Display the image in USB thumb drive or return to the menu bar in Memory Viewer menu.
  - Refer to the owner's manual of "Memory viewer function".
- 26 NETWORK button

Select the Network input. See the owner's manual of "Network Set-up and Operation" and owner's manual of "Memory viewer function".

VIDEO button

Select the VIDEO input source. (pp.29,41)



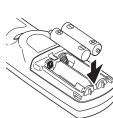


Press the lid

downward and slide it.

Install new batteries 2 into the compartment.

Replace the 3 compartment lid.



#### **Two AAA size batteries** For correct polarity

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

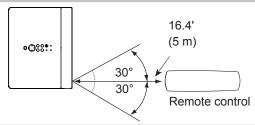


To ensure safe operation, please observe the following precautions :

- 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 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.

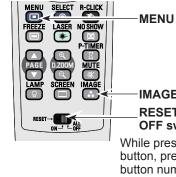


#### **Remote Control Code**

The eight different remote control codes (Code 1 – Code 8) 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 57.

- 1 While pressing the MENU button, press the IMAGE button number of times corresponding to the remote control code. See the list below.
- 2 To initialize the remote control code, slide the RESET/ ON/ALL-OFF switch to RESET, and then to ON. The initial code is set to Code 1.

Remote Control Code	Number of Times Pressing IMAGE Button
Code 1	1
Code 2	2
Code 3	3
Code 4	4
Code 5	5
Code 6	6
Code 7	7
Code 8	8



**MENU** button

**IMAGE** button **RESET/ON/ALL-OFF** switch

While pressing the MENU button, press the IMAGE button number of times corresponding to the remote control code.

#### √Note:

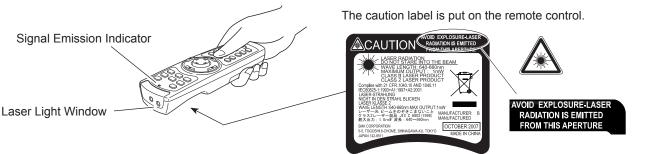
When using as a wired remote control while the standby mode is set to "Eco", the same remote control code should be set on both the projector and the remote control to turn on the projector. (p.55)

#### **Laser Pointer Function**

This remote control emits a laser beam from the laser light window. Press the LASER button to activate the laser pointer. The signal emission indicator lights red and the red laser beam is emitted. If the LASER button is pressed for more than one minute or if it is released, the laser light goes off.

The laser emitted is a Class II laser. Do not look into the laser light window or point the laser beam at yourself or other people. The following is the caution label for the laser beam.

**CAUTION:** Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. Never look directly into the laser light window while a laser is emitted, otherwise eye damage may result.



**Pointer Function** 

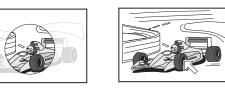
You can move the Spotlight or Pointer of the projector with the remote control to emphasize a part of the projected image.

- 1 Press and hold the MENU and the NO SHOW buttons for more than 5 seconds to activate the Pointer function. (The Laser pointer has switched to the Pointer function.)
- 2 Press the LASER button on the remote control pointing toward the projector. The Spotlight or Pointer is displayed on the screen with the LASER button lighting green. Then move the Spotlight or Pointer with the PRESENTATION POINTER button. If the LASER button does not light green and continues to emit a laser beam, try the abovementioned procedure until the LASER button lights green.
- 3 To clear the Spotlight or Pointer out the screen, press the LASER button pointing toward the projector and see if the LASER button lighting is turned off. To switch to the Laser pointer again, press and hold the NO SHOW and MENU buttons for more than 5 seconds or slide the RESET/ON/ALL-OFF switch to RESET and then to ON.

When you reset the Pointer function, the remote control code will be reset, as well.

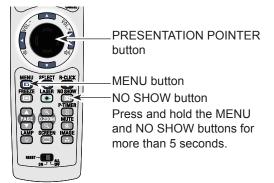
Spotlight

Pointer



#### ✓ Note:

You can choose the size of Spotlight (Large/Middle/ Small) and the pattern of Pointer (Arrow/Finger/Dot) in the Setting Menu. See "Pointer" on page 54.





-PRESENTATION POINTER button

—LASER button

After the Laser pointer has switched to the Pointer, use the LASER button as the Pointer function ON-OFF switch. Press the LASER button pointing toward the projector and see if it lights green.

#### **Wireless Mouse Operation**

The remote control can be used as a wireless mouse for your computer.

- **1** Make sure that **Mouse control** is selected in "USB terminal" of Setting menu.
- 2 Before operating the wireless mouse, connect your computer and the projector with a USB cable (not supplied). See "Connecting to a Computer" on page 17. When the Pointer function is used, the wireless mouse is not available.
- **3** When a USB cable is connected to the computer and the projector, turn on the projector first, then the computer. If you turn on the computer first, the wireless mouse function may not operate correctly.



### PRESENTATION POINTER

Move the pointer on the screen with this button.

#### -R-CLICK button

Act as right (click) mouse button while the projector and a computer are connected with a USB cable.

#### PAGE ▲ ▼ buttons

Scroll back and forth the pages on the screen when giving a presentation.

L-CLICK button

Act as left (click) mouse button while the projector and a computer are connected with a USB cable.

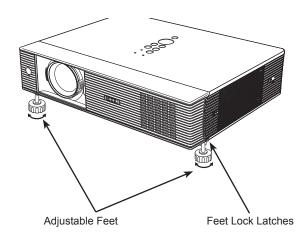
#### **Adjustable Feet**

Projection angle can be adjusted up to 8.9 degrees with the adjustable feet.

Lift the front of the projector and pull the feet lock latches on both side of the projector.

Release the feet lock latches to lock the adjustable feet and rotate the adjustable feet to a proper height and tilt.

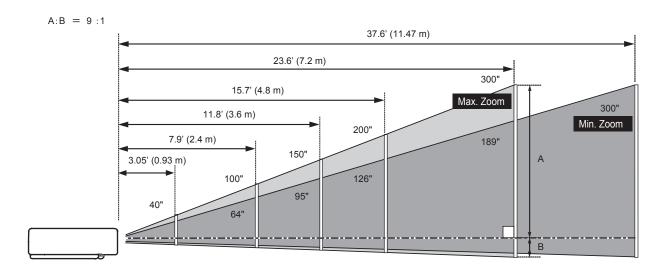
Keystone distortion can be adjusted automatically with the Auto setup function or manually by using the remote control or the menu operation (see pages 26-27, 49-50).



#### **Positioning the Projector**

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

- ✓ Note:
- 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.



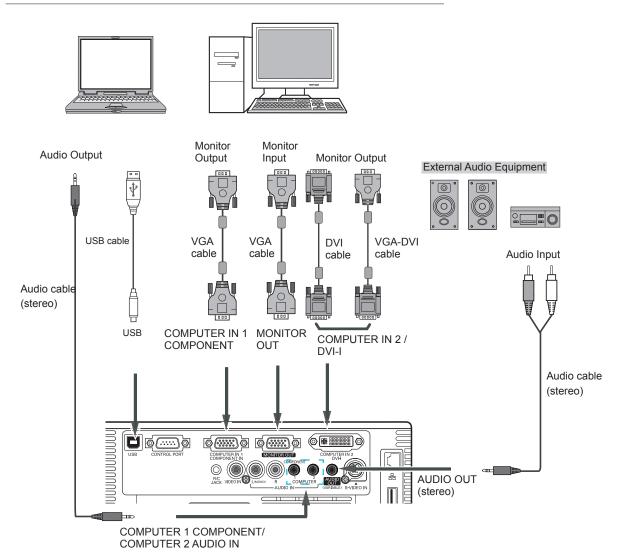
Screen Size (W x H) mm	40"	100"	150"	200"	300"
4 : 3 aspect ratio	813 x 610	2032 x 1524	3048 x 2286	4064 x 3048	6096 x 4572
Zoom (min)	4.9' (1.5m)	12.5' (3.8 m)	18.7' (5.7 m)	24.9' (7.6 m)	37.6'(11.47m)
Zoom (max)	3.05' (0.93m)	7.9' (2.4 m)	11.8' (3.6 m)	15.7' (4.8 m)	23.6' (7.2 m)

#### **Connecting to a Computer**

#### Cables used for connection

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

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



#### ✓Note:

- Input sound to the COMPUTER1 COMPONENT or COMPUTER 2 AUDIO IN terminal when using the COMPUTER 1/COMPONENT IN or the COMPUTER IN 2/DVI terminal as input.
- When the AUDIO OUT is plugged-in, the projector's built-in speaker is not available.
- USB cable connection is needed when operating the computer with the remote control or using the PAGE ▲ ▼ buttons on the remote control.



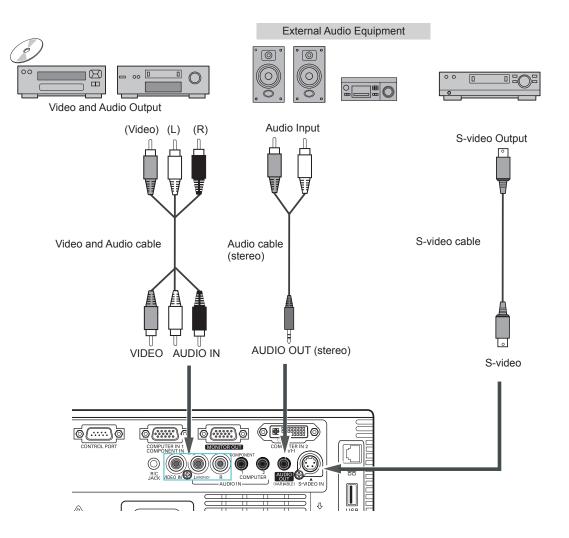
Unplug the power cords of both the projector and external equipment from the AC outlet before connecting cables.

#### **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. )



#### √Note:

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



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

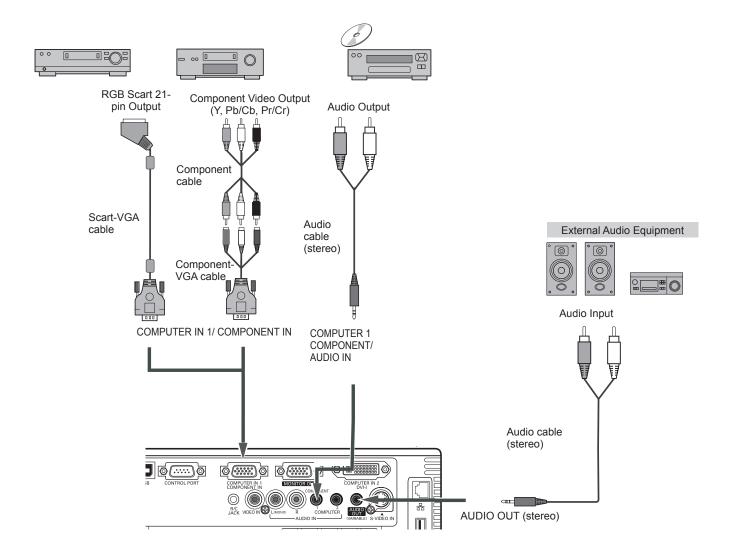
#### Installation

#### **Connecting to Component Video Equipment**

#### Cables used for connection

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

(Cables are not supplied with this projector.)



#### ✓ Note:

- When the AUDIO OUT is plugged-in, the projector's built-in speaker is not available.
- See page 78 for ordering optional cables.

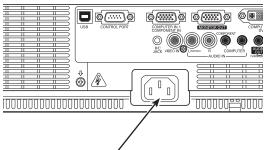


Unplug the power cords of both the projector and external equipment from the AC outlet before connecting cables.

#### **Connecting the AC Power Cord**

This projector uses nominal input voltages of 100-120 V or 200–240 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 station. Connect the projector with all peripheral equipment before turning the projector on.



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

# 

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			
ŀ	For the U.S.A. and Canada	For Continental Europe	For the U.K.	
	Ground			
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. Open the slide shutter (see pages 9, 65).
- **3** Press the ON/STAND-BY button on the top control or on the remote control. The POWER indicator lights green and the cooling fans start to operate. The preparation display appears on the screen and the count down starts.
- 4 After the countdown, the input source that was selected the last time and the lamp control status icon (see page 57) 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 30 seconds.

#### Selected Input Source and Lamp Control



Lamp control status

(See page 57 for Lamp control status.)

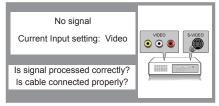
#### ✓Note:

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

#### Video / PC selection window



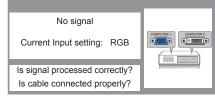
#### Input signal guidance window



#### 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.51).
- When **Countdown off** or **Off** is selected in the Display function, the countdown will not be shown on the screen (p.51).
- When the Input Search function is set to **On2**, the input signal will be searched automatically (p.49).
- 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.51).
- If you press the ON/STAND-BY button on the top control or the remote control during the countdown period, you can skip the countdown and go to the normal operations.

In this case, however, the brightness of the image needs some time to stabilize after turning on the projector. The display may flicker after turning on the lamp for the characteristics of the lamp. This is normal operation and not a malfunction.

#### Enter a PIN code

Use the Point  $\blacktriangle \lor$  buttons to enter a number. Press the Point  $\blacktriangleright$  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  $\blacktriangleleft$  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.

#### 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.

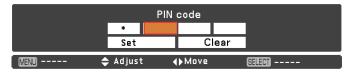
A PIN code consists of a four-digit number. Refer to the PIN code lock function in the Setting Menu on pages 58-59 for locking operation of the projector with your PIN code.



#### 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 81 of this manual and keep it on hand. Should the PIN code be missing or forgotten, consult your dealer or service center.

#### **PIN Code Input Dialog Box**



OK

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

#### ✓Note:

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

#### **Turning Off the Projector**

- **1** Press the ON/STAND-BY button on the top control or on the remote control, and **Power off?** appears on the screen.
- 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 60.). 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.



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 On start function is set to **On**, the projector will be turned on automatically by connecting the AC power cord to an AC outlet (p.56).
- 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 63.
- 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 poweroff.



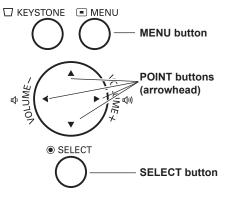
Power off? disappears after 4 seconds.

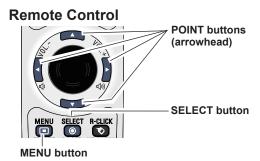
#### How to Operate the On-Screen Menu

The projector can be adjusted or set via the On-Screen Menu. The menus have 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.

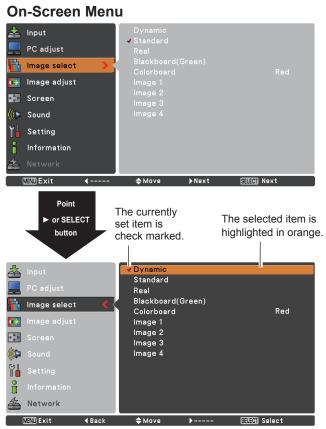
- Press the MENU button on the top control or the 1 remote control to display the On-Screen Menu.
- Use the Point ▲ ▼ buttons to highlight or select a main 2 menu item. Press the Point ► or the SELECT button to access the submenu items. (The selected item is highlighted in orange.)
- Use the Point ▲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

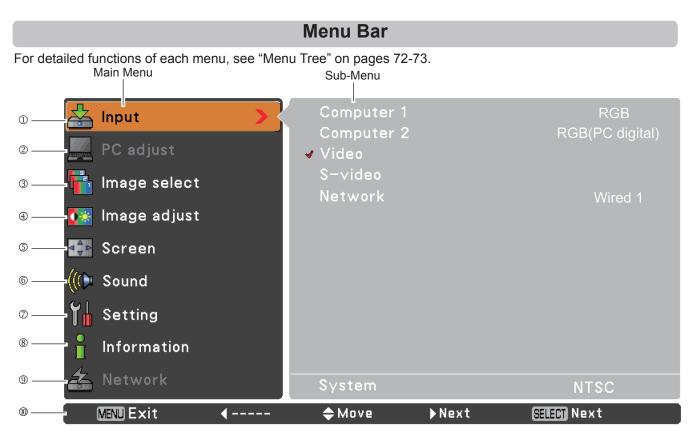
#### **Top Control**





#### **On-Screen Menu**





#### ① Input

Used to select an input source from **Computer 1**, **Computer 2**, **Video**, **S-video** or **Network** (pp.31-32, 41-42). **PC** adjust

#### ② PC adjust

Select Auto PC adj., Fine sync, Total dots, Horizontal, Vertical, Clamp, Display area H and Display area V to adjust the parameters to match with the PC input signal format (p.33-36).

#### ③ Image select

For computer source, used to select an image mode among **Dynamic**, **Standard**, **Real**, **Blackboard**(**Green**), **Colorboard** and **image 1 - 4** (p.37).

For Video source, used to select an image mode among Dynamic, Standard, Cinema, Blackboard(Green), Colorboard and Image 1-4 (p.44).

#### ④ Image adjust

For computer source, used to adjust computer image [Contrast, Brightness, Color temp., White balance (R/G/B), Sharpness and Gamma] (pp.38-39).

For Video source, used to adjust picture image [Contrast, Brightness, Color, Tint, Color temp., White balance (R/G/B), Sharpness, Gamma, Noise reduction and Progressive] (pp.45-46).

#### Screen

For computer source, used to adjust size of the image [Normal, True, Wide, Full, Custom and Digital zoom +/–] (pp.39-40).

For Video source, used to set size of image [Normal, Wide and Custom] (p.47).

#### 6 Sound

Used to adjust the volume or mute the sound (p.28).

#### ⑦ Setting

Used to set the projector's operating configurations (pp.48-61).

#### 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.62).

#### 9 Network

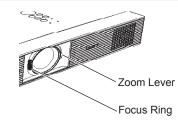
See the owner's manual of "Network Set-up and Operation".

Ouide

The key operation is displayed.

#### Zoom and Focus Adjustment

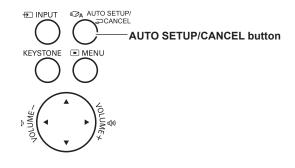
Rotate the Zoom Lever to zoom in and out. Rotate the Focus Ring to adjust the focus of the image.



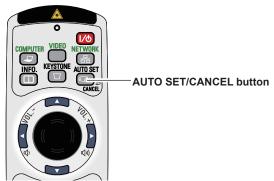
#### **Auto Setup Function**

Auto setup function is provided to automatically execute the setting of Auto setup (includes Input search, Auto PC adj. and Auto Keystone functions) in the setting menu by just pressing the AUTO SETUP/CANCEL button on the top control or the AUTO SET/CANCEL button on the remote control. Refer to page 49 for the setting of the Auto setup function.

#### **Top Control**



#### **Remote Control**



✓Note:

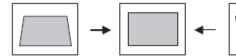
- Auto Keystone corrects vertical distortion only; it does not correct horizontal distortion.
- Auto Keystone can not work when Ceiling feature is set to **On** in the Setting menu (p.54).
- Perfect correction of the image distortion can not be ensured with the Auto setup function. If the distortion can not be corrected properly by pressing the AUTO SETUP/CANCEL or AUTO SET/CANCEL button, adjust manually by pressing the KEYSTONE button on the remote control or selecting Keystone in the Setting menu (p.50).
- 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.35-36).

#### **Keystone Correction**

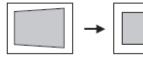
If a projected picture still has keystone distortion after pressing the AUTO SETUP/CANCEL button on the top control or the AUTO SET/CANCEL button on the remote control, correct the image manually as follows: Press the KEYSTONE button on the top control or on the remote control to switch the Standard (for Vertical/ Horizontal) /Corner adjustment. The Standard or Corner adjustment dialog box appears. Use the Point  $\blacktriangle \lor \checkmark \checkmark$ buttons to correct the Standard or Corner distortion. The Standard or Corner adjustment can be stored (see page 50).

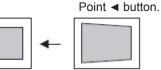


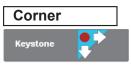
Reduce the lower width with the Point ▼ button.



Reduce the right part with Point  $\blacktriangleright$  button.







Press the KEYSTONE button on the top control or on the remote control to switch Corner adjustment, press the SELECT button on the remote control to select the corner you want to adjust.

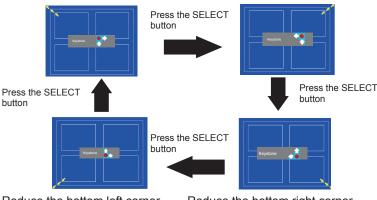
Reduce the top left corner part with the Point  $\blacktriangleright \lor$  buttons.

Reduce the top right corner part with the Point  $\blacktriangleleft \Psi$  buttons.

Reduce the upper width

with the Point  $\blacktriangle$  button.

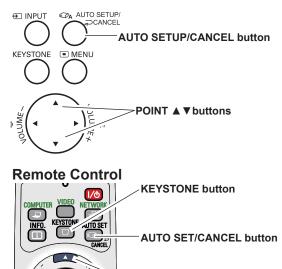
Reduce the left part with



Reduce the bottom left corner part with the Point  $\blacktriangleright \blacktriangle$  buttons.

Reduce the bottom right corner part with the Point ◄▲ buttons.

#### **Top Control**

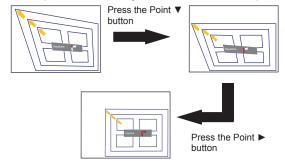


POINT ▲ ▼ ◀ ► buttons

#### √Note:

- 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 and hold the KEYSTONE button for more than 3 seconds while the Standard or Corner dialog box is being displayed, the Standard or Corner correction will be released.
- The Corner pattern can be set to **Off**, **Red**, **White** or **Blue** in the Corner pattern function. See "Keystone" on page 50.
- The adjustable range is limited depending on the input signal.
- Standard and Corner functions can not be adjusted at the same time. If one of the functions is adjusted, and then the other one will be reset automatically.
- The corner keystone function may be canceled when you set the Auto keystone function to Auto or Manual. To avoid this, it is recommended to set the Auto keystone function to Off while the corner keystone function is activated.

#### The top left corner adjustment as an example:



#### **Sound Adjustment**

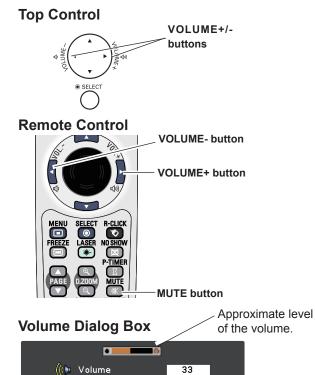
#### **Direct Operation**

#### Volume

Press the VOLUME+/- buttons on the top control or on the remote 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.



🕽 Mute

i

#### Menu Operation

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

#### Volume

Press the Point **A** button to turn up the volume; press the Point ▼ button to turn down the volume.

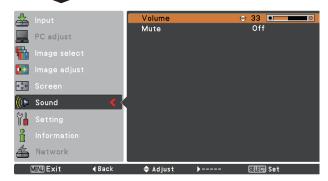
Mute

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.



Off

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



#### **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/VIDEO/NETWORK button

Press the COMPUTER, VIDEO or NETWORK button on the remote control to select the input source. See pages 31-32, 41-42 for details.

Refer to the owner's manual of "Network Set-up and Operation" for details about the network input.

#### 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 menu while the Freeze function is working.



#### 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.62).

#### D.ZOOM +/- buttons

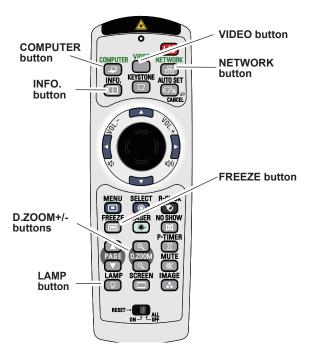
Press the D.ZOOM +/- buttons on the remote control to enter to the Digital zoom +/- mode. See page 40 for details.

#### LAMP button

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

- 💝 High..... Brighter than the Normal mode.
- Vormal..... Normal brightness.
- Eco ...... Lower brightness reduces the lamp power consumption and extends the lamp life.

#### **Remote Control**



✓Note:

See the next page for the description of other buttons.

#### 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. The screen changes each time you press the NO SHOW button as follows.



No show disappears after 4 seconds.

 $\textit{black out} \rightarrow \textit{normal} \rightarrow \textit{black out} \cdots \cdots$ 

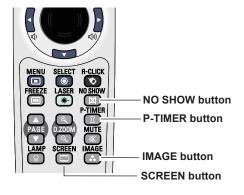
#### P-TIMER button

Press the P-TIMER button on the remote control. The P-Timer display **00:00** appears on the screen and the countdown starts (**00:00–59:59**).

To stop the countdown, press the P-TIMER button. To cancel the P-Timer function, press the P-TIMER button again.



P-Timer display



✓Note:

See the previous page for the description of other buttons.

#### IMAGE button

Press the IMAGE button on the remote control to select a desired image mode of the screen. See pages 37, 44 for details.

#### **SCREEN** button

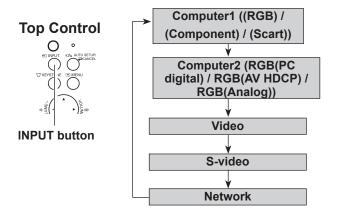
Select the screen size (See pages 39-40, 47 for details).

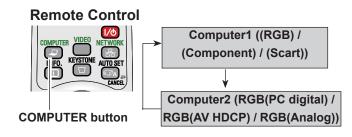
#### Input Source Selection (RGB: Computer 1/Computer 2(Analog))

#### **Direct Operation**

Choose either **Computer 1(RGB)** or **Computer 2 (RGB(Analog))** by pressing the INPUT button on the top control or press the COMPUTER button on the remote control.

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

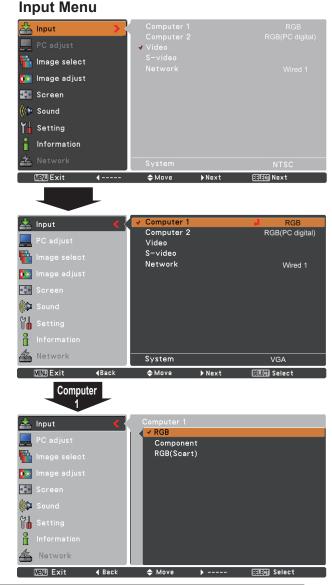




#### Menu Operation

- 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.
- Use the Point ▲▼ buttons to select either Computer
   1 or Computer 2 and then press the Point ► button to access the submenu items.
- 3 When **Computer 1** is selected, use the Point ▲ ▼ buttons to select **RGB** and then press the SELECT button.

When **Computer 2** is selected, use the Point ▲ ▼ buttons to select **RGB(Analog)** and then press the SELECT button.



#### ✓Note:

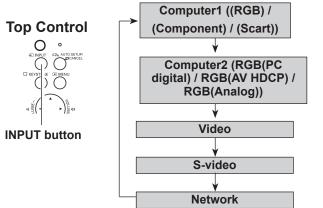
When the Input Search function is set to **On1** or **On2** in the Auto setup function, the input signal will be searched automatically (p.49).

#### Input Source Selection (RGB(PC digital), RGB(AV HDCP))

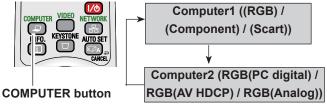
#### **Direct Operation**

Choose Computer 2(RGB(PC digital)) or Computer 2(RGB(AV HDCP)) by pressing the INPUT button on the top control or press the COMPUTER button on the remote control.

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



#### **Remote Control**

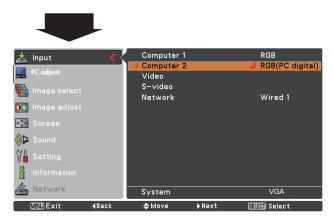


#### Input Menu

📥 Input 💦 🔪	Computer 1	
PC adjust	Computer 2	
🖬 Image select	S−video Network	
🊺 Image adjust	Network	
<b>⊴</b> ∯⊳ Screen		
(() Sound		
Y Setting		
Information		
🚣 Network	System	NTSC
MENU Exit 4	✦Move ▶Next	SELEON Next

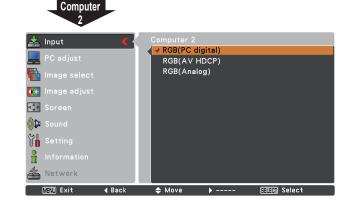


- Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select Input and then press the Point ► or the SELECT button.
- 2 Use the Point ▲▼ buttons to select **Computer 2** and then press the Point ► button to access the submenu item.
- 3 Use the Point ▲ ▼ buttons to select **RGB(PC digital)** or **RGB(AV HDCP)** and then press the SELECT button.



#### ✓Note:

- HDCP (High-bandwidth Digital Content Protection) is a system for protecting digital entertainment content delivered by DVI (Digital Visual Interface) from being copied. The specification of HDCP is decided and controlled by Digital Content Protection, LLC. Should the specification be changed, this projector may not display the digital content protected by HDCP.
- When the Input Search function is set to **On1** or **On2**, the input signal will be searched automatically (p.49).



#### **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 75-76)

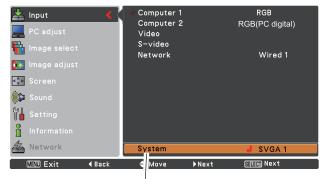
One of the following messages may appear when:

AutoThe projector can not recognize the connected<br/>signal conforming to the provided PC Systems.Auto is displayed on the System Menu box<br/>and the Auto PC adjustment function works<br/>to display proper images. If the image is not<br/>projected properly, a manual adjustment is<br/>required (pp.35-36).

There is no signal input from the computer. Check the connection between your computer and the projector. (See "Troubleshooting" on pp.68-70.)

- Mode 1The preset system is manually adjusted in the<br/>PC adjust Menu. The adjusted data can be<br/>stored in Mode 1-5 (pp.35-36).
- **SVGA 1** PC Systems provided in this projector is chosen. The projector chooses a proper system provided in the projector and displays it.

#### PC System Menu



The PC System Menu Selected system is displayed.

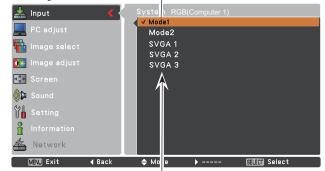
\*Mode 1 and SVGA 1 are examples.

#### **Selecting Computer System Manually**

PC system can also be selected manually.

- 1 Press the MENU button to display the On-Screen Menu. Use the Point ▲ ▼ buttons to select **Input** and then press the Point ► or the 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 (1–5)** set in the PC adjust Menu (pp.35-36).



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** to conform to your computer.

#### **Menu Operation**

#### Auto PC adj.

- 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 (1–5)** in the PC System Menu (see page 33). See also **Store** on page 36.

#### PC adjust Menu

MENU Exit 4	<b>⇔</b> Move ▶Next	SELECT Next
📥 Network		
Information		
Y Setting	Store	
a sound	Mode free	
(( Sound	Reset	
Screen	Display area H Display area V	1024 768
🌆 Image adjust	Clamp	
-	Vertical	
lmage select	Horizontal	
PC adjust 💦 🔪	Total dots	1344
📥 Input	Fine sync	
🕂 taanaa	Auto PC adj.	



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

🛃 Input	Auto PC adj.	الم. الم
	Fine sync	16
💻 PC adjust 🛛 🧹 🦿	Total dots	1344
Image select	Horizontal	297
inage select	Vertical	36
🚺 Image adjust	Clamp	1
	Display area H	1024
Screen	Display area V	768
C Sound	Reset	
(A) I	Mode free	
🎽 Setting	Store	
Information		
A Network		
MENU Exit 🛛 🖣 Back	♦Move >	- SELEGI Start

✓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.35-36).
- 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.33), or when the signal is coming from the DVI terminal.

### 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.

- 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.

#### PC adjust Menu

🕼 Sound

Network

MENU Exit

Fine sync

PC adjust N	lenu				
<ul> <li>Input</li> <li>PC adjust</li> <li>Image select</li> <li>Image adjust</li> <li>Screen</li> <li>Sound</li> <li>Setting</li> <li>Information</li> <li>Network</li> </ul>	>	Auto PC adj Fine sync Total dots Horizontal Vertical Clamp Display area Display area Reset Mode free Store			16 1344 297 36 1 1024 768
MENU Exit	(	<b>⇔</b> Move	▶Next	SELECT Next	
📥 Input		Auto PC adj			
PC adjust	<b>~</b>	Fine sync Total dots			16 1344
image select	` ` ` .	Horizontal			297
		Vertical			36
💽 Image adjust		Clamp Display area	ч		1 1024
screen ⊈		Display area			768
🕼 Sound		Reset Mode free			
Setting		Store			
nformation					
A Network					
MENU Exit	Back	\$ Move	→	SELEON Start	
🚣 Input		Auto PC adj Fine sync			16
💻 PC adjust	<b>~</b>	Total dots			1344
image select		Horizontal			297
💽 Image adjust		Vertical Clamp			36 1
Screen		Display area			, 1024
Screen		Display area	a V		768

Reset

Store

**⇔**Move

**∢**▶ Adjust

**∢**Back

🗢 Scroll

Mode free



Use the Point  $\blacktriangleleft$  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  $\blacktriangleleft$  buttons to adjust the horizontal picture position.

#### Vertical

Use the Point  $\triangleleft \triangleright$  buttons to adjust the vertical picture position.

#### 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.

SELEM Next

#### **Computer Input**

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.



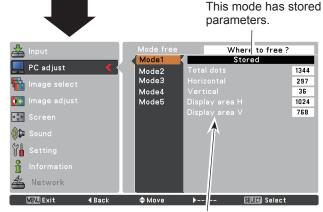
To clear the stored data, select **Mode free** and then press the Point ► or the SELECT button. Move the highlight to the mode that you want to clear and then press the SELECT button.



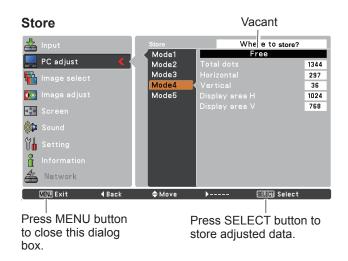
To store the adjusted data, select **Store** and then press the Point  $\blacktriangleright$  or the SELECT button. Move the highlight to one of the Modes 1 to 5 in which you want to store, and then press the SELECT button.







Values of Total dots, Horizontal, Vertical, Display area H and Display area V.



✓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.33).
- When input computer signal to the projector, **PC adjust** will become available.

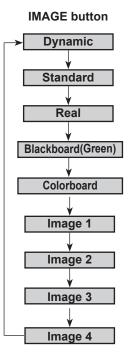
### **Image Mode Selection**

#### **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.



**IMAGE** button



#### **Menu Operation**

- 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.



Normal picture mode preset on the projector.



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

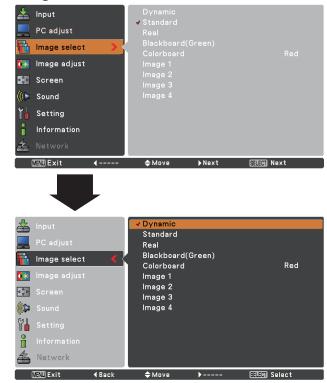
Use the Point  $\blacktriangle \lor$  buttons to select **Colorboard** and then press the Point  $\blacktriangleright$  or the SELECT button. Use the Point  $\land \lor$  buttons to select the desired item and then press the SELECT button.

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 38-39). This Image memory is provided in each computer, component and video input source.

#### Image Select Menu



### **Image Adjustment**

- 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.

#### Contrast

Press the Point  $\blacktriangleleft$  button to decrease the contrast; press the Point  $\blacktriangleright$  button to increase the contrast (from 0 to 63).

#### Brightness

Press the Point  $\blacktriangleleft$  button to decrease the brightness; press the Point  $\blacktriangleright$  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  $\blacktriangleleft$  button to lighten green tone; press the Point  $\blacktriangleright$  button to deepen green tone (from 0 to 63).

#### (White balance (Blue))

Press the Point  $\blacktriangleleft$  button to lighten blue tone; press the Point  $\blacktriangleright$  button to deepen blue tone (from 0 to 63).

#### Sharpness

Press the Point  $\blacktriangleleft$  button to decrease the sharpness of the image; press the Point  $\blacktriangleright$  button to increase the sharpness of the image (from 0 to 15).

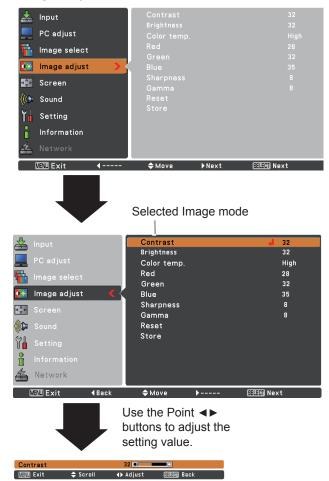
#### Gamma

Use the Point  $\triangleleft \triangleright$  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.

#### Image Adjust Menu



#### ✓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 37.





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.

- 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.

#### True

Provide the image in its original size. When the original image size is larger than the screen size (1024 x 768), the projector enters to the panning mode automatically. Use the Point  $\blacktriangle \checkmark \checkmark \checkmark$  buttons to pan the image. When adjusted, the arrows will turn red. When reached to the correction limits, the arrows will disappear.

#### Wide

Provide the image to fit the wide video aspect ratio (16:9) by expanding the image width uniformly. This function can be used for providing a squeezed video signal at 16:9.

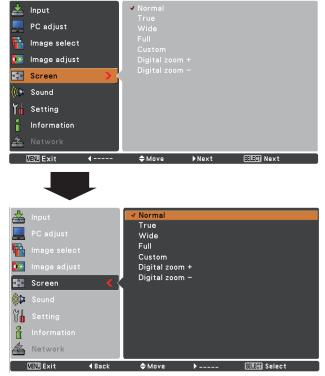
#### Full

Provide the full screen image.

#### ✓Note:

- The Screen Menu, except for **Normal** and **Custom**, can not be operated when **720p**, **1035i** or **1080i** is selected in the PC System Menu (p.33).
- This projector can not display any resolution higher than 1920 x 1200. If your computer's screen resolution is higher than it, reset the resolution to the lower before connecting to the projector.
- The image data in other than 1024 x 768 is modified to fit the screen size in initial mode.
- True, Full and Digital zoom +/- can not be selected when 480i, 575i, 480p or 575p is selected in the PC System Menu (p.33).

#### Screen Menu



Custom

Adjust the screen scale and position manually with this function.

Press the Point  $\blacktriangleright$  button at **Custom** and the **Custom** is displayed on the screen, you can use the Point  $\blacktriangle \lor$  buttons to choose the item you want to adjust.

Scale H/V	Adjust the Horizontal/Vertical screen scale.
H&V	When set to <b>On</b> , the aspect ratio is fixed. <b>Scale V</b> appears dimmed and becomes unavailable. Adjust <b>Scale H</b> , 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 to all the inputs. Press the SELECT button at <b>Common</b> to display a confirmation box. To save the scale, press the SELECT button at <b>Yes</b> . When <b>Custom</b> is selected, the

saved scale 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  $\blacktriangle \lor \blacktriangleleft \triangleright$  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 + button on the remote control.

#### Digital zoom -

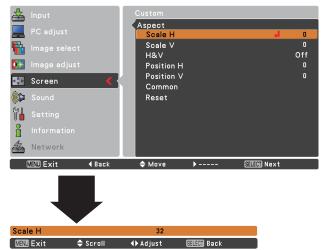
Select **Digital zoom -**. The On-Screen Menu disappears and **D. zoom –** appears. Press the SELECT button to compress image size.

The projected image can be also compressed by pressing the D.ZOOM - button on the remote control.

To exit the Digital zoom +/– mode, press any button except the D.ZOOM +/- buttons, SELECT and Point 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 31-32) again or adjust the screen size with the D.ZOOM +/- buttons.

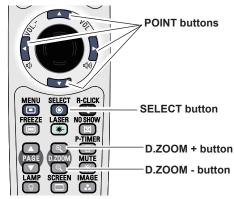
#### Custom



#### ✓Note:

- When no signal is detected, **Normal** is set automatically 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**



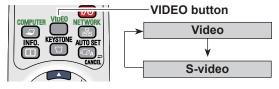
- ✓Note:
  - The panning function may not operate properly if the stored Mode in the PC adjust Menu is used (p.36).
- The minimum compression ratio is limited depending on the input signal, when the Keystone function is working or when the custom is selected for the screen size.
- True, Full and Digital zoom +/– can not be selected when 480i, 575i, 480p or 575p is selected in the PC System Menu (p.33).
- Digital zoom +/- can not be selected when Full or True is selected.
- **Digital zoom –** can not be operated when Custom is selected.

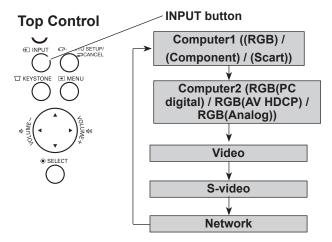
### Input Source Selection (Video, S-video)

#### **Direct Operation**

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

#### **Remote Control**





#### **Menu Operation**

- 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.

Video

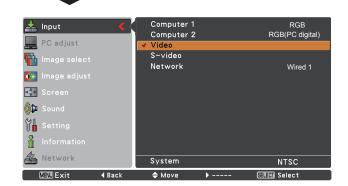
When video input signal is connected to the VIDEO jack, select **Video**.

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

#### Input Menu

Video





#### ✓Note:

- **Network** is for the Network function. See the owner's manual of "Network Set-up and Operation".
- When the Input Search function is set to **On1** or **On2** in the Auto setup function, the input signal will be searched automatically (p.49).

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

#### **Direct Operation**

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

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



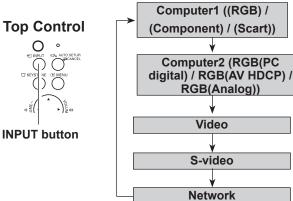
	Computer1 ((RGB) /
	(Component) / (Scart))
	↓
	Computer2 (RGB(PC digital) /
COMPUTER button	RGB(AV HDCP) / RGB(Analog))



- 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.
- 3 Use the Point ▲ ▼ buttons to select **Component** or **RGB(Scart)** 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)**.



#### Input Menu







#### ✓Note:

- **Network** is for the Network function. See the owner's manual of "Network Set-up and Operation".
- When the Input Search function is set to **On1** or **On2**, the input signal will be searched automatically (p.49).

### **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, S-video or Computer 1(Component) and then press the SELECT button.
- 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

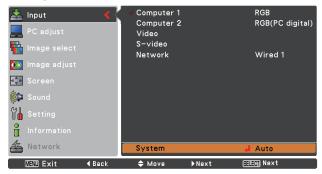
#### Auto

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 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)**.

### **Image Mode Selection**

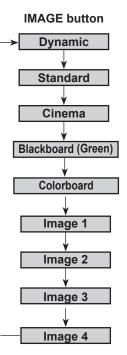
#### **Direct Operation**

Select the desired image mode 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.

# 



IMAGE button



#### Menu Operation

- 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  $\blacktriangle \lor$  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

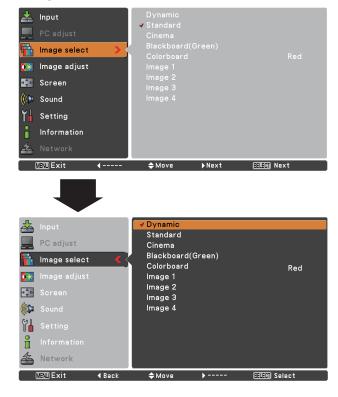
Use the Point  $\blacktriangle \lor$  buttons to select **Colorboard** and then press the Point  $\blacktriangleright$  or the SELECT button. Use the Point  $\land \lor$  buttons to select the desired item and then press the SELECT button.

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 45-46). This Image memory is provided in each computer, component and video input source.

#### Image Select Menu



### Image Adjustment

- 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.

#### 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  $\triangleleft$  button decrease the intensity of the color; press the Point  $\blacktriangleright$  button increase the intensity of the color (from 0 to 63).

#### Tint

Press the Point  $\triangleleft$  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  $\blacktriangleleft$  button to lighten green tone; press the Point  $\blacktriangleright$  button to deepen green tone (from 0 to 63).

#### (White balance (Blue))

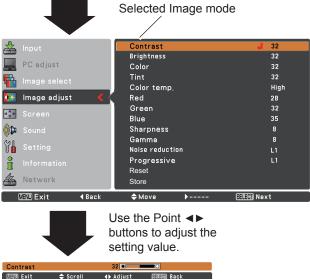
Press the Point  $\blacktriangleleft$  button to lighten blue tone; press the Point  $\blacktriangleright$  button to deepen blue tone (from 0 to 63).

#### ✓Note:

- When 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.43).
- When **Blackboard(Green)** or **Colorboard** is selected in Image select, **Color temp.** will change to **Blackboard** or **Colorboard**.

#### Image adjust Menu





### **Video Input**

Sharpness

Press the Point  $\triangleleft$  button to decrease the sharpness of the image; Press the Point  $\blacktriangleright$  button to increase the sharpness of the image (from 0 to 15).



Use the Point  $\triangleleft \triangleright$  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.
- L1 ..... Lower reduction.
- L2 ..... Higher reduction.

#### Progressive

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

- Off ..... Disabled.
- L1 ..... For an active picture.
- L2 ..... For a still picture.
- **Film** ...... For watching a film. With this function, the projector reproduces pictures faithful to the original film quality.

#### Reset

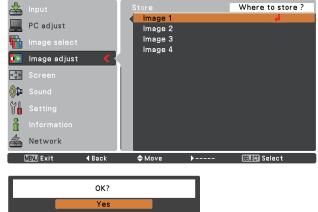
To reset the adjusted data, select **Reset** and press the the SELECT button. A confirmation box appears and then select **Yes**. All adjustments will return to their previous figures.

#### Store

To store the adjusted data, select **Store** and press the Point  $\blacktriangleright$  or the SELECT button. Use the Point  $\blacktriangle \lor$  buttons to select one from Images 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 44.

#### Store Menu





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

#### ✓Note:

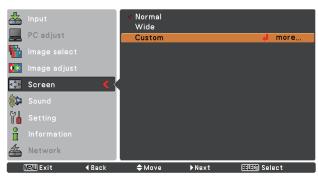
Noise reduction and Progressive can not be selected when 480p, 575p, 720p, 1035i or 1080i is selected (p.43).

### Screen Size Adjustment

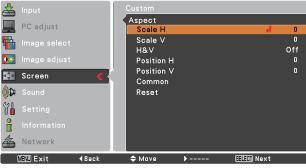
This projector has the picture screen resize function, which enables you to customize the image size.

- 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









#### ✓Note:

- When no signal is detected, **Normal** is set automatically and the Aspect dialog box disappears.
- The adjustable range for **Scale H/V** and **Position H/V** is limited depending on the input signal.
- Wide, Zoom and Natural wide can not be operated when 720p, 1035i or 1080i is selected in the AV System Menu (p.43).
- The corner pattern mode is disable when in Custom mode.

#### Normal

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

#### Wide

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

#### Custom

Adjust the screen scale and position manually with this function.

Press the Point  $\blacktriangleright$  button at **Custom** and the **Custom** is displayed on the screen, you can use the Point  $\blacktriangle \lor$  buttons to choose the item you want to adjust.

Scale H/V	Adjust the Horizontal/Vertical screen
	scale.
H&V	When set to <b>On</b> , the aspect ratio is fixed.
	Scale V appears dimmed and becomes
	unavailable. Adjust the 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 to all the inputs.
	Press the SELECT button at Common
	to display a confirmation box. To save
	the scale, press the SELECT button
	at Yes, When Custom is selected, the
	saved scale is used.
Reset	Reset the all adjusted values. Press
	the SELECT button at <b>Reset</b> to display

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**.

### Setting

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

- Press the MENU button to display the On-Screen Menu. Press the Point ▲ ▼ buttons to select 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 button to access the selected item.
- 3 Use the Point ▲ ▼ buttons to select the desired item and then press the SELECT button.

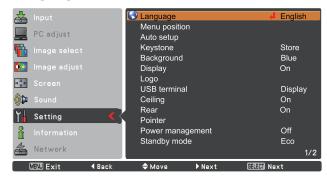
### **Setting Menu**

📥 Input	🔇 Language	
PC adjust	Menu position Auto setup	
Image select	Keystone Background	
🌆 Image adjust	Display	
💠 Screen	Logo USB terminal	
🕪 Sound	Ceiling	
🖬 Setting 💦 🔪	Rear Pointer	On
f Information	Power management	
A Network	Standby mode	Eco 1/2
MENU Exit 4	♦ Move ▶ Next	SELECT Next

#### Language

The language used in the On-Screen Menu is available in English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Finnish, Polish, Hungarian, Romanian, Russian, Chinese, Korean, Japanese and Thai.

#### Language



#### Menu position

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

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

the top left  $\rightarrow$  the top right  $\rightarrow$  the center  $\rightarrow$  the bottom left  $\rightarrow$  the bottom right  $\rightarrow$  the top left  $\rightarrow$ .....



#### Auto setup

This function enables Input search, Auto Keystone correction and Auto PC adjustment by pressing the AUTO SETUP/ CANCEL button on the top control or the AUTO SET/CANCEL 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  $\blacktriangle \lor$  buttons to select one of the following options.

- Off ..... Input search will not work.
- **On 1** ... Input search works under the following situation.
  - When pressing the AUTO SETUP/CANCEL button on the top control.
  - When pressing the AUTO SET/CANCEL 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 on the top control or the remote control.
  - When pressing the AUTO SET/CANCEL button on the remote control.
  - When pressing the AUTO SETUP/CANCEL button on the top 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/CANCEL button on the remote control or the AUTO SETUP/CANCEL button on the top control.
- Off ..... Disables Auto PC adjustment.

#### Auto Keystone

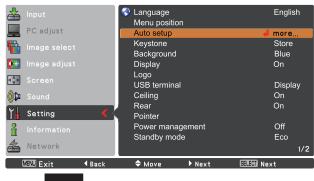
- Auto . . . . Always works and corrects keystone distortion according to the projector's tilt.
- Manual . . Works only when pressing the AUTO SETUP/ CANCEL button on the top control or the AUTO SET/CANCEL button on the remote control.
- **Off** ..... Disables Auto Keystone.

#### ✓Note:

While Input search 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 INPUT button on the top control or the COMPUTER, VIDEO or NETWORK buttons on the remote control is pressed during Input search is in progress, Input search will stop and go back to the previous input signal.

• Input search, Auto PC adj. and Auto Keystone can not be set Off at the same time.

#### Auto setup Menu





#### ✓Note:

- Auto Keystone corrects vertical distortion only, not correct horizontal distortion.
- The Auto Keystone function can not work when the **Ceiling** is set **On** in the Setting menu (p.54).
- Perfect correction of the image distortion can not be ensured with the Auto setup function. If the distortion is not corrected properly by pressing the AUTO SETUP/CANCEL button, adjust manually by pressing the KEYSTONE button on the remote control or selecting **Keystone** in the Setting menu (pp.27,50).
- Fine sync, Total dots, Horizontal and Vertical 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.35-36).

#### Keystone

This function is used to adjust keystone distortion of the projected image. Use the Point  $\blacktriangle \nabla$  buttons to choose the item you want to adjust.

#### Standard

Adjust the Horizontal/Vertical keystone distortion of the projected image.

#### Corner correction

Adjust the corner distortion of the projected image.

#### Corner pattern

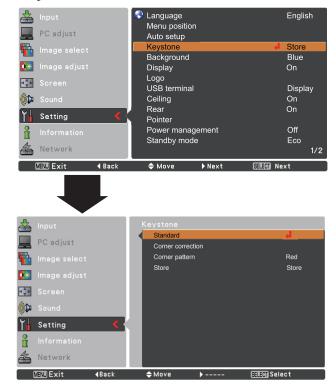
Choose a Corner pattern mode among **Red**, **White**, **Blue**, and **Off**.

#### Store

- 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.

Press the KEYSTONE button on the remote control to switch the Standard (for Vertical/Horizontal) /Corner correction adjustment. The Standard or Corner correction adjustment dialog box appears. Use the Point ▲ ▼ ◀ ► buttons to correct the Standard or Corner distortion (p.27).

#### **Keystone**



#### Background

Select the background screen for when no input signal is detected. Press the Point  $\blacktriangle \lor$  buttons to switch between each option.

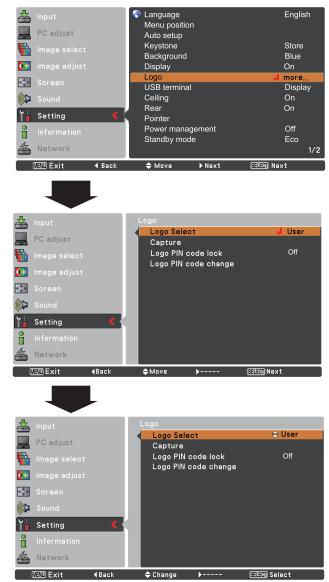
- Blue . . . Blue colored background.
- **User** . . . The image you captured.
- Black . . Black colored background.

#### Display

This function decides whether to display On-Screen Displays.

- Off ...... Hide the On-Screen Displays except; 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.
- 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 in this option.
  - On-Screen Menu
  - Power off? (p.23)
  - No signal for Power management (p.55)
  - Please wait ...
  - Arrows for the True function in the Screen Menu (p.39)
  - P-Timer

#### Logo select Menu



#### 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**, **capture** and **Logo PIN code change** 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.

#### 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 or when you press the NO SHOW button (see page 30).

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.37, 44).
- A signal from a computer can be captured up to XGA (1024 x 768). 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 is set to On, 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** can not be selected, you can only switch between **Default** and **Off**.

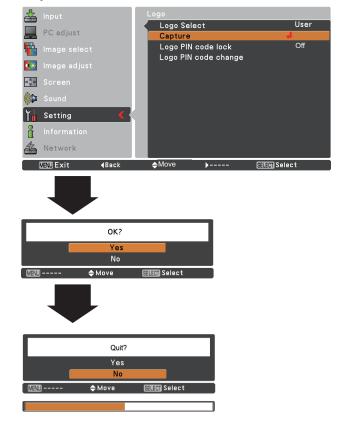
#### Logo PIN code lock

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

- Off ...... The screen logo can be changed freely from the Logo Menu (p.51).
- 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.

#### Capture



#### Logo PIN code lock



#### Enter a Logo PIN code

Use the Point  $\blacktriangle \lor$  buttons to enter a number. Press the Point  $\blacktriangleright$  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  $\triangleleft$  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 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  $\blacktriangle \lor$  buttons to switch **On** or **Off**, and then press the SELECT button to close the dialog box.

#### Logo PIN code change

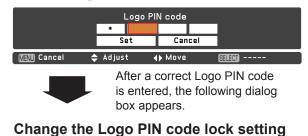
Logo PIN code can be changed to your desired four-digit number. Press the Point ▼ button to select **Logo PIN code change** and then press the SELECT button. The New Logo PIN code input dialog box appears. Set a new Logo PIN code.

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. For details on PIN code setting, refer to "PIN code lock" on pages 58-59.

#### CAUTION:

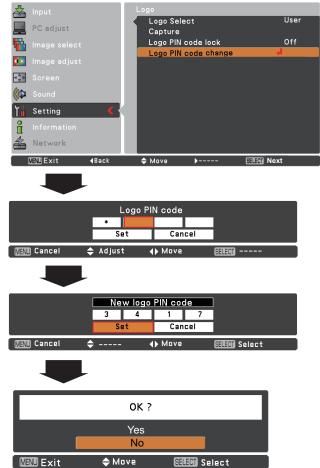
WHEN YOU HAVE CHANGED THE LOGO PIN CODE, WRITE DOWN THE NEW PIN CODE IN COLUMN OF THE LOGO PIN CODE NO. MEMO ON PAGE 81, AND KEEP IT SECURELY. SHOULD THE LOGO PIN CODE BE LOST OR FORGOTTEN, THE LOGO PIN CODE SETTING CAN NO LONGER BE CHANGED.

#### Enter a Logo PIN code





#### Change the Logo PIN code



#### USB Terminal

This function provides the following options for the USB terminal.

- **Mouse control** ... When using the remote control as a mouse control, set this option. (p.15)
- **Display** ... When using "USB display" function, set this option. The image and sound are sent to the projector by connecting the computer to the projector with a USB cable. Refer to the owner's manual of "Network Set-up and Operation For Windows".

#### 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.

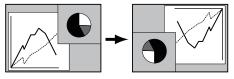
#### Rear

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.

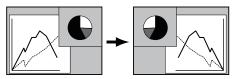
#### Pointer

You can emphasize a part of the projected image with this function. Use the Point ▲ ▼ buttons to choose **Spotlight** (Large, Middle or Small), Arrow, Finger or Dot and press the SELECT button. See "Pointer Function" on page 14.

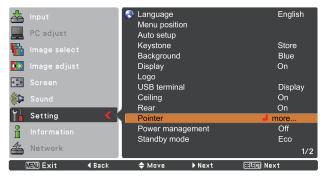
#### Ceiling



Rear



#### Pointer





#### 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 top control or 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.

#### 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.

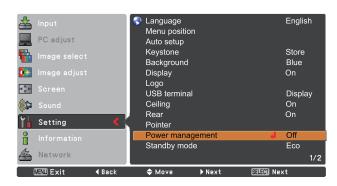
Refer to the owner's manual of "Network Set-up and Operation".

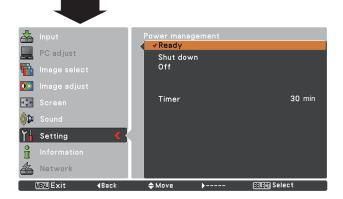
- ✓Note:
- Factory default is Network.
- When selecting **Network**, the cooling fans may be running depending on the temperature inside the projector even if the projector is turned off.
- When **Eco** is selected and the projector is in Standby, the communication of RS-232C serial port is not available.

#### **Power management**



Timer left before Lamp is off.









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:

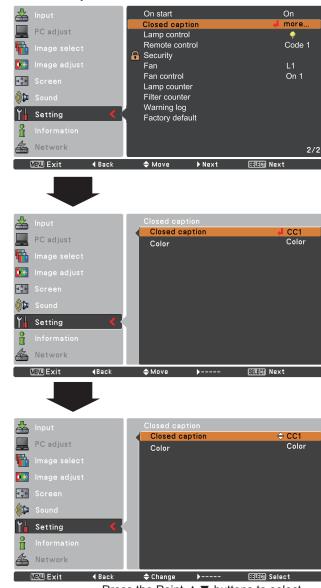
Be sure to turn off the projector properly (see "Turning Off the Projector" on page 23). If the projector is turned off in the incorrect sequence, the On start function does not work properly.

#### **Closed caption**

Closed Caption is a function that displays the audio portion of a TV program as text on the screen. If the input signal contains closed captions, you can turn on the feature and switch the channels. Press the Point  $\blacktriangle \forall$  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**.

#### **Closed Caption**



Press the Point  $\blacktriangle \lor$  buttons to select **Off, CC1, CC2, CC3** or **CC4**, and then Press the SELECT button.

#### ✓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.43)
- The icon of Closed caption is displayed in gray while it is not available.
- The Closed caption is unavailable when On-Screen menu and P-Timer are displayed.

#### Lamp control

This function allows you to change brightness of the screen.

- Wigh..... Brighter than the Normal mode.
- Pormal..... Normal brightness.
- Eco ..... Lower brightness reduces the lamp power consumption and extends the lamp life.

#### ✓Note:

Lamp mode can not be changed for a while after turning on the projector. Lamp needs some time to stabilize after the power is turned on. Stored lamp mode will be active after the lamp is stabilized.

#### Remote control

The eight different remote control codes (**Code 1-Code 8**) are assigned to the projector; the factory-set, initial code (**Code 1**) and the other seven codes (**Code 2** to **Code 8**). The same code should set on both the projector and the remote control. For example, operating the projector in **Code 7**, the remote control code also must be switched to **Code 7**.

#### To change the code for the projector

Select a remote control code in this Setting Menu.

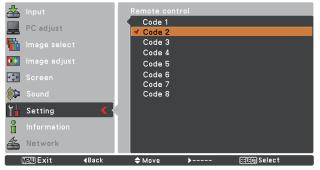
#### To change the code for the remote control:

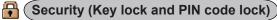
While holding down the MENU button, press the IMAGE button the number of times corresponding to the remote control code for the projector. See "Remote Control Code" on page 13.

#### ✓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.

#### Remote control





..... Unlocked.

This function allows you to use the Key lock and 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.



- ..... 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.
- On1 ...... Enter the PIN code every time turning on the projector.
- On2 ...... 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  $\blacktriangle \lor$  buttons to enter a number. Press the Point  $\blacktriangleright$  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  $\triangleleft$  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.

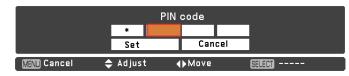
#### Change the PIN code lock setting

Use the Point ▲▼ buttons to select **Off**, **On1** or **On2**. Press the SELECT button to close the dialog box.

#### PIN code change

The PIN code can be changed to your desired fourdigit number. Press the Point ▼ button to select **PIN code change** and press the SELECT button. The New PIN code input dialog box appears. Set a new PIN code.

#### Enter a PIN code

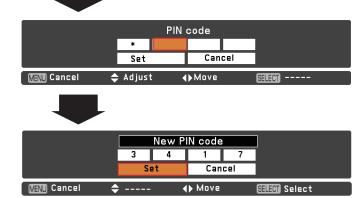


#### Change the PIN code



#### CAUTION:

WHEN YOU HAVE CHANGED THE PIN CODE, WRITE DOWN THE NEW PIN CODE IN COLUMN OF THE PIN CODE NO. MEMO ON PAGE 81, 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.23).

- L1 ..... Normal operation
- L2 ..... Slower and lower-sound than the normal operation (L1), but it takes more time to cool the projector down.

#### 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.
- **On 3**....Be sure to set the Lamp control in High and the Fan control in **On 3** when using the projector inclined at between +40 degrees to +140 degrees to the horizontal plane at altitudes between 0 and approximately 1,600 meters above sea level.

#### ✓Note:

- The fan noise becomes louder in On 1, On 2 and On 3.
- Setting Fan control to **On 1**, **On 2** or **On 3** affects **L 2** operation in Fan.

#### 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

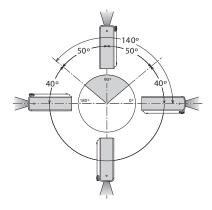
recommended total hours of use, the Lamp replacement icon (Fig.1) will appear on the screen, indicating that the end of lamp life is reached.

When replacing the projection lamp, reset lamp counter. See "Resetting the Lamp Counter" on page 67.

#### ✓ Note:

The Lamp replacement icon (Fig.1) will not appear when the Display function is set to **Off** (p.51), during "Freeze" (p.29) or "No show" (p.30).

#### **Fan Control Setting**



#### 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.

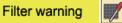
Filter counter

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

When the projector reached a specified time between cleanings, a Filter warning icon appears on the screen, notifying the cleaning is necessary. After cleaning the filter, be sure to select **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 64.

#### Fig.1 Filter warning icon



Filter warning icon appears on the screen at a set time.

#### ✓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.51), during "Freeze"(p.29), or "No show" (p.30).

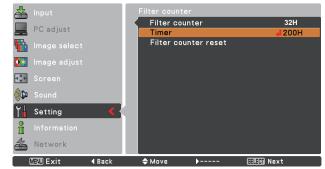
#### Warning log

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:

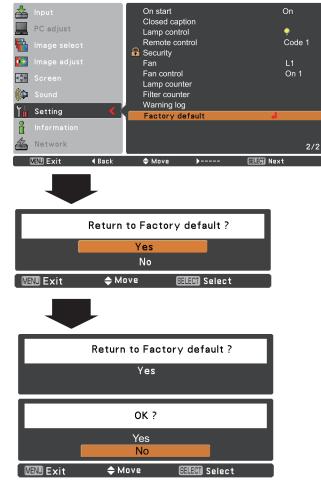
When the Factory default function is executed, all the warning log records will be deleted.

#### Filter counter



Press the SELECT button to select **Timer** and then use the Point ▲ ▼ buttons to set the timer. Select from (**Off/100H/ 200H/ 300H**) depending on the use environment.

#### Factory default



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.

# Information

### **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 **Information**. The Information Menu is displayed.

See below for displayed information.

#### 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.

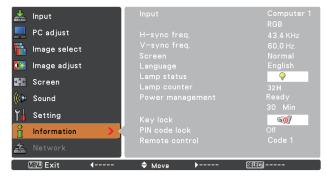
#### PIN code lock

Off , On 1 or On 2 is displayed.

#### Remote control

The selected remote code is displayed.

#### Information Menu



### **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 POWER ON/STAND-BY button.

#### ✓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.
- Are the filters clean? Clean the filters periodically.

# 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 station.



**CAUTION** 

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

#### **Top Control**



### **Top Control**



### **Cleaning the Filters**

Filter prevents dust from accumulating on the optical elements inside the projector. Should the filters 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, clean the filters immediately. Clean the filters by following the steps below.

- 1 Turn off the projector, and unplug the AC power cord from the AC outlet.
- **2** Turn the projector over and remove the filters by pulling the latches upward.
- **3** Gently clean the filters by using a brush or rinse them softly.
- 4 When rinsing the filters, dry them well. Replace the filters properly. Make sure that the filters are fully inserted to the projector.

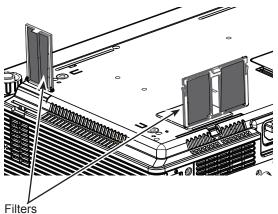


#### **CAUTION**

Do not operate the projector with the filters 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.

#### 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 station for proper cleaning.



Pull up and remove.

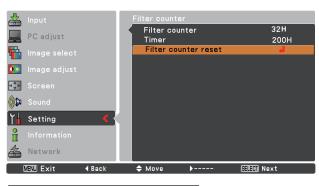
✓Note:

When reinserting these filters, be sure that the slit part is facing the outer side.

#### **Resetting the Filter Counter**

Be sure to reset the Filter counter after cleaning or replacing the filters.

- 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.

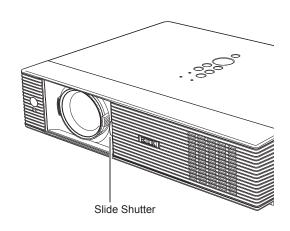
Select **Yes** again to reset the Filter counter.

### **Slide Shutter**

Slide Shutter is provided to protect the surface of the lens against scratches and dirt. When you are not using the projector, close the Slide Shutter.

To open or close, slide the Slide Shutter on the front of the cabinet.

Do not close the shutter when the projection lamp is on.



### **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.

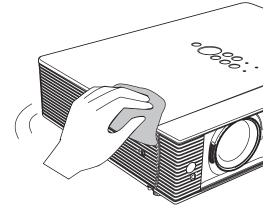
Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents or other harsh chemicals might scratch the surface of the lens.

### **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

#### ✓Note:

The Lamp replacement icon will not appear when the Display function is set to **Off** (p.51), during "Freeze" (p.29), or "No show" (p.30).



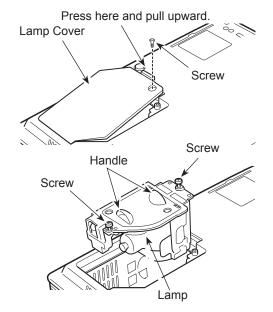
Allow a projector to cool for at least 45 minutes before you open the Lamp Cover. The inside of the projector can become very hot.



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



### ORDER REPLACEMENT LAMP

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

- Model No. of your projector
- : LC-XB43N
- Replacement Lamp Type No.
- : POA-LMP111
- (Service Parts No. 610 333 9740)

### Top Control

Lamp replacement



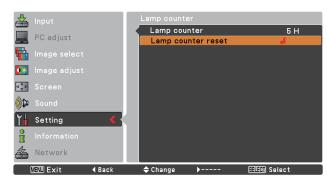
### **Resetting the Lamp Counter**

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.

- 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.

#### ✓ Note:

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





Lamp replacement counter Reset? appears. Select Yes, then another confirmation box appears.

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

# LAMP HANDLING PRECAUTIONS

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

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

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

If a lamp explodes, disconnect the projector's AC plug from the AC outlet immediately. Contact an authorized service station 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 17-19. -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	<ul> <li>Plug the power cord of the projector into the AC outlet.</li> <li>See if the POWER indicator lights red.</li> <li>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 21.</li> <li>Check the WARNING indicator. If the WARNING indicator lights red, projector can not be turned on. See page 63.</li> <li>Check the projection lamp. See page 66.</li> <li>Unlock the Key lock function for the projector. See page 58.</li> </ul>			
The initial display is not shown.	<ul> <li>Make sure Off or Countdown off is not chosen at display function. See page 51.</li> </ul>			
The initial display is not same as the default set.	<ul> <li>Make sure User or Off is not chosen at Logo (select) function. See page 51.</li> </ul>			
Input signal switches automatically. (or does not switch automatically)	– Make sure Input search function is adjusted properly. See page 49.			
When the projector is on and you press the input button, an icon other than the Lamp mode icon appears.	– That is the Filter warning icon. See page 61.			
An icon other than Input mode or Lamp mode icon appears.	<ul> <li>That is the Lamp replacement icon or the Filter warning icon. See pages 60, 61.</li> </ul>			
Image is out of focus.	<ul> <li>Adjust focus of the projector. See page 26.</li> <li>Provide proper distance between the projector and the projection screen. See page 16.</li> <li>Check the projection lens to see if it needs cleaning. See page 65.</li> <li>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.</li> </ul>			
Image is Left/Right reversed. Image is Top/Bottom reversed.	<ul> <li>Check the Ceiling/Rear function. See page 54.</li> <li>Check the Ceiling function. See page 54.</li> </ul>			
Picture is not bright enough.	<ul> <li>Check if the Contrast or Brightness are adjusted properly. See pages 38, 45.</li> <li>Check if Image mode is selected properly. See pages 37, 44.</li> <li>Check the lamp control function. See pages 29, 57.</li> <li>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 66.</li> </ul>			

No image	<ul> <li>Check the connection between your computer or video equipment and the projector. See pages 17-19.</li> <li>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.</li> <li>It takes about 30 seconds to display an image after turning on the projector. See page 21.</li> <li>Check the Input signal, color system, video system or computer system mode.</li> <li>Make sure the temperature is not out of the specified Operating Temperature (41°F-95°F [5°C-35°C]).</li> <li>When No Show function is operating, the image can not be displayed. Press the NO SHOW button or any other button on the remote control.</li> </ul>
No sound	<ul> <li>Check the audio cable connection from audio input source.</li> <li>Adjust the audio source.</li> <li>Press the Volume + button. See page 28.</li> <li>Press the Mute button. See page 28.</li> <li>When the AUDIO OUT is plugged-in, the projector's built-in speaker is not available.</li> <li>Is the image projected? You will hear the sound only when the image is projected.</li> </ul>
The color is strange.	<ul> <li>Check the Input signal, color system, video system or computer system mode.</li> <li>Make sure <b>Blackboard</b> is not selected on Image select menu. See pages 37, 44.</li> </ul>
Some displays are not seen during the operation.	– Check the Display function. See page 51.
Auto PC adjustment function does not work.	<ul> <li>Check the Input signal. Auto PC adj.function can not work when 480p, 575p, 720p, 480i, 575i, 1035i or 1080i is selected or when the signal is coming from the DVI terminal. (See page34).</li> </ul>
The setting does not remain after turning off power.	<ul> <li>Make sure you selected Store after adjusting setting. Some settings can not be stored if not registered with Store. See page 39, 46.</li> </ul>
Power management does not work.	<ul> <li>Power management function can not work while Freeze or No Show function is running. See page 55.</li> </ul>
Capture function does not work.	- Check the connection and the input signal to see if there is signal.
Auto setup does not work properly.	<ul> <li>Make sure Off is not selected at any function of "Auto setup".</li> <li>See page 49.</li> <li>Make sure On is not selected at the Ceiling function. See page 54.</li> </ul>
Auto keystone function does not work even when the projector is tipped.	<ul> <li>Make sure the Auto keystone function is not set to Manual. Press the AUTO SETUP/CANCEL button on the top control. See pages 26,49.</li> </ul>

# Appendix

The image is distorted or runs off.	<ul> <li>Check PC adjustment or Screen and adjust them.</li> <li>See pages 35-36, 39-40.</li> </ul>
PIN code dialog box appears at start-up.	<ul> <li>– PIN code lock is being set. Enter a PIN code ("1234" or numbers you have set). See pages 22, 58-59.</li> </ul>
Page Up/Down function does not work.	<ul> <li>Make sure your computer is connected to the projector with USB cable. See page 17.</li> </ul>
The Remote Control does not work.	<ul> <li>Check the batteries.</li> <li>Make sure no obstruction is between the projector and remote control.</li> <li>Make sure you are not too far from the projector when using the remote control. Maximum operating range is 16.4'(5 m).</li> <li>Make sure the code of the remote control is conformed to the projector's code. See page 57.</li> <li>Unlock the Key lock function for the remote control function. See page 58.</li> <li>Check RESET/ON/ALL-OFF switch on the remote control is set to <b>ON</b>. See page 12.</li> </ul>
Indicator blinks or lights.	<ul> <li>Check the status of the projector with referring to "Indicators and projector Condition". See page 74.</li> </ul>
Wireless Mouse function does not work.	<ul> <li>Check the connection between the projector and your computer.</li> <li>Check the mouse setting on you computer.</li> <li>Make sure the mouse driver is installed on your computer, otherwise, the remote control can not be used as a wireless mouse.</li> <li>Make sure the signal is from the computer, otherwise, the remote control can not be used as a wireless mouse.</li> <li>Turn on the projector before turning on the computer.</li> </ul>
The exclamation mark appears on the screen.	- Your operation is invalid. Operate correctly.
Top control does not work.	<ul> <li>The top control is not available if the top control is locked at Key lock under Security of Setting section. See page 58.</li> </ul>
Unable to unlock the Logo PIN code lock, Security key lock or Security PIN code lock.	<ul> <li>Contact the dealer where you purchased the projector or the service center.</li> </ul>

#### WARNING : High voltages are used to operate this projector. Do not attempt to open the cabinet.

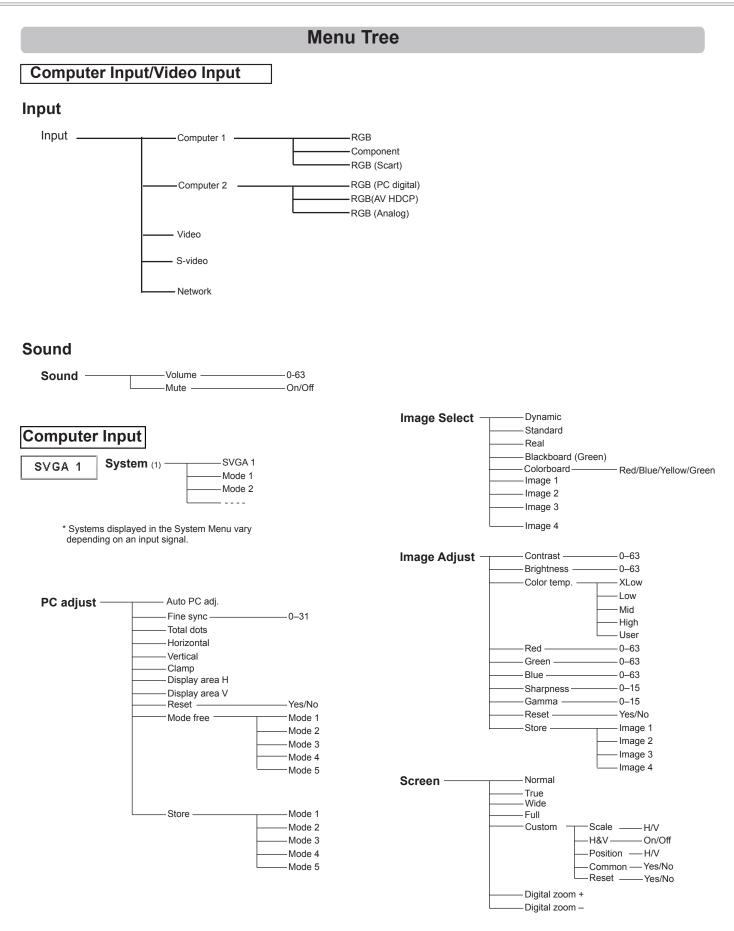
If problems still persist after following all operating instructions, contact the dealer where you purchased the projector or the service center. Specify the model number and explain about the problem. We will advise you how to obtain service.

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

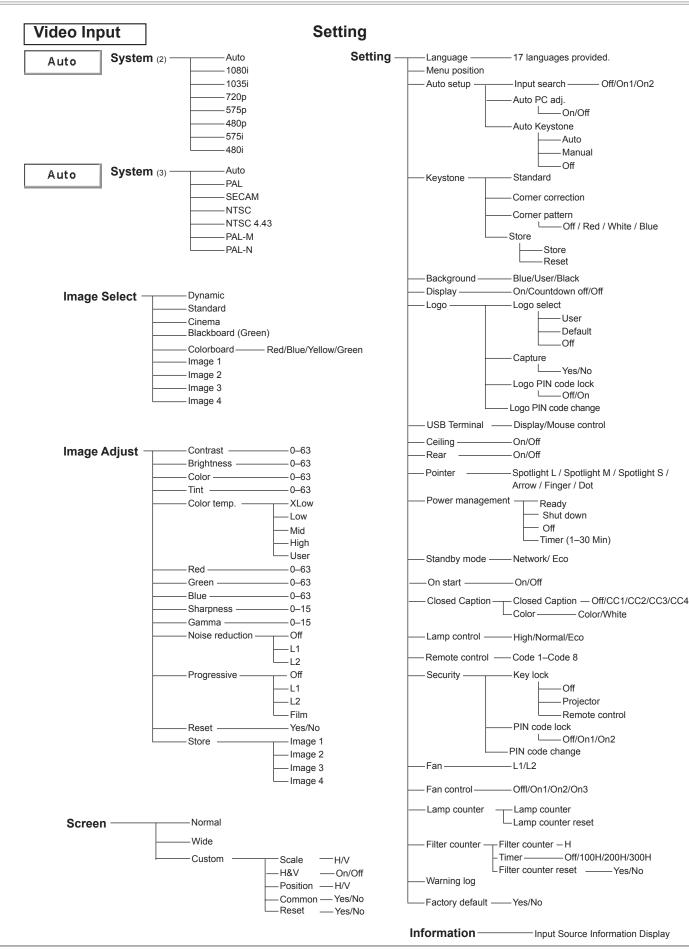


This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.

### Appendix



### Appendix



### **Indicators and Projector Condition**

Check the indicators for projector condition.

h	ndicator	S			
POWER red/green	WARNING red	LAMP REPLACE yellow	Projector Condition		
			The projector is off. (The AC power cord is unplugged.)		
$\bigcirc$	•	*	The projector is in stand-by mode. Press the ON/STAND-BY button to turn on the projector.		
0		*	The projector is operating normally.		
₩// Ø	•	*	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.		
	•	*	The projector is in the Power management mode.		
Ŵ	Ŵ	*	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.)		
		*	The projector has been cooled down enough and the temperature returns to normal. When turning on the projector, the WARNING indicator stops blinking.		
•	$\bigotimes$	*	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.		

 $\bigcirc \cdots$ green

🖉 🚥 red

••• off

 $\bigcirc^{\vee}$  • • • blinks green

 $\overset{\scriptstyle \ensuremath{\sc blinks}}{\overset{\scriptstyle \ensuremath{\sc blinks}}}{\overset{\scriptstyle \ensuremath{\sc blinks}}}}{\overset{\scriptstyle \ensuremath{\sc blinks$ 

\*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 for analog signal and 110 MHz of Dot Clock for digital signal. When selecting these modes, PC adjustment can be limited.

ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (KHz)	V-Freq. (Hz)	ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (KHz)	V-Freq. (Hz)
VGA 1	640 x 480	31.47	59.88	SXGA 1	1152 x 864	64.20	70.40
VGA 2	720 x 400	31.47	70.09	SXGA 2	1280 x 1024	62.50	58.60
VGA 3	640 x 400	31.47	70.09	SXGA 3	1280 x 1024	63.90	60.00
VGA 4	640 x 480	37.86	74.38	SXGA 4	1280 x 1024	63.34	59.98
VGA 5	640 x 480	37.86	72.81	SXGA 5	1280 x 1024	63.74	60.01
VGA 6	640 x 480	37.50	75.00	SXGA 6	1280 x 1024	71.69	67.19
VGA 7	640 x 480	43.269	85.00	SXGA 7	1280 x 1024	81.13	76.107
MAC LC13	640 x 480	34.97	66.60	SXGA 8	1280 x 1024	63.98	60.02
MAC 13	640 x 480	35.00	66.67	SXGA 9	1280 x 1024	79.976	75.025
480p	640 x 480	31.47	59.88	SXGA 10	1280 x 960	60.00	60.00
575p	768 x 575	31.25	50.00	SXGA 11	1152 x 900	61.20	65.20
480i	640 x 480	15.734	60.00 (Interlace)	SXGA 12	1152 x 900	71.40	75.60
575i	768 x 576	15.625	50.00 (Interlace)	SXGA 13	1280 x 1024	50.00	86.00 (Interlace)
SVGA 1	800 x 600	35.156	56.25	SXGA 14	1280 x 1024	50.00	94.00 (Interlace)
SVGA 2	800 x 600	37.88	60.32	SXGA 15	1280 x 1024	63.37	60.01
SVGA 3	800 x 600	46.875	75.00	SXGA 16	1280 x 1024	76.97	72.00
SVGA 4	800 x 600	53.674	85.06	SXGA 17	1152 x 900	61.85	66.00
SVGA 5	800 x 600	48.08	72.19	SXGA 18	1280 x 1024	46.43	86.70 (Interlace)
SVGA 6	800 x 600	37.90	61.03	SXGA 19	1280 x 1024	63.79	60.18
SVGA 7	800 x 600	34.50	55.38	SXGA 20	1280 x 1024	91.146	85.024
SVGA 8	800 x 600	38.00	60.51	SXGA+ 1	1400 x 1050	63.97	60.19
SVGA 9	800 x 600	38.60	60.31	SXGA+ 2	1400 x 1050	65.35	60.12
SVGA 10	800 x 600	32.70	51.09	SXGA+ 3	1400 x 1050	65.12	59.90
SVGA 11	800 x 600	38.00	60.51	MAC21	1152 x 870	68.68	75.06
MAC 16	832 x 624	49.72	74.55	MAC	1280 x 960	75.00	75.08
MAC 19	1024 x 768	60.24	75.08	MAC	1280 x 1024	80.00	75.08
XGA 1	1024 x 768	48.36	60.00	WXGA 1	1366 x 768	48.36	60.00
XGA 2	1024 x 768	68.677	84.997	WXGA 2	1360 x 768	47.70	60.00
XGA 3	1024 x 768	60.023	75.03	WXGA 3	1376 x 768	48.36	60.00
XGA 4	1024 x 768	56.476	70.07	WXGA 4	1360 x 768	56.16	72.00
XGA 5	1024 x 768	60.31	74.92	WXGA 6	1280 x 768	47.776	59.87
XGA 6	1024 x 768	48.50	60.02	WXGA 7	1280 x 768	60.289	74.893
XGA 7	1024 x 768	44.00	54.58	WXGA 8	1280 x 768	68.633	84.837
XGA 8	1024 x 768	63.48	79.35	WXGA 9	1280 x 800	49.600	60.050
XGA 9	1024 x 768	36.00	87.17 (Interlace)	WXGA 10	1280 x 800	41.200	50.00
XGA 10	1024 x 768	62.04	77.07	WXGA 11	1280 x 800	49.702	59.810
XGA 11	1024 x 768	61.00	75.70	WXGA 12	1280 x 800	63.98	60.02
XGA 12	1024 x 768	35.522	86.96 (Interlace)	WUXGA 1	1920 x 1200	74.556	59.885
XGA 13	1024 x 768	46.90	58.20	WUXGA 2	1920 x 1200	74.038	59.950
XGA 14	1024 x 768	47.00	58.30	WSXGA+1	1680 x 1050	65.290	59.954
XGA 15	1024 x 768	58.03	72.00	WXGA+1	1440 x 900	55.935	59.887
720p	1280 x 720	45.00	60.00	WXGA +2	1440 x 900	74.918	60.00
720p	1280 x 720	37.50	50.00	UXGA 1	1600 x 1200	75.00	60.00
1035i	1920 x 1035	33.75	60.00 (Interlace)	UXGA 2	1600 x 1200	81.25	65.00
1080i	1920 x 1080	33.75	60.00 (Interlace)	UXGA 3	1600 x 1200	87.5	70.00
1080i	1920 x 1080	28.125	50.00 (Interlace)	UXGA 4	1600 x 1200	93.75	75.00

When the input signal is Analog, refer to the chart below.

## Appendix

ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (KHz)	V-Freq. (Hz)	ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (KHz)	V-Freq. (Hz)
D-VGA	640 x 480	31.47	59.94	D-SXGA1	1280 x 1024	63.98	60.02
D-480p	640 x 480	31.47	59.88	D-SXGA2	1280 x 1024	60.276	58.069
D-575p	768 x 575	31.25	50.00	D-SXGA3	1280 x 1024	31.65	29.80
D-SVGA	800 x 600	37.879	60.32	D-720p	1280 x 720	37.50	50.00
D-XGA	1024 x 768	43.363	60.00	D-720p	1280 x 720	45.00	60.00
D-WXGA 1	1366 x 768	48.36	60.00	D-1035i	1920 x 1035	33.75	60.00 (Interlace)
D-WXGA 2	1360 x 768	47.7	60.00	D-1080i	1920 x 1080	33.75	60.00 (Interlace)
D-WXGA 3	1376 x 768	48.36	60.00	D-1080i	1920 x 1080	28.125	50.00 (Interlace)
D-WXGA 4	1360 x 768	56.160	72.000	D-WXGA+1	1440 x 900	55.935	59.887
D-WXGA 5	1366 x 768	46.500	50.000	D-SXGA+1	1400 x 1050	63.97	60.19
D-WXGA 6	1280 x 768	47.776	59.870	D-SXGA+2	1400 x 1050	65.350	60.120
D-WXGA 7	1280 x 768	60.289	74.893	D-SXGA+3	1400 x 1050	65.120	59.00
D-WXGA 8	1280 x 768	68.633	84.837	D-UXGA	1600 x 1200	75.00	60.00
D-WXGA 9	1280 x 800	49.572	59.870	D-WSXGA+1	1680 x 1050	65.290	59.954
D-WXGA 10	1280 x 800	41.200	50.00	D-WUXGA 2	1920 x 1200	74.038	59.950
D-WXGA 11	1280 x 800	49.702	59.810	]			
D-WXGA 12	1280 x 800	63.98	60.02	]			

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

#### ✓Note:

• The specifications are subject to change without notice.

### **Technical Specifications**

#### **Mechanical Information**

Projector Type Dimensions (W x H x D) Net Weight Feet Adjustment

#### **Panel Resolution**

LCD Panel System Panel Resolution Number of Pixels

#### **Signal Compatibility**

Color System SD/HD TV Signal Scanning Frequency

#### **Optical Information**

Projection Image Size (Diagonal) Throw Distance Projection Lens Projection Lamp

#### Interface

Video Input Jack S-video Input Jack Audio Input Jacks Computer 1 Component/ Computer 2 Audio Input Jacks Computer In 1/ Component Input Terminal MONITOR OUT Terminal Computer In 2/DVI-I Control port USB Connectors Audio Output Jack LAN Connection Terminal

#### Audio

Internal Audio Amp Built-in Speaker 1.0 W RMS 1 speaker, ø1.10" (28 mm)

#### Power

Voltage and Power Consumption

AC 100–120 V (4.1A Max. Ampere), 50/60 Hz (The U.S.A and Canada) AC 200–240 V (2.1A Max. Ampere), 50/60 Hz (Continental Europe and The U.K.)

#### **Operating Environment**

Operating Temperature Storage Temperature

#### **Remote Control**

Battery Operating Range Dimensions Net Weight Laser Pointer 41°F–95°F (5 °C–35 °C) 14°F–140°F (-10°C–60 °C)

AAA or LR03 Type x 2 5 m/±30° 45 mm (W) x 23 mm (H) x 145 mm (D) 3.5 oz 99 g (including batteries) Class II Laser (Max. Output: 1 mW/Wave length: 640–660 nm)

Multi-media Projector 13.16" x 3.09" x 10.30" (334.2 x 78.4 x 261.5mm) (Not including protrusions) 7.7 lbs (3.5 kg) 0° to 8.9°

0.8" TFT Active Matrix type, 3 panels 1,024 x 768 dots 2,359,296 (1024 x 768x 3 panels)

PAL, SECAM, NTSC, NTSC4.43, PAL-M, and PAL-N 480i, 480p, 575i, 575p, 720p, 1035i and 1080i H-sync. 15 kHz–100 kHz, V-sync. 50–100 Hz

Adjustable from 40" to 300" 3.1' (0.93 m) - 37.6' (11.47 m) F1.7–2.5 lens with f=19.2 mm–30.2 mm with manual zoom and focus 275 W

RCA Type x 1 Mini DIN 4 pin x 1 RCA Type x 2

Mini Jack x 2 Mini D-sub 15 pin x 1 Mini D-sub 15 pin x 1 Input DVI-I Terminal x 1 D-sub 9 pin x 1 USB connector (Series A x1, Series B x 1) Mini Jack (stereo) x 1 (variable) 100 Base-TX (100Mbps)/10 Base-T (10Mbps), RJ45

#### Accessories

- Owner's Manual (CD-ROM) Quick Reference Guide Safety Manual AC Power Cord Remote Control and Batteries VGA Cable PIN Code Label Network Application (CD-ROM) Soft Carrying Case USB thumb drive for Auto Capture Case (for USB thumb drive) Hook and Loop Fastener Remote control cable
- 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). This projector supports all commands defined by PJLink Class 1 and is verified conformance with PJLink Standard Class 1.

Projector Input		PJLink Input	Parameter
Computer 2 (An	alog)	RGB 1	11
Computer 2 RGB (PC digital)		DIGITAL 1	31
(Digital)	RGB (AV HDCP)	DIGITAL 2	32
	RGB	RGB 2	12
Computer 1	Component	RGB 3	13
	RGB (Scart)	RGB 4	14
Video	Video	VIDEO 2	22
1000	S-video	VIDEO 3	23
Network		NETWORK 1	51

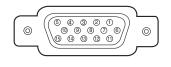
For PJ Link password, see page 53 on the owner's manual of "Network Set-up and Operation."

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



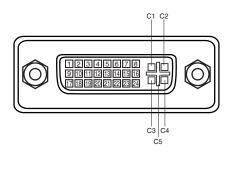
### **Configurations of Terminals**

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



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

#### COMPUTER 2 / DVI-I TERMINAL (DIGITAL/ANALOG)



	Analog Red Input
C2	Analog Green Input
C3	Analog Blue Input
C4	Analog Horiz. sync
C5	Analog Ground (R/G/B)

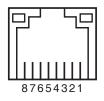
T.M.D.S. Data2-	9	T.M.D.S. Data1-	17	T.M.D.S. Data0-
T.M.D.S. Data2+	10	T.M.D.S. Data1+	18	T.M.D.S. Data0+
T.M.D.S. Data2 Shield	11	T.M.D.S. Data1 Shield	19	T.M.D.S. Data0 Shield
No Connect	12	No Connect	20	No Connect
No Connect	13	No Connect	21	No Connect
DDC Clock	14	+5V Power	22	T.M.D.S. Clock Shield
DDC Data	15	Ground (for +5V)	23	T.M.D.S. Clock+
Analog Vert. sync	16	Hot Plug Detect	24	T.M.D.S. Clock-
	T.M.D.S. Data2+ T.M.D.S. Data2 Shield No Connect No Connect DDC Clock DDC Data	T.M.D.S. Data2+10T.M.D.S. Data2 Shield11No Connect12No Connect13DDC Clock14DDC Data15	T.M.D.S. Data2+10T.M.D.S. Data1+T.M.D.S. Data2 Shield11T.M.D.S. Data1 ShieldNo Connect12No ConnectNo Connect13No ConnectDDC Clock14+5V PowerDDC Data15Ground (for +5V)	T.M.D.S. Data2+     10     T.M.D.S. Data1+     18       T.M.D.S. Data2 Shield     11     T.M.D.S. Data1 Shield     19       No Connect     12     No Connect     20       No Connect     13     No Connect     21       DDC Clock     14     +5V Power     22       DDC Data     15     Ground (for +5V)     23

#### **USB CONNECTOR (Series B)**

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1	Vcc
2	- Data
3	+ Data
4	Ground

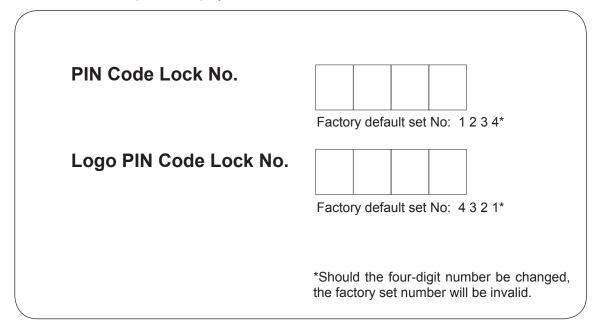
#### LAN TERMINAL



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

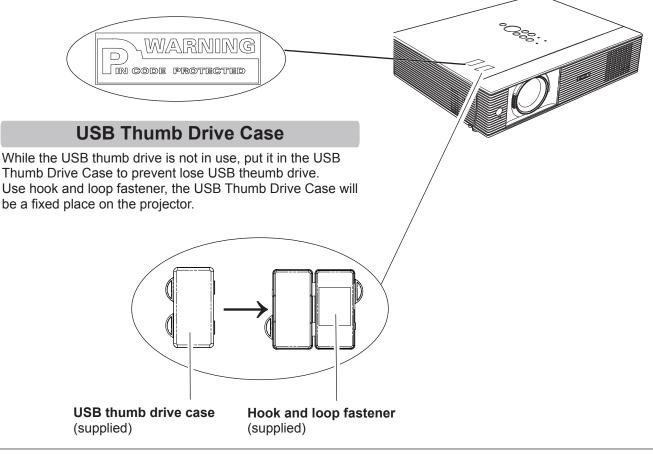
### **PIN Code Number Memo**

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 station.



While the projector is locked with the PIN code.

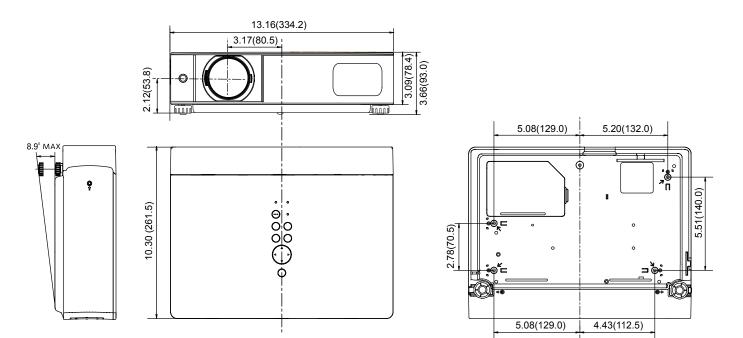
Put the label below (supplied) on in a prominent place of the projector's body while it is locked with a PIN code.



### Dimensions

Unit: inch(mm)

Screw Holes for Ceiling Mount Screw: M4 Depth: 0.472(12.0)



# EIKI

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