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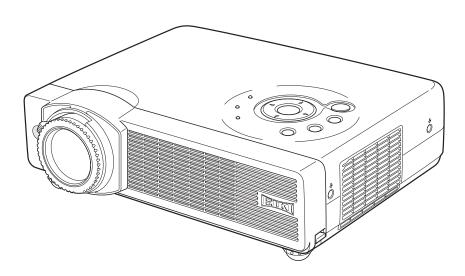
http://www.myprojectorlamps.ca

http://www.myprojectorlamps.eu

The following projector manual has not been modified or altered in any way.



MODEL LC-XB30



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 work anywhere you wish to use.

Compatibility

The projector widely accepts various video and computer input signals including; Computers, 6 Color systems (PAL/SECAM/NTSC4.43/PAL-M/PAL-N), Component video, S-video and RGB scart.

Simple Computer System Setting

The projector has the Multi-scan system to conform to almost all computer output signals quickly. (See page 28.)

Digital Zoom (for Computer)

The digital zoom function expands (to approx. 16 times of screen size) or compresses the image size, allowing you to focus on crucial information at a presentation. (See page 34.)

Power Management

The Power management function reduces power consumption and maintains the lamp life. (See page 45.)

User's Logo

A projected image can be captured and used for the starting display of the projector with the Capture function. You can also display the captured image in an interval during your presentation instead of blackout image with the No show function. (See page 25 and 44.)

Selectable Lamp Mode

Brightness of the projection lamp can be selected in the Setting menu. (See page 45.)

Blackboard Function

Blackboards* can be used as a projection screen. * The board color is limited to Green. (See page 32 and 38.)

Film Function

The Film function reproduces pictures faithful to the original film quality from 3-2 pull-down video contents. (See page 40.)

• PIN Code Lock Function

The PIN code lock function prevents others except users from using the projector. (See page 20 and 47.)

Multilanguage Menu Display

Operation menu is available in 12 languages; English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Russian, Chinese, Korean, or Japanese. (See page 42.)

• Switchable Interface Terminal

The projector provides a switchable interface terminal. You can use the terminal as computer input or monitor output conveniently. (See page 44.)

Auto Setup Function

For quick and easy setup of the projector, Auto setup function is provided. Vertical auto keystone correction and Auto PC adjustment is performed with just pressing one button. (See page 24 and 42.)

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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 operating this projector, read this manual thoroughly and operate the projector properly.

This projector provides many convenient features and functions. Operating the projector properly enables you to manage those features and maintains it in better condition for a considerable time.

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

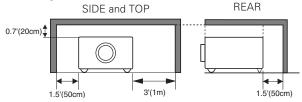
If your projector seems to operate improperly, read this manual again, check operations and cable connections and try the solutions in the "Troubleshooting" section in the end of this booklet. If the problem still persists, contact the dealer where you purchased the projector or the service center.



Safety Precaution

WARNING : 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 as possible. Eye damage could result. Be especially careful that children do not stare directly into the beam.
- Install the projector in a proper position. If not, it may result in a fire hazard.
- Provide appropriate space on the top, sides and rear of the projector cabinet for allowing air circulation and cooling the projector. Minimum clearance must be maintained. If the projector is to be built into a compartment or similarly enclosed, the minimum distances must be maintained. Do not cover the ventilation slot on the projector. Heat buildup can reduce the service life of your projector, and can also be dangerous.



- Do not put any flammable object or spray can near the projector, hot air is exhausted from the ventilation holes.
- If the projector is not to be used for an extended time, unplug the projector from the power outlet.

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

CAUTION

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

Ne peut être utilisé dans une salle d'ordinateurs telle que définie dans la norme ANSI/NFPA 75 Standard for Protection of Electronic Computer/Data Processing Equipment

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 airconditioning 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.

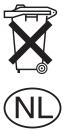
Do not attempt to service this projector yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

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.



Voor de klanten in Nederland

Bij dit produkt zijn batterijen geleverd.

Wanneer deze leeg zijn, moet u ze niet weggooien maar inleveren als KCA.

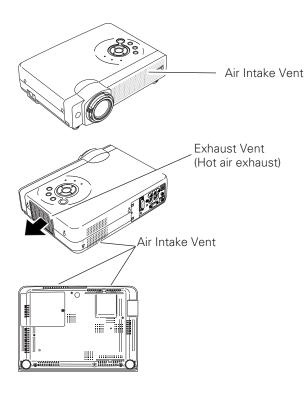
Air Circulation

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

Hot air is exhausted from the exhaust vent. When using or installing the projector, the following precautions should be taken.

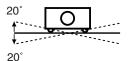
- Do not put any flammable objects near the vent.
- Keep the exhaust vent at least 3'(1m) away from any objects.
- Do not touch a peripheral part of the exhaust vent, especially screws and metallic part. This area will become hot while the projector is being used.
- Do not put anything on the cabinet. The materials put on the cabinet will not only get damaged but also cause fire hazard by heat.

Cooling fans are provided to cool down the projector. This projector monitors internal temperature and control the running speed of the cooling fans.



Installing the Projector in Proper Position

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



Do not tilt the projector more than 20 degrees above and below.



Do not point the projector up to project an image.



Do not point the projector down to project an image.



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

Moving the Projector

When moving the projector, replace the Lens Cover and retract Adjustable Feet to prevent damage to the lens and cabinet.

When the projector is not in use for an extended period, put it into the supplied case (carrying bag) with lens side up.

Carrying Bag (supplied) is intended for protection from dust and scratches on the surface of the cabinet, and it is not designed to protect the appliance from external forces. Do not transport the projector through a courier or transport services with this bag, 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.

USE 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 using a courier or transport service in an unsuitable transport case. This may cause damage to a projector. To transport the projector through a courier or transport service, consult your dealer for their information.

Federal Communication 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.

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

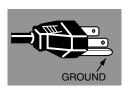
AC POWER CORD REQUIREMENT

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

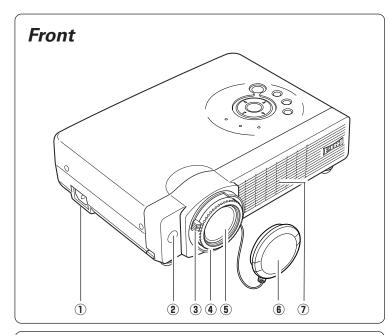
AC Power Cord for the United States and Canada :

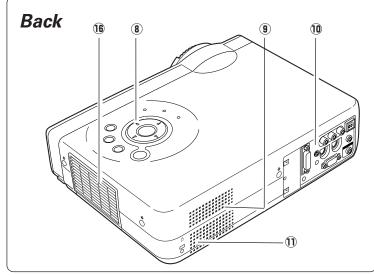
AC Power Cord used in the United States and Canada is listed by the Underwriters Laboratories (UL) and certified by the Canadian Standard Association (CSA).

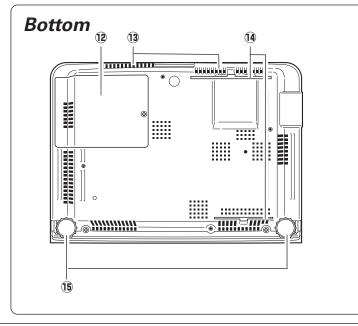
AC Power Cord has a grounding-type AC line plug. This is a safety feature to be sure that the plug will fit into the power outlet. Do not try to defeat this safety feature. Should you be unable to insert the plug into the outlet, contact your electrician.



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







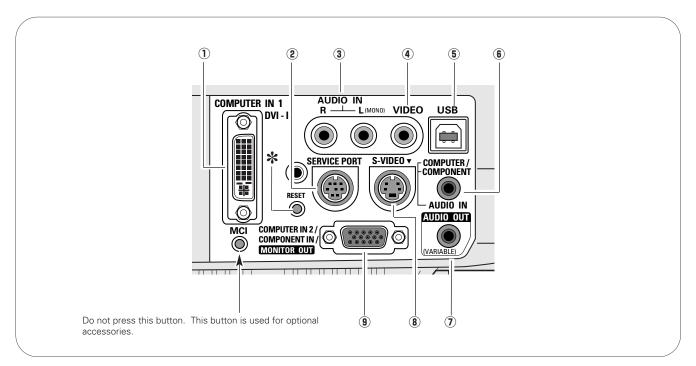
- 1 Power Cord Connector
- 2 Infrared Remote Receiver
- 3 Zoom Lever
- 4 Focus Ring
- **(5)** Projection Lens
- (6) Lens Cover (See page 50 for attaching.)
- **7** Air Intake Vent
- **(8)** Top Controls and Indicators
- (9) Air Intake Vent
- 10 Terminals and Connectors
- 1 Speaker
- 12 Lamp Cover
- **13** Air Intake Vent (back and bottom)
- 14 Air Filter
- **15** Adjustable Feet

16 Exhaust Vent



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

Rear Terminal



1) COMPUTER IN 1 DVI-I

Connect output signal from a computer (Digital/Analog DVI-I type) or Multi Card Director (optional) to this terminal. (p17)

2 SERVICE PORT

This jack is used to service this projector.

3 AUDIO IN

Connect the audio output from video equipment connected to (4) or (8) to this jack. (When the audio output is monaural, connect it to L (MONO) jack.) (p18)

(4) VIDEO

Connect the composite video output from video equipment to VIDEO jack. (p18)

5 USB (Series B)

When operating the connected computer with the remote control, connect USB port of your computer to this connector with a USB cable. (p17)

6 AUDIO IN COMPUTER/ COMPONENT

Connect the audio output (stereo) from a computer or video equipment connected to 1 or 9 to this jack. (p17, 19)

⑦ AUDIO OUT(VARIABLE)

Connect an external audio amplifier to this jack. (p17- 19) This terminal outputs sound from AUDIO IN terminal (③ or ⑥).

8 S-VIDEO

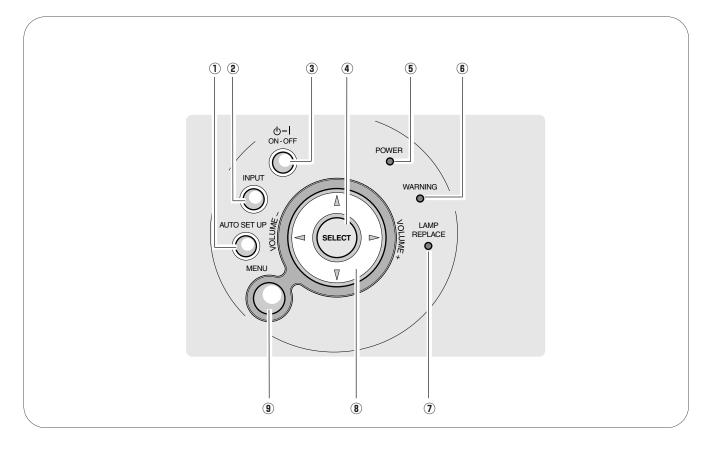
Connect the S-VIDEO output from video equipment to this jack. (p18)

9 COMPUTER IN 2/ COMPONENT IN/ MONITOR OUT

This terminal is switchable and can be used for input from a computer, video equipment (Component or RGB Scart) or output to the other monitor. Optional cables are required when using this terminal as component input or RGB Scart 21-Pin Video input. (p61) Set the terminal up as either Computer input or Monitor output properly. (Used for Monitor out, this terminal outputs only incoming signal from COMPUTER IN 1 DVI-I terminal.) (p17, 19, 44)

A built-in micro processor which controls this unit may occasionally malfunction and need to be reset. This can be done by pressing the RESET button with a pen, which will shut down and restart the unit. Do not use the RESET function excessively.

Top Control



1 AUTO SETUP button

Correct vertical keystone distortion and adjust computer display parameters including Fine sync., Total dots and Picture position. (p24, 42)

2 INPUT button

Select the input source. (p27, 360)

③ POWER ON–OFF button

Turn the projector on or off. (p20, 21)

④ SELECT button

Execute the item selected. It is also used to expand/ compress the image in Digital zoom +/- mode. (p34)

5 POWER indicator

Blink red until the projector gets ready to be turned on. It turns red when the projector is in the stand-by mode. It remains green while the projector is under operation. (p58)

6 WARNING indicator

Emit red light when the projector detects abnormal condition. This also blinks red when the internal temperature of the projector exceeds the operating range. (p49, 58)

⑦ LAMP REPLACE indicator

Turn yellow when the life of the projection lamp draws to an end. (p52, 58)

⑧ POINT (▲▼◀►) buttons

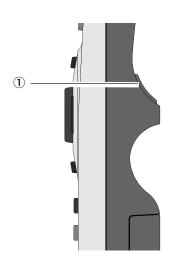
Select an item or adjust the value in the On-Screen Menu. These are also used to pan the image in the Digital zoom + mode. (p34) Point ◀▶ buttons are used as VOLUME +/- buttons.

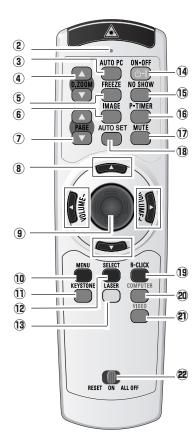
(p26) (p26)

9 MENU button

Open or close the On-Screen Menu. (p22)

Remote Control





1 L-CLICK button

Act as left click for wireless mouse operation. (p13)

2 SIGNAL EMISSION indicator

This indicator emits red light 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.

③ AUTO PC button Operate the Auto PC adjustment function. (p29)

(4) D.ZOOM button

Select the Digital zoom +/- mode and resize the image. (p34)

5 FREEZE button

Freeze the projected picture. (p25)

6 IMAGE button

Select image levels. (p32, 38)

⑦ PAGE UP/DOWN button

Turn pages; the Up button to the previous page and the Down button to the next page for an image from a computer. Connect the projector and your computer with a USB cable before use. (p 17.)

⑧ POINT (▲▼◀►) buttons

Select an item or adjusts value in the On-Screen Menu. These are also used to pan the image in the Digital zoom + mode. (p34)

Point ◀▶ buttons are also used as VOLUME +/- buttons. (p26)

9 PRESENTATION POINTER button

Move a pointer of the projector or a pointer for wireless mouse operation. (p12, 13)

10 MENU button

Open or close the On-Screen Menu. (p22)

${\scriptstyle \textcircled{1}}$ KEYSTONE button

Correct the keystone distortion. (p25, 42)

2 SELECT button

Execute the item selected, or to expand or compress image in the Digital zoom +/- mode. (p34)

13 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. This button is also used as a switching button to activate the Pointer function of the projector. (p12)

1 POWER ON-OFF button

Turn the projector on or off. (p20, 21)

15 NO SHOW button

Turn the picture into black image. (p25)

16 P-TIMER button

Operate the P-Timer function. (p26)

1 MUTE button

Mute the sound. (p26)

18 AUTO SET button

Correct vertical keystone distortion and adjusts PC display parameters. (p24, 42)

19 R-CLICK button

Act as right click for wireless mouse operation. (p13)

20 COMPUTER button

Select the input source (COMPUTER 1 or COMPUTER 2). (p27, 36)

2 VIDEO button

Select the input source (VIDEO). (p35)

2 RESET/ON/ALL-OFF switch

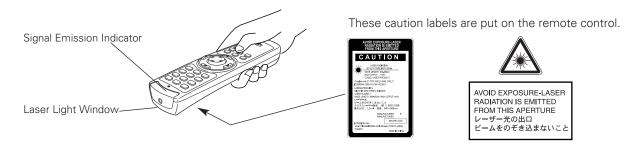
When using the remote control, set this switch to "ON." Set it to "ALL OFF" for power saving when it is not used. Slide this switch to "RESET" to initialize the remote control code or switch Spotlight and Pointer back to Laser pointer. (p12, 14)

Laser Pointer Function

This remote control emits a laser beam from the laser light window. With the LASER button pressed, laser light goes on. The signal emission indicator emits red light and laser is emitted with red light. With the LASER button pressed for more than 1 minute or released, the light goes off.

The laser emitted is a class II laser. Do not look into the laser light window or shine the laser beam on yourself or other people. Below are the caution labels for laser beam.

CAUTION: Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. Do not look into the laser light window while laser is emitted, otherwise eye damage may result.

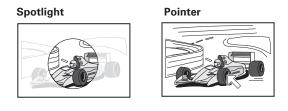


Pointer Function

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

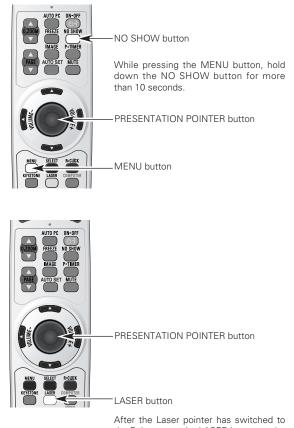
- With pressing the MENU button, hold down the NO SHOW button for more than 10 seconds so that the Pointer function will be available. (The Laser pointer has switched to the Pointer.)
- 2 Press the LASER button on the remote control toward the projector. Spotlight or Pointer is displayed on the screen with the LASER button lighting green. Then move the Spotlight or Pointer with the PRESENTATION POINTER button. If the LASER button does not emit green light and still emits laser beam, try the procedure above until the LASER button emits green light.
- **3** To clear the Spotlight or Pointer out from the screen, press the LASER button toward the projector and see if the LASER button lighting turns off.

To switch back to the Laser pointer again, hold down the NO SHOW button with pressing the MENU button for more than 10 seconds or slide the RESET/ON/ALL-OFF switch to "RESET". (p11) When you reset the Pointer function, the remote control code will be reset, as well.



Note:

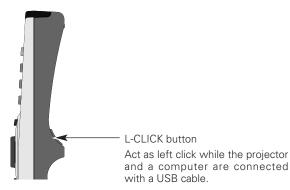
You can choose the size of Spotlight (Large, Middle, and Small) and the pattern of Pointer (Arrow, Finger, and Dot) in the Setting Menu. See "Pointer" on page 46.



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

Wireless Mouse Operation

The remote control can be used as a wireless mouse for your computer. Before operating the wireless mouse, connect your computer and the projector with the supplied USB cable. (See page 17 for connection.) When the Pointer function is used, the wireless mouse is not available.





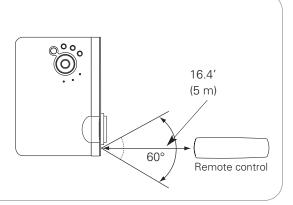
_PRESENTATION POINTER button Move the pointer on the screen with this button.

R-CLICK button

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

Operating Range

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

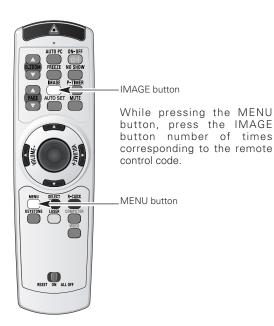


Remote Control Code

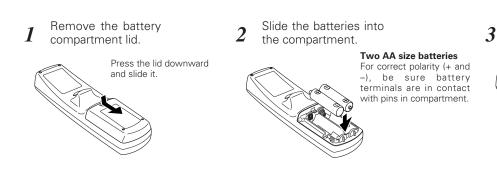
This projector has eight different remote control codes (Code 1-Code 8). Switching remote control codes prevents remote control interference when operating several projectors or video equipment at the same time. Change the remote control code for the projector first before changing that for the remote control. See "Remote control" in Setting on page 46.

- With holding down the MENU button, press the IMAGE button. The code switches sequentially for one pressing the IMAGE button. (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 Code 1. (p11)

Remote Control Code	Number of Times of 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



Remote Control Battery Installation



Replace the compartment lid.



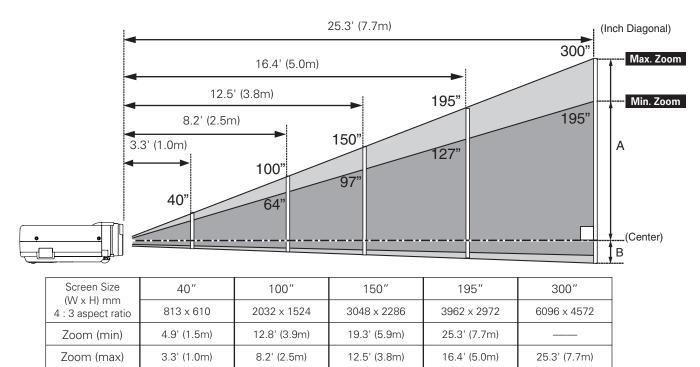
To insure safe operation, please observe the following precautions :

- Use (2) AA, UM3 or LR6 type alkaline batteries.
- Replace two batteries at the same time.
- 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 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.

Positioning the Projector

This projector is designed to project on a flat projection surface and can be focused from 3.3'(1.0m) - 25.3'(7.7m). Refer to the figure and the table below for the screen size and the distance between the projector and the screen.

A: B = 9:1



Note:

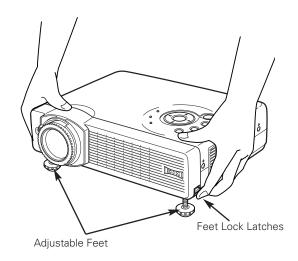
• The brightness in the room has a great influence on picture quality. It is recommended to limit ambient lighting in order to obtain the best image.

• The values shown above are approximate and may vary from the actual sizes.

Adjustable Feet

Projection angle can be adjusted up to 11.8 degrees with the adjustable feet.

- *I* Lift the front of the projector and pull upward the feet lock latches on both sides of the projector.
- 2 Release the feet lock latches to lock the adjustable feet and rotate the adjustable feet to adjust the position and tilt.
- **3** To retract the adjustable feet, lift the front of the projector and pull and undo the feet lock latches. Keystone distortion of the projected image can be adjusted automatically with Auto setup function or manually with the remote control or the menu operation. (p24, 25, and 42)



Connecting the AC Power Cord

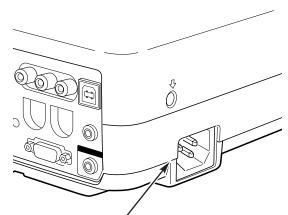
This projector uses nominal input voltages of 100-120 V or 200-240 V AC. This projector automatically selects the correct input voltage. It is designed to work with single-phase power systems having a grounded neutral conductor. To reduce risk of electrical shock, do not plug into any other type of power system.

Consult your authorized dealer or service station if you are not sure of the type of power being supplied.

Connect the projector with all peripheral equipment before turning the projector on. (See page 17-19 for connection.)

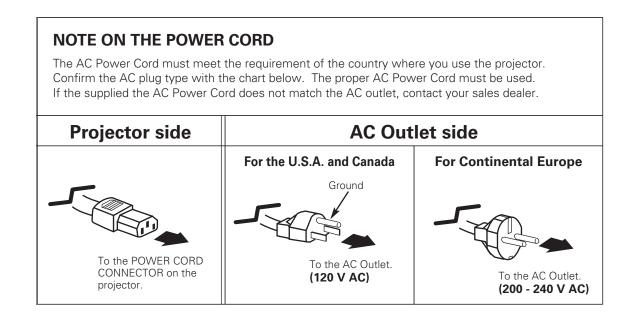


For safety, unplug the AC power cord when the projector is not in use. When this projector is connected to an outlet with the AC power cord, it is in Stand-by mode and consumes a little electric power.



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

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

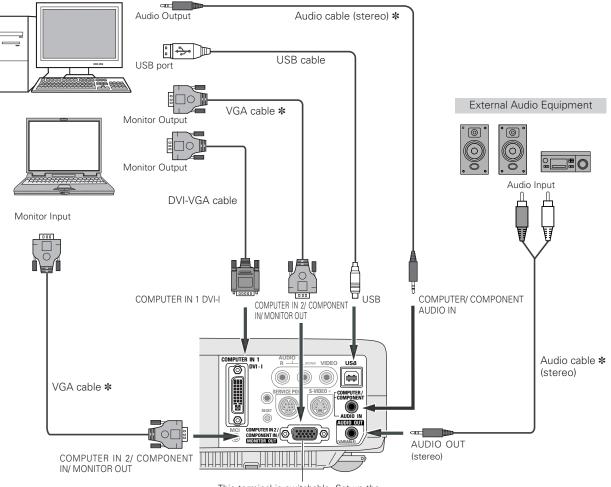


Connecting to a Computer

Cables used for connection

- VGA Cable (HDB 15 pin) *
- DVI-VGA Cable (HDB 15 pin)
- USB Cable
- Audio Cables (Mini Plug: stereo)

(* = Not supplied with this projector.)



This terminal is switchable. Set up the terminal as either Computer input or Monitor output. (See Page 44.)

✔Note:

- When connecting AUDIO OUT to external audio equipment, the projector's built-in speaker is disconnected.
- See p61 for ordering the optional parts.



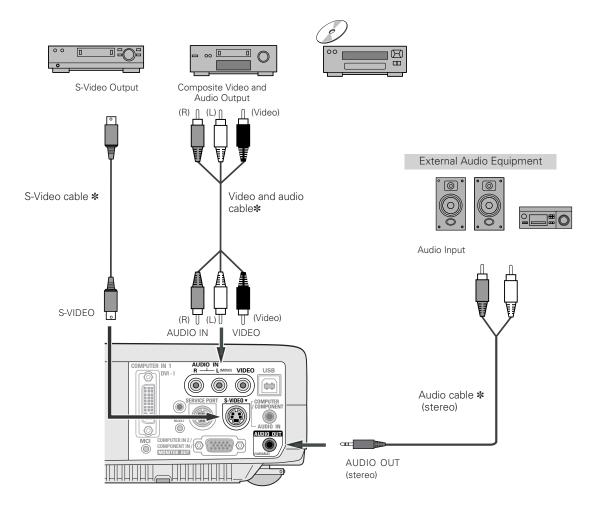
Note:

When connecting the cable, the power cords of both the projector and the external equipment should be disconnected from AC outlet.

Connecting to Video Equipment

Cables used for connection

- Video and Audio Cable (RCA x 3) *
- S-VIDEO Cable *
- Audio Cable (Mini Plug: stereo) *
- (* = Not supplied with this projector.)



Note:

- When connecting AUDIO OUT to external audio equipment, the projector's built-in speaker is disconnected.
- See p61 for ordering the optional parts.



Note:

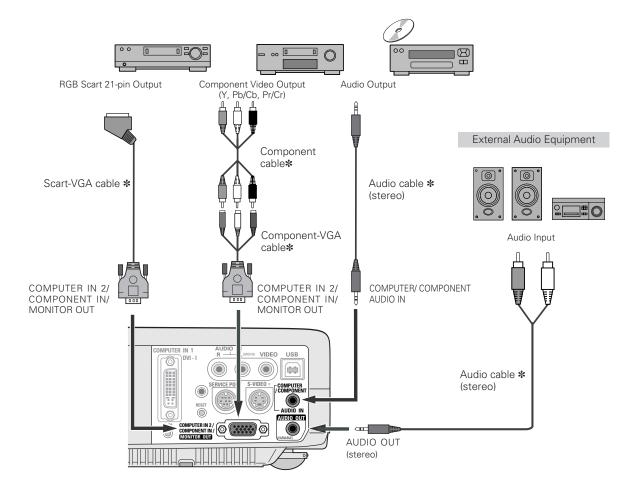
When connecting the cable, the power cords of both the projector and the external equipment should be disconnected from AC outlet.

Connecting to Component Video Equipment

Cables used for connection

- Audio Cables (Mini Plug (stereo) x 2 or RCA x 2) *
- Scart-VGA Cable *
- Component-VGA Cable *
- Component Cable *

(* = Not supplied with this projector.)



Note:

- Input sound to the COMPUTER/COMPONENT AUDIO IN terminal when using the COMPUTER IN 2/COMPONENT IN/MONITOR OUT terminal as input.
- When connecting AUDIO OUT to external audio equipment, the projector's built-in speaker is disconnected.
- See p61 for ordering the optional parts.



Note: When connecting the cable, the power cords of both the projector and

the external equipment should be disconnected from AC outlet.

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 blinks red in a moment and emits red light.
- **3** Press the POWER ON-OFF button on the top control or on the remote control. The POWER indicator turns green lighting and the cooling fans start to operate. The preparation display appears on the screen and the count down starts.
- 4 After the count-down, the input source that was selected last and the Lamp mode status icon (see page 45) appear on the screen.

If the projector is locked with a PIN code, PIN code Input Dialog Box will appear. Enter the PIN code as instructed below.

Enter a PIN code

Select a number by pressing the Point \blacktriangleleft buttons and fix the number with the SELECT button. The number will change to "*". If you fixed a wrong number, move the pointer to "Set" or "Clear" once by pressing the Point \checkmark button, then return to "PIN code". Enter the correct number again. Repeat this step to complete entering a four-digit number.

When the four-digit number is fixed, the pointer will automatically move to "Set". Press the SELECT button so that you can start to operate the projector.

If you entered a wrong PIN code, "PIN code" and the number (****) will turn red and disappear. Enter a correct PIN code all over again.

What is PIN code?

The PIN code is a security code using Personal Identification Number that allows the person who knows it to operate the projector. Setting the PIN code prevents others except the specific users from operating the projector.

A PIN code consists of a four-digit number. Refer to the PIN code lock function in Setting on page 47 for locking operation of the projector with your PIN code.



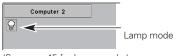
CAUTION ON HANDLING PIN CODE

If you forget your PIN code, the projector can no longer be started. Set a new PIN code with special care, write it down in column on page 63 of this manual, and keep it at hand. Should the PIN code be missing or forgotten, consult your dealer or service center.



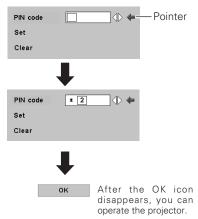
The preparation display disappears after 20 seconds.

Selected Input Source and Lamp Mode



(See page 45 for Lamp mode.)

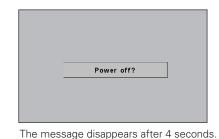
PIN code Input Dialog Box



20

Turning Off the Projector

- Press the POWER ON-OFF button on the top control or on the remote control, and a message "Power off?" appears on the screen.
- Press the POWER ON-OFF button again to turn off the projector. The POWER indicator starts to blink red, and it continues while the cooling fans are operating for about 90 seconds. (About 120 seconds when the fan mode is L2. See page 48.)
- **3** When the projector has cooled down enough to be turned on again, the POWER indicator emits red light. Then you can disconnect the AC power cord.



 \wedge

TO MAINTAIN THE LIFE OF LAMP, ONCE YOU TURN PROJECTOR ON, WAIT AT LEAST 5 MINUTES BEFORE TURNING IT OFF.

DO NOT DISCONNECT AC POWER CORD WHILE COOLING FANS ARE RUNNING OR BEFORE POWER INDICATOR EMITS RED LIGHT. OTHERWISE IT WILL RESULT IN SHORTENING LAMP LIFE.

✔Note:

- The projector cannot be turned on during the cooling period with the POWER indicator blinking red. You can turn it on again after the POWER indicator emits red light.
- When the On start function is on, this projector is turned on automatically by connecting the AC power cord to an AC outlet. (See page 45 for the On start function.)
- Do not operate the projector continuously without rest. Continuous use may result in shortening the lamp life. Turn off the projector and give it a rest about an hour in every 24 hours.
- This projector monitors internal temperature and automatically controls the running speed of the cooling fans.
- If the WARNING indicator blinks or emits red light, see "Warning Indicator" on page 49.

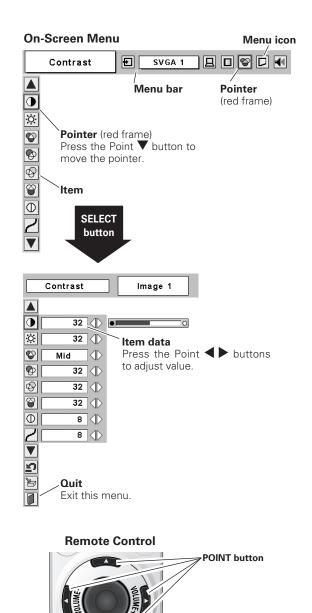
How to Operate the On-Screen Menu

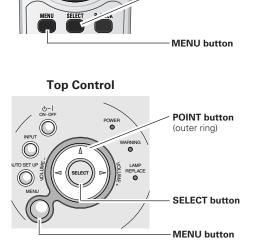
The projector can be adjusted or set via the On-Screen Menu. Refer to the following pages regarding each adjustment and setting procedure.

- **1** Press the MENU button to display the On-Screen Menu.
- Press the Point ◀► buttons to select a Menu icon to adjust. Press the Point ▲▼ buttons to select an item to adjust.
- 3 Press the SELECT button to show the item data. Press the Point ◀▶ buttons to adjust the data. Refer to the following pages for each adjustments.

Note:

The selected item is not active until the SELECT button is pressed.

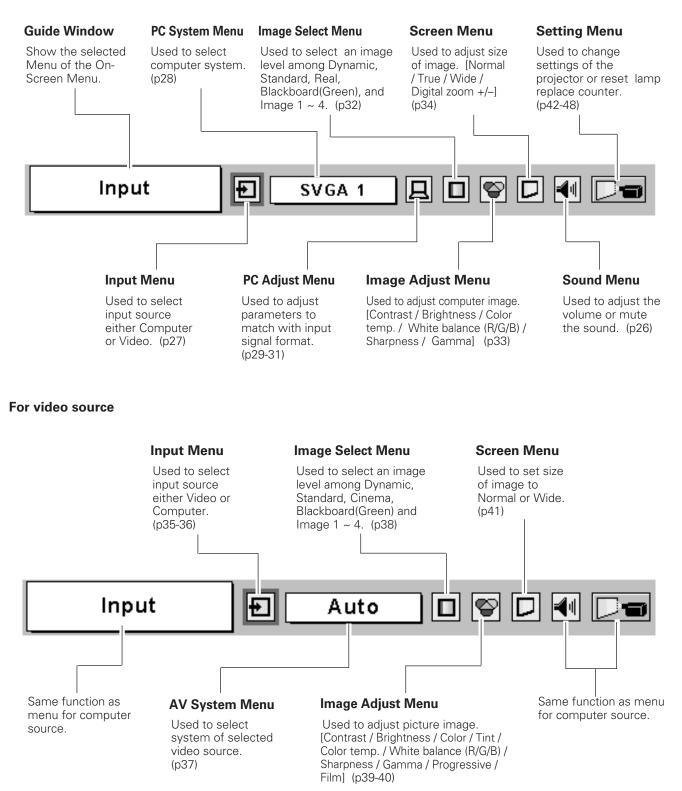




SELECT button

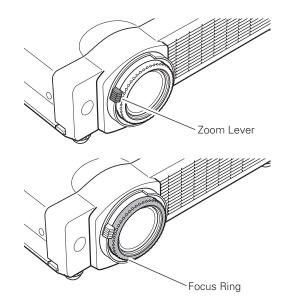
Menu Bar

For computer source



Zoom and Focus Adjustment

Rotate the Zoom Lever to zoom in and out. Rotate the Focus Ring to adjust the projected picture focus.



Auto Setup Function

Auto setup function is provided to automatically correct Keystone distortion according to the projector's tilt and adjust the computer display parameters (Fine sync, Total dots and Picture position) by just pressing the AUTO SETUP button on the top control or the AUTO SET button on the remote control. The operational Setup for the Auto setup can be changed in the Setting menu. Refer to p42 on setting of the Auto setup function.

Note:

- Auto keystone corrects vertical distortion only, not correct horizontal distortion.
- Auto keystone cannot work when Ceiling feature is On in the Setting menu. (p44)
 Perfect correction of the image distortion cannot be ensured with the Auto setup function. If the distortion cannot be corrected properly by pressing the AUTO SETUP/ AUTO SET button, adjust manually by pressing the KEYSTONE button on the remote control or selecting Keystone in the Setting menu. (p25, 42)



Keystone Adjustment

If a projected picture still has keystone distortion after pressing the AUTO SETUP button on the top control or the AUTO SET on the remote control, correct the image manually as follows:

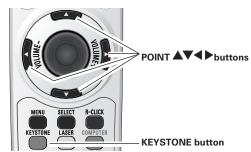
- Press the KEYSTONE button on the remote control or select Keystone in the Setting Menu (p42). The keystone dialog box appears.
- 2 Correct keystone distortion by pressing the Point ▲▼◀► buttons.

Keystone adjustment can be memorized. (p42)

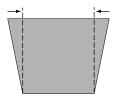
- The arrows are white when there is no correction.
- The arrows disappear at the maximum correction.
- The direction of the arrow being corrected turns red.
- If you press the KEYSTONE button on the remote control once more while the keystone dialog box is being displayed, the keystone adjustment will be canceled.



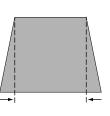
Remote Control



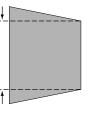
Reduce the upper width with Point ▲ button.



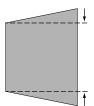
Reduce the lower width with Point $\mathbf{\nabla}$ button.



Reduce the left part with Point ◀ button.



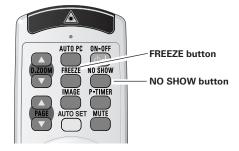
Reduce the right part with Point ► button.



Picture Freeze Function

Press the FREEZE button on the remote control to freeze the picture on the screen. To cancel Freeze function, press the FREEZE button again or press any other button. (p11)

Remote Control



No Show Function

Press the NO SHOW button on the remote control to black out the image. To restore to normal, press the NO SHOW button again or press any other button. When a projected image is captured and set as "User" in the Logo item in the Setting Menu (p44), the screen changes each time you press the NO SHOW button as follows.

black out \rightarrow the captured image \rightarrow normal $\rightarrow \cdots$



The message disappears after 4 seconds.

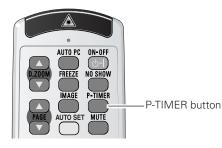
P-Timer Function

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

To stop the P-Timer, press the P-TIMER button. And then, press the P-TIMER button again to cancel the P-Timer function.



Remote Control



Sound Adjustment

Direct Operation

Menu Operation

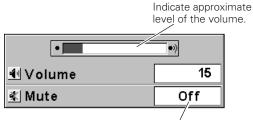
Volume

Press the VOLUME +/- button 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.

+ button to turn up the volume and - button to turn down the volume.

Mute

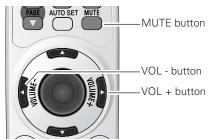
Press the MUTE button on the remote control to cut off the sound. To restore the sound to its previous level, press the MUTE button again or press the VOLUME +/- button.



Press the MUTE button to set the Mute function On or Off.

The display disappears after 4 seconds.

Remote Control



1 appear. Press the Point **♦** buttons to move the red frame pointer to the Sound Menu icon.

Press the Point ▼ button to move the red frame pointer to 2 the item that you want to select, and then press the SELECT button.

Press the MENU button and the On-Screen Menu will

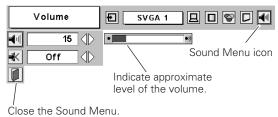


Press the Point ▶ button to turn up the volume, and press the Point ◀ button to turn down the volume.



Press the Point **◀**▶ buttons to cut off the sound. Dialog box display is changed to "On" and the sound is cut off. To restore the sound to its previous level, press the Point **I** buttons again.

Sound Menu



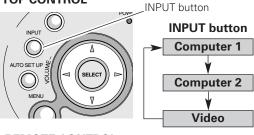
Input Source Selection

Direct Operation

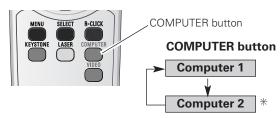
Choose either Computer 1 or Computer 2 by pressing the INPUT button on the top control or press the COMPUTER button on the remote control.

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

TOP CONTROL



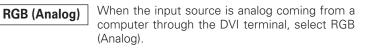
REMOTE CONTROL



* See Note at the bottom of this page.

Menu Operation

- I Press the MENU button and the On-Screen Menu will appear. Press the Point ◀▶ buttons to move the red frame pointer to the Input Menu icon.
- 2 Press the Point ▼ button to move the red arrow pointer to either Computer 1 or Computer 2, and then press the SELECT button.
- **3** After the Source Select Menu appears for Computer 1, move the pointer to RGB and then press the SELECT button.

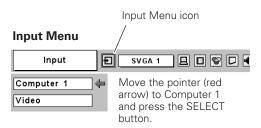


- **RGB (PC Digital)** When the input source is digital coming from a computer through the DVI terminal, select RGB (PC Digital)
- **RGB (AV HDCP)** When the input source compatible with HDCP is coming from video equipment through the DVI terminal, select RGB (AV HDCP).
 - When the input source is analog coming from a computer through the COMPUTER IN 2/COMPONENT IN/MONITOR OUT terminal, select RGB.

Note:

RGB

- Computer 2 is not displayed when the COMPUTER IN 2/COMPONENT IN/ MONITOR OUT terminal is set as Monitor out. (p44)
- 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.



* See Note at the bottom of this page.





Source Select Menu

Move the pointer to RGB(Analog), RGB (PC Digital), or RGB(AV HDCP) and press the SELECT button.

Input Menu

C C V

Input	SVGA 1 📙 🗖 🗑 🗖
computer 1 computer 2 /ideo	Move the pointer (red arrow) to Computer 2 and press the SELECT button.





Source Select Menu

Move the pointer to RGB and press the SELECT button.

Computer System Selection

This projector automatically tunes to various types of computers based on VGA, SVGA, XGA or SXGA with its Multi-scan system and Auto PC Adjustment. If 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 is shown on page 59)

Note:

The projector may display one of the following messages.

Auto When the projector cannot recognize connected signal conforming to PC Systems provided in this projector, Auto PC Adjustment function works to display proper images and the message "Auto" is displayed on the PC System Menu icon. When the image is not projected properly, manual adjustment is required. (p30, 31)



Mode 1

There is no signal input from computer. Check the connection of your computer and the projector. (See "Troubleshooting" p54)

User preset system manually adjusted in PC Adjust menu. Adjustment data can be stored in Mode 1 - 5. (p30, 31)



PC Systems provided in the projector. The projector chooses a proper system and displays it.

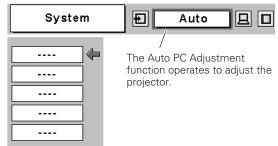
*Mode 1 and SVGA 1 are examples.

Selecting Computer System Manually

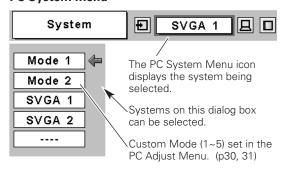
PC system can also be selected manually.

- 1 Press the MENU button and the On-Screen Menu will appear. Press the Point ◀▶ buttons to move the red frame pointer to the PC System Menu icon.
- 2 Press the Point ▼ button to move the red arrow pointer to the system that you want to set, and then press the SELECT button.

PC System Menu



PC System Menu



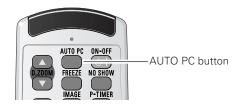
Auto PC Adjustment

Auto PC Adjustment function is provided to automatically adjust Fine sync, Total dots, Horizontal, and Vertical to conform to your computer. Auto PC Adjustment function can be operated as follows.

Direct Operation

The Auto PC adjustment function can be operated directly by pressing the AUTO PC button on the remote control.

Remote Control



Menu Operation

Auto PC Adj.

- I Press the MENU button to display the On-Screen Menu. Press the Point ◀▶ buttons to move the red frame pointer to PC Adjust Menu icon.
- 2 Press the Point ▼ button to move the red frame pointer to Auto PC Adj. icon and then press the SELECT button twice. This Auto PC Adjustment can be also executed by pressing the AUTO PC button on the remote control.

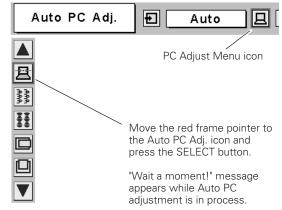
To store adjustment parameters

Adjustment parameters from Auto PC Adjustment can be memorized in this projector. Once parameters are memorized, the setting can be done just by selecting Mode in the PC System Menu (p28). See "Store" on page 31.

Note:

- Fine sync, Total dots and Picture Position of some computers can not be fully adjusted with this Auto PC Adjustment function. When the image is not provided properly with this operation, manual adjustments are required. (p30, 31)
- The Auto PC Adjustment cannot be operated when 480i, 575i, 480p, 575p, 720p, 1035i, or 1080i is selected in the PC System Menu(p28), or when the signal is coming from DVI-terminal.

PC Adjust Menu



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 5 independent memory areas to memorize those parameters manually adjusted. It allows you to recall the setting for a specific computer.

- 1 Press the MENU button and the On-Screen Menu will appear. Press the Point ◀▶ buttons to move the red frame pointer to the PC Adjust Menu icon.
- 2 Press the Point ▼ button to move the red frame pointer to the item that you want to adjust and then press the SELECT button. An adjustment dialog box will appear. Press the Point ◀▶ buttons to adjust value.

💱 Fine sync

Eliminate the flicker from the image displayed. Press the Point ◀ ▶ buttons to adjust value. (From 0 to 31)

Total dots

Adjust the number of total dots in one horizontal period. Press the Point ◀► buttons and adjust number to match your PC image.

🗖 Horizontal

Adjust horizontal picture position. Press the Point **I** buttons to adjust the position.

U Vertical

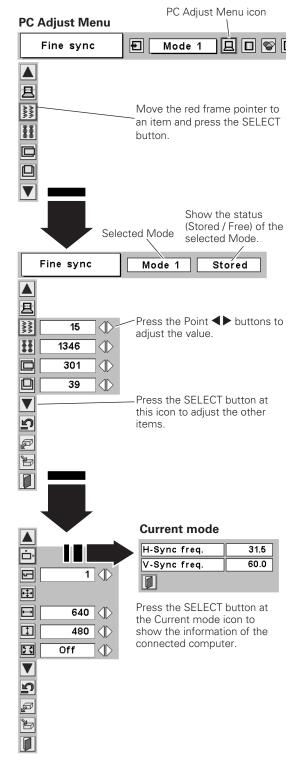
Adjust vertical picture position. Press the Point **◄** buttons to adjust the position.

Lurrent mode

Press the SELECT button to show H-Sync freq. and V-Sync freq. of the connected computer.

🛃 Clamp

Adjust the clamp level. When the image has dark bars, try this adjustment.



Display area

Press the SELECT button to display the Display area dialog box. Select the resolution at the Display area dialog box.



Display area H

Adjust the horizontal area displayed by this projector. Press the Point **I** buttons to decrease/increase the value and then press the SELECT button.

T T Display area V

Adjust the vertical area displayed by this projector. Press the Point **◀** buttons to decrease/increase the value and then press the SELECT button.



With this function on, SXGA image is fully displayed at 4 : 3 aspect ratio. It is displayed at 5: 4 aspect ratio with this function off.

Reset

To reset the adjusted data, select Reset and press the OK button. The confirmation box will appear and then select [Yes]. All adjustments return to their previous figures.



Mode free

To clear adjustment data previously set, move the red frame pointer to the Mode free icon and then press the SELECT button. Move the red arrow pointer to the Mode that you want to clear and then press the SELECT button.

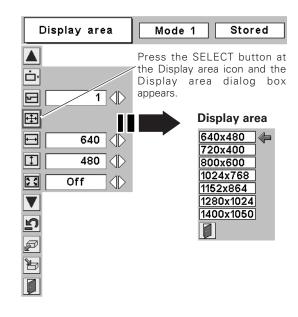
🔁 Store

To store adjustment data, move the red frame pointer to the Store icon and then press the SELECT button. Move the red arrow pointer to any of Mode 1 to 5 in which you want to store and then press the SELECT button.



Note:

Exit the PC Adjustment Menu.



To store adjustment data

This Mode has parameters being stored.

			· .	/		•	
Where to res	serve ?						
		ļļ			Ħ	Ì	
Mode 1	Stored	800	142	34	640	480	
Mode 2	Free	800	143	34	640	480	
Mode 3	Free	800	143	34	640	480	
Mode 4	Free	800	143	34	640	480	
Mode 5	Free	800	143	34	640	480	
				4			
	/			\			

Vacant Mode

Show values of "Total dots," "Horizontal," "Vertical," "Display area H," and "Display area V."

To clear adjustment data

Which mode	to free ?						
		II			Ħ	1	
Mode 1	Stored	800	142	34	640	480	
Mode 2	Free	800	143	34	640	480	
Mode 3	Free	800	143	34	640	480	
Mode 4	Free	800	143	34	640	480	
Mode 5	Free	800	143	34	640	480	

Close this dialog box.

Auto PC Adjustment, Display area, Display area (H/V), and Full screen cannot be selected when 480i, 575i, 480p, 575p, 720p, 1035i, or 1080i is selected in the PC System Menu (p28).

Image Level Selection

Direct Operation

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

Dynamic

Picture level suitable for viewing picture in a bright room.

Standard

Normal picture level preset on this projector.

Real

Picture level with improved halftone for graphics.

Blackboard(Green)

Picture level suitable for the image projected on a blackboard (Green).

This mode assists to enhance the image projected on a blackboard. This is mainly effective on a green colored board, not truly effective on a black colored board.

Image 1~4

User preset image in the Image Adjust Menu (p33).

Menu Operation

- Press the MENU button and the On-Screen Menu will 1 appear. Press the Point ◀▶ buttons to move the red frame pointer to the Image Select Menu icon.
- Press the Point ▼ button to move the red frame pointer to 2 the level that you want to set and then press the SELECT button.

Dynamic

Picture level suitable for viewing picture in a bright room.

♦♦♦ Standard

Normal picture level preset on this projector.



Picture level with improved halftone for graphics.



Blackboard(Green)

Picture level suitable for the image projected on a blackboard (Green). See above for further description.

Image 1~4

User preset image in the Image Adjust Menu (p33).



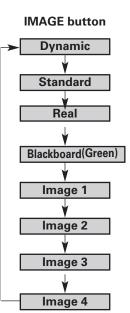


	Image Select Menu icon
Image Select Menu	
Standard	된 SVGA 1 🔲 🗖 🤇
	Move the red frame pointer to the level and press the SELECT button.
The level being selecte	ed.



Image Level Adjustment

- 1 Press the MENU button and the On-Screen Menu will appear. Press the Point ◀▶ buttons to move the red frame pointer to the Image Adjust Menu icon.
- 2 Press the Point ▼ button to move the red frame pointer to the item that you want to adjust, and then press the SELECT button. The level of each item is displayed. Adjust each level by pressing the Point ◀▶ buttons.

Contrast

Press the Point ◀ button to decrease contrast and the Point ► button to increase contrast. (From 0 to 63.)

O Brightness

Press the Point ◀ button to adjust image darker and the Point ► button to adjust image brighter. (From 0 to 63.)



Press the Point ◀ button or the Point ► button for Color temp. level that you want to select. (XLow, Low, Mid, or High)

White balance (Red)

Press the Point ◀ button to lighten red tone and the Point ► button to deepen red tone. (From 0 to 63.)

🐶 White balance (Green)

Press the Point ◀ button to lighten green tone and the Point ► button to deepen green tone. (From 0 to 63.)

White balance (Blue)

Press the Point ◀ button to lighten blue tone and the Point ► button to deepen blue tone. (From 0 to 63.)

① Sharpness

Press the Point \blacktriangleleft button to soften the image and the Point \blacktriangleright button to sharpen the image. (From 0 to 15.)

🖌 Gamma

Press the Point **◀**▶ button to obtain better balance of contrast. (From 0 to 15.)



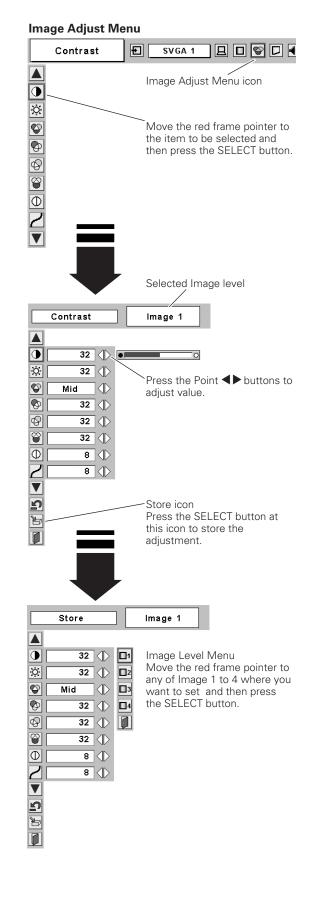
To reset the adjusted data, select Reset and press the OK button. The confirmation box will appear and then select [Yes]. All adjustments return to their previous figures.



To store the image data adjusted manually, move the red frame pointer to the Store icon and press the SELECT button. The Image Level Menu will appear. Move the red frame pointer to the Image 1 to 4 where you want to set and then press the SELECT button. A confirmation box will appear and then select [Yes]. Stored data can be called up by selecting "Image" in the Image Level Selection on page 32.







Screen Size Adjustment

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

- Press the MENU button and the On-Screen Menu will appear. Press the Point ◀▶ buttons to move the red frame pointer to the Screen Menu icon.
- 2 Press the Point ▼ button and move the red frame pointer to the function that you want to select and then press the SELECT button.



Provide the image to fit screen size.



Provide the image in its original size. When the original image size is larger than the screen size (1024×768) , this projector enters "Digital zoom +" mode automatically.

🗖 Wide

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

🕂 Digital zoom +

When the Digital zoom + is selected, the On-Screen Menu disappears and the message "D. Zoom +" is displayed. Press the SELECT button to expand the image size. And press the Point ▲▼◀▶ buttons to pan the image. The Panning function can work only when the image is larger than the screen size.

A projected image can be also expanded by pressing the D.ZOOM **b** button on the remote control.

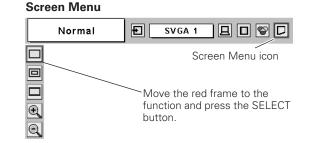
🗨 Digital zoom –

When the Digital zoom – is selected, the On-Screen Menu disappears and the message "D. Zoom –" is displayed. Press the SELECT button to compress the image size.

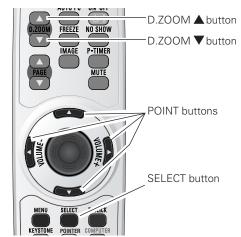
A projected image can be also compressed by pressing the D.ZOOM $\pmb{\nabla}$ button on the remote control.

To exit the Digital Zoom +/– mode, press any button except the D.ZOOM \blacktriangle/∇ , SELECT, and Point buttons.

To return to the normal screen select Normal from the Screen menu.



Remote Control



✔ Note:

- This Screen Menu cannot be operated when 720p(HDTV), 1035i (HDTV), or 1080i (HDTV) is selected in the PC System Menu (p28).
- The True and Digital zoom +/- cannot be selected when 480i, 575i, 480p, or 575p is selected in the PC System Menu (p28).
- This projector cannot display any resolution higher than 1280 × 1024. If your computer's screen resolution is higher than 1280 × 1024, reset the resolution to the lower before connecting to the projector.
- The image data in other than XGA (1024 x 768) is modified to fit the screen size in initial mode.
- The panning function may not operate properly if the computer system prepared in the PC Adjust Menu is used.
- When Auto setup function is "On" and used any of the Auto setup function, Digital zoom +/- function will be canceled then the screen will go back to the normal size.
- When selecting VGA, SVGA or SXGA in the Computer System Selection (p28) with adjusting Keystone function uppermost in the upward direction, the Digital zoom - function may not work.

Input Source Selection (Video, S-Video)

Direct Operation

Menu Operation

1

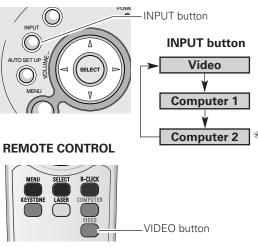
2

3

Choose Video by pressing the INPUT button on the top control or the VIDEO button on the remote control.

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

TOP CONTROL



* See Note at the bottom of this page.

Input Menu icon Input Menu Input Ð Auto Press the MENU button and the On-Screen Menu will appear. Press the Point ◀▶ buttons to move the red frame Computer 1 Move the pointer to Video and press the SELECT Video button. Press the Point ▼ button to move the red arrow pointer to Video and then press the SELECT button. The Source Select VIDEO Move the pointer to the source that you want to select and Auto Video S-Video SELECT button.

Source Select Menu (VIDEO)

Move the pointer to the source that you want to select and press the

When selecting Auto, the projector automatically Auto detects incoming video signal, and adjusts itself to optimize its performance.

Note:

Menu will appear.

- · The projector selects the input source in the following priority.
 - 1. S-video
 - 2. Video

pointer to the Input Menu icon.

then press the SELECT button.



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



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

Note:

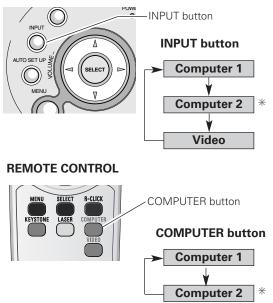
When Monitor out is selected at the Terminal item in the Setting Menu, Computer 2 is not displayed. (p44)

Input Source Selection (Component, RGB Scart 21-Pin)

Direct Operation

Choose Computer 2 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.

TOP CONTROL



* See Note at the bottom of this page.

Input Menu icon

Menu Operation

- Press the MENU button and the On-Screen Menu will 1 appear. Press the Point ◀▶ buttons to move the red frame pointer to the Input Menu icon.
- Press the Point ▼ button to move the red arrow pointer to 2 Computer 2, and then press the SELECT button. The Source Select Menu will appear.
- Move the pointer to the correct input source and then press 3 the SELECT button.

input monu	
Input	Auto 🛛 📽 🗖 📢 🗖
Computer 1] Move the pointer (red arrow)
Computer 2	to Computer 2 and press the
Video	SELECT button.
Computer 2	



Input Menu

Source Select Menu

Move the pointer to Component or RGB (Scart) and press the SELECT button

Component

When the input source is coming from video equipment connected to the COMPUTER IN 2/ COMPONENT IN/ MONITOR OUT terminal with a Component-VGA Cable, select Component.

RGB (Scart)

When the input source is coming from video equipment connected to the COMPUTER IN 2/ COMPONENT IN/ MONITOR OUT terminal with a Scart-VGA Cable, select RGB (Scart).

Note:

- Component-VGA Cable and Scart-VGA Cable are optionally supplied. See page 61 for order.
- Computer 2 is not displayed when the COMPUTER IN 2/COMPONENT IN/ MONITOR OUT terminal is set as Monitor out. (p44)

Video System Selection

- 1 Press the MENU button and the On-Screen Menu will appear. Press the Point ◀▶ buttons to move the red frame pointer to the AV System Menu icon.
- 2 Press the Point ▼ button to move the red arrow pointer to the system that you want to select and then press the SELECT button.

Video or S-Video

Auto

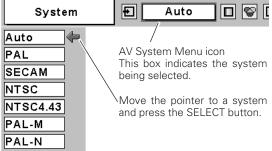
The projector automatically detects incoming video system, and adjusts itself to optimize its performance.

When Video System is PAL-M or PAL-N, select system manually.

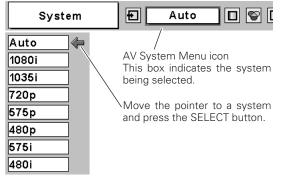
PAL / SECAM / NTSC / NTSC4.43 / PAL-M / PAL-N

If the projector cannot reproduce proper video image, it is necessary to select a specific broadcast signal format among PAL, SECAM, NTSC, NTSC 4.43, PAL-M, and PAL-N.

AV	System	Menu	(Video	or	S-Video)	



AV System Menu (Component)



Component

Auto

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

COMPONENT VIDEO SIGNAL FORMAT

If the projector cannot reproduce proper video image, it is necessary to select a specific component video signal format among 480i, 575i, 480p, 575p, 720p, 1035i, and 1080i.

Image Level Selection

Direct Operation

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

Dynamic

Picture level suitable for viewing picture in a bright room.

Standard

Normal picture level preset on this projector.

Cinema

Picture level adjusted for the picture with fine tone.

Blackboard(Green)

Picture level suitable for the image projected on a blackboard (Green).

This mode assists to enhance the image projected on a blackboard. This is mainly effective on a green colored board, not truly effective on a black colored board.

Image 1~4

User preset image in the Image Adjust Menu (p39, 40).

Menu Operation

- I Press the MENU button and the On-Screen Menu will appear. Press the Point ◀▶ buttons to move the red frame pointer to the Image Select Menu icon.
- Press the Point ▼ button to move the red frame pointer to the level that you want to set and then press the SELECT button.

D Dynamic

Picture level suitable for viewing picture in a bright room.



Normal picture level preset on this projector.

🛱 Cinema

Picture level adjusted for the picture with fine tone.



Blackboard(Green)

Picture level suitable for the image projected on a Blackboard (Green). See above for further description.

□1 Image1~4

User preset image in the Image Adjust Menu (p39, 40).

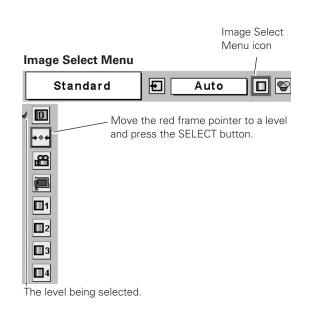




IMAGE button

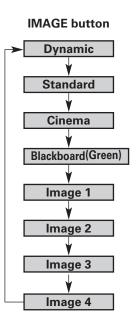


Image Level Adjustment

- Press the MENU button and the On-Screen Menu will appear. Press the Point ◀▶ buttons to move the red frame pointer to the Image Adjust Menu icon.
- Press the Point ▼ button to move the red frame pointer to the item that you want to adjust and then press the SELECT button. The level of each item is displayed. Adjust each level by pressing the Point ◀▶ buttons.

Contrast

Press the Point ◀ button to decrease contrast and the Point ► button to increase contrast. (From 0 to 63.)

O Brightness

Press the Point ◀ button to adjust image darker and the Point ► button to adjust image brighter. (From 0 to 63.)

Color

Press the Point \blacktriangleleft button to lighten color and the Point \blacktriangleright button to deepen color. (From 0 to 63.)

Tint

Press the Point ◀▶ buttons to obtain proper color. (From 0 to 63.)

Color temp.

Press the Point ◀▶ buttons for Color temp. level that you want to select. (XLow, Low, Mid, or High)

📀 White balance (Red)

Press the Point ◀ button to lighten red tone and the Point ► button to deepen red tone. (From 0 to 63.)

😔 White balance (Green)

Press the Point ◀ button to lighten green tone and the Point ► button to deepen green tone. (From 0 to 63.)

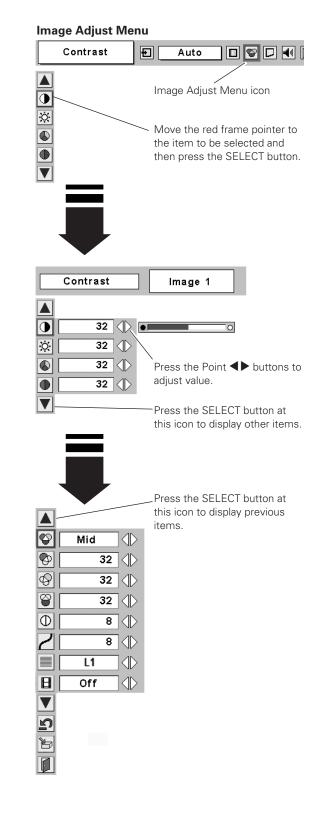
White balance (Blue)

Press the Point ◀ button to lighten blue tone and the Point ► button to deepen blue tone. (From 0 to 63.)

Press the Point \blacktriangleleft button to soften the image and the Point \blacktriangleright button to sharpen the image. (From 0 to 15.)

🖌 Gamma

Press the Point ◀▶ buttons to obtain better balance of contrast. (From 0 to 15.)



Note:

The Tint cannot be selected when the video system is PAL, SECAM, PAL-M, or PAL-N.

Progressive

Interlaced video signal can be displayed in a progressive picture. OffNot activated.

- L1Select "L1" for an active picture.
- L2 Select "L2" for a still picture.

🗄 Film

This function is effective on 3-2 pulldown video sources. With this function On, the projector reproduces pictures faithful to the original film quality.

🖍 Reset

To reset the adjusted data, select Reset and press the OK button. The confirmation box will appear and then select [Yes]. All adjustments return to their previous figures.

뉨 Store

To store the adjustment data, move the red frame pointer to the Store icon and press the SELECT button. The Image Level Menu will appear. Move the red frame pointer to the Image Level 1 to 4 and then press the SELECT button. A confirmation box will appear and then select [Yes].

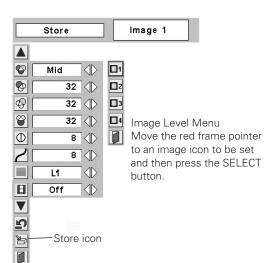
Stored data can be called up by selecting "Image" in the Image Level Selection on page 32.

🚺 Quit

Exit the Image Adjust Menu.

Note:

- Progressive cannot be selected when 480p, 575p, 720p, 1035i, or 1080i is selected. (p37)
- Film can only be activated when selecting NTSC for Video System and L1/L2 for Progressive and in any state shown below.
- 1. When selecting NTSC, NTSC4.43 PAL-M or 480i in the Video System Selection (p37).
- 2. When selecting Auto and signal is NTSC, NTSC4.43, PAL-M(Composite) or 480i(Component) in the Video System Selection (p37).
- 3-2 Pulldown or Telecine transfer is the process of changing images from film mode to video mode. While film runs at 24 frames per second (fps), NTSC television signals (or video) have a run rate of 30fps so the 24 fps film needs to be speeded up to 30fps and transferred using a proper field pattern to get the best film-like images.



Screen Size Adjustment

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

- I Press the MENU button and the On-Screen Menu will appear. Press the Point ◀▶ buttons to move the red frame pointer to the Screen Menu icon.
- 2 Press the Point ▼ button and move the red frame pointer to the function that you want to select and then press the SELECT button.

D Normal

Provide the image at a normal video aspect ratio of 4 : 3.

🗖 Wide

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

✔Note:

Screen Menu cannot be operated when 720p, 1035i, or 1080i is selected in the AV System Menu (p37).

Screen Menu



Setting

This projector has Setting menu that allows you to set up the other various functions described as follows;

- Press the MENU button to display the On-Screen Menu. Press the Point ◀► buttons to move the red frame pointer to the Setting Menu icon.
- Press the Point ▼ button to move the red frame pointer to the item that you want to set and then press the SELECT button. The Setting dialog box appears.

🚯 Language

The language used in the On-Screen Menu is available in English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Russian, Chinese, Korean, or Japanese.



This function enables Auto keystone correction and Auto PC adjustment by pressing the AUTO SETUP button on the top control or the AUTO SET button on the remote control. Settings for those functions can be altered as follows:

Auto PC Adj.

- Onenable Auto PC Adjustment when pressing the AUTO SET button on the remote control or the AUTO SETUP button on the top control.
- Offdisable Auto PC Adjustment.

Auto keystone

- Auto always work and correct keystone distortion according to the projector's tilt.
- Manualwork only when pressing the AUTO SET button on the remote control or the AUTO SETUP button on the top control.
- Offdisable Auto keystone.

Note:

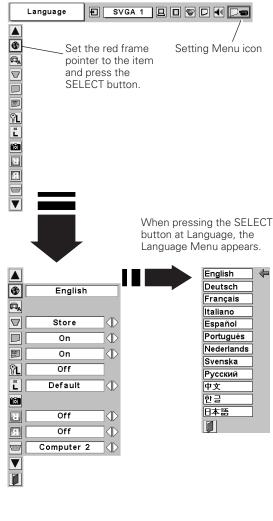
- Auto PC Adj. and Auto keystone cannot be set "Off" at the same time.
- Auto keystone corrects vertical distortion only, not correct horizontal distortion.
- The Auto keystone cannot work when Ceiling feature is On in the Setting menu. (p44)
- Perfect correction of the image distortion cannot be ensured with the Auto setup function. If the distortion is not corrected properly by pressing the AUTO SETUP/ AUTO SET button, adjust manually by pressing the KEYSTONE button on the remote control or selecting Keystone in the Setting menu. (See p25 or Keystone feature below.)

Keystone

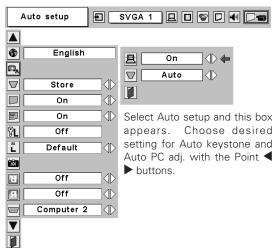
This function corrects distortion of a projected image. Select either Store or Reset with the Point ◀▶ buttons, and then press the SELECT button. The keystone dialog box appears. Adjust keystone with the Point ▲▼◀▶ buttons.

- Store store the keystone adjustment even after the AC power cord is disconnected.
- Reset reset the keystone adjustment when the AC power cord is disconnected.

Setting Menu (Language)



Auto setup



Setting

] Blue back

When this function is "On," the projector produces a blue image while input signal is not detected. Press the Point **I** buttons to switch On / Off.



This function decides whether to display On-Screen Displays. Press the Point ◀▶ buttons to switch On / Off.

On shows all the On-Screen Displays.

Off does not show On-Screen Displays except;

- On-Screen Menu
- "Power off?" message
- P-Timer
- "No signal" message
- "Wait a moment!" message

Logo PIN code lock

This function prevents an unauthorized person from changing the Logo setting.

- Off the Logo setting can be changed freely from the Logo menu. (p44)

If you want to change the Logo PIN code lock setting, enter a Logo PIN code along the following steps. The initial Logo PIN code is set "4321" at the factory.

Enter a Logo PIN code

Select a number by pressing the Point \blacktriangleleft buttons and fix the number with the SELECT button. The number will change to "*". If you fixed a wrong number, move the pointer to "Set" or "Clear" once by pressing the Point \checkmark button, then return to "Logo PIN code". Enter the correct number again.

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

When the four-digit number is fixed, the pointer will automatically move to "Set". Press the SELECT button so that you can change the Logo PIN code lock setting.

If you entered a wrong Logo PIN code, "Logo PIN code" and the number (****) will turn red and disappear. Enter a correct Logo PIN code all over again.

Change the Logo PIN code

Logo PIN code can be changed to your desired four-digit number. Select "Logo PIN code change" with the Point ▼ button and press the SELECT button. Set a new Logo PIN code.

Be sure to note the new Logo PIN code and keep it at hand. If you lost the number, you could no longer change the Logo PIN code setting. For details on PIN code setting, refer to relevant instructions of the PIN code lock function on page 47.

Logo PIN code lock



Logo PIN code lock Dialog Box



After a correct Logo PIN code is entered, the following dialog box will appear.



Select On/Off by pressing the Point ◀► buttons or change the Logo PIN code.

Logo

This function decides what to be displayed on the starting-up display as follows:

User the image you captured

Default the factory-set logo

Offcount-down only

Capture

This function enables you to capture the image being projected and use it for a starting-up display or interval of presentations. After capturing the projected image, go to the Logo function and set it to "User". Then the captured image can be displayed when turning on the projector next time or pressing the NO SHOW button. (p25)

To capture the image, select [Yes]. To cancel the Capture function, select [No].

Note:

- Before capturing an image, select Standard in the Image Select Menu to capture a proper image. (See page 32, 38.)
- 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 adjustment data is automatically reset and the projector captures an image without keystone adjustment.
- When the Logo PIN code lock function is On, the Logo and Capture menu cannot be selected.
- When starting to capture the new image, the previously stored image is cleared even if you cancel capturing.

Ceiling

When this function is "On," the picture is top/bottom and left/right reversed. This function is used to project the image from a ceiling mounting the projector.

FRear

When this function is "On," the picture is left/right reversed. This function is used to project the image to a rear projection screen.

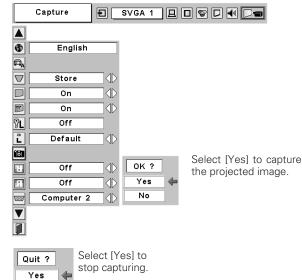
Terminal

The COMPUTER IN 2/COMPONENT IN/MONITOR OUT terminal on the back of the projector is switchable for computer input or monitor output. (See page 9) Select Computer 2 or Monitor Out with the Point \triangleleft buttons.

Computer 2computer input Monitor Outmonitor out

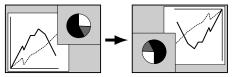
Terminal item is not available when selecting Computer 2 to the input source. Change the input source to the others (Computer1 or Video) so that the Terminal item will be available. (p27, 35, 36)



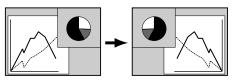


Ceiling

No



Rear



Setting

Standby mode ÊX

This function is available when using Multi Card Director optionally supplied, and it reduces standby energy when selecting Eco.

Eco reduces standby energy.

Normal consumes normal standby energy.

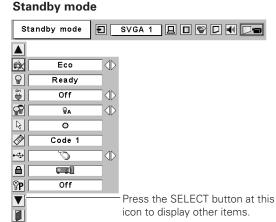
Power management

For reducing power consumption as well as maintaining the lamp life, the Power management function turns off the projection lamp when the input signal is interrupted and no button is pressed for a certain period.

When the input signal is interrupted and no button is pressed for 30 seconds or more, the timer display with "No signal" message appears on the screen to start the countdown.

The following operation differs according to the selected mode.

- Ready When the count-down time has elapsed, the lamp will be turned off and the POWER indicator slowly blinks green. When any signal is connected or any button on the remote control or the front panel is pressed, the projection lamp will be turned on again. Shutdown When the lamp has been fully cooled down, the power will be turned off.
- OffPower management function is off.



icon to display other items.

Power management



Time left until Lamp off

Power management] €	SVGA 1 🚊 🗆 😵 🗖 📢 🗖 🖜
éx 🗌	Eco	\square	Ready
8	Ready		(•) 5 Min ∢()
ü	Off	\bigcirc	
P	₽ A	$\triangleleft \triangleright$	
R	0		Press the SELECT button at
	Code 1		Power management and this
•<	Ő		box appears. Choose one of
			three settings with the Point ◀
8P	Off		buttons, and go to the timer
			with the Point ▲▼ buttons and set time with the Point ◀
			buttons.

On start

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

Note:

₿**A**

P

Be sure to turn the projector off properly (see "Turning Off the Projector" on page 21). If the projector is turned off in the wrong steps, the On start function does not operate properly.

😭 Lamp mode

This function allows you to change the brightness of the screen.

- Normal . .normal brightness
 - Autobrightness according to the input signal
 - Ecolower brightness reduces the lamp power consumption and extends the lamp life.

Reinter

You can emphasize a part of the projected image with this function. Choose either Spotlight or Pointer with the Point $\blacktriangle \nabla$ buttons and press the SELECT button. Then select one of three different sizes (Large, Middle, and Small) of Spotlight or a pointer of three different patterns (Arrow, Finger, and Dot) of Pointer. (See page 12 for operation.)

Remote control

This projector provides eight different remote control codes (Code 1-Code 8); the factory-set, initial code (Code 1) and the other seven codes (Code 2 to Code 8). This switching function prevents remote control interference when operating several equipment at the same time.

The same code should set on both the projector and the remote control. For example, operating the projector in "Code 7", the remote control unit 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 number of times corresponding to the remote control code for the projector. (See page 14 for details.)

∙द+ USB

This projector is equipped with the USB port for interactive operation between the projector and computer. Selects either of the followings as needed.

When using the remote control as the wireless mouse for a computer connected to the projector with a USB cable. (p13, 17)

This item is provided for future use. Unavailable now.



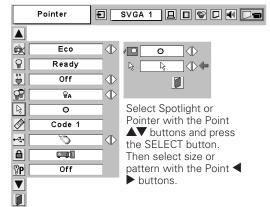
This function locks operation of the top control and the remote control. It is useful to prevent operation by an unauthorized person.

not locked.

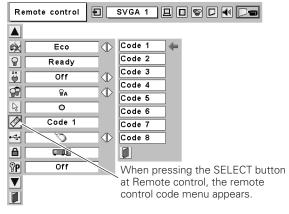
- the remote control. To unlock, use
- use the top control. To unlock,

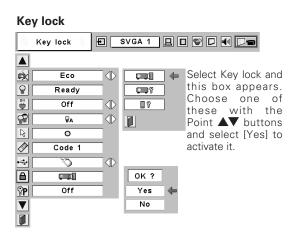
If the top control accidentally becomes locked and you do not have the remote control nearby, disconnect the AC power cord from the AC outlet, and then with pressing the SELECT button, reinsert the AC power cord. This will cancel the top control lock.

Pointer



Remote control





PIN code lock

This function prevents the projector from being operated by an unauthorized person and provides the following settings for security options.

- Off.....the projector is not locked with the PIN code.
- On1require to enter the PIN code every time turning on the projector.
- On2require to 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 the PIN code.

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

Enter a PIN code

Select a number by pressing the Point ◀▶ buttons and fix the number with the SELECT button. The number will change to "*". If you fixed a wrong number, move the pointer to "Set" or "Clear" once by pressing the Point ▼ button, then return to "PIN code". Enter the correct number again.

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

When the four-digit number is fixed, the pointer will automatically move to "Set". Press the SELECT button so that you can change the following PIN code lock settings.

If you entered a wrong PIN code, "PIN code" and the number (# # #) will turn red and disappear. Enter a correct PIN code all over again.

To Change the PIN code lock setting

Select Off, On1, or On2 with the Point \blacktriangleleft buttons and then "Quit" with the Point \blacktriangledown button and press the SELECT button to close the dialog box.

To Change the PIN code

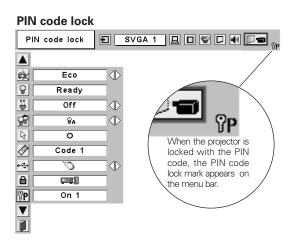
The PIN code can be changed to your desired four-digit number.

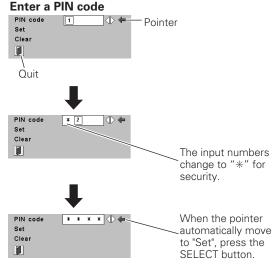
Select "PIN code change" with the Point $\mathbf{\nabla}$ button, and press the SELECT button. The New PIN code input dialog box will appear.

Select a number with the Point ◀▶ buttons and fix the number with the SELECT button. Repeat it to complete entering a fourdigit number. When the four-digit number is fixed, the pointer will automatically move to "Set". Then press the SELECT button.

CAUTION:

WHEN YOU HAVE CHANGED THE PIN CODE, WRITE DOWN THE NEW PIN CODE IN COLUMN OF THE PIN CODE NO. MEMO ON PAGE 63, AND KEEP IT SECURELY. SHOULD THE PIN CODE BE LOST OR FORGOTTEN, THE PROJECTOR CAN NO LONGER BE OPERATED.

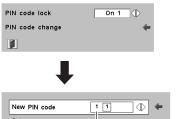




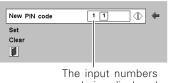
Change the PIN code lock setting

PIN code lock On 1 () =	Select a desired setting with the Point ◀▶ buttons.

Change the PIN code



Select PIN code change and press the SELECT button. The New PIN code input dialog box will appear.



are being displayed for confirmation.



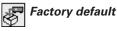
This function provides you the following alternatives in the cooling fans' operation after turning off the projector. (p21)

- L1 normal operation
- L2slower operation than the normal (L1) , but take longer to cool down the projector. In this mode, cooling time after turning off the projector will be extended longer than in the normal mode.

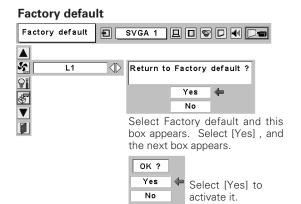
Fan	
Fan	E SVGA 1 🛛 🐨 🗖 📲 🗖
L1	
81	
S.	

Lamp counter reset

This function is used to reset the lamp replace counter. When replacing the projection lamp, reset the lamp replace counter by using this function. See page 53 for operation.



This function returns all setting values except for the user logo, PIN code lock, logo PIN code lock and the lamp counter to the factory default settings.



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 exceeds the normal temperature, the projector is automatically shut down to protect the inside of the projector. While the projector is being cooled down, the POWER indicator is blinking. When the temperature inside the projector returns to normal, the POWER indicator emits red light and the projector can be turned on.

Note:

After the temperature inside the projector returns to normal, the WARNING indicator still continues to blink. 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 ventilation slots are not blocked.
- Is the projector not installed near the ventilation duct of airconditioning equipment which may be hot? Install the projector away from the ventilation duct of air-conditioning equipment.
- Are the air filters clean? Clean the air filters periodically. (p50)

The projector is shut down and the WARNING indicator emits red light.

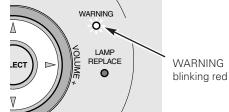
When the projector detects an abnormal condition, it is automatically shut down to protect the inside and the WARNING indicator emits red light. In this case, disconnect the AC power cord and reconnect it, and then turn the projector on once again for check. If the projector cannot be turned on and the WARNING indicator emits red light, disconnect the AC power cord and contact the service station for check and repair.



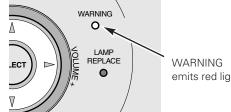
CAUTION

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

TOP CONTROL



TOP CONTROL



emits red light

Cleaning the Air Filters

Air filters prevent dust from accumulating on the surface of the optical elements inside the projector. Should the air filters become clogged with dust particles, it will reduce cooling fans' effectiveness and may result in internal heat build up and adversely affect the life of the projector. Clean the air filters following the steps below.

- *1* Turn off the projector, and disconnect the AC power cord from the AC outlet.
- 2 Turn the projector upside down and remove the air filters by pulling the latches upward.
- **3** Clean the air filters with a brush or rinse them softly. Clean the ventilation slots around the air filter too.
- **4** When cleaning the air filters by rinsing, dry them well. Replace the air filters properly. Make sure that the air filters are fully inserted.



CAUTION

Do not operate the projector with the air filters removed. Dust may accumulate on the LCD panel and the projection mirror degrading picture quality. Do not put small parts into the air intake vents. It may result in malfunction of the projector.

RECOMMENDATION

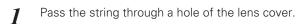
We recommend avoiding dusty/smoky environments when operating the projector. Usage in these environments may cause poor image quality.

When using the projector under dusty or smoky conditions, dust may accumulate on a lens, LCD panels, or optical elements inside the projector. This condition may degrade the quality of a projected image.

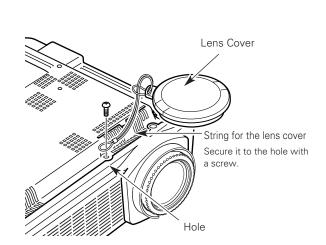
When the symptoms above are noticed, contact your authorized dealer or service station for proper cleaning.

Attaching the Lens Cover

When moving this projector or while not using it over an extended period of time, replace the lens cover.



- 2 Turn the projector upside down.
- **3** Attach the string with lens cover to a hole at the bottom of the projector and secure it with a screw.

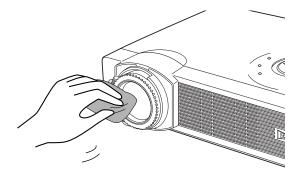


Air Filters Pull up and remove.

Cleaning the Projection Lens

Follow these steps to clean the projection lens.

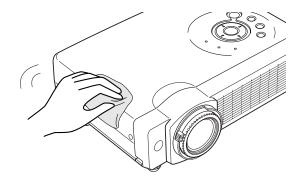
- 1 Disconnect the AC power cord before cleaning.
- 2 Softly wipe the projection lens with a cleaning cloth that contains a small amount of non-abrasive camera lens cleaner, or use lens cleaning paper or a commercially available air blower to clean the lens. Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents, or other harsh chemicals might scratch the surface.
- **3** When the projector is not in use, replace the lens cover.



Cleaning the Projector Cabinet

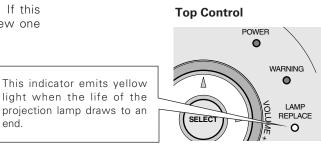
Follow these steps to clean the projector cabinet.

- 1 Disconnect the AC power cord before cleaning.
- 2 Softly wipe the projector body with a soft, dry cleaning cloth. When it 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.
- **3** When the projector is not in use, put the projector in an appropriate carrying case to protect it from dust and scratches.



Lamp Replacement

When the life of the projection lamp of this projector draws to an end, the LAMP REPLACE indicator emits yellow light. If this indicator emits yellow light, replace the lamp with a new one promptly.



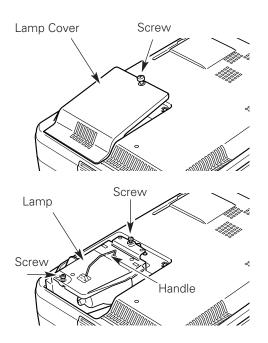


Allow the projector to cool, for at least 45 minutes before you open the Lamp cover. The inside of the projector can become very hot.

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

Follow these steps to replace the lamp.

- *I* Turn off the projector and disconnect the AC power cord. Allow the projector to cool for at least 45 minutes.
- 2 Loosen the screw with a screwdriver, and remove the lamp cover.
- **3** Loosen 2 screws of the lamp with a screwdriver and pull out the lamp by grasping the handle.
- **4** Replace the lamp with a new one and tighten the 2 screws back into position. Make sure that the lamp is set properly. Replace the lamp cover and tighten the screw.
- 5 Connect the AC power cord to the projector and turn on the projector.
- 6 Reset the Lamp replace counter. See "Lamp Replace 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.

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Model No. of your projector

LC-XB30

Replacement Lamp Type No.

POA-LMP55 (Service Parts No. 610 309 2706)

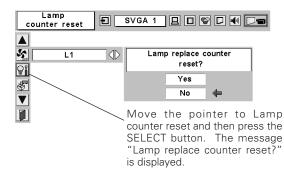
Lamp Replace Counter

Be sure to reset the lamp replace counter after the lamp is replaced. When the lamp replace counter is reset, the LAMP REPLACE indicator stops lighting.

- 1 Turn the projector on, press the MENU button and the On-Screen Menu will appear. Press the Point ◀► buttons to move the red frame pointer to the Setting Menu icon.
- 2 Press the Point ▼ button to move the red frame pointer to the Lamp counter reset item and then press the SELECT button. The message "Lamp replace counter reset?" is displayed. Move the pointer to [Yes] and then press the SELECT button.
- **3** Another confirmation dialog box appears and select [Yes] to reset the Lamp replace counter.

Note:

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



LAMP HANDLING PRECAUTIONS

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

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

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

If a lamp explodes, disconnect the projector's AC plug from the AC outlet immediately. Contact an authorized service 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 in "Connecting to a Computer", "Connecting to Video Equipment" and "Connecting to Component Video Equipment" on page17-19.
- Make sure all equipment is connected to AC outlet and the power is turned on.
- When you operate the projector with a computer and it does not project an image, restart the computer.

Problem:	- Solutions
No power	 Plug the power cord of the projector into the AC outlet. See if the POWER indicator emits red light. Wait 90-120 seconds after the projector is turned off when turning the projector back on. The projector can be turned on after the POWER indicator turns red. (See "Turning Off the Projector" on page 21.) Check the WARNING indicator. If the WARNING indicator emits red light, the projector cannot be turned on. (See "Warning Indicator" on page 49.) Check the projection lamp. (See page 52.) Unlock Key lock for the projector in the Setting Menu. (See page 46.)
Image is out of focus.	 Adjust focus of the projector. (See page 24.) Provide proper distance between the projector and the projection screen. (See page 15.) Check the projection lens to see if it needs cleaning. (See page 51.) Moving the projector from a cool to a warm place may result in moisture condensation on the projection lens. In such cases, leave the projector off and wait until condensation evaporates.
No image	 Check the connection between your computer or video equipment and the projector. (See page 17–19) See if the input signal is correctly output from your computer. Some laptop computers may need to be changed the setting for monitor output when connecting to a projector. See your computer's instruction manual fo the setting. It takes about 20 seconds to display an image after turning on the projector. See if the selected system is corresponding with your computer or video equipment. (See page 28 and 37) Select correct input source once again through menu operation. (See page 27, 35 and 36) Make sure the temperature is not out of the specified Operating temperature (41 °F ~ 95 °F (5°C ~ 35°C)).
Image is Left/Right reversed. Image is Top/Bottom reversed.	Check the Ceiling / Rear item. (See page 44.)Check the Ceiling item. (See page 44.)
No sound	 Check audio cable connection from audio input source. Adjust the audio source. Press the Volume + button. (See page 26.) Press the Mute button. (See page 26.)

Some displays are not seen during the operation.	- Check the Display item. (See page 43.)
PIN code dialog box appears at start-u	 p. – PIN code lock is being set. Input a PIN code (1234 or numbers you have set). (See page 20 and 47.)
Computer 2 cannot be selected.	 Select Computer 2 at the Terminal item in the Setting Menu. (See page 44.)
The Terminal item cannot be selected.	 The Terminal item in the Setting Menu cannot be selected after Computer 2 is selected. Select other input source such as Computer 1 or Video with the INPUT button on the top control, the COMPUTER button or the VIDEO button on the remote control so that the Terminal item can be selected.
The Remote Control does not work.	 Check the batteries. Make sure no obstruction is between the projector and remote control. Make sure you are not too far from the projector when using the remote control. Maximum operating range is 16.4' (5m). Make sure the code of the remote control is conformed to the projector. (See page 14 and 46.) Unlock Key lock for the remote control in the Setting Menu. (See page 46.)
Wireless Mouse function does not wor	 k. – Make sure your computer is connected to the projector with a USB cable. (See page 17.) – Check cable connection between the projector and your computer. (See page 17.)

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

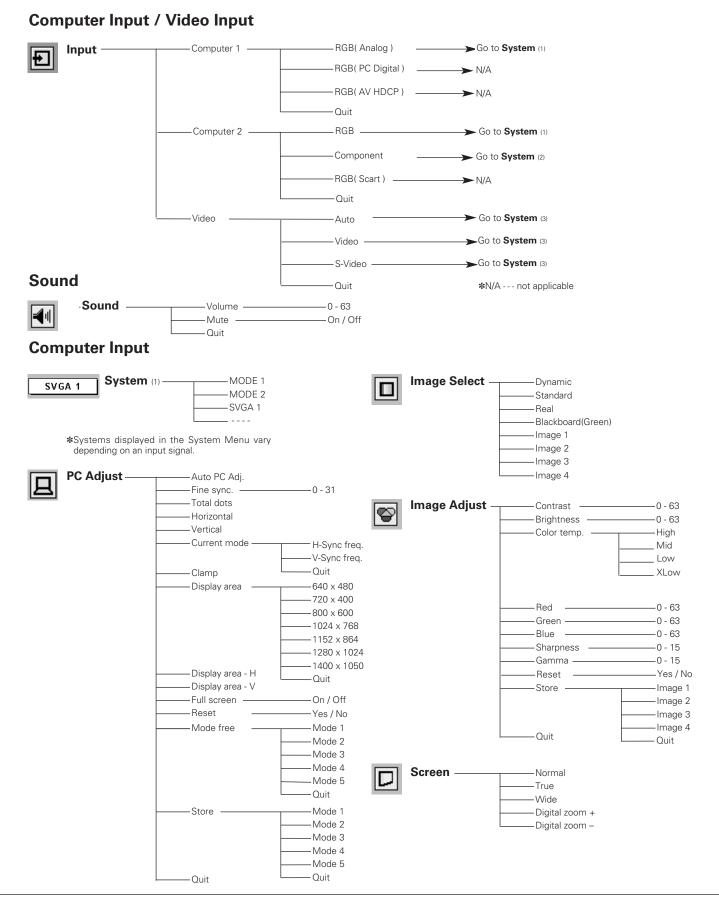
If problems still persist after following all operating instructions, contact the dealer where you purchased the projector or the service center. Give the model number and explain about the problem. We will advise you how to obtain service.

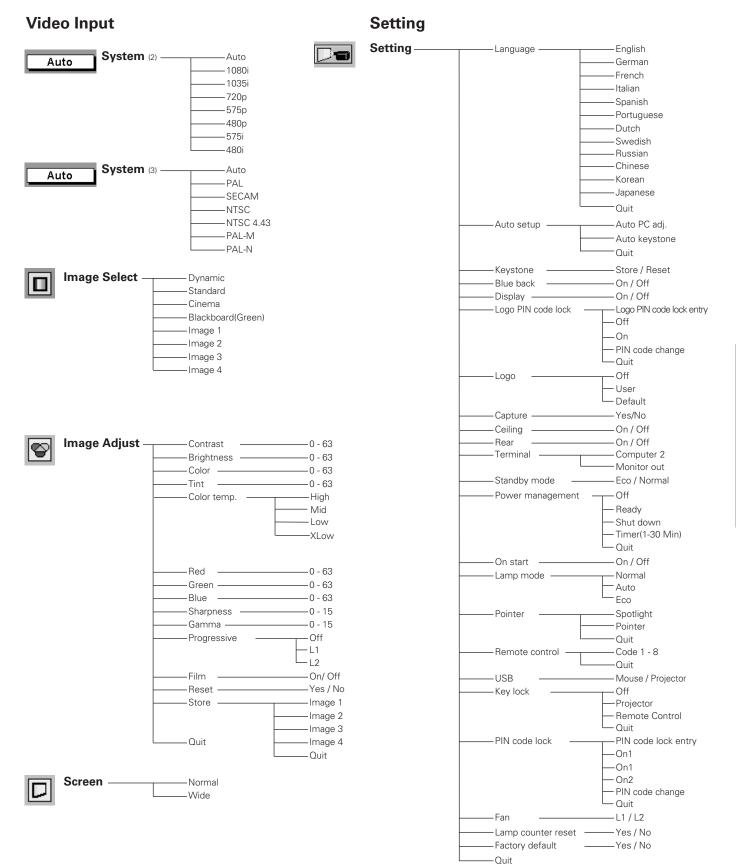
The CE Mark is a Directive conformity mark of the European Community (EC).



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.

Menu Tree





Indicators and Projector Condition

Check the indicators for projector condition.

Indicators		S			
POWER red/green	WARNING red	LAMP REPLACE yellow	Projector Condition		
•			The projector is off. (The AC power cord is unplugged.)		
		*	The projector is preparing for stand-by or the projection lamp is being cooled down. The projector cannot be turned on until cooling is completed.		
\bigotimes		*	The projector is ready to be turned on with the POWER ON-OFF button.		
\bigcirc		*	The projector is operating normally.		
\bigcirc		*	The projector is in the Power management mode.		
<u>\\</u>	Ŵ,	*	The temperature inside the projector is abnormally high. The projector cannot be turned on. When the projector is cooled down enough and the temperature returns to normal, the POWER indicator emits red light and the projector can be turned on. (The WARNING . indicator keeps blinking.) Check and clean the air filters.		
\oslash	Ŵ/ Ø	*	The projector has been cooled down enough and the temperature returns to normal. When turning on the projector, the WARNING indicator stops blinking. Check and clean the air filters.		
•	\bigotimes	*	The projector detects an abnormal condition and cannot be turned on. Unplug the AC power cord and plug it again to turn on the projector. If the projector is turned off again, disconnect 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.		

* When the life of the projection lamp draws to an end, the LAMP REPLACE indicator emits yellow light. When this indicator emits yellow light, replace the projection lamp with a new one promptly. Reset the Lamp replace counter after replacement of the lamp. See page 52 and 53.

Compatible Computer Specifications

LC-XB30 can basically accept the signal from all computers with the V, H-Frequency mentioned below and less than 140 MHz of Dot Clock.

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	XGA 12	1024 x 768	35.522	86.96 (Interlace)
VGA 2	720 x 400	31.47	70.09	XGA 13	1024 x 768	46.90	58.20
VGA 3	640 x 400	31.47	70.09	XGA 14	1024 x 768	47.00	58.30
VGA 4	640 x 480	37.86	74.38	XGA 15	1024 x 768	58.03	72.00
VGA 5	640 x 480	37.86	72.81	MAC 19	1024 x 768	60.24	75.08
VGA 6	640 x 480	37.50	75.00	MAC 21	1152 x 870	68.68	75.06
VGA 7	640 x 480	43.269	85.00	SXGA 1	1152 x 864	64.20	70.40
MAC LC13	640 x 480	34.97	66.60	SXGA 2	1280 x 1024	62.50	58.60
MAC 13	640 x 480	35.00	66.67	SXGA 3	1280 x 1024	63.90	60.00
575i		15.625	50.00 (Interlace)	SXGA 4	1280 x 1024	63.34	59.98
480i		15.734	60.00 (Interlace)	SXGA 5	1280 x 1024	63.74	60.01
SVGA 1	800 x 600	35.156	56.25	SXGA 6	1280 x 1024	71.69	67.19
SVGA 2	800 x 600	37.88	60.32	SXGA 7	1280 x 1024	81.13	76.107
SVGA 3	800 x 600	46.875	75.00	SXGA 8	1280 x 1024	63.98	60.02
SVGA 4	800 x 600	53.674	85.06	SXGA 9	1280 x 1024	79.976	75.025
SVGA 5	800 x 600	48.08	72.19	SXGA 10	1280 x 960	60.00	60.00
SVGA 6	800 x 600	37.90	61.03	SXGA 11	1152 x 900	61.20	65.20
SVGA 7	800 x 600	34.50	55.38	SXGA 12	1152 x 900	71.40	75.60
SVGA 8	800 x 600	38.00	60.51	SXGA 13	1280 x 1024	50.00	86.00 (Interlace)
SVGA 9	800 x 600	38.60	60.31	SXGA 14	1280 x 1024	50.00	94.00 (Interlace)
SVGA 10	800 x 600	32.70	51.09	SXGA 15	1280 x 1024	63.37	60.01
SVGA 11	800 x 600	38.00	60.51	SXGA 16	1280 x 1024	76.9 7	72.00
MAC 16	832 x 624	49.72	74.55	SXGA 17	1152 x 900	61.85	66.00
XGA 1	1024 x 768	48.36	60.00	SXGA 18	1280 x 1024	46.43	86.70 (Interlace)
XGA 2	1024 x 768	68.677	84.997	SXGA 19	1280 x 1024	63.79	60.18
XGA 3	1024 x 768	60.023	75.03	SXGA 21	1400 x 1050	63.90	60.00
XGA 4	1024 x 768	56.476	70.07	MAC	1280 x 960	75.00	75.08
XGA 5	1024 x 768	60.31	74.92	MAC	1280 x 1024	80.00	75.08
XGA 6	1024 x 768	48.50	60.02	480p		31.47	59.88
XGA 7	1024 x 768	44.00	54.58	575p		31.25	50.00
XGA 8	1024 x 768	63.48	79.35	720p		45.00	60.00
XGA 9	1024 x 768	36.00	87.17 (Interlace)	1035i		33.75	60.00 (Interlace)
XGA 10	1024 x 768	62.04	77.07	1080i		33.75	60.00 (Interlace)
XGA 11	1024 x 768	61.00	75.70	1080i		28.125	50.00 (Interlace)

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

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-SXGA 2	1280 x 1024	60.276	58.069
D-480p		31.47	59.94	D-SXGA 3	1280 x 1024	31.65	29.80
D-575p		31.25	50.00	D-720p		45.00	60.00
D-SVGA	800 x 600	37.879	60.32	D-1035i		33.75	60.00 (Interlace)
D-XGA	1024 x 768	43.363	60.00	D-1080i		33.75	60.00 (Interlace)
D-SXGA 1	1280 x 1024	63.98	60.02	D-1080i		28.125	50.00 (Interlace)

✔Note:

• When the input signal is D-SXGA 1, D-SXGA 2, or D-SXGA 3, images may not be displayed properly depending on computers.

Technical Specifications

Projector Type	Multi-media Projector
Dimensions (W x H x D)	11.73" x 2.8" x 8.58" (298mm x 71mm x 218mm) (Not including adjustable feet)
Net Weight	6.2 lbs (2.8kgs)
Feet Adjustment	0° to 11.8°
Panel Resolution	
LCD Panel System	0.8" TFT Active Matrix type, 3 panels
Panel Resolution	1,024 x 768 dots
Number of Pixels	2,359,296 (1,024 x 768 x 3 panels)
Signal Compatibility	
Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M, PAL-N
High Definition TV Signal	480i, 480p, 575i, 575p, 720p, 1035i, and 1080i
Scanning Frequency	H-sync. 15 ~ 100 KHz, V-sync. 50 ~ 100 Hz
Optical Information	
Projection Image Size (Diagonal)	Adjustable from 40" to 300"
Projection Lens	F 1.7 ~ 2.5 lens with f 20.0 mm ~ 30.0 mm with manual zoom and focus
Throw Distance	3.3' ~ 25.3' (1.0m ~ 7.7m)
Projection Lamp	200W
	20077
Interface	
Video Input Jack	RCA Type x 1
S-Video Input Jack	Mini DIN 4 pin x 1
Audio Input Jacks	RCA Type x 2
Computer Input 1 Terminal	DVI-I Terminal (Digital / Analog) X 1 (HDCP Compatible)
Computer Input 2/ Component Input / Monitor	(VGA) HDB15 Terminal X 1 (In / Out switchable)
Output Terminal	
Computer/ Component Audio Input Jacks	Mini Jack (stereo) x 1
Service Port Connector	Mini DIN 8 pin x 1
USB Connector	USB Series B receptacle x 1
Audio Output Jack	Mini Jack (stereo) x 1 (Variable)
Audio	
Internal Audio Amp	1.0W RMS
Built-in Speaker	1 speaker, ø1.1" (28mm)
Power	
Voltage and Power Consumption	AC 100 ~ 120 V (3.6 A Max. Ampere), 50 / 60 Hz (The U.S.A and Canada) AC 200 ~ 240 V (1.8 A Max. Ampere), 50 / 60 Hz (Continental Europe)
Operating Environment	
Operating Temperature	41 °F ~ 95 °F (5 °C ~ 35 °C)
Storage Temperature	14 °F ~ 140 °F (-10°C ~ 60 °C)
Remote Control	
Battery	AA, UM3 or LR6 Type x 2
Operating Range	16.4' (5m) / ±30°
Dimensions	2.0" x 1.0" x 7.1" (50mm x 27mm x 181mm)
Net Weight	0.34 lbs (154 g) (including batteries)

Accessories

- Owner's Manual AC Power Cord Remote Control and Batteries DVI-VGA Cable USB Cable Lens Cover with String and Screw Soft Carrying Bag PIN Code Label
- 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.
- The On-Screen Menu and figures in this manual may differ slightly from the product.

Optional Parts

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

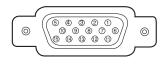
	Model No.
DVI Cable	: KA-DV20
COMPONENT-VGA Cable	: POA-CA-COMPVGA
SCART-VGA Cable	: POA-CA-SCART (This cable is used for RGB Scart 21-Pin Video output of video equipment.)
Multi Card Director	: MCD-100
Compact Flash Card	: CA-10
Wired LAN Card	: CA-20
Wireless LAN Card	: CA-30

When using the Wired or Wireless LAN Card, set the following name in the PJ Controller operation.

Model Name: 08-4-1

Configurations of Terminals

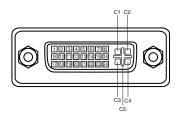
COMPUTER INPUT/COMPONENT INPUT/MONITOR OUTPUT TERMINAL (ANALOG) Terminal : HDB15-PIN



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

DVI-I TERMINAL (DIGITAL/ANALOG)

Terminal : DVI-I



C1	1 Analog Red Input				
C2	Analog Green Input				
C3	Analog Blue Input				
C4	Analog Horiz. sync				
C5	Analog Ground (R/G/B)				

1	T.M.D.S. Data2–	9	T.M.D.S. Data1–	17	T.M.D.S. Data0–
2	T.M.D.S. Data2+	10	T.M.D.S. Data1+	18	T.M.D.S. Data0+
3	T.M.D.S. Data2 Shield	11	T.M.D.S. Data1 Shield	19	T.M.D.S. Data0 Shield
4	No Connect	12	No Connect	20	No Connect
5	No Connect	13	No Connect	21	No Connect
6	DDC Clock	14	+5V Power	22	T.M.D.S. Clock Shield
7	DDC Data	15	Ground (for +5V)	23	T.M.D.S. Clock+
8	Analog Vert. sync	16	Hot Plug Detect	24	T.M.D.S. Clock-

SERVICE PORT CONNECTOR Terminal : Mini DIN 8-PIN



	Serial		
1	RXD		
2			
3			
4	GND		
5	RTS / CTS		
6	ТХD		
7	GND		
8	GND		

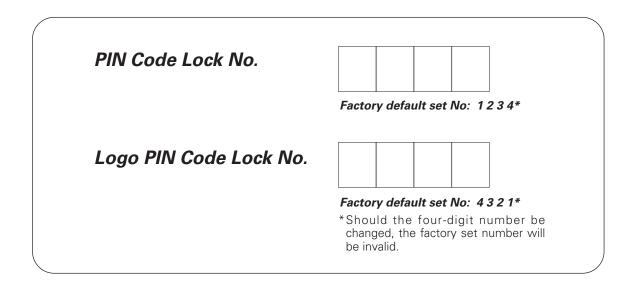
USB CONNECTOR (Series B)



1	Vcc		
2	- Data		
3	+ Data		
4	Ground		

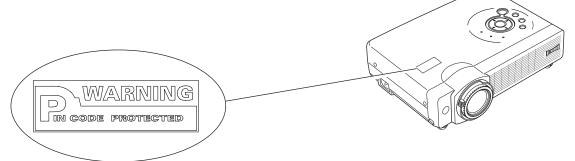
PIN Code Number Memo

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.





A-key to better communications

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