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Canon

Multimedia Projector

LV-7345 LV-7340

Owner's Manual



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E
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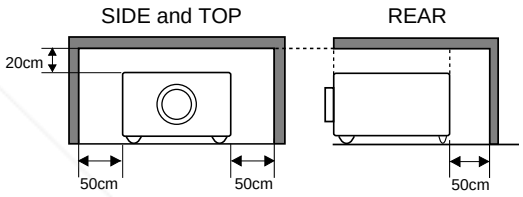
TO THE OWNER

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 “Trouble-shooting” section of the end of this booklet. If the problem still persists, contact the sales dealer where you purchased the projector or the service center.

⚠ SAFETY PRECAUTIONS

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.
- This projector should be set in the way indicated. If not, it may result in a fire hazard.
- Take appropriate space on the top, sides and rear of the projector cabinet for allowing air circulation and cooling the projector. Minimum distance should be taken. 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 build-up 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.
- Remote Control Unit, supplied to this projector, emits the laser beam as the laser pointer function from Laser Light Window while pressing LASER button (for 1 minute / LASER POINTER INDICATOR lights red to indicate laser emission). Do not look into Laser Light Window or shine the laser beam on yourself or other people. Eye damage may result.
- 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
RISK OF ELECTRIC SHOCK
DO NOT OPEN

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

THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT.	THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE OWNER'S MANUAL WITH THIS UNIT.

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SAFETY INSTRUCTIONS

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

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

Follow all warnings and instructions marked on the projector.

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

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

Do not use attachments not recommended by the manufacturer as they may cause hazards.

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

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



Slots and openings in the back and bottom of the cabinet are provided for ventilation, to insure 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.

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

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COMPLIANCES

Federal Communication Commission Notice

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

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.

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.

For use in Germany

This product is intended for use in residential, commercial and light industry environment.

Canadian Radio Interference Regulations

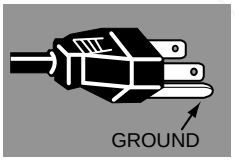
This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

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.

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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 extremely compact in size and weight. It is designed to carry and work anywhere you wish to use.

◆ Compatibility

This projector widely accepts various video and computer input signals including;

- **Computers**
  IBM-compatible or Macintosh computer up to 1280 x 1024 resolution.
- **6 Color Systems**
  NTSC, PAL, SECAM, NTSC 4.43, PAL-M or PAL-N color system can be connected.
- **Component Video**
  Component video signal, such as a DVD player output high definition TV signals including 480i, 480p, 575i, 575p, 720p, 1035i or 1080i, can be connected.
- **S-Video**
  S-Video signal, such as a S-VHS VCR output signal, can be connected.

◆ High Resolution Image

This projector provides 1024 x 768 dots resolution for computer input and 800 horizontal TV lines. Resolution from a computer between XGA (1024 x 768) and SXGA (1280 x 1024) is compressed into 1024 x 768 dots. This projector cannot display image of over 1280 x 1024 dots. When resolution of your computer is over than 1280 x 1024, reset a computer output for lower resolution.

◆ Multi-Scan System

This projector has Multi-Scan System to conform to almost all computer output signals quickly. There is no need for troublesome manual adjustment of frequency and other settings.

◆ One-Touch Auto PC Adjustment

Incoming computer video signals are recognized and the best adjustment is automatically set by Auto PC Adjustment. No complicated setup is necessary and projection is always precise.

◆ Turbo Bright System

Turbo Bright System switches picture brightness from normal setting to brighter mode, and it enables you to select better brightness for projected image.

◆ Digital Zoom (for Computer)

Digital Zoom function adjusts the image size to approx. 1/4 ~ 49 times of original image size, allowing you to focus on crucial information at a presentation.

◆ Keystone Correction

Positioning height of a projector may result in distorted image being displayed in a trapezoid shape. Keystone Correction solves this problem by digitally altering projection to produce undistorted images.

◆ Power Management

Power Management function is provided to reduce power consumption while a projector is not in use.
This Power Management function operates to turn Projection Lamp off when a projector detects signal interruption and any button is not pressed over 5 minutes. Projection Lamp is automatically turned on again when a projector detects signal or any operation button is pressed.
This projector is shipped with this function ON.

◆ Digital Visual Interface

This projector is equipped with DVI 24-pin terminal for connecting DVI output from a computer.

◆ Laser Pointer Function

Remote Control Unit supplied with this projector includes Laser Pointer function. This function helps you to make a smart presentation on a projected screen.

◆ Wireless Mouse

Remote Control Unit supplied with this projector has Wireless Mouse function for a connected computer. This function enables you to operate both projector and computer with Remote Control Unit only.

◆ Multilanguage Menu Display

Operation menu is displayed in; English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Chinese, Korean or Japanese.

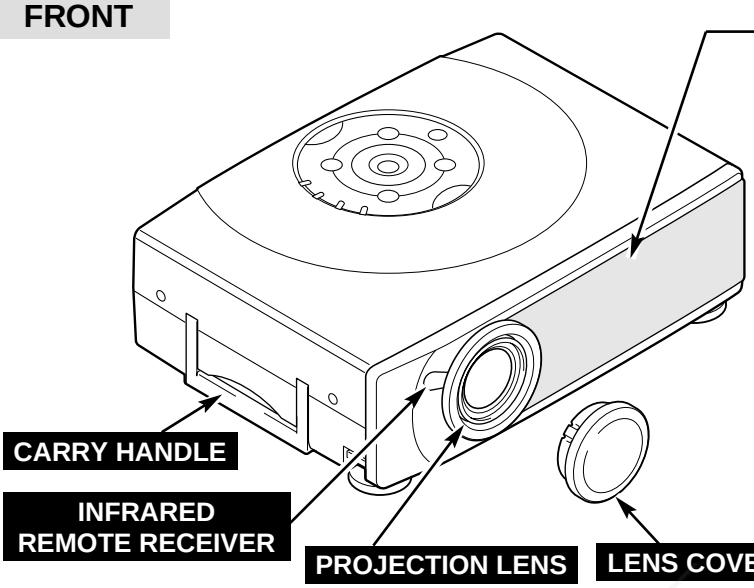
◆ Media Card Imager (Optional)

Optional Media Card Imager is available for this projector. Contact the sales dealer where you purchased this projector for optional parts.

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NAME OF EACH PART OF PROJECTOR

FRONT



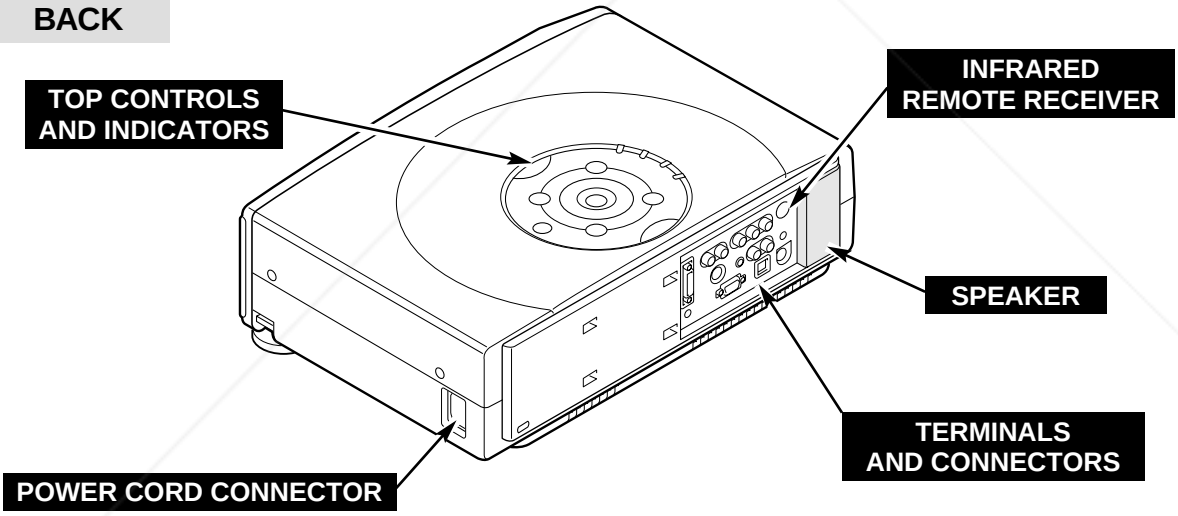
HOT AIR EXHAUSTED !

Air blown from Exhaust Vents is hot. When using or installing projector, following precautions should be taken.

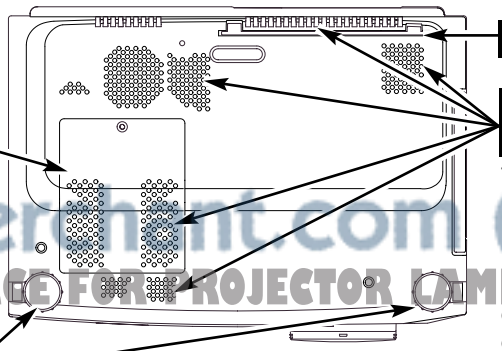
- Do not put any flammable object near these vents.
- Keep front grills at least 3'(1m) away from any object, especially heat-sensitive object.
- Do not touch this area, especially screw and metallic part. This area will become hot while a projector is used.

This projector detects internal temperature and automatically controls operating power of Cooling Fans.

BACK



BOTTOM



This projector is equipped with Cooling Fans for protection from overheating. Pay attention to the following to ensure proper ventilation and avoid a possible risk of fire and malfunction.

- Do not cover vent slots.
- Keep back and bottom clear of any object. Obstructions may block cooling air.

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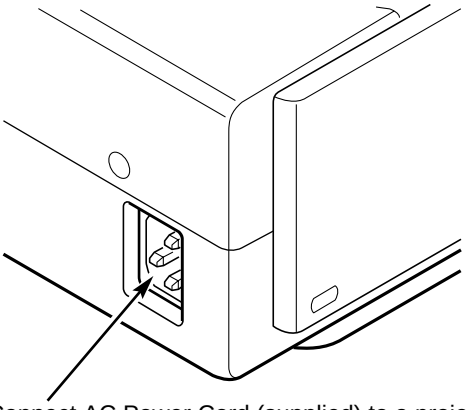
SETTING-UP PROJECTOR

CONNECTING 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 supply being in use.
Connect a projector with a peripheral equipment before turning a projector on. (Refer to pages 11 ~ 13 for connection.)

CAUTION

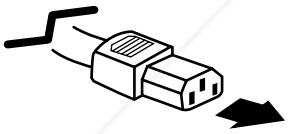
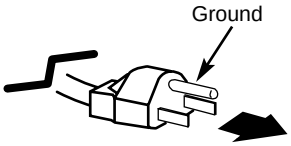
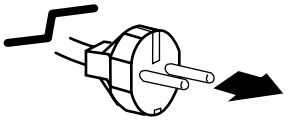
For safety, unplug AC Power Cord when an appliance is not used.
When this projector is connected to the outlet with AC Power Cord, an appliance is in Stand-by Mode and consumes a little electric power.



Connect AC Power Cord (supplied) to a projector. The AC outlet must be near this equipment and must be easily accessible.

NOTE ON THE POWER CORD

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

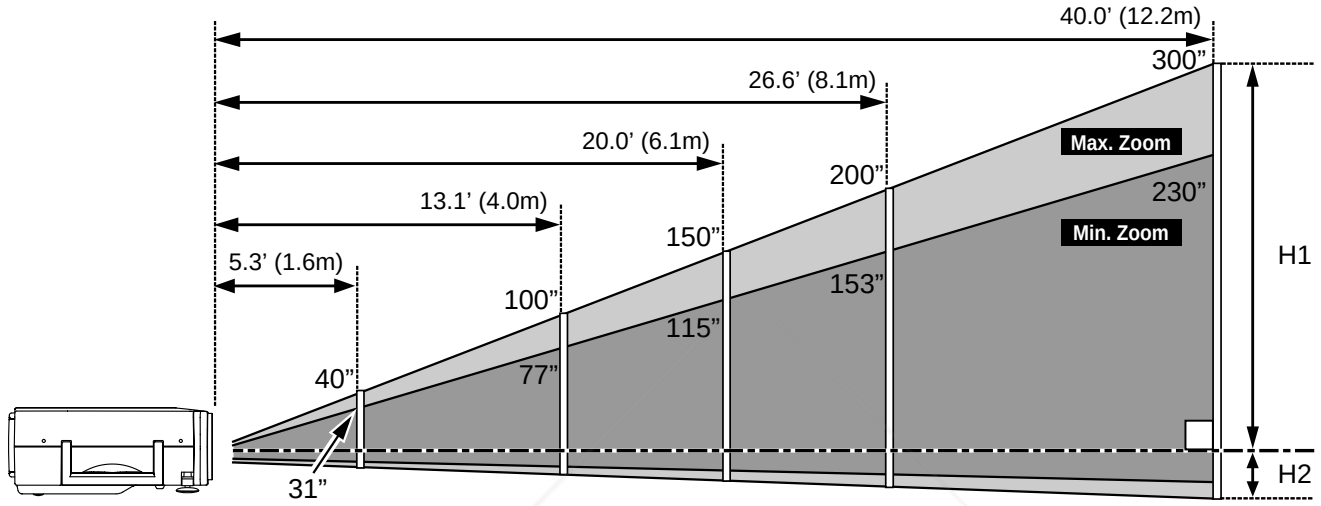
Projector side	AC Outlet side	
	For the U.S.A. and Canada	For Continental Europe
 To the POWER CORD CONNECTOR on the projector.	 Ground To the AC Outlet. **(120 V AC)**	 To the AC Outlet. **(200 - 240 V AC)**

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POSITIONING PROJECTOR

- This projector is designed to project on a flat projection surface.
- The projector can be focused from 5.3'(1.6m) ~ 40.0'(12.2m).
- Refer to the figure below to adjust a screen size.

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



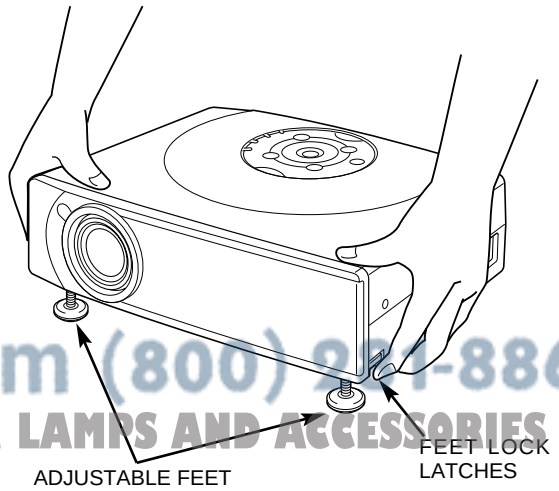
Screen Size (W x H) mm	31"	40"	100"	150"	200"	300"
	629.9 x 472.4	812.8 x 609.6	2032 x 1524	3048 x 2286	4064 x 3048	6096 x 4572
Height (H1)	16.7"(425.16mm)	21.6"(548.64mm)	54"(1371.6mm)	81"(2057.4mm)	108"(2743.2mm)	162"(4114.8mm)
Height (H2)	1.9"(47.24mm)	2.4"(60.96mm)	6"(152.4mm)	9"(228.6mm)	12"(304.8mm)	18"(457.2mm)

ADJUSTABLE FEET

Picture tilt and projection angle can be adjusted by rotating Adjustable Feet. Projection angle can be adjusted to 15.6 degrees.

1. Lift the front of a projector and pull Feet Lock Latches on the both sides of a projector.
2. Release Feet Lock Latches to lock Adjustable Feet and rotate Adjustable Feet to fine tune position and tilt.
3. To retract Adjustable Feet, lift the front of a projector and pull and undo Feet Lock Latches.

Keystone distortion of a projected image can be adjusted by Menu Operation. (Refer to P20 and 35.)



CAUTION

Avoid positioning a projector with the angle of more than 20 degrees. Projection Lamp may malfunction.

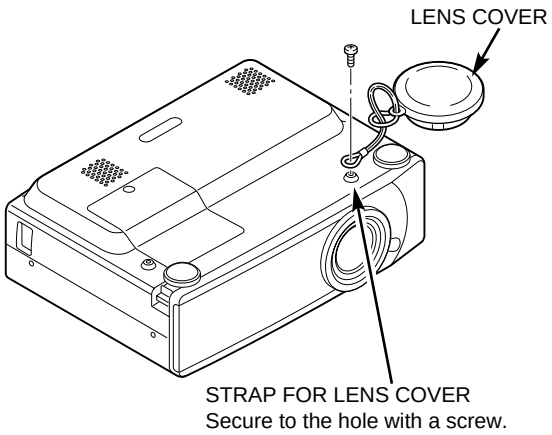
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MOUNTING LENS COVER

When moving this projector or when it is not used for an extended period, replace Lens Cover.
Before replacing Lens Cover, be sure to turn the projector off and disconnect AC Power cord from an AC outlet.

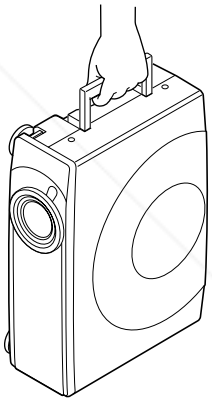
1 Secure Strap for Lens Cover through a hole of Lens Cover.

2 Turn projector upside down and secure Strap for Lens Cover to a hole on the bottom of projector with a screw.



MOVING PROJECTOR

Use Carry Handle when moving a projector.
When moving a projector, replace Lens Cover and retract Adjustable Feet to prevent damage to the lens and cabinet.
When a projector is not in use for an extended period, put it into the case (carrying bag) supplied with a projector.



CAUTION

Carrying Bag (supplied) is intended for protection from dust and scratches on the surface of a cabinet, and it is not designed to protect an appliance from external forces. Do not transport a projector through a courier or transport services with this bag. The projector can be damaged. When handling a projector, do not drop, bump, subject it to strong forces or put other things on the cabinet.

CAUTION IN CARRYING OR TRANSPORTING THE PROJECTOR

- Do not drop or bump a projector, otherwise damages or malfunctions may result.
- When carrying a projector, use a suitable carrying case.
- Do not transport a projector by using a courier or transport service in an unsuitable transport case. This may cause damage to a projector. To transport a projector through a courier or transport service, consult your dealer for best way.

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TERMINALS OF PROJECTOR

This projector has input and output terminals on its back for connecting computers and video equipment. Refer to figures on pages 11 to 13 and connect properly.

S-VIDEO INPUT JACK

Connect the S-VIDEO output from video equipment to this jack. (Refer to P12.)

AUDIO INPUT JACKS

Connect the audio output from video equipment to these jacks.
(Refer to P12.)

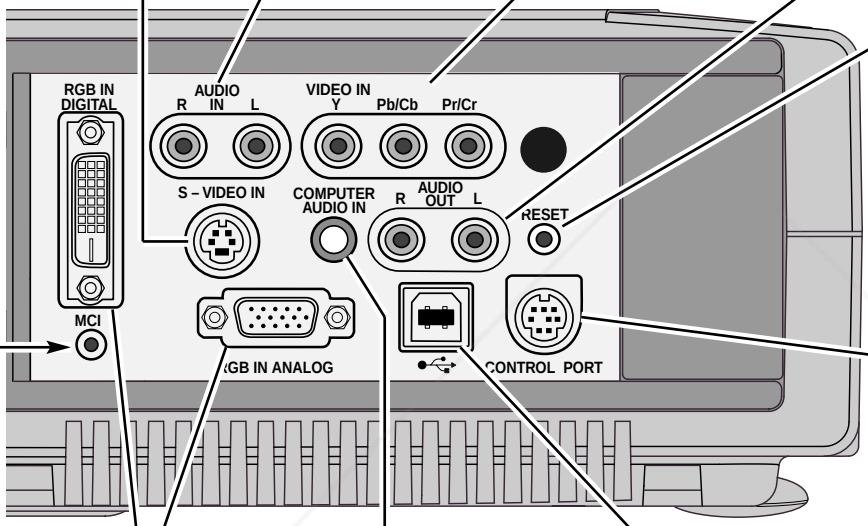
- When the audio output is monaural, connect it to L (mono) jack.

VIDEO INPUT JACKS

Connect the composite video output from video equipment to Y jack or connect the component video outputs to Y, Pb/Cb and Pr/Cr jacks. (Refer to P12.)

AUDIO OUTPUT JACKS

Connect an external audio amplifier to these jacks.
(Refer to P12, 13.)



RESET BUTTON

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

CONTROL PORT CONNECTOR

When controlling the computer with Remote Control Unit of this projector, connect the mouse port of your personal computer to this connector. (Refer to P13.)

RGB INPUT TERMINALS (DIGITAL/ANALOG)

Connect the computer (digital/analog) output to one of these terminals. (Refer to P13.)

COMPUTER AUDIO INPUT JACK

Connect the audio output (stereo) from computer to this jack. (Refer to P13.)

USB CONNECTOR (Series B)

When controlling the computer with Remote Control Unit of this projector, connect USB port of your personal computer to this connector. (Refer to P13.)

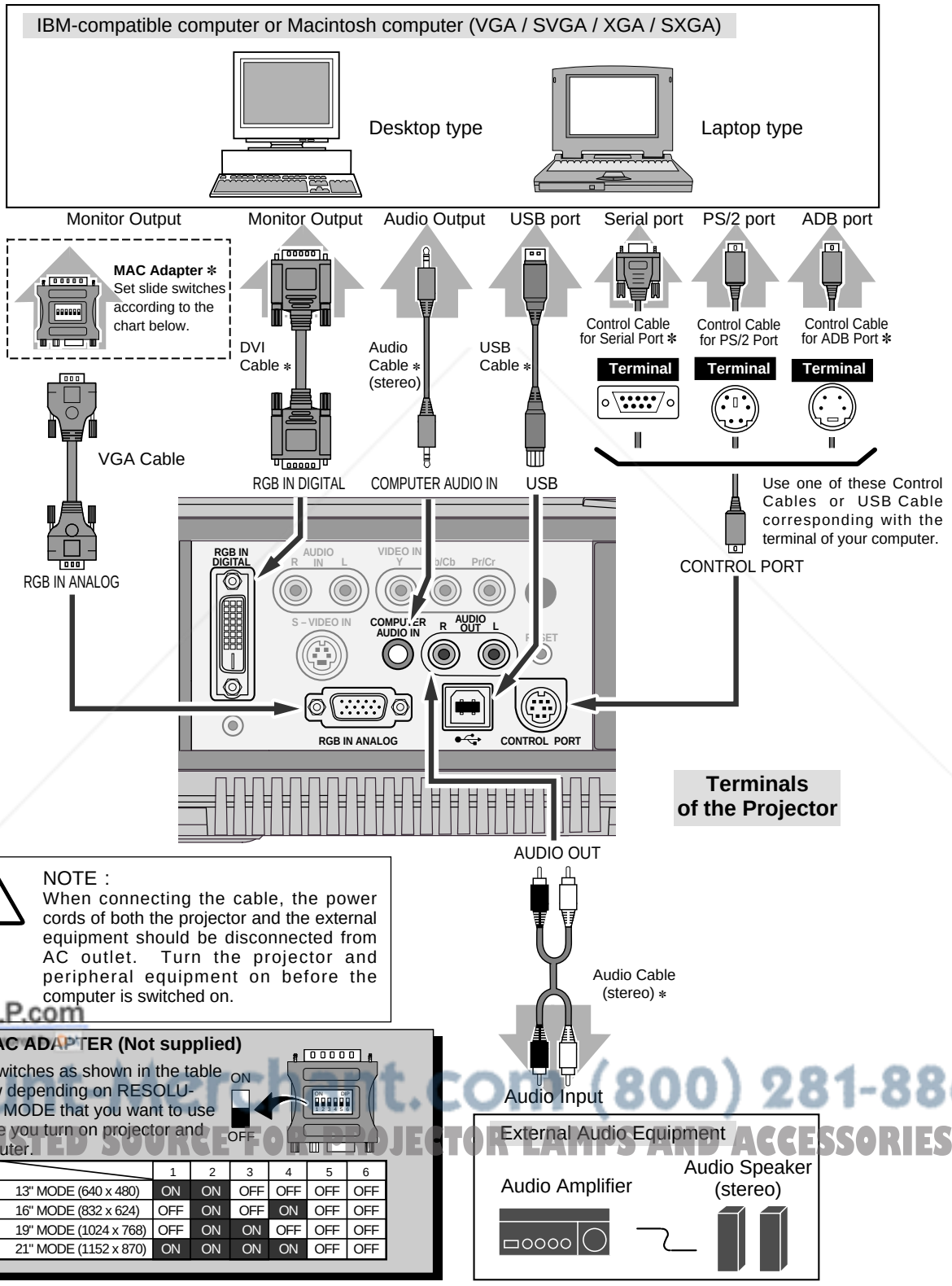
✻ Do not press this button. This button is used for our optional accessories.

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CONNECTING TO COMPUTER

Cables used for connection (✻ = Cable or adapter is not supplied with this projector.)

- VGA Cable (HDB 15 pin)
- Control Cable for PS/2 Port
- DVI-Digital Cable (for Single Link T.M.D.S.) ✻
- Control Cable for Serial Port ✻, or ADB Port ✻
- USB Cable ✻
- MAC Adapter (When connecting to Macintosh computer) ✻
- Audio Cables (RCA x 2 and Mini Plug (stereo) x 1) ✻



NOTE :
When connecting the cable, the power cords of both the projector and the external equipment should be disconnected from AC outlet. Turn the projector and peripheral equipment on before the computer is switched on.

◆ MAC ADAPTER (Not supplied)

Set switches as shown in the table below depending on RESOLUTION MODE that you want to use before you turn on projector and computer.

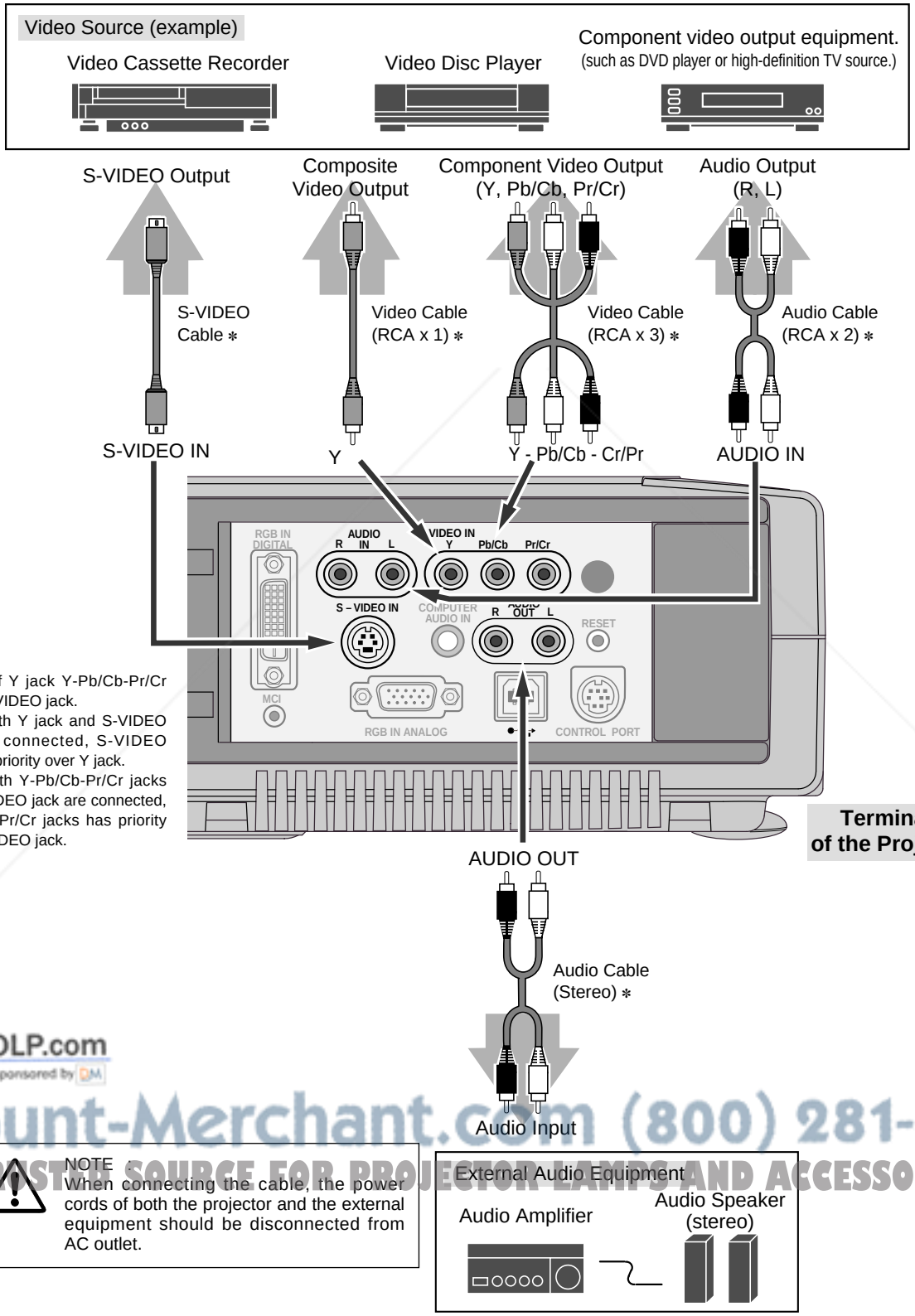
	1	2	3	4	5	6
13" MODE (640 x 480)	ON	ON	OFF	OFF	OFF	OFF
16" MODE (832 x 624)	OFF	ON	OFF	ON	OFF	OFF
19" MODE (1024 x 768)	OFF	ON	ON	OFF	OFF	OFF
21" MODE (1152 x 870)	ON	ON	ON	ON	OFF	OFF

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CONNECTING TO VIDEO EQUIPMENT

Cables used for connection (∗ = Cable is not supplied with this projector.)

- Video Cable (RCA x 1 or RCA x 3) ∗
- S-VIDEO Cable ∗
- Audio Cable (RCA x 2) ∗

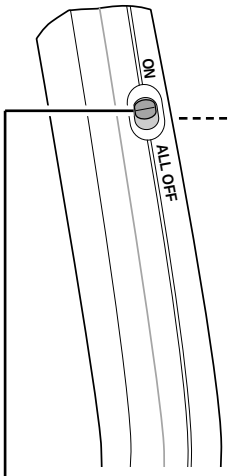


NOTE :
When connecting the cable, the power cords of both the projector and the external equipment should be disconnected from AC outlet.

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OPERATION OF REMOTE CONTROL

Left Side

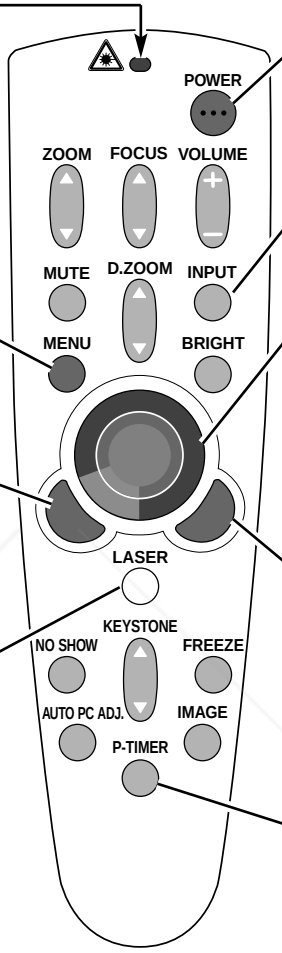


ALL-OFF SWITCH

When using Remote Control Unit, turn this switch to “ON.” And turn it to “ALL OFF” when it is not used.

LASER POINTER INDICATOR

Lights red while laser beam is emitted from Laser Light Window.



POWER ON-OFF BUTTON

Used to turn projector on or off. (P19)

INPUT BUTTON

Used to select input source. (P22, 30)

MENU BUTTON

Used to select MENU operation. (P17, 18)

POINT BUTTON

Used to move a pointer on ON-SCREEN MENU, adjust each item, or pan image in DIGITAL ZOOM +/– mode. (P29)
It is also used as a PC mouse in Wireless Mouse Operation. (P37)

✻ When pressing the center of this button, it works as SET button.

SET BUTTON

Used to execute the item selected, or to expand or compress the image in DIGITAL ZOOM +/– mode. (P29)
It is also used as a PC mouse in Wireless Mouse Operation. (P37)

RIGHT CLICK BUTTON

Used as a PC mouse in Wireless Mouse Operation. (P37)

LASER BUTTON

Used to operate 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 LASER button and press it again.

P-TIMER BUTTON

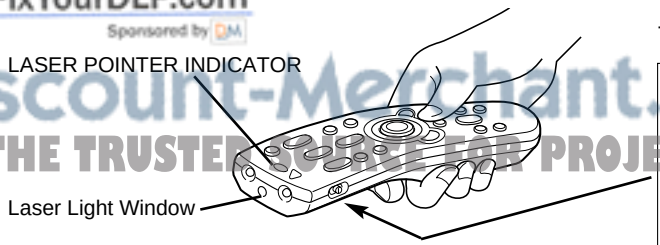
Used to operate P-TIMER function. (P21)

LASER POINTER FUNCTION

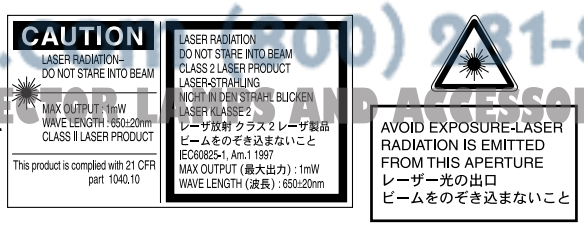
This Remote Control Unit emits a laser beam as the laser pointer function from Laser Light Window. When LASER button is pressed, the laser light goes on. And when LASER button is being pressed for more than 1 minute or LASER button is released, light goes off. LASER POINTER INDICATOR lights RED and Laser is emitted with RED light to indicate laser beam is being emitted.
The laser emitted is a class II laser; therefore, do not look into Laser Light Window or shine the laser beam on yourself or other people. The three marks bellow are the caution labels for the laser beam.

CAUTION : Use of controls, adjustments or performance of procedures other than those specified herein may result hazardous radiation exposure.

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These caution labels are put on the remote control.



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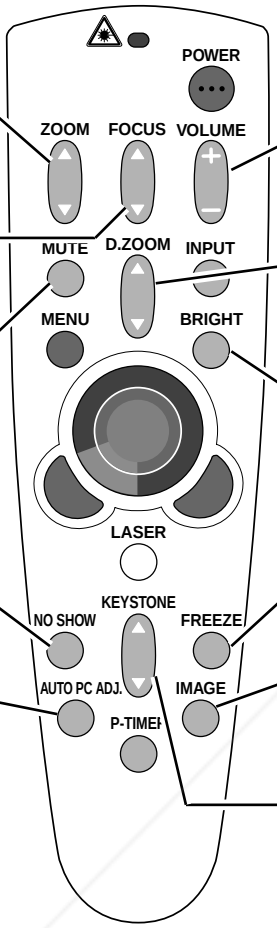
ZOOM BUTTON
Used to adjust zoom. (P20)

FOCUS BUTTON
Used to adjust focus. (P20)

MUTE BUTTON
Used to mute sound.(P21)

NO SHOW BUTTON
Used to turn the picture into black image. (P21)

AUTO PC ADJ. BUTTON
Use to operate AUTO PC Adjustment function. (P24)



VOLUME BUTTON
Used to adjust volume. (P21)

D.ZOOM BUTTON
Used to select DIGITAL ZOOM +/– mode and resize image. (P29)

BRIGHT BUTTON
Used to enhance picture brightness. (P20)

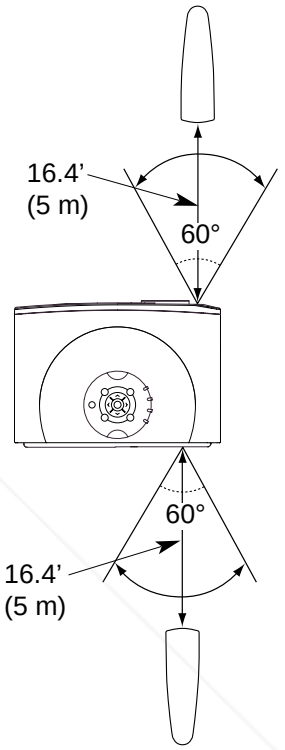
FREEZE BUTTON
Used to freeze the picture. (P21)

IMAGE BUTTON
Used to select image level. (P27, 32)

KEYSTONE BUTTON
Used to correct keystone distortion. (P20, 35)

Operating Range

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



Remote Control Batteries Installation

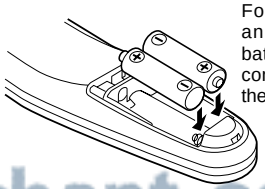
1 Remove the battery compartment lid.

Press the lid downward and slide it.

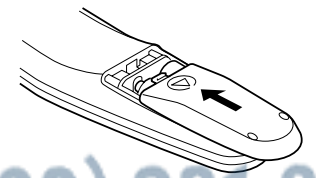


2 Slide the batteries into the compartment.

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



3 Replace the compartment lid.



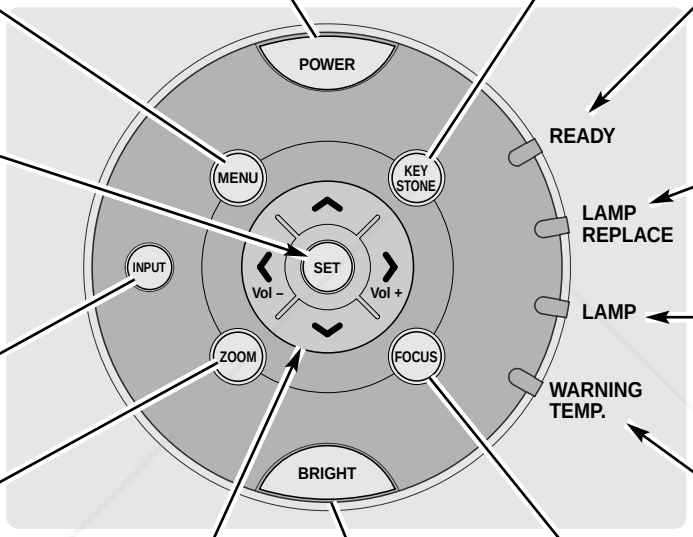
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To insure safe operation, please observe the following precautions :

- Use (2) AA, UM3 or R06 type alkaline batteries.
- Replace two batteries at the same time.
- Do not use a new battery with an used battery.
- Avoid contact with water or liquid.
- Do not expose Remote Control Unit to moisture, or heat.
- Do not drop Remote Control Unit.
- If a battery has leaked on Remote Control Unit, carefully wipe the case clean and load new batteries.

TOP CONTROLS AND INDICATORS

This projector has CONTROL BUTTONS (TOP CONTROLS) and INDICATORS on its top.



POWER ON–OFF BUTTON
Used to turn a projector on or off. (P19)

KEYSTONE BUTTON
Used to correct keystone distortion. (P20, 35)

MENU BUTTON
Used to open or close ON-SCREEN MENU operation. (P17, 18)

READY INDICATOR
Lights green when the projector is ready to be turned on, and flashes green while in Power Management mode. (P36)

SET BUTTON
Used to execute the item selected. It is also used to expand / compress the image in DIGITAL ZOOM mode. (P29)

LAMP REPLACE INDICATOR
Turns to yellow when the life of Projection Lamp draws to an end. (P39)

INPUT BUTTON
Used to select input source. (P22, 30)

LAMP INDICATOR
Becomes dim when the projector is turned on. And bright when the projector is in stand-by mode.

ZOOM BUTTON
Used to adjust zoom. (P20)

WARNING TEMP. INDICATOR
Flashes red while internal projector temperature is too high. (P38)

POINT (VOLUME + / –) BUTTONS
Used to select an item or adjust value in ON-SCREEN MENU. They are also used to pan the image in DIGITAL ZOOM +/– mode. (P29)
POINT LEFT/RIGHT buttons are also used as VOLUME +/– buttons.

BRIGHT BUTTON
Used to enhance picture brightness. (P20)

FOCUS BUTTON
Used to adjust focus. (P20)

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OPERATING ON-SCREEN MENU

HOW TO OPERATE ON-SCREEN MENU

You can control and adjust this projector through ON-SCREEN MENU. Refer to the following pages to operate each adjustment on ON-SCREEN MENU.

1 DISPLAY MENU

Press MENU button to display ON-SCREEN MENU.

2 MOVING POINTER

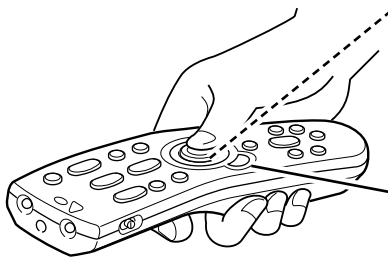
Move the pointer (✻ see below) or adjust the value of item by pressing POINT button(s) on Top Control or on Remote Control Unit.

✻ Pointer is the icon on ON-SCREEN MENU to select the item. See the figures on the section "FLOW OF ON-SCREEN MENU OPERATION" below.

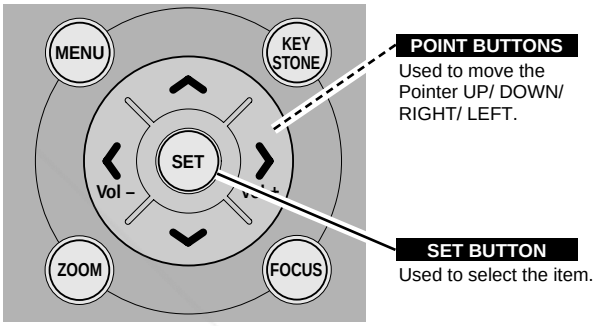
3 SELECT ITEM

Select the item or set selected function by pressing SET button.

WIRELESS REMOTE CONTROL



TOP CONTROL



FLOW OF ON-SCREEN MENU OPERATION

Display ON-SCREEN MENU

1 Press MENU button to display ON-SCREEN MENU (MENU BAR). A red frame is POINTER.

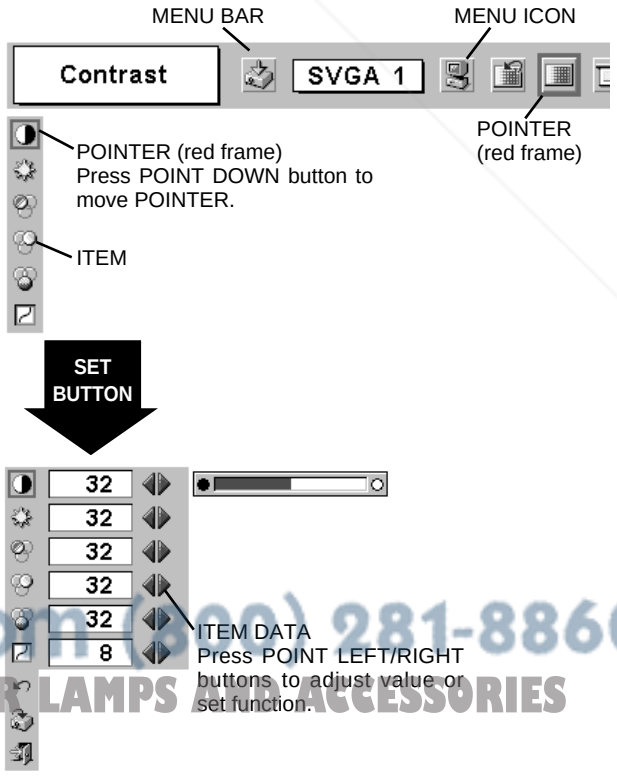
Select Menu to be adjusted

2 Move POINTER (red frame) to MENU ICON that you want to select by pressing POINT RIGHT / LEFT buttons.

Control or adjust item through ON-SCREEN MENU

3 Press POINT DOWN button and move POINTER (red frame or red arrow) to ITEM that you want to adjust, and then press SET button to show ITEM DATA.

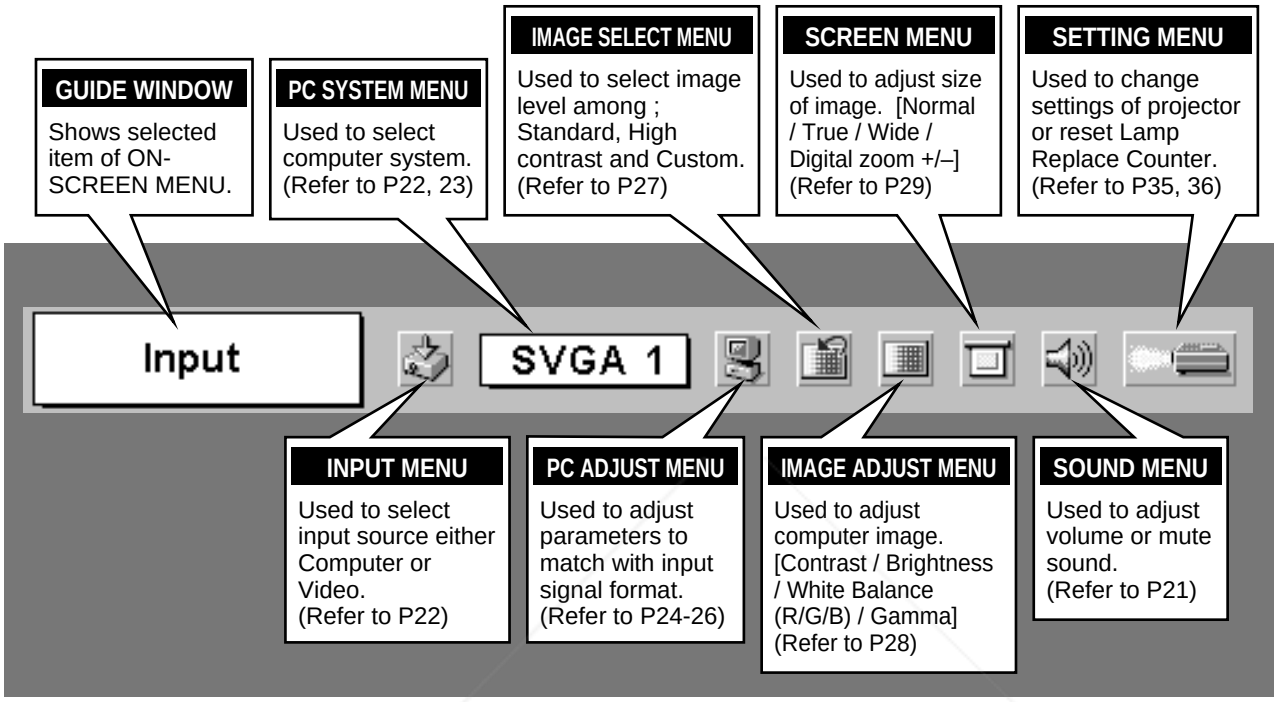
4 Adjust ITEM DATA by pressing POINT RIGHT / LEFT buttons.
Refer to the following pages for details of respective adjustments.



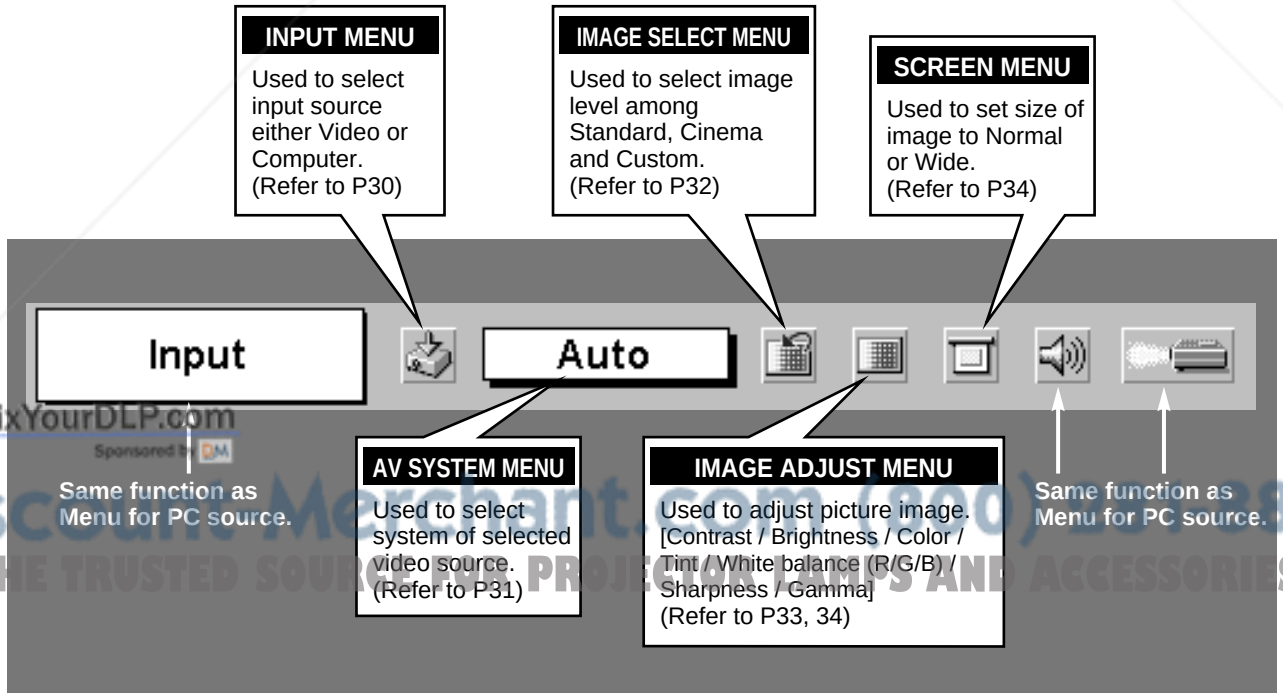
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MENU BAR

FOR PC SOURCE Press MENU BUTTON while connecting to PC input source.



FOR VIDEO SOURCE Press MENU BUTTON while connecting to VIDEO input source.



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TURNING ON / OFF PROJECTOR

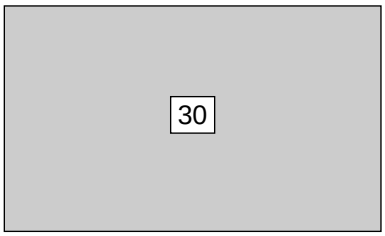
TURNING ON PROJECTOR

1. Complete peripheral connections (with Computer, VCR, etc.) before turning on projector. (Refer to "CONNECTING TO PROJECTOR" on pages 11~13 for connecting that equipment.)

2. Connect the projector's AC Power Cord into an AC outlet. LAMP Indicator lights RED, and READY Indicator lights GREEN.

   NOTE : When “On start” function is ON, this projector is turned on automatically by connecting AC Power Cord to an AC outlet. (Refer to pages 35, 36.)

3. Press POWER ON-OFF button on Top Control or on Remote Control Unit to ON. LAMP Indicator dims, and Cooling Fans start to operate. Preparation Display appears on a screen and the count-down starts. The signal from PC or Video source appears after 30 seconds.



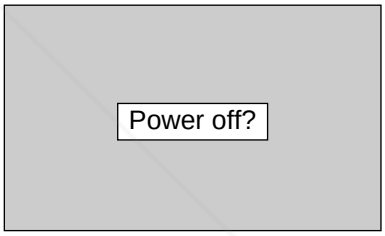
Preparation Display disappears after 30 seconds.

TURNING OFF PROJECTOR

1. Press POWER ON-OFF button on Top Control or on Remote Control Unit, and a message "Power off?" appears on a screen.

2. Press POWER ON-OFF button again to turn off projector. LAMP Indicator lights bright and READY Indicator turns off. After projector is turned off, Cooling Fans operate (for 90 seconds). During this "Cooling Down" period, this appliance cannot be turned on.

3. When projector has cooled down, READY Indicator lights GREEN again and you can turn projector on. After cooling down completely, disconnect AC Power Cord.



Message disappears after 4 seconds.

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

When “Power Management” function is ON, projector detects signal interruption and turns off Projection Lamp automatically. Refer to “Power Management” on pages 35 and 36.

When WARNING TEMP. Indicator flashes red, projector is automatically turned off. Wait at least 5 minutes before turning on projector again.
When WARNING TEMP. Indicator continues to flash, follow procedures below:
1. Press POWER ON-OFF button to turn a projector off and disconnect AC Power Cord from an AC outlet.
2. Check Air Filters for dust accumulation.
3. Clean Air Filters. (See "AIR FILTER CARE AND CLEANING" section on page 38.)
4. Turn a projector on again.

If WARNING TEMP. Indicator should still continue to flash, contact the sales dealer where you purchased this projector or service center.

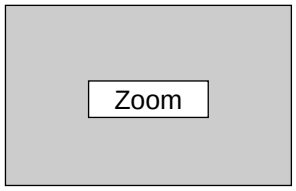
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ADJUSTING SCREEN

ZOOM ADJUSTMENT

1 Press ZOOM button on Top Control or ZOOM ▲/▼ button on Remote Control Unit. The message “Zoom” is displayed.

2 Press ZOOM ▲ button or POINT UP button to make image larger, and press ZOOM ▼ button or POINT DOWN button to make image smaller.

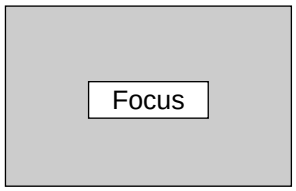


Message disappears after 4 seconds.

FOCUS ADJUSTMENT

1 Press FOCUS button on Top Control or FOCUS ▲/▼ button on Remote Control Unit. The message “Focus” is displayed.

2 Adjust focus of image by pressing FOCUS ▲/▼ button or POINT UP/DOWN button(s) .



Message disappears after 4 seconds.

KEYSTONE ADJUSTMENT

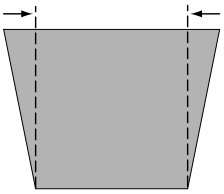
If a projected picture has keystone distortion, correct image with KEYSTONE adjustment.

1 Press KEYSTONE (▲/▼) button on Top Control or on Remote Control Unit, or select Keystone on SETTING menu. (Refer to P35.) Keystone dialog box appears.

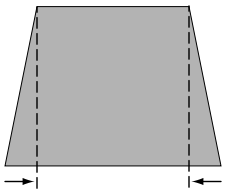
2 Correct keystone distortion by pressing KEYSTONE ▲/▼ button or POINT UP/DOWN button(s). Press KEYSTONE ▲ button or POINT UP button to reduce the upper part of image, and press KEYSTONE ▼ button or POINT DOWN button to reduce the lower part.



Reduce the upper width with KEY STONE ▲ button or POINT UP button.



Reduce the lower width with KEY STONE ▼ button or POINT DOWN button.



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TURBO BRIGHT FUNCTION

Turbo Bright System enhances picture brightness. When BRIGHT button is pressed to on, the message “Bright on” is displayed and BRIGHT button lights orange. To return to original picture brightness, press BRIGHT button again.

✻ When Turbo Bright System is set to on, the color of image may change slightly.

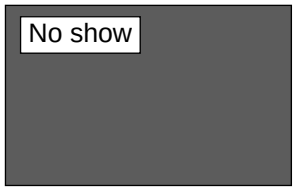


Message disappears after 4 seconds.

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NO SHOW FUNCTION

Press NO SHOW button on Remote Control Unit to black out the image. To restore to normal, press NO SHOW button again or press any other button.



Message disappears after 4 seconds.

PICTURE FREEZE FUNCTION

Press FREEZE button on Remote Control Unit to freeze the picture on-screen. To cancel FREEZE function, press FREEZE button again or press any other button.

P-TIMER FUNCTION

Press P-TIMER button on Remote Control unit. The timer display "00 : 00" appears and the timer starts to count time (00 : 00 ~ 59 : 59).
To stop P-TIMER display, press P-TIMER button. And then, press P-TIMER button again to cancel P-TIMER function.



SOUND ADJUSTMENT

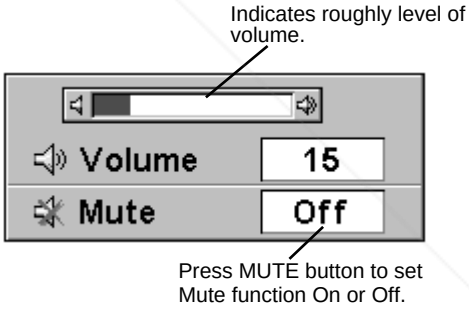
DIRECT OPERATION

Volume

Press VOLUME (+/–) button(s) on Top Control or on Remote Control Unit to adjust volume. Volume dialog box appears. (+) button to increase volume, and (–) button for decreasing.

Mute

Press MUTE button on Remote Control Unit to cut off sound. To restore sound to its previous level, press MUTE button again or press Volume (+/–) button(s).



Dialog box disappears after 4 seconds.

MENU OPERATION

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to move a red frame pointer to SOUND Menu icon.

2 Press POINT DOWN button to move a red frame pointer to the item that you want to select, and then press SET button.

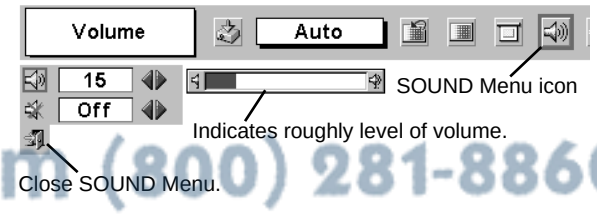
Volume

Press POINT RIGHT button to increase volume, and press POINT LEFT button for decreasing.

Mute

Press POINT LEFT/RIGHT button to cut off sound. Dialog box display is changed to "On" and sound is cut off. To restore sound to its previous level, press POINT LEFT/RIGHT button again.

SOUND MENU

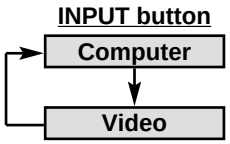


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SELECTING INPUT SOURCE

DIRECT OPERATION

Choose Computer by pressing INPUT button on Top Control or on Remote Control Unit.
If projector cannot reproduce proper image, select correct input source through MENU OPERATION (see below).



MENU OPERATION

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to INPUT Menu icon.

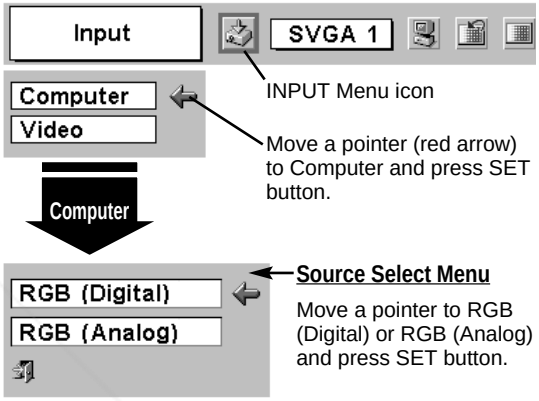
2 Press POINT DOWN button to move a red arrow pointer to Computer and then press SET button. Source Select Menu will appear.

3 Move a pointer to either RGB (Digital) or RGB (Analog) and then press SET button.

RGB (Digital) When your computer is connected to RGB INPUT (DIGITAL) terminal, select RGB (Digital).

RGB (Analog) When your computer is connected to RGB INPUT (ANALOG) terminal, select RGB (Analog).

INPUT MENU



SELECTING COMPUTER SYSTEM

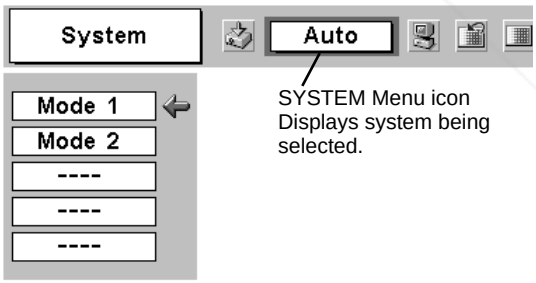
This projector automatically tunes to most different types of computers based on VGA, SVGA, XGA or SXGA (refer to "COMPATIBLE COMPUTER SPECIFICATION" on page 23). When selecting Computer, this projector automatically tunes to incoming signal and projects proper image without any special setting. (Some computers need setting manually.)

Note : Projector may display one of the following messages.

Auto When projector cannot recognize connected signal as PC system provided in this projector, Auto PC Adjustment function operates to adjust projector and the message "Auto" is displayed on SYSTEM Menu icon. (Refer to P24.) When image is not provided properly, manual adjustment is required. (Refer to P25 and 26.)

---- There is no signal input from computer. Make sure the connection of computer and a projector is set correctly. (Refer to TROUBLESHOOTING on page 40.)

PC SYSTEM MENU



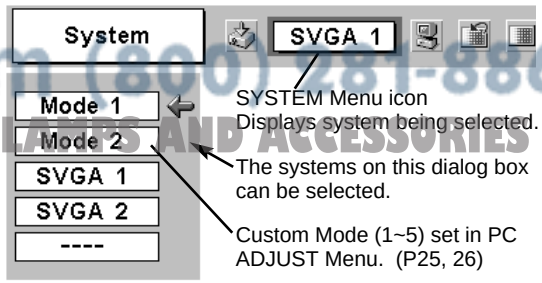
SELECT COMPUTER SYSTEM MANUALLY

This projector automatically selects PC system among those provided in this projector and PC system can be also selected manually.

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to move a red frame pointer to PC SYSTEM Menu icon.

2 Press POINT DOWN button to move a red arrow pointer to the system that you want to set, and then press SET button.

PC SYSTEM MENU



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COMPATIBLE COMPUTER SPECIFICATIONS

Basically this projector can accept the signal from all computers with the V, H-Frequency below mentioned 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 10	1024 x 768	62.04	77.07
VGA 2	720 x 400	31.47	70.09	XGA 11	1024 x 768	61.00	75.70
VGA 3	640 x 400	31.47	70.09	XGA 12	1024 x 768	35.522	86.96 (Interlace)
VGA 4	640 x 480	37.86	74.38	XGA 13	1024 x 768	46.90	58.20
VGA 5	640 x 480	37.86	72.81	XGA 14	1024 x 768	47.00	58.30
VGA 6	640 x 480	37.50	75.00	XGA 15	1024 x 768	58.03	72.00
VGA 7	640 x 480	43.269	85.00	MAC 19	1024 x 768	60.24	75.08
MAC LC13	640 x 480	34.97	66.60	MAC 21	1152 x 870	68.68	75.06
MAC 13	640 x 480	35.00	66.67	SXGA 1	1152 x 864	64.20	70.40
RGB	————	15.625	50 (Interlace)	SXGA 2	1280 x 1024	62.50	58.60
RGB	————	15.734	60 (Interlace)	SXGA 3	1280 x 1024	63.90	60.00
SVGA 1	800 x 600	35.156	56.25	SXGA 4	1280 x 1024	63.34	59.98
SVGA 2	800 x 600	37.88	60.32	SXGA 5	1280 x 1024	63.74	60.01
SVGA 3	800 x 600	46.875	75.00	SXGA 6	1280 x 1024	71.69	67.19
SVGA 4	800 x 600	53.674	85.06	SXGA 7	1280 x 1024	81.13	76.107
SVGA 5	800 x 600	48.08	72.19	SXGA 8	1280 x 1024	63.98	60.02
SVGA 6	800 x 600	37.90	61.03	SXGA 9	1280 x 1024	79.976	75.025
SVGA 7	800 x 600	34.50	55.38	SXGA 10	1280 x 960	60.00	60.00
SVGA 8	800 x 600	38.00	60.51	SXGA 11	1152 x 900	61.20	65.20
SVGA 9	800 x 600	38.60	60.31	SXGA 12	1152 x 900	71.40	75.60
SVGA 10	800 x 600	32.70	51.09	SXGA 13	1280 x 1024	50.00	86.00 (Interlace)
SVGA 11	800 x 600	38.00	60.51	SXGA 14	1280 x 1024	50.00	94.00 (Interlace)
MAC 16	832 x 624	49.72	74.55	SXGA 15	1280 x 1024	63.37	60.01
XGA 1	1024 x 768	48.36	60.00	SXGA 16	1280 x 1024	76.97	72.00
XGA 2	1024 x 768	68.677	84.997	SXGA 17	1152 x 900	61.85	66.00
XGA 3	1024 x 768	60.023	75.03	SXGA 18	1280 x 1024	46.43	86.70 (Interlace)
XGA 4	1024 x 768	56.476	70.07	SXGA 19	1280 x 1024	63.79	60.18
XGA 5	1024 x 768	60.31	74.92	MAC	1280 x 960	75.00	75.08
XGA 6	1024 x 768	48.50	60.02	MAC	1280 x 1024	80.00	75.08
XGA 7	1024 x 768	44.00	54.58	720p (HDTV)	————	45.00	60.00
XGA 8	1024 x 768	63.48	79.35	1035i (HDTV)	————	33.75	60.00 (Interlace)
XGA 9	1024 x 768	36.00	87.17 (Interlace)	1080i (HDTV)	————	33.75	60.00 (Interlace)

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When the input signal is from the COMPUTER INPUT DIGITAL terminal, refer to the chart below.

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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	31.469	59.940	D-SXGA1	1280 x 1024	63.981	60.020
D-SVGA	800 x 600	37.879	60.317	D-SXGA2	1280 x 1024	60.276	58.069
D-XGA	1024 x 768	48.363	60.004	D-SXGA3	1280 x 1024	31.65	29.8 (Interlace)

NOTE : Specifications are subject to change without notice.

PC ADJUSTMENT

AUTO PC ADJUSTMENT

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

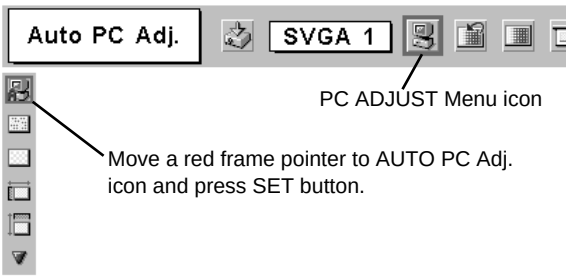
Auto PC Adj.

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to PC ADJUST Menu icon.

2 Press POINT DOWN button to move a red frame pointer to AUTO PC Adj. icon and then press SET button twice.
This Auto PC Adjustment can be also executed by pressing AUTO PC ADJ. button on Remote Control Unit.

Store adjustment parameters.
Adjustment parameters from Auto PC Adjustment can be memorized in this projector. Once parameters are memorized, setting can be done just by selecting Mode in PC SYSTEM Menu (P22). Refer to step 3 of MANUAL PC ADJUSTMENT section (P26).

PC ADJUST MENU



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 through this function, manual adjustments are required. (Refer to page 25, 26.)
- Auto PC Adjustment function cannot be operated when “RGB,” “720p (HDTV),” “1035i (HDTV)” or “1080i (HDTV)” is selected on PC SYSTEM Menu (P22).

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MANUAL PC ADJUSTMENT

This projector can automatically tune to the display signals from most personal computers currently distributed. However, some computers employ special signal formats which are different from the standard ones and may not be tuned by Multi-Scan system of this projector. If this happens, projector cannot reproduce a proper image and the image may be recognized as a flickering picture, a non-synchronized picture, a non-centered picture or a skewed picture.
This projector has a Manual PC Adjustment to enable you to precisely adjust several parameters to match with those special signal formats. This projector has 5 independent memory areas to memorize those parameters manually adjusted. This enables you to recall the setting for a specific computer whenever you use it.

Note : This PC ADJUST Menu cannot be operated when the input signal is from RGB INPUT (DIGITAL) terminal or “RGB” is selected on PC SYSTEM MENU (P22).

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to PC ADJUST Menu icon.

2 Press POINT DOWN button to move a red frame pointer to the item that you want to adjust and then press SET button. Adjustment dialog box will appear. Press POINT LEFT/RIGHT button to adjust value.

Fine sync

Adjusts an image as necessary to eliminate flicker from the display. Press POINT LEFT/RIGHT button to adjust value.(From 0 to 31.)

Total dots

The number of total dots in one horizontal period. Press POINT LEFT/RIGHT button(s) and adjust number to match your PC image.

Horizontal

Adjusts horizontal picture position. Press POINT LEFT/RIGHT button(s) to adjust the position.

Vertical

Adjusts vertical picture position. Press POINT LEFT/RIGHT button(s) to adjust the position.

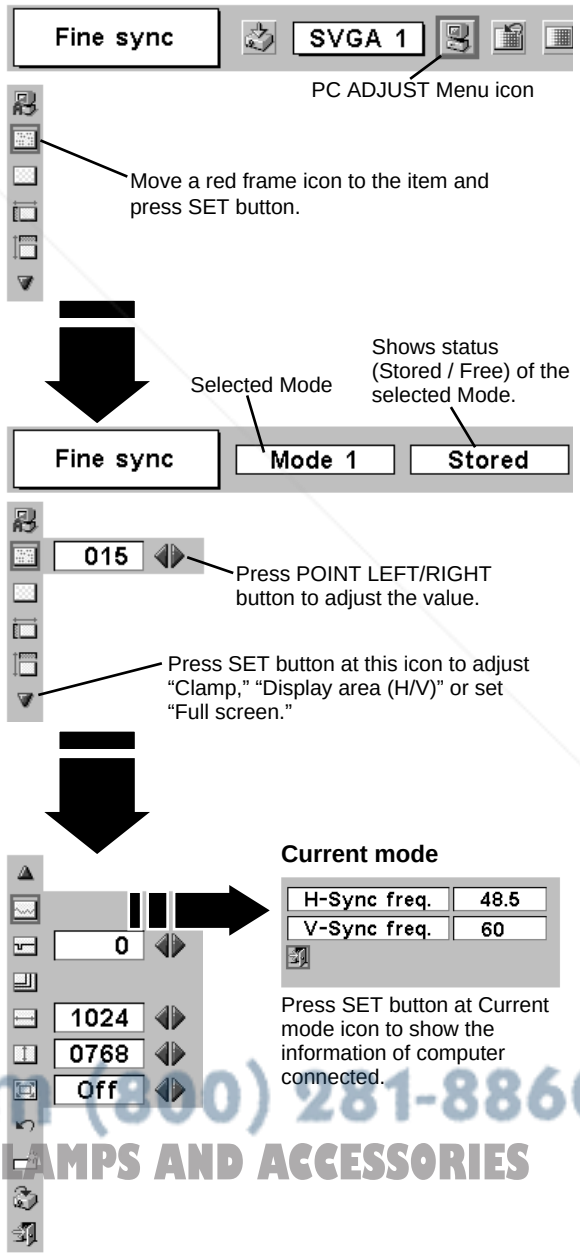
Current mode

Press SET button to show the information of computer selected.

Clamp

Adjusts clamp level. When the image has a dark bar(s), try this adjustment.

PC ADJUST MENU



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Display area

Selects area displayed with this projector. Select the resolution at Display area dialog box.

Display area H

Adjustment of horizontal area displayed with this projector. Press POINT LEFT/RIGHT button(s) to decrease/increase value and then press SET button.

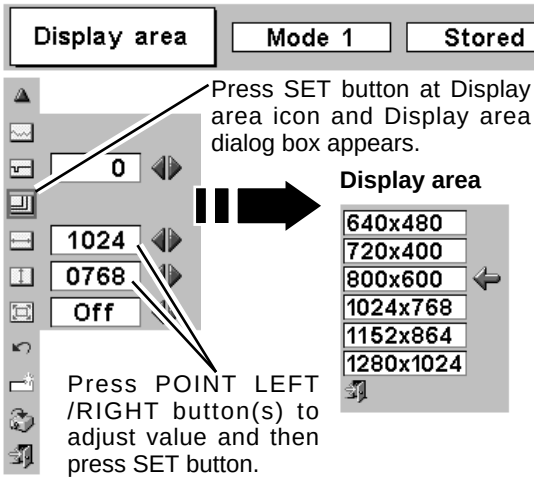
Display area V

Adjustment of vertical area displayed with this projector. Press POINT LEFT/RIGHT button(s) to decrease/increase value and then press SET button.

Full screen

Press POINT LEFT/RIGHT button(s) to switch Full screen function to "On" or "Off." Set "On" to resize the image with 4 x 3 aspect ratio to fit the screen.

NOTE : Fine sync, Total dots, Display area (H/V) and Full screen cannot be adjusted when "1035i (HDTV)" or "1080i (HDTV)" is selected on PC SYSTEM Menu (P22).

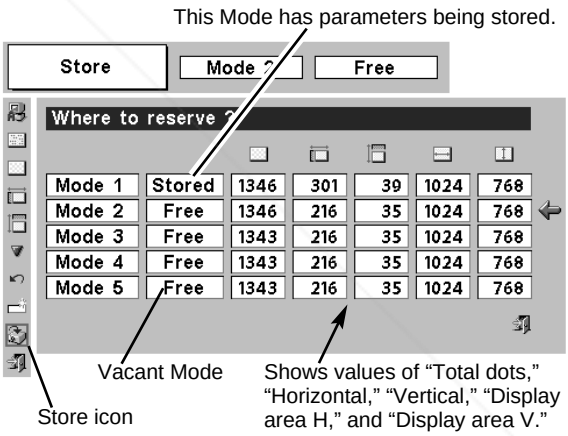


3

Store

To store adjustment parameters, move a red frame pointer to Store icon and then press SET button. Move a red arrow pointer to any of Mode 1 to 5 that you want to store to and then press SET button.

To store adjustment data.



Mode free

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

Other icons operates as follows.

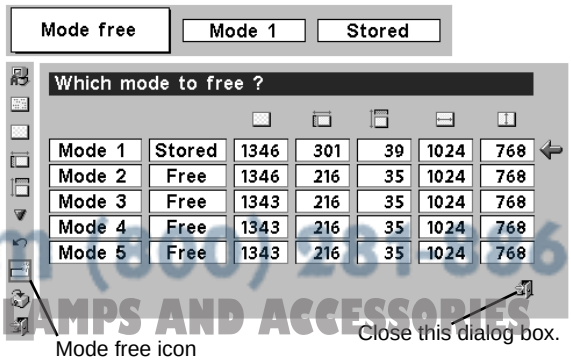
Reset

Reset all adjust parameters on adjustment dialog box to previous figure.

Quit

Closes PC ADJUST MENU.

To clear adjustment data.

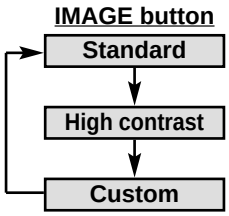


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PICTURE IMAGE ADJUSTMENTS

IMAGE LEVEL SELECT (DIRECT)

Select image level among Standard, High contrast and Custom by pressing IMAGE button on Remote Control Unit.



Standard

Normal picture adjustment preset on this projector.

High contrast

Picture adjustment improved in reproduction of halftones. This adjustment is suitable for providing better image in brighter place.

Custom

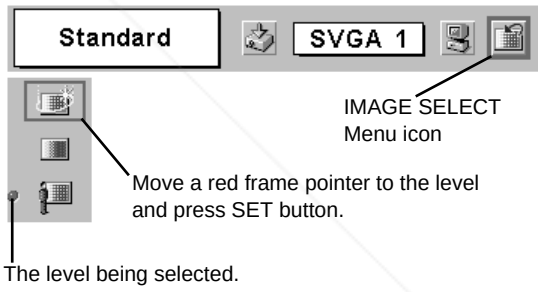
User preset picture adjustment in IMAGE ADJUST Menu (P28).

IMAGE LEVEL SELECT (MENU)

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to IMAGE SELECT Menu icon.

2 Press POINT DOWN button to move a red frame pointer to the level that you want to set and then press SET button.

IMAGE SELECT MENU





Standard

Normal picture adjustment preset on this projector.



High contrast

Picture adjustment improved in reproduction of halftones. This adjustment is suitable for providing better image in brighter place.



Custom

User preset picture adjustment in IMAGE ADJUST Menu (P28).

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IMAGE LEVEL ADJUSTMENT

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to move a red frame pointer to IMAGE ADJUST Menu icon.

2 Press POINT DOWN button to move a red frame pointer to the item that you want to adjust. and then press SET button. The level of each item is displayed. Adjust each level by pressing POINT LEFT/RIGHT button(s).

Contrast

Press POINT LEFT button to decrease contrast, and POINT RIGHT button to increase contrast. (From 0 to 63.)

Brightness

Press POINT LEFT button to adjust image darker, and POINT RIGHT button to adjust brighter. (From 0 to 63.)

White balance (Red)

Press POINT LEFT button to lighten red tone and POINT RIGHT button to deeper tone. (From 0 to 63.)

White balance (Green)

Press POINT LEFT button to lighten green tone and POINT RIGHT button to deeper tone. (From 0 to 63.)

White balance (Blue)

Press POINT LEFT button to lighten blue tone and POINT RIGHT button to deeper tone. (From 0 to 63.)

Gamma

Press either POINT LEFT button or POINT RIGHT button to obtain better balance of contrast. (From 0 to 15.)

3 **Store**

To store manually preset image level, move a red frame pointer to Store icon and press SET button. The message "OK?" will appear. Select [Yes] to store manual adjustment.
To set this manual adjustment, select Custom by pressing IMAGE button or through IMAGE SELECT MENU (refer to P27).

Other icons operates as follows.

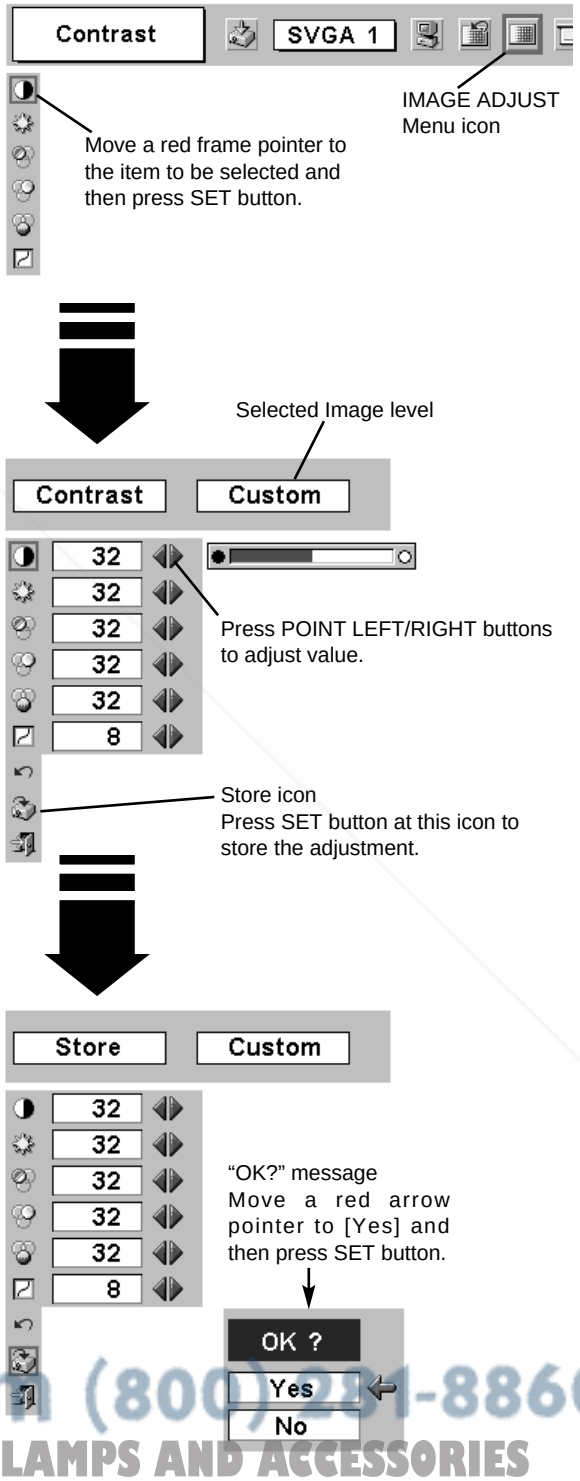
Reset

Reset all adjustment to previous figure.

Quit

Closes IMAGE MENU.

IMAGE ADJUST MENU



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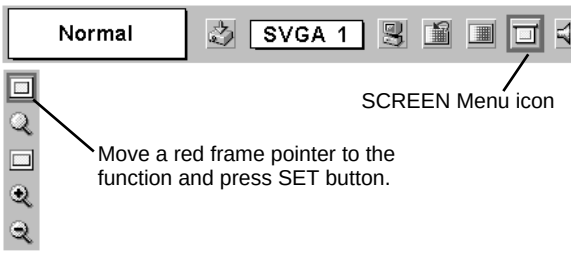
PICTURE SCREEN ADJUSTMENT

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

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move a red frame pointer to SCREEN Menu icon.

2 Press POINT DOWN button and move a red frame pointer to the function that you want to select and then press SET button.

SCREEN MENU



Normal

Provides image to fit screen size.

True

Provides image in its original size. When the original image size is larger than screen size (1024 x 768), this projector enters “Digital zoom +” mode automatically.

Wide

Provides 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 Digital zoom + is selected, ON-SCREEN MENU disappears and the message “D. Zoom +” is displayed. Press SET button to expand image size. And press POINT UP/DOWN/LEFT/RIGHT button(s) to pan the image. Panning function can work only when the image is larger than screen size.
A projected image can be also expanded by pressing D.ZOOM ▲ button on Remote Control Unit.

Digital Zoom –

When Digital zoom – is selected, ON-SCREEN MENU disappears and the message “D. Zoom –” is displayed. Press SET button to compress image size.
A projected image can be also compressed by pressing D.ZOOM ▼ button on Remote Control Unit.

To cancel Digital Zoom +/– mode, press any button except D.ZOOM ▲/▼, SET, POINT and LASER buttons.

NOTE

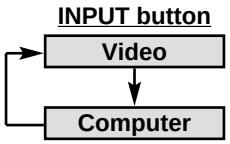
- This SCREEN Menu cannot be operated when “1035i (HDTV)” or “1080i (HDTV)” is selected on PC SYSTEM Menu (P22).
- Wide cannot be selected when “720p (HDTV)” is selected on PC SYSTEM Menu (P22).
- True and Digital zoom +/– cannot be selected when “RGB” is selected on PC SYSTEM Menu (P22).
- This projector cannot display any resolution higher than 1280 X 1024. If your computer’s screen resolution is higher than 1280 X 1024, reset the resolution to the lower before connecting projector.
- The image data in other than XGA (1024 x 768) is modified to fit the screen size in initial mode.
- Panning function may not operate properly if the computer system prepared on PC ADJUST Menu is used.

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SELECTING INPUT SOURCE

DIRECT OPERATION

Choose Video by pressing INPUT button on Top Control or on Remote Control Unit.
If projector cannot reproduce proper video source, select correct input source through MENU OPERATION (see below).



MENU OPERATION

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to INPUT Menu icon.

2 Press POINT DOWN button to move a red arrow pointer to Video and then press SET button. Source Select Menu will appear.

3 Move a pointer to the source that you want to select and then press SET button.

Auto Projector automatically detects incoming Video signal, and adjusts itself to optimize its performance.

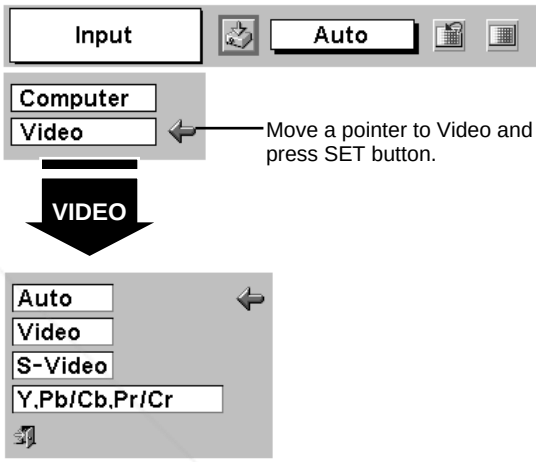
- When both Y jack and S-VIDEO jack are connected, S-VIDEO jack has priority over Y jack.
- When both Y-Pb/Cb-Pr/Cr jacks and S-VIDEO jack are connected, Y-Pb/Cb-Pr/Cr jacks have priority over S-VIDEO jack.

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

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

Y,Pb/Cb,Pr/Cr When video input signal is connected to Y-Pb/Cb-Pr/Cr jacks, select Y, Pb/Cb, Pr/Cr.

INPUT MENU



Source Select Menu (VIDEO)
Move a pointer to the source and press SET button.

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SELECTING VIDEO SYSTEM

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to move a red frame pointer to AV SYSTEM Menu icon.

2 Press POINT DOWN button to move a red arrow pointer to the system that you want to select and then press SET button.

VIDEO (Y) JACK OR S-VIDEO JACK

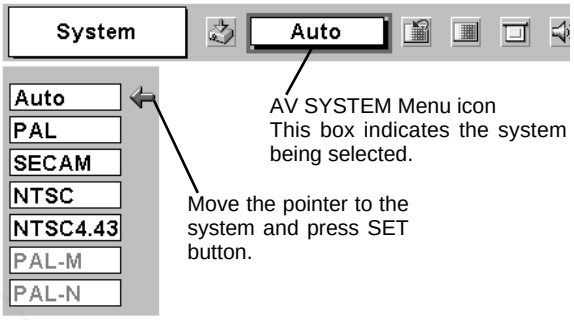
Auto

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 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)



Y, Pb/Cb, Pr/Cr JACKS

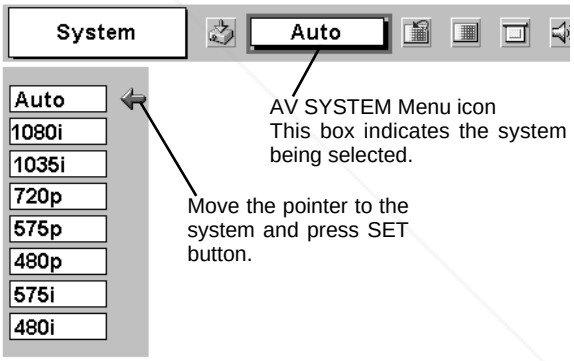
Auto

Projector automatically detects incoming Video signal, and adjusts itself to optimize its performance.

COMPONENT VIDEO SIGNAL FORMAT

If 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.

AV SYSTEM MENU (COMPONENT VIDEO)

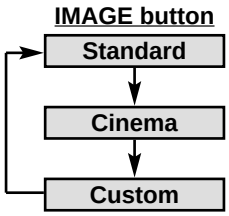


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PICTURE IMAGE ADJUSTMENTS

IMAGE LEVEL SELECT (DIRECT)

Select image level among Standard, Cinema, and Custom by pressing IMAGE button on Remote Control Unit.



Standard
Normal picture level preset on this projector.

Cinema
Picture level adjusted for the picture with fine tone.

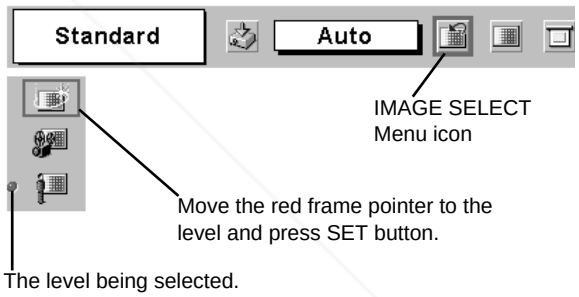
Custom
User preset picture adjustment in IMAGE ADJUST Menu (P34).

IMAGE LEVEL SELECT (MENU)

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to IMAGE SELECT Menu icon.

2 Press POINT DOWN button to move a red frame pointer to the level that you want to set and then press SET button.

IMAGE SELECT MENU




Standard
Normal picture level preset on this projector.


Cinema
Picture level adjusted for the picture with fine tone.


Custom
User preset picture adjustment in IMAGE ADJUST Menu (P34).

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IMAGE LEVEL ADJUSTMENT

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move a red frame pointer to IMAGE ADJUST Menu icon.

2 Press POINT DOWN button to move a red frame pointer to the item that you want to adjust and then press SET button. The level of each item is displayed. Adjust each level by pressing POINT LEFT/RIGHT button(s).

Contrast

Press POINT LEFT button to decrease contrast, and POINT RIGHT button to increase contrast. (From 0 to 63.)

Brightness

Press POINT LEFT button to adjust image darker, and POINT RIGHT button to adjust brighter. (From 0 to 63.)

Color

Press POINT LEFT button to lighten color, and POINT RIGHT button to deeper color. (From 0 to 63.)

Tint

Press POINT LEFT button or POINT RIGHT button to obtain proper color. (From 0 to 63.)

White balance (Red)

Press POINT LEFT button to lighten red tone and POINT RIGHT button to deeper tone. (From 0 to 63.)

White balance (Green)

Press POINT LEFT button to lighten green tone and POINT RIGHT button to deeper tone. (From 0 to 63.)

White balance (Blue)

Press POINT LEFT button to lighten blue tone and POINT RIGHT button to deeper tone. (From 0 to 63.)

Sharpness

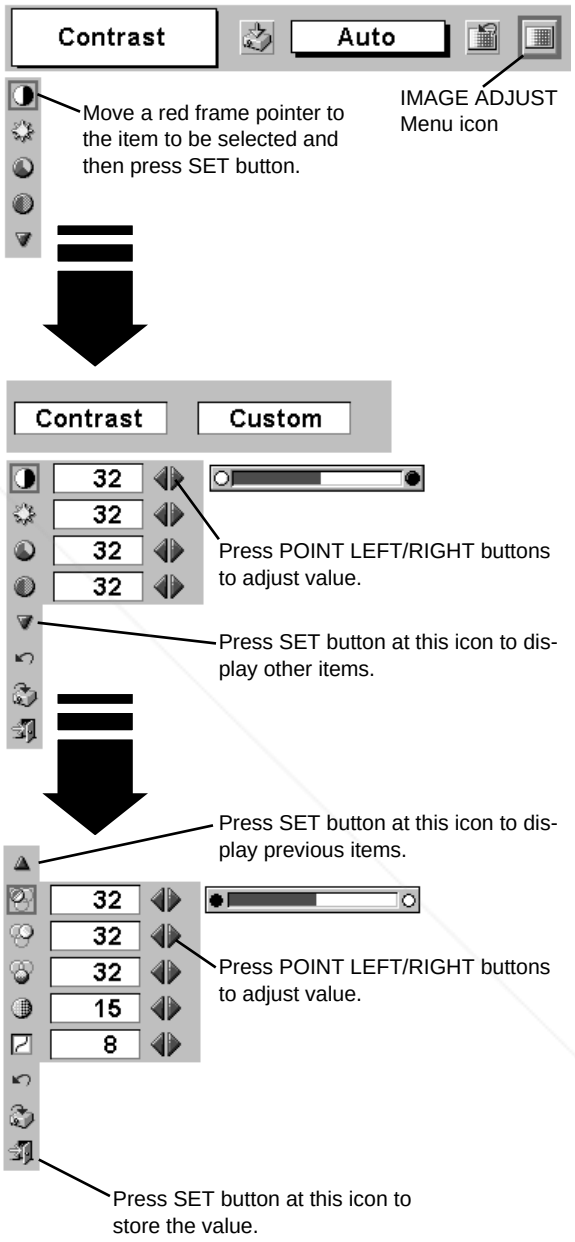
Press POINT LEFT button to soften the image, and POINT RIGHT button to sharpen the image. (From 0 to 31.)

Gamma

Press either POINT LEFT button or POINT RIGHT button to obtain better balance of contrast. (From 0 to 15.)

NOTE : Tint cannot be adjusted when the video system is PAL, SECAM, PAL-M or PAL-N.

IMAGE ADJUST MENU



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3 **Store**

To store manually preset image level, move a red frame pointer to Store icon and press SET button. The message “OK?” will appear. Select [Yes] to store manual adjustment.
To set this manual adjustment, select Custom by pressing IMAGE button or through IMAGE SELECT MENU (refer to P32).

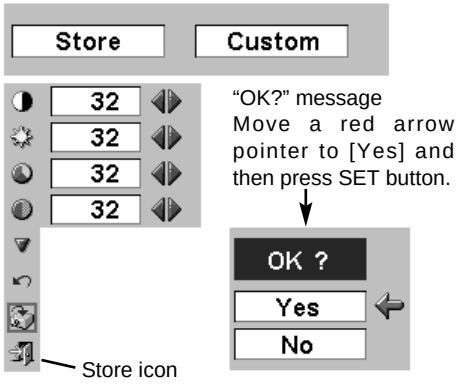
Other icons operates as follows.

Reset

Reset all adjustment to previous figure.

Quit

Closes IMAGE MENU.



PICTURE SCREEN ADJUSTMENT

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

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move a red frame pointer to SCREEN Menu icon.

2 Press POINT DOWN button and move a red frame pointer to the function that you want to select and then press SET button.

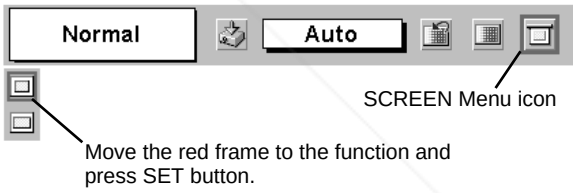
Normal

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

Wide

Provides image at a wide screen ratio of 16 : 9.

SCREEN MENU



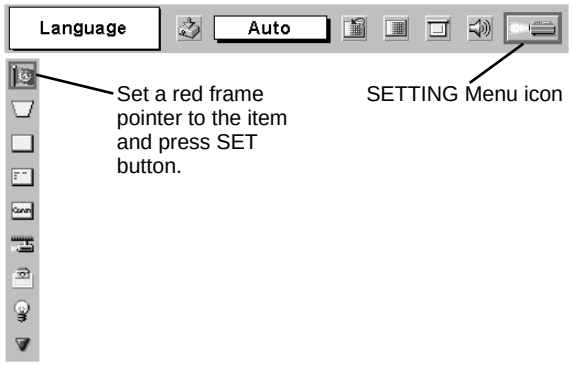
NOTE : SCREEN Menu cannot be operated when “720p,” “1035i,” or “1080i” is selected on AV SYSTEM Menu (P30).

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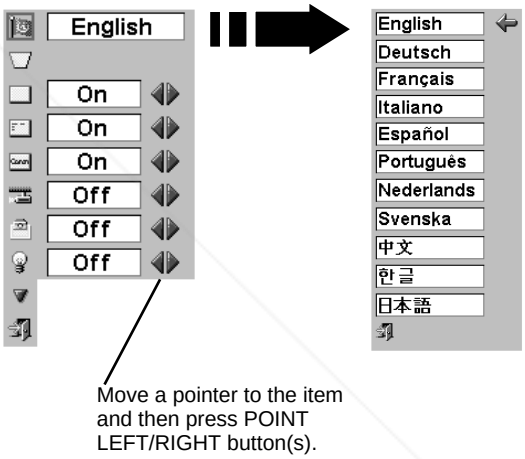
SETTING MENU

1. Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move a red-frame pointer to SETTING icon.
2. Press POINT DOWN button to move a red-frame pointer to the item that you want to set and then press SET button. Setting dialog box appears.

SETTING MENU



When pressing SET button at Language, Language Menu appears.



Language

Language used in ON-SCREEN MENU is selectable from among English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Chinese, Korean and Japanese.

Keystone

When the image is distorted vertically, select Keystone. ON-SCREEN MENU disappears and Keystone dialog box is displayed. Correct keystone distortion by pressing POINT UP/DOWN button(s). Refer to KEYSTONE ADJUSTMENT on page 20.

Blue back

When this function is “On,” this projector will produce a blue image instead of the video noise on the screen when any input source is unplugged or turned off.

Display

This function decides whether to display On-Screen Displays.

On ··· shows all the On-Screen Displays.

Off ···· sets On-Screen Displays disappeared except;

- ON-SCREEN MENU
- “Power off?” message

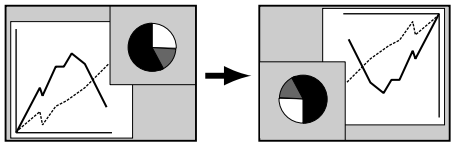
Logo

When this function is “On,” projector displays our logo when starting up.

Ceiling

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

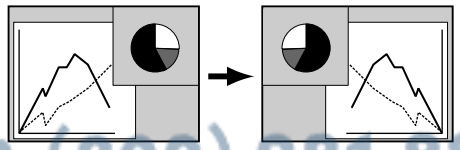
Ceiling function



Rear

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

Rear function



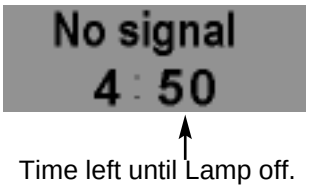
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Power management

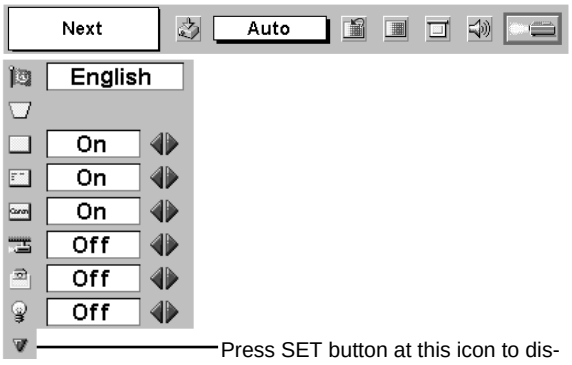
This function turns Projection Lamp off when this projector detects signal interruption and is not used for a certain period in order to reduce power consumption and maintain the Lamp-life. (This projector is shipped with this function ON.)

Power Management function operates to turn Projection Lamp off when the input signal is interrupted and any button is not pressed over 5 minutes. This function operates as follows;

1. When any input signal is interrupted, “No signal” and the counting down display appears (for 5 minutes).
2. When Projection Lamp turned off, READY Indicator turns off. Cooling Fans operate and Projection Lamp is turned off for 90 seconds. (During this "Cooling Down" period, projector cannot be turned on.)
3. When Projection Lamp has cooled down, READY Indicator flashes and Projection Lamp can be turned on again (Power Management mode).
   In this Power Management mode, Projection Lamp is automatically turned on when the input signal connected or projector is operated with any button on Top Control or on Remote Control Unit again.



Time left until Lamp off.

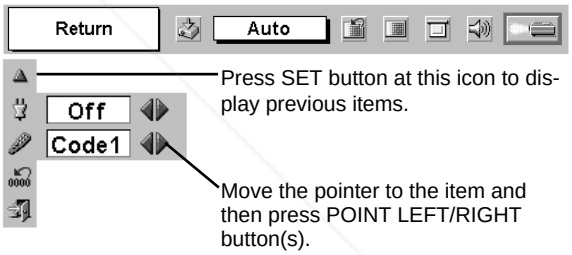


Press SET button at this icon to display other items.

On start

When this function is “On,” projector is automatically turned on just by connecting AC Power cord to a wall outlet.

Note ; Be sure to turn projector off properly (refer to the section “TURNING OFF THE PROJECTOR” on P19). If projector is turned off in the wrong steps, On Start function does not operate properly.



Press SET button at this icon to display previous items.

Move the pointer to the item and then press POINT LEFT/RIGHT button(s).

Remote control

This projector has two different remote control codes; the factory-set normal code (Code 1) and the secondary code (Code 2). This switching function prevents remote control operation mixture (jam) when operating several projectors or video equipment together.
When operating projector in “Code 2,” both projector and Remote Control Unit must be switched to “Code 2.”

To change the code of Projector;

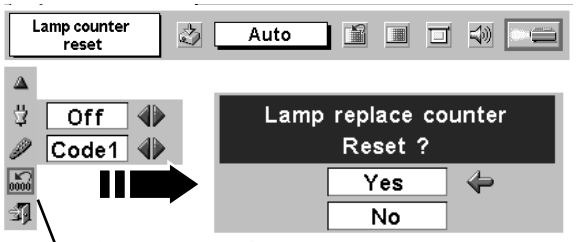
Set Remote control in the SETTING MENU to “Code 2.”

To change the code of the Remote Control Unit;

Press both MENU and IMAGE buttons on Remote Control Unit together for over 10 seconds.

After changing the code, make sure Remote Control operates properly.
To return to the normal code (Code 1), operate both projector and Remote Control in the ways above again.

NOTE : When batteries of Remote Control Unit are replaced or ALL-OFF switch is turned to “ALL-OFF,” the remote transmit code automatically returns to the normal code (Code 1).



Move the pointer to Lamp counter reset and then press SET button. The message “Lamp replace counter reset?” is displayed.

Lamp counter reset

This function is used to reset Lamp Replace Counter. When replacing Projection Lamp, reset Lamp Replace Counter by using this function. Refer to page 39 for operation.

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OPERATING WIRELESS MOUSE

Wireless Remote Control Unit is not only able to operate this projector but also usable as a wireless mouse for most Personal Computers. POINT buttons and two CLICK buttons are used for wireless mouse operation.
This Wireless Mouse function is available only when PC mouse pointer is displayed on a projected screen. When ON-SCREEN MENU or any message / dialog box is displayed on the screen instead of PC mouse pointer, this Wireless Mouse function cannot be used.

INSTALLATION

To use Wireless Remote Control Unit as Wireless Mouse for a Personal Computer, installation of the mouse driver (not supplied) is required. Make sure that the mouse driver is properly installed in your computer. And make sure that the mouse port (or USB port) of a Personal Computer is activated.

1. Connect the mouse port (or USB port) of your computer to Control Port (or USB connector) of this projector with Control Cable (or USB cable). (Refer to page 11, 12 for connection.)
2. Turn the projector on first, and then turn on your computer. When the computer is switched on first, Wireless Mouse may not work properly.

Note : When your computer has no mouse port, connect Serial Port of your computer to Control Port of the projector with Control Cable for Serial Port (not supplied).

OPERATING WIRELESS MOUSE

When controlling a PC mouse pointer, operate Wireless Mouse with POINT button, SET button, and RIGHT CLICK button on Wireless Remote Control Unit.

POINT button

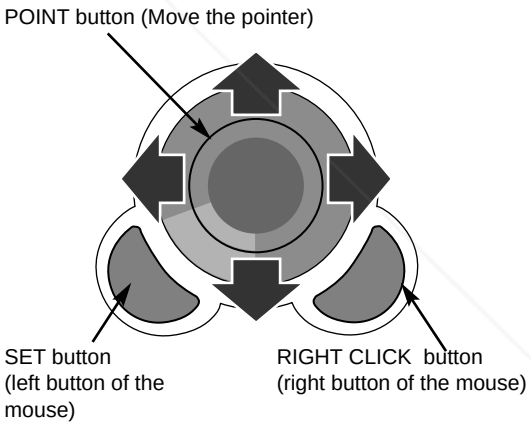
Used to move PC mouse pointer. The pointer is moved corresponding with the direction you are pressing.

SET (LEFT CLICK) button

This button has the same function as the left button in a PC mouse.

RIGHT CLICK button

This button has the same function as the right button in a PC mouse. This button is not available for controlling this projector.



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MAINTENANCE

WARNING TEMP. INDICATOR

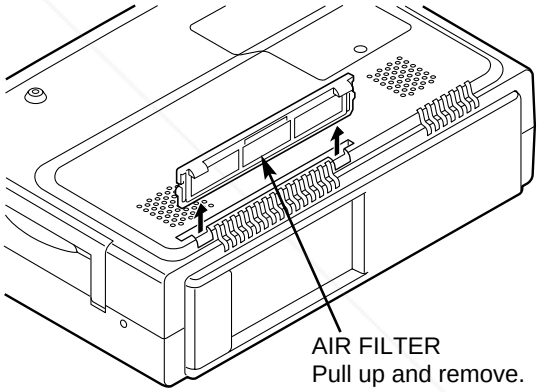
WARNING TEMP. Indicator flashes red when an internal temperature of a projector exceeds the normal temperature. This Indicator stops flashing when the temperature of a projector returns to normal.
When WARNING TEMP. Indicator continues to flash, check the items listed below.

1. Ventilation Slots of the projector may be blocked. In such an event, reposition the projector so that Ventilation Slots are not obstructed.
2. Air Filter may be clogged with dust particles. Clean Air Filter by following the section AIR FILTER CARE AND CLEANING below.
3. If WARNING TEMP. Indicator remains on after performing the above checks, Cooling Fans or the Internal Circuits may be malfunctioning. Contact service personnel from an authorized dealer or a service station.

AIR FILTER CARE AND CLEANING

Removable Air Filter prevents dust from accumulating on the surface of Projection Lens and Projection Mirror. Should Air Filter 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 Air Filter following the steps below:

1. Turn off the projector, and disconnect AC power cord from the AC outlet.
2. Turn the projector upside down and remove Air Filter by pulling the latches upward.
3. Clean Air Filter with a brush or wash out dust and particles.
4. Replace Air Filter properly. Make sure that Air Filter is fully inserted.



CAUTION
Do not operate the projector with Air Filter removed. Dust may accumulate on LCD Panel and Projection Mirror degrading picture quality.
Do not put small parts into Air Intake Vents. It may result in malfunction of the projector.

RECOMMENDATION

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

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

CLEANING PROJECTION LENS

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Follow these steps to clean Projection Lens:

1. Apply a non-abrasive camera lens cleaner to a soft, dry cleaning cloth. Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents or other harsh chemicals might scratch a surface.
2. Lightly wipe a cleaning cloth over Projection Lens.
3. When the projector is not in use, replace Lens Cover.

LAMP REPLACEMENT

When the life of Projection Lamp of this projector draws to an end, LAMP REPLACEMENT indicator lights yellow. When a projected image becomes dark or the color of an image becomes unnatural, replacement of Projection Lamp is required.

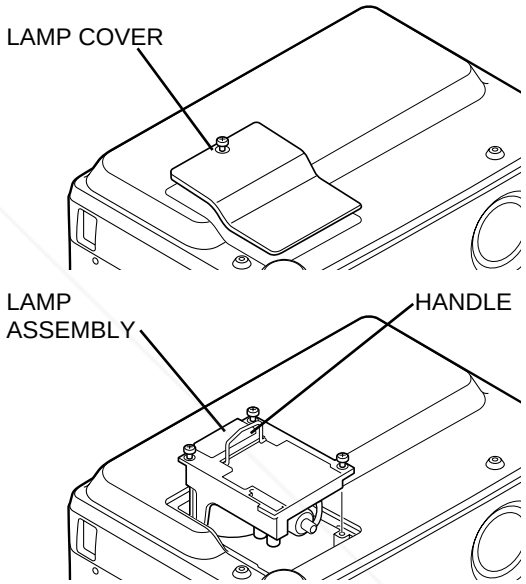
CAUTION
For continued safety, replace with a lamp assembly of the same type.
Allow a projector to cool for at least 45 minutes before you open Lamp Cover. The inside of a projector can become very hot.

CAUTION
Do not drop a lamp assembly or touch a glass bulb! The glass can shatter and may cause injury.

Follow these steps to replace the lamp assembly.

1. Turn off the projector and disconnect AC plug. Allow the projector to cool for at least 45 minutes.
2. Remove a screw with a screwdriver to remove Lamp Cover.
3. Remove 3 screws with a screwdriver and pull out Lamp Assembly by grasping Handle.
4. Replace Lamp Assembly with a new one and tighten 3 screws back. Make sure that Lamp Assembly is set properly. Replace Lamp Cover and tighten a screw.
5. Connect AC Power Cord to the projector and turn it on.
6. Reset Lamp Replace Counter (refer to the section "Lamp Replace Counter" below).

NOTE : Do not reset Lamp Replace Counter when Projection Lamp is not replaced.



ORDER REPLACEMENT LAMP

Replacement Lamp can be ordered through your dealer. When ordering Projection Lamp, give the following information to the dealer.

- Model No. of your projector : LV-7340 / LV-7345
- Replacement Lamp Type No. : LV-LP11
  (610 293 2751)

LAMP REPLACE COUNTER

Be sure to reset Lamp Replace Counter when Lamp Assembly is replaced. When Lamp Replace Counter is reset, LAMP REPLACE Indicator stops lighting.

1. Turn projector on, press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move a red frame pointer to SETTING Menu icon (refer to page 35, 36).
2. Press POINT DOWN button to move a red frame pointer to "Lamp counter reset" and then press SET button. The message "Lamp replace counter reset?" is displayed. Move the pointer to [Yes] and then press SET button.
3. Another confirmation dialog box appears and select [Yes] to reset Lamp Replace Counter.

Do not reset Lamp Replace Counter except after Projection Lamp is replaced.

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TROUBLESHOOTING

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

1. Make sure you have connected a projector to your computer or video equipment as described in the section "CONNECTING THE PROJECTOR" on pages 11 ~ 13.
2. Check cable connection. Verify that all computer, video and power cord are properly connected.
3. Verify that all power is switched on.
4. If a projector still does not produce an image, re-start your computer.
5. If an image still does not appear, unplug a projector from your computer and check your computer monitor's display. The problem may be with your graphics controller rather than with a projector. (When you reconnect a projector, be sure to turn the computer and monitor off before you power up the projector. Power the equipment back on in order of : Projector and computer.)
6. If the problem still exists, check following chart.

Problem:	Try these Solutions
No power.	● Plug a projector into your AC outlet. ● Make sure READY Indicator lights. ● Wait 90 seconds after a projector is turned OFF when turning a projector back on. NOTE : After pressing Power ON-OFF button to OFF, make sure a projector works as follows: 1. LAMP indicator lights bright and READY indicator turns off. 2. After 90 seconds, READY indicator lights green again and a projector may be turned on by pressing Power ON-OFF button. ● Check WARNING TEMP. indicator. If this indicator flashes red, a projector cannot be turned on. (See "TURNING ON/OFF PROJECTOR" section on page 19.) ● Check Projection Lamp. (Refer to page 39.)
Image is out of focus.	● Adjust focus of a projector. ● Make sure a projection screen is at least 5.3' (1.6m) from the projector. ● Check Projection Lens to see if it needs cleaning. NOTE : Moving a projector from a cool temperature location to a warm temperature location may result in moisture condensation on Projection Lens. In such an event, leave a projector OFF and wait until condensation disappears.
Picture is Left/Right reversed.	● Check Ceiling / Rear feature. (See "SETTING" section on page 35.)
Picture is Top/Bottom reversed.	● Check Ceiling feature. (See "SETTING" section on page 35.)
Some displays are not seen during the Operation.	● Check Display feature.(See "SETTING" section on page 35.)
No image.	● Check connection between your computer or video equipment and a projector. ● Check NO SHOW function. (Refer to P21.) ● When turning a projector on, it takes about 30 seconds to display an image. ● Check the system that you select is corresponding with your computer or video equipment. ● Make sure the temperature is not out of the Operating Temperature (5°C ~ 35°C).
No sound.	● Check audio cable connection from audio input source. ● Adjust the audio source. ● Press VOLUME (+) button. ● Press MUTE button.

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Problem:	Try these Solution
Remote Control Unit does not work.	● Check the batteries. ● Check ALL-OFF switch on Remote Control Unit is set to “ON.”. ● Make sure nothing is between Infrared Remote Receiver and Remote Control Unit. ● Make sure you are not too far from a projector when using Remote Control Unit. Maximum operating range is 16.4’ (5m). ● Make sure the code of Remote Control is set to conform to projector. (See “SETTING” section on page 35, 36.)
Wireless Mouse function does not work.	● Check cable connection between a projector and your computer. ● Check the mouse setting on your computer. ● Turn a projector on before turning on a computer.

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

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

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c UL us LISTED

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

CE

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

TECHNICAL SPECIFICATIONS

Projector Type	Multi-media Projector
Dimensions (W x H x D)	13.05" x 3.52" x 9.12" (331.5mm x 89.5mm x 231.7mm) (not including Adjustable Feet)
Net Weight	8.8 lbs (4.0 kg)
LCD Panel System	0.9" TFT Active Matrix type, 3 panels
Panel Resolution	1024 x 768 dots
Number of Pixels	2,359,296 (1024 x 768 x 3 panels)
Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M and 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
Projection Image size (Diagonal)	Adjustable from 31" to 300"
Horizontal Resolution	800 TV lines
Projection Lens	F 1.7 ~ 2.2 lens with f 37.4 mm ~ 48.2 mm with motor zoom and focus
Throw Distance	5.3' ~ 40.0' (1.6 m ~ 12.2 m)
Projection Lamp	200 W
Video Input Jacks	RCA Type x 3 (Video/Y, Pb/Cb, Pr/Cr) and Mini DIN 4 pin x 1 (S-Video)
Audio Input Jacks	RCA Type x 2
RGB Input Terminals	(VGA) HDB 15 Terminal x 1 and DVI 24 pin x 1
Computer Audio Input Jack	Mini Jack (stereo) x 1
Control Port Connector	Mini DIN 8 pin x 1
USB Connector	USB Series B receptacle x 1
Audio Output Jacks	RCA Type x 2
Internal Audio Amp	1.0 W RMS
Built-in Speakers	1 speaker, 1.18" x 1.57" (30mm x 40mm)
Feet Adjustment	0˚ to 15.6˚
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 Temperature	41 ˚F ~ 95 ˚F (5 ˚C ~ 35 ˚C)
Storage Temperature	14 ˚F ~ 140 ˚F (-10 ˚C ~ 60 ˚C)
Remote Control Transmitter	Power Source : AA, UM3 or R06 Type x 2 Operating Range : 16.4' (5m) / ±30˚ Dimensions : 2.2" x 1.3" x 7.6" (55mm x 34mm x 192mm) Net Weight : 0.36 lbs (165 g) (including batteries) Laser Pointer : Class II Laser (Max. Output : 1mW / Wave length : 650±20nm)
Accessories	Owner's Manual AC Power Cord Wireless Remote Control Transmitter and Batteries VGA Cable Control Cable for PS/2 port Carrying Bag Lens Cover and Strap for Lens Cover

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● The specifications are subject to change without notice.

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OPTIONAL PARTS

The parts listed below are optionally supplied. When ordering those parts, give name and Type No. of it to the sales dealer.

- ● Control Cable for Serial Port Type No. : LV-CA26
- ● Control Cable for ADB Port Type No. : LV-CA27
- ● DVI Cable Type No. : LV-CA29
- ● MAC Adapter Type No. : LV-AD02
- ● Media Card Imager Kit Type No. : LV-MC01

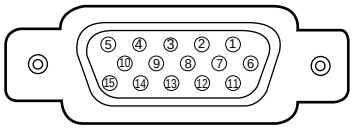
CONFIGURATIONS OF THE TERMINALS

RGB INPUT TERMINAL (ANALOG)

Terminal : HDB15-PIN

Connect the display output terminal of the computer to this terminal with the VGA Cable (supplied). When connecting the Macintosh computer, MAC Adapter (not supplied) is required.

Pin Configuration



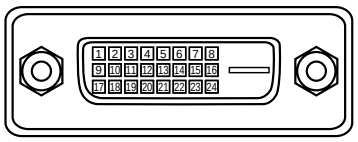
1	Red Input	**9**	+5V Power
2	Green Input	**10**	Ground (Vert.sync.)
3	Blue Input	**11**	Sense 0
4	Sense 2	**12**	DDC Data
5	Ground (Horiz.sync.)	**13**	Horiz. sync.
6	Ground (Red)	**14**	Vert. sync.
7	Ground (Green)	**15**	DDC Clock
8	Ground (Blue)		

RGB INPUT TERMINAL (DIGITAL)

Terminal : DVI 24-pin

Connect the display output terminal of the computer to this terminal with DVI cable (for Single Link T.M.D.S. / not supplied).

Pin Configuration



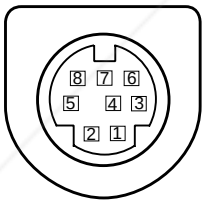
1	T.M.D.S. Data2–	**9**	T.M.D.S. Data1–	**17**	T.M.D.S. Data0–
2	T.M.D.S. Data2+	**10**	T.M.D.S. Data1+	**18**	T.M.D.S. Data0+
3	T.M.D.S. Data2 Shield	**11**	T.M.D.S. Data1 Shield	**19**	T.M.D.S. Data0 Shield
4	No Connect	**12**	No Connect	**20**	No Connect
5	No Connect	**13**	No Connect	**21**	No Connect
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	No Connect	**16**	Hot Plug Detect	**24**	T.M.D.S. Clock–

CONTROL PORT CONNECTOR

Terminal : Mini DIN 8-PIN

Connect control port (PS/2, Serial or ADB port) on your computer to this connector with Control Cable.
(Control Cable for PS/2 port is supplied, and Control Cables for Serial port and ADB port are not supplied.)

Pin Configuration

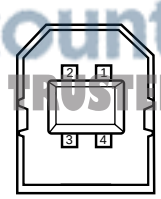


	PS/2	Serial	ADB
1	-----	R X D	-----
2	CLK	-----	ADB
3	DATA	-----	-----
4	GND	GND	GND
5	-----	RTS / CTS	-----
6	-----	T X D	-----
7	GND	GND	-----
8	-----	GND	GND

USB CONNECTOR (Series B)

Connect USB port terminal on your computer or peripheral equipment to this connector with USB Cable (not supplied).

Pin Configuration



1	Vcc
2	- Data
3	+ Data
4	Ground

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1AA6P1P2785-- (MS6P)
YT1-1325-000
PRINTED IN JAPAN



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