PLEASE READ

This manual is provided as a free service by Projector.com.

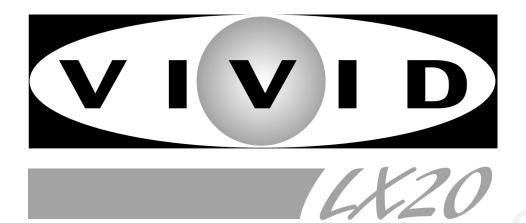
We are in no way responsible for the contents of the manual. We do not guarantee its accuracy and we do not make any claim of copyright. The copyright remains the property of their respective owners.

ABOUT PROJECTOR.COM

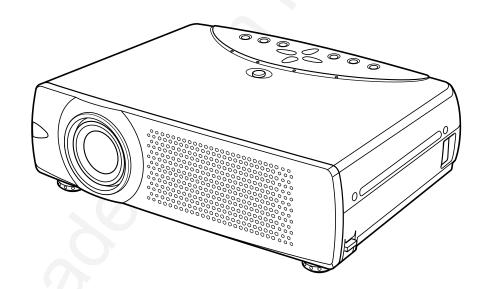
Projector.com (<u>http://www.projector.com</u>) is your review and buying guide resource for DLP and LCD video projectors.

Visit the site to read the latest projector news and reviews, read and comment on projector specifications, download user manuals and much more.





MODEL 38-VIV003-01



User's Manual

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.

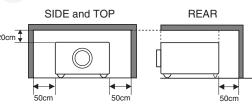
Improper operation may result in not only shortening the product-life, but also malfunctions, fire hazard, or other accidents.

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 at 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

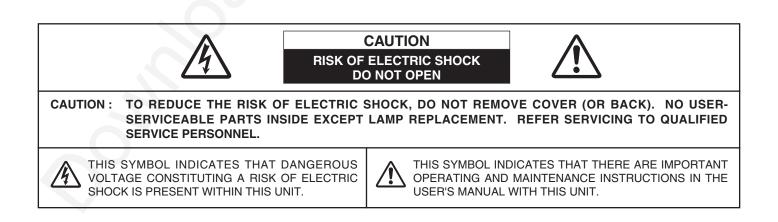
WARNING : TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

- 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.
- The Remote Control Unit, supplied with 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 USER'S MANUAL FOR LATER USE.



SAFETY INSTRUCTIONS

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

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

Follow all warnings and instructions marked on the projector.

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

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.

Federal Communication Commission Notice

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- Use of shielded cable is required to comply with class B limits in Subpart B of Part 15 of FCC Rules.

Do not make any changes or modifications to the equipment unless otherwise specified in the instructions. If such changes or modifications should be made, you could be required to stop operation of the equipment.

Model Number	: 38-VIV003-01
Trade Name	: Christie
Responsible party	: CHRISTIE DIGITAL SYSTEMS, Inc.
Address	: 10550 Camden Drive Cypress, CA 90630 USA
Telephone No.	: (714) 236-8610

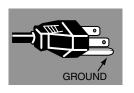
AC POWER CORD REQUIREMENT

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 :

unable to insert the plug into the outlet, contact your electrician.

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



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

FEATURES AND DESIGN	6	CC
PREPARATION	7	SE SE PC
NAME OF EACH PART OF PROJECTOR SETTING-UP PROJECTOR CONNECTING AC POWER CORD POSITIONING PROJECTOR ADJUSTABLE FEET MOVING PROJECTOR	7 8 9 9 10	Pl
CONNECTING PROJECTOR	11	VII
TERMINALS OF PROJECTOR CONNECTING TO COMPUTER CONNECTING TO VIDEO EQUIPMENT	11 12 13	SE SE Pl
BEFORE OPERATION	14	PI
OPERATION OF REMOTE CONTROL LASER POINTER FUNCTION REMOTE CONTROL BATTERIES INSTALLATION TOP CONTROLS AND INDICATORS OPERATING ON-SCREEN MENU HOW TO OPERATE ON-SCREEN MENU FLOW OF ON-SCREEN MENU OPERATION MENU BAR	14 14 15 16 17 17 17 18	SE SE
BASIC OPERATION	¹⁰	OF M/
TURNING ON / OFF PROJECTOR ADJUSTING SCREEN ZOOM ADJUSTMENT FOCUS ADJUSTMENT KEYSTONE ADJUSTMENT PICTURE FREEZE FUNCTION NO SHOW FUNCTION P-TIMER FUNCTION SOUND ADJUSTMENT	19 20 20 20 20 20 21 21 21	TF TE

OMPUTER INPUT	22
ELECTING INPUT SOURCE ELECTING COMPUTER SYSTEM COMPATIBLE COMPUTER SPECIFICATIONS C ADJUSTMENT AUTO PC ADJUSTMENT MANUAL PC ADJUSTMENT CTURE IMAGE ADJUSTMENT IMAGE LEVEL SELECT IMAGE LEVEL ADJUSTMENT CTURE SCREEN ADJUSTMENT	22 22 23 24 24 25 27 27 28 29
DEO INPUT	30
	00

SELECTING INPUT SOURCE	30
SELECTING VIDEO SYSTEM	31
PICTURE IMAGE ADJUSTMENT	32
IMAGE LEVEL SELECT	32
IMAGE LEVEL ADJUSTMENT	33
PICTURE SCREEN ADJUSTMENT	34

ET	TING	35

APPENDIX

OPERATING WIRELESS MOUSE	37
MAINTENANCE	38
WARNING TEMP. INDICATOR	38
AIR FILTER CARE AND CLEANING	38
CLEANING PROJECTION LENS	38
LAMP REPLACEMENT	39
LAMP REPLACE COUNTER	39
TROUBLESHOOTING	40
TECHNICAL SPECIFICATIONS	42

TRADEMARKS

- Apple, Macintosh, and PowerBook are trademarks or registered trademarks of Apple Computer, Inc.
- IBM and PS/2 are trademarks or registered trademarks of International Business Machines, Inc.
- Windows and PowerPoint are registered trademarks of Microsoft Corporation.
- Each name of corporations or products in the user's manual is a trademark or a registered trademark of its respective corporation.

35

37

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.

Compatibility

This projector 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 from a DVD player, 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 can not display images over 1280 x 1024 dots. When resolution of your computer is more 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.

Digital Zoom (for Computer)

Digital Zoom function adjusts the image size to approx. $1/4 \sim 49$ 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 a 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 the Projection Lamp off when a projector detects signal interruption and any button is not pressed within 5 minutes. The 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

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

Wireless Mouse

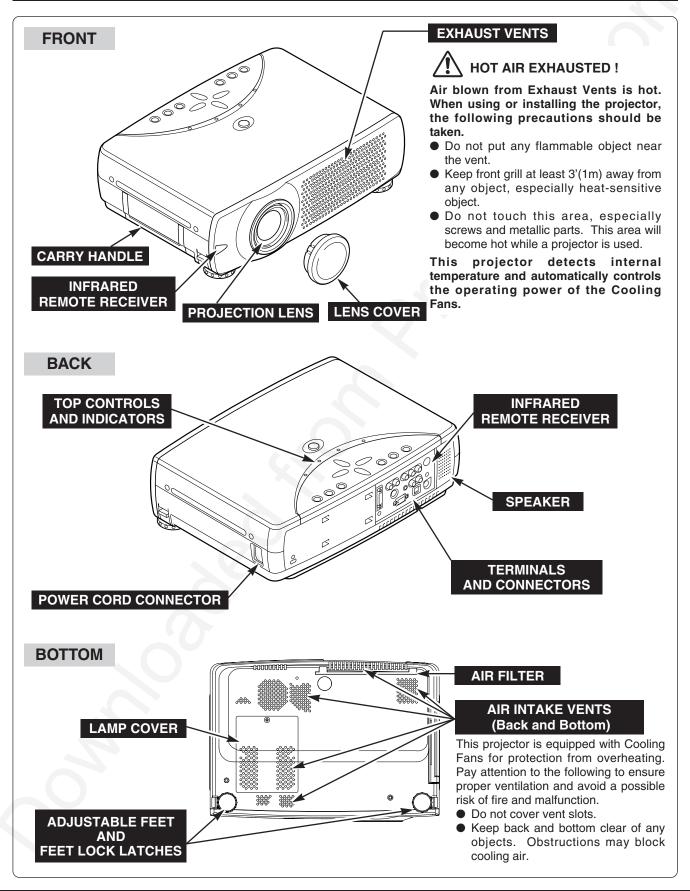
The Remote Control Unit supplied with this projector has a Wireless Mouse function for a connected computer. This function enables you to operate both projector and computer with Remote Control Unit only.

Multilanguage Menu Display

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

PREPARATION

NAME OF EACH PART OF PROJECTOR



PREPARATION

SETTING-UP PROJECTOR

CONNECTING AC POWER CORD

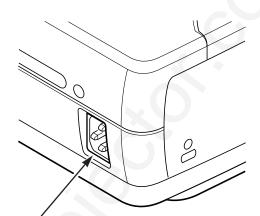
This projector uses nominal input voltages of 100-120 V or 200-240 V AC. This projector automatically selects the correct input voltage. It is designed to work with single-phase power systems having a grounded neutral conductor. To reduce risk of electrical shock, do not plug into any other type of power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

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

Connect the projector with peripheral equipment before turning a projector on. (Refer to pages $11 \sim 13$ for connection.)

For safety, unplug AC Power Cord when an appliance is not used.

When this projector is connected to the outlet with an AC Power Cord, the appliance is in Stand-by Mode and consumes a little electric power.

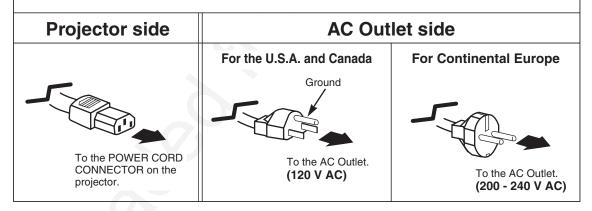


Connect the AC Power Cord (supplied) to the projector.

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

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.

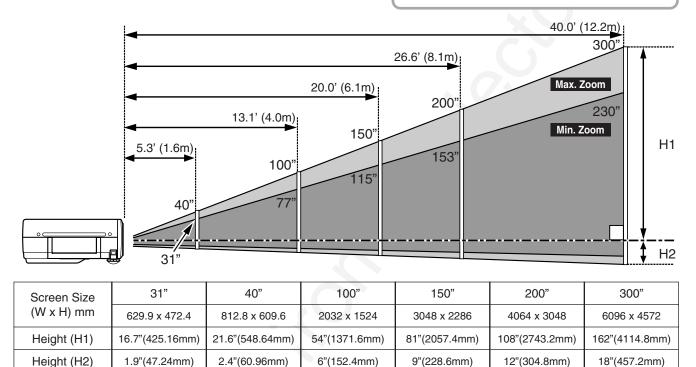


POSITIONING PROJECTOR

- 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 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.

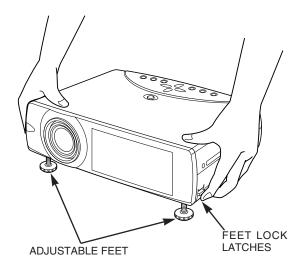


ADJUSTABLE FEET

Picture tilt and projection angle can be adjusted by rotating the ADJUSTABLE FEET. Projection angle can be adjusted to 15.6 degrees.

- 1 Lift the front of the projector and pull FEET LOCK LATCHES on both sides of the projector.
- 2 Release FEET LOCK LATCHES to lock ADJUSTABLE FEET and rotate ADJUSTABLE FEET to fine tune position and tilt.
- **3** To shorten the ADJUSTABLE FEET, lift the front of the projector and pull to undo FEET LOCK LATCHES. Keystone distortion of a projected image can be adjusted by Menu Operation. (Refer to P20 and 35.)

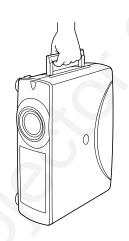
Avoid positioning a projector with an angle of more than 20 degrees. Projection Lamp may malfunction.



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

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.



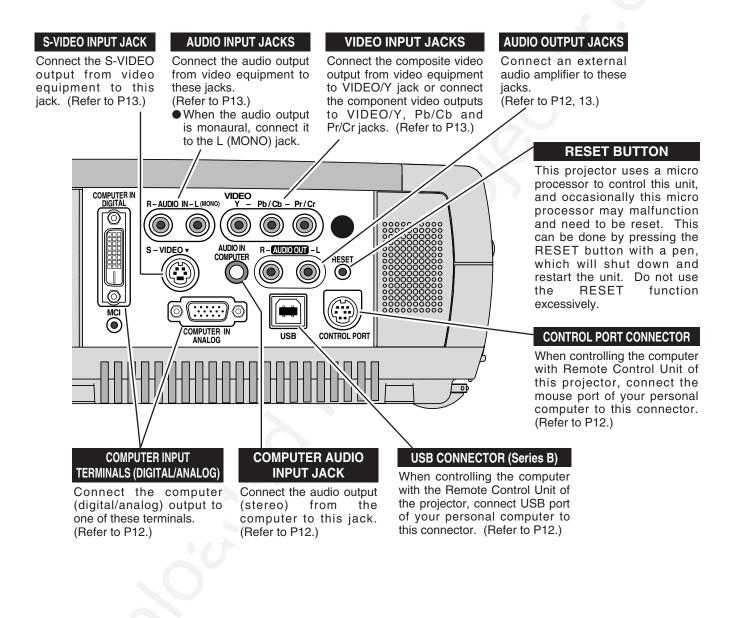
CAUTION IN CARRYING OR TRANSPORTING THE PROJECTOR

- 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 the best method.

10

TERMINALS OF PROJECTOR

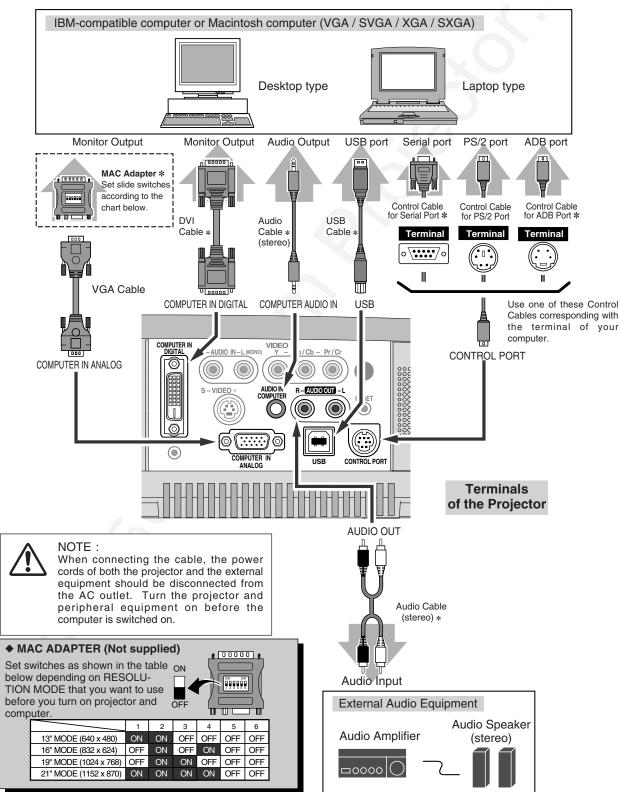
This projector has input and output terminals on its back for connecting computers and video equipment. Refer to figures on pages 11 to 13 and connect properly.



CONNECTING TO COMPUTER

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

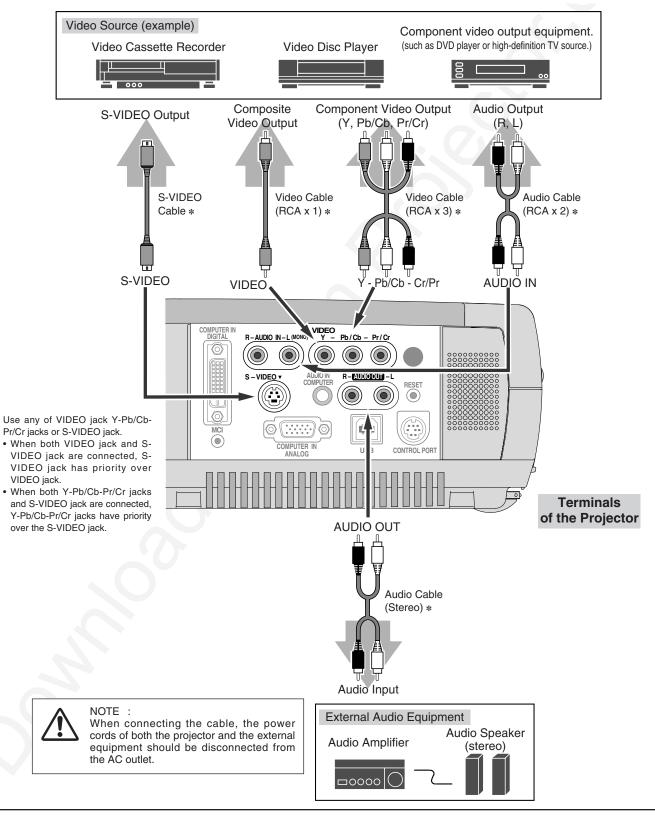
- VGA Cable (HDB 15 pin)
- Control Cable for PS/2 Port
- DVI-Digital Cable (for Single Link T.M.D.S.) *
- Control Cable for Serial Port *, or ADB Port *
- USB Cable *
- MAC Adapter (When connecting to Macintosh computer) *
- Audio Cables (RCA x 2 and Mini Plug (stereo) x 1) *



CONNECTING TO VIDEO EQUIPMENT

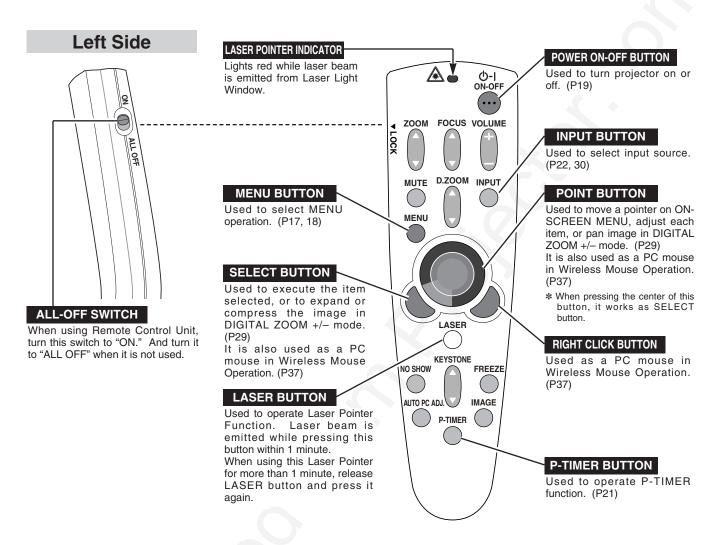
Cables used for connection (* = Cable is not supplied with this projector.)

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



BEFORE OPERATION

OPERATION OF REMOTE CONTROL

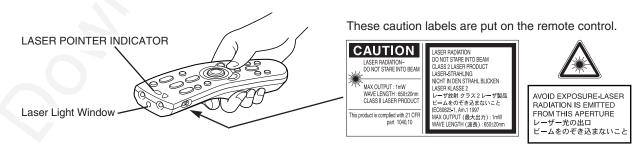


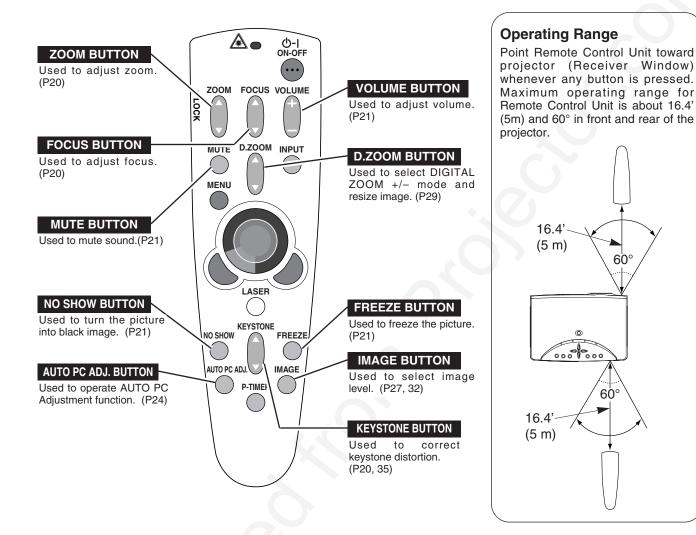
LASER POINTER FUNCTION

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 below are the caution labels for the laser beam.

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





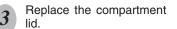
Remote Control Batteries Installation

Remove the battery compartment lid.



Slide the batteries into the compartment.

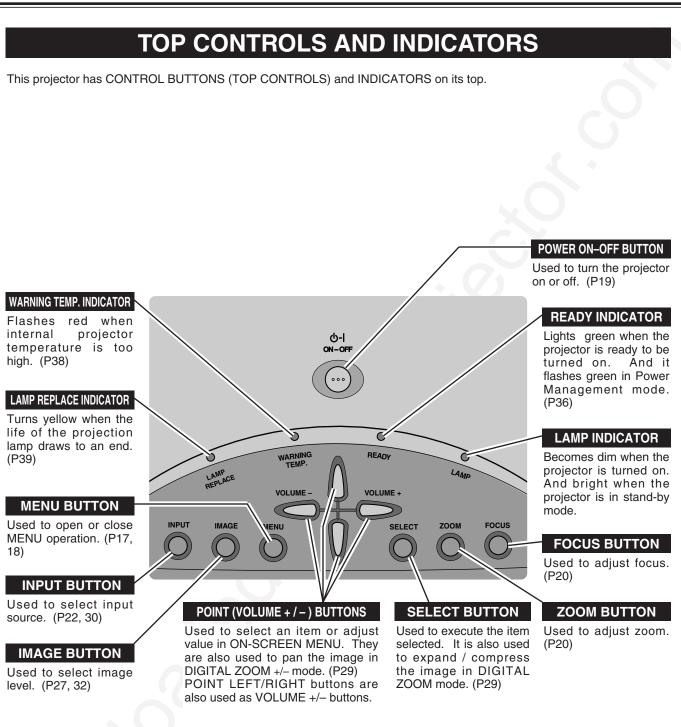
Two AA size batteries For correct polarity (+ and -), be sure the battery terminals are in contact with the pins in the compartment.





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.
- Danger of explosion if battery is incorrectly replaced.
- Dispose of used batteries according to battery manufacturer's instructions and local rules.



OPERATING ON-SCREEN MENU

HOW TO OPERATE ON-SCREEN MENU

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

1 DISPLAY MENU

Press MENU button to display ON-SCREEN MENU.

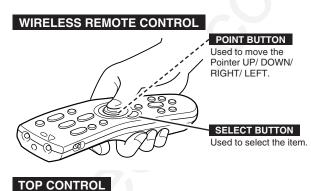
2 MOVING POINTER

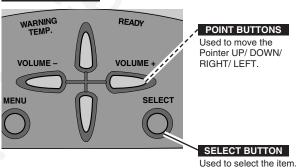
Move the pointer (* see below) or adjust the value of item by pressing POINT button(s) on Top Control or on Remote Control Unit.

* 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 SELECT button.





FLOW OF ON-SCREEN MENU OPERATION

Display ON-SCREEN MENU

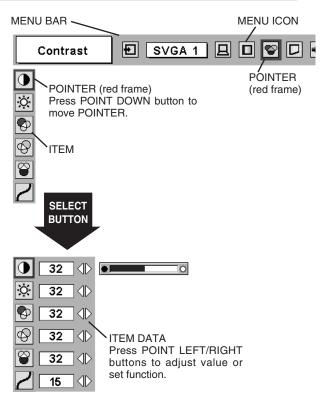
I Press MENU button to display ON-SCREEN MENU (MENU BAR). A red frame is POINTER.

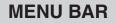
Select Menu to be adjusted

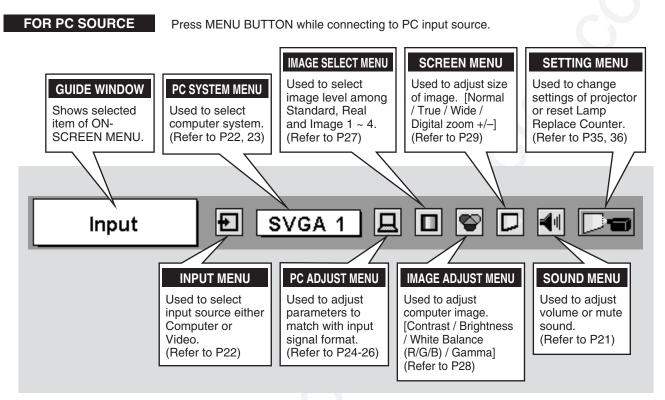
2 Move POINTER (red frame) to MENU ICON that you want to select by pressing POINT RIGHT / LEFT buttons.

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

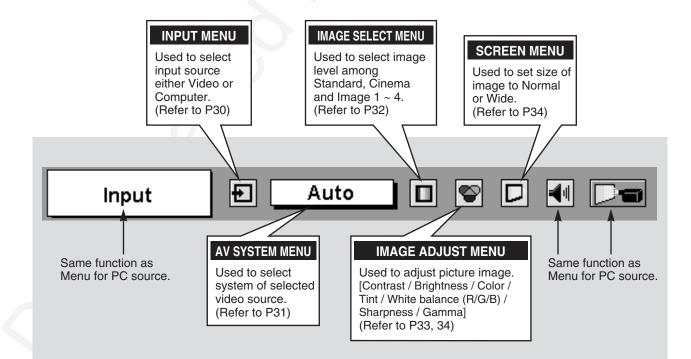






FOR VIDEO SOURCE

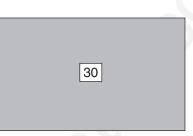
Press MENU BUTTON while connecting to VIDEO input source.



TURNING ON / OFF PROJECTOR

TURNING ON THE 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 THE PROJECTOR

- Press POWER ON-OFF button on Top Control or on Remote Control Unit, and a message "Power off?" appears on a screen.
- 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 can not 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.

Power off?	

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 the 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.

ADJUSTING SCREEN

ZOOM ADJUSTMENT

- Press ZOOM button on Top Control or ZOOM ▲/▼ button on 1 Remote Control Unit. The message "Zoom" is displayed.
- Press ZOOM ▲ button or POINT UP button to make image 2 larger, and press ZOOM ▼ button or POINT DOWN button to make image smaller.

	Zoom	
Message disa	appears after 4 second	 S.

FOCUS ADJUSTMENT

- Press FOCUS button on Top Control or FOCUS ▲/▼ button on 1 Remote Control Unit. The message "Focus" is displayed.
- Adjust focus of image by pressing FOCUS ▲/▼ button or 2 POINT UP/DOWN button(s) .

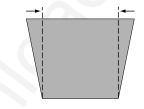
Focus	
lessane disannears aft	or 4 seconds

KEYSTONE ADJUSTMENT

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

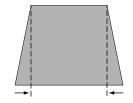
- Press KEYSTONE ▲/▼ button on Remote Control Unit or select 1 Keystone on SETTING menu. (Refer to page 35.) Keystone dialog box appears.
- Correct keystone distortion by pressing KEYSTONE ▲/▼ button 2 or POINT UP/DOWN button(s). Press KEYSTONE ▲ button or POINT UP button to reduce the upper part of image, and press KEYSTONE ▼ button or POINT DOWN button to reduce the lower part.

Reduce the upper width with KEYSTONE ▲ button or POINT UP button.





Reduce the lower width with KEYSTONE ▼ button or POINT DOWN button.



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 except the POINT, SELECT, RIGHTCLICK, P-TIMER and LASER buttons.

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 except the POINT, SELECT, RIGHTCLICK, P-TIMER and LASER buttons.

No show

Message disappears after 4 seconds.

P-TIMER FUNCTION

Press P-TIMER button on Remote Control unit. The timer display "00 : 00" appears on the screen 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



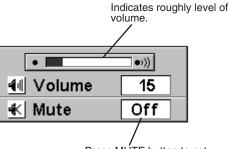
Volume

Press VOLUME (+/-) button(s) on Top Control or on Remote Control Unit to adjust volume. Volume dialog box appears on the screen for a few seconds.

(+) button to increase volume, and (-) button to decrease.

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).



Press MUTE button to set Mute function On or Off.

The display disappears after 4 seconds.

MENU OPERATION

- Press MENU button and ON-SCREEN MENU will appear. Press 1 POINT LEFT/RIGHT buttons to move the red frame pointer to the SOUND Menu icon.
- Press POINT DOWN button to move the red frame pointer to the 2 item that you want to select, and then press SELECT button.

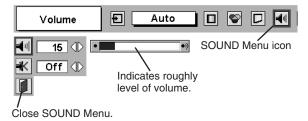
Volume **1**1

To increase volume, press POINT RIGHT button, and press POINT LEFT button to decrease.

ŧK. Mute

Press POINT LEFT/RIGHT button(s) 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(s) again.

SOUND MENU



COMPUTER INPUT

SELECTING INPUT SOURCE

DIRECT OPERATION

Choose Computer by pressing INPUT button on Top Control or on Remote Control Unit.

If projector can not reproduce proper image, select correct input source through MENU OPERATION (see below).

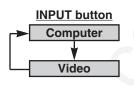
MENU OPERATION

- Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move the red frame pointer to INPUT Menu icon.
- 2 Press POINT DOWN button to move the red arrow pointer to Computer and then press SELECT button. Source Select Menu will appear.
- **3** Move the pointer to either RGB (Digital) or RGB (Analog) and then press SELECT button.

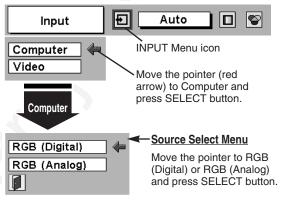
RGB (Digital) When your computer is connected to COMPUTER INPUT (DIGITAL) terminal, select RGB (Digital).

RGB (Analog)

When your computer is connected to COMPUTER 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 SPECIFICATIONS" 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.



When projector can not 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.)



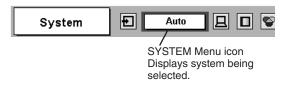
There is no signal input from computer. Make sure the connection of computer and a projector is set correctly. (Refer to TROUBLESHOOTING on page 40.)

SELECT COMPUTER SYSTEM MANUALLY

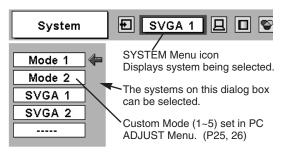
This projector automatically selects PC system among those provided in this projector and PC system can be also selected manually.

- Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to move the red frame pointer to PC SYSTEM Menu icon.
- 2 Press POINT DOWN button to move the red arrow pointer to the system that you want to set, and then press SELECT button.

PC SYSTEM MENU



PC SYSTEM MENU



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)

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.

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

ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)	ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)
D-VGA	640 x 480	31.469	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.

- Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move the red frame pointer to PC ADJUST Menu icon.
- 2 Press POINT DOWN button to move the red frame pointer to AUTO PC Adj. icon and then press SELECT button twice. This Auto PC Adjustment can be also executed by pressing AUTO PC ADJ. button on Remote Control Unit.

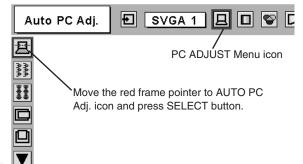
Store adjustment parameters.

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).

<u>NOTE</u>

- 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 can not be operated when "RGB," "720p (HDTV)," "1035i (HDTV)" or "1080i (HDTV)" is selected on PC SYSTEM Menu (P22).

PC ADJUST MENU



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 the Multi-Scan system of this projector. If this happens, the projector can not 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 can not be operated when the input signal is from COMPUTER IN DIGITAL terminal or "RGB" is selected on PC SYSTEM MENU (P22).
- Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move the red frame pointer to PC ADJUST Menu icon.
- 2 Press POINT DOWN button to move the red frame pointer to the item that you want to adjust and then press SELECT 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.

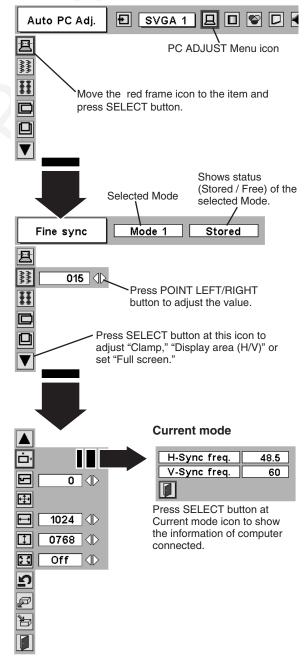


Press SELECT button to show the information of computer selected.

Clamp

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

PC ADJUST MENU



Display area

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



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

Display area V 1

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



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 can not be adjusted when "1035i (HDTV)" or "1080i (HDTV)" is selected on PC SYSTEM Menu (P22).

3 ď Store

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

Mode free P

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



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

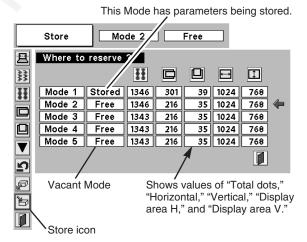


Closes PC ADJUST MENU.

Other icons operate as follows.

Display area Mode 1 Stored ▲ Press SELECT button at Display area icon and Display ۳ area dialog box appears. 5 **Display** area ÷ 640x480 720x400 ↔ 1024 800x600 Ţ. 0768 1024x768 1152x864 <u>× ×</u> Off 1280x1024 2 Press POINT LEFT P /RIGHT button(s) to adjust value and then ď press SELECT button.

To store adjustment data.



To clear adjustment data.

Mode free Mode 1 Stored								
昱	Which mo	Which mode to free ?						
899 898			ĪĪ			Ð	1	
**	Mode 1	Stored	1346	301	39	1024	768	
	Mode 2	Free	1346	216	35	1024	768	
	Mode 3	Free	1343	216	35	1024	768	
	Mode 4	Free	1343	216	35	1024	768	
	Mode 5	Free	1343	216	35	1024	768	
₽								
Close this dialog box.								
	wode fr	ee icon						



PICTURE IMAGE ADJUSTMENT

IMAGE LEVEL SELECT (DIRECT)

Select image level among Standard, Real, Image 1, Image 2, Image 3 and Image 4 by pressing IMAGE button on Top Control or on Remote Control Unit.

Standard

Normal picture level preset on this projector.

Real

Picture level with improved halftone for graphics.

IMAGE 1~4

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

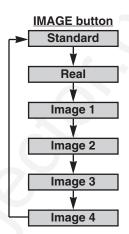


IMAGE LEVEL SELECT (MENU)

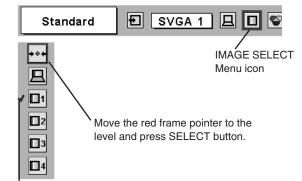
Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move the red frame pointer to IMAGE SELECT Menu icon.

level that you want to set and then press SELECT button.

Normal picture level preset on this projector.

Press POINT DOWN button to move the red frame pointer to the

IMAGE SELECT MENU



The level being selected.

Real Picture level with improved halftone for graphics.

♦♦♦ Standard

2

IMAGE 1~4

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

IMAGE LEVEL ADJUSTMENT

- Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to move the red frame pointer to IMAGE ADJUST Menu icon.
- Press POINT DOWN button to move the red frame pointer to the item that you want to adjust. and then press SELECT 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.)



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 E Store

To store manually preset image, move the red frame pointer to Store icon and press SELECT button. Image Level Menu will appear. Move the red frame pointer to the Image 1 to 4 where you want to set and then press SELECT button.

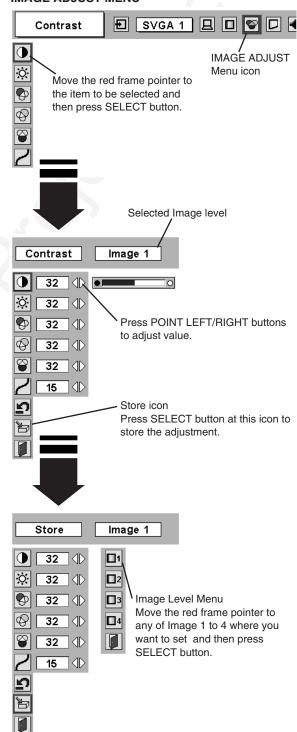
Other icons operate as follows.



Reset all adjustment to previous figure.



IMAGE ADJUST MENU



PICTURE SCREEN ADJUSTMENT

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

- Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move the red frame pointer to SCREEN Menu icon.
- Press POINT DOWN button and move the red frame pointer to the function that you want to select and then press SELECT button.

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 SELECT 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 SELECT 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 \blacktriangle/∇ , SELECT, POINT and LASER buttons.

SCREEN MENU Normal E SVGA 1 C C SCREEN Menu icon Move the red frame to the function and press SELECT button. C

NOTE

- This SCREEN Menu can not be operated when "1035i (HDTV)" or "1080i (HDTV)" is selected on PC SYSTEM Menu (P22).
- Wide can not be selected when "720p (HDTV)" is selected on PC SYSTEM Menu (P22).
- True and Digital zoom +/- can not be selected when "RGB" is selected on PC SYSTEM Menu (P22).
- This projector can not 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.
- 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.

VIDEO INPUT

SELECTING INPUT SOURCE

DIRECT OPERATION

Choose Video by pressing INPUT button on Top Control or on Remote Control Unit.

If projector can not reproduce proper video source, select correct input source through MENU OPERATION (see below).

MENU OPERATION

- Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move the red frame pointer to INPUT Menu icon.
- 2 Press POINT DOWN button to move the red arrow pointer to Video and then press SELECT button. Source Select Menu will appear.
- **3** Move the pointer to the source that you want to select and then press SELECT button.

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

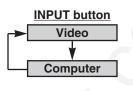
- When both VIDEO jack and S-VIDEO jack are connected, S-VIDEO jack has priority over VIDEO jack.
- When both Y-Pb/Cb-Pr/Cr jacks and S-VIDEO jack are connected, Y-Pb/Cb-Pr/Cr jacks have priority over S-VIDEO jack.
- **Video** When video input signal is connected to VIDEO jack, select Video.

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

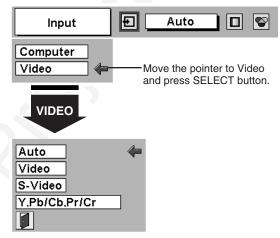
Y,Pb/Cb,Pr/Cr

Auto

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 the pointer to the source and press SELECT button.

SELECTING VIDEO SYSTEM

- Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to move the red frame pointer to AV SYSTEM Menu icon.
- 2 Press POINT DOWN button to move the red arrow pointer to the system that you want to select and then press SELECT button.

VIDEO 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 can not 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.

Y, Pb/Cb, Pr/Cr JACKS

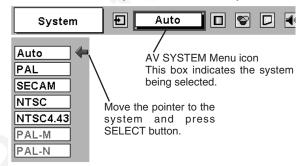
Auto

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

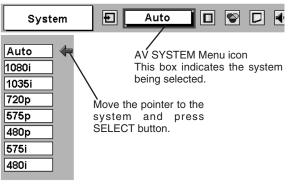
COMPONENT VIDEO SIGNAL FORMAT

If projector can not 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 (VIDEO OR S-VIDEO)



AV SYSTEM MENU (COMPONENT VIDEO)



PICTURE IMAGE ADJUSTMENT

IMAGE LEVEL SELECT (DIRECT)

Select image level among Standard, Cinema, Image 1, Image 2, Image 3 and Image 4 by pressing IMAGE button on Top Control or on Remote Control Unit.

Standard

Normal picture level preset on this projector.

Cinema

Picture level adjusted for the picture with fine tone.

IMAGE 1~4

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

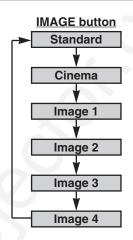


IMAGE LEVEL SELECT (MENU)

- Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move the red frame pointer to IMAGE SELECT Menu icon.
- 2 Press POINT DOWN button to move the red frame pointer to the level that you want to set and then press SELECT button.

Normal picture level preset on this projector.

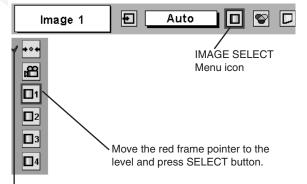
Cinema

Picture level adjusted for the picture with fine tone.

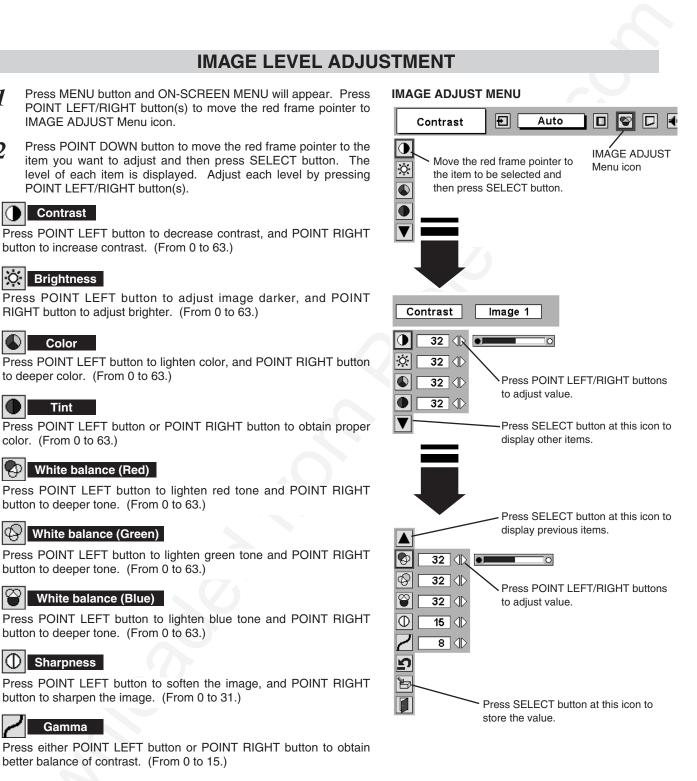
1 IMAGE 1~4

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

IMAGE SELECT MENU



The level being selected.



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

1

2

3 Store

To store the adjustment data, move the red frame pointer to Store icon and press SELECT button. Image Level Menu will appear. Move the red frame pointer to the Image Level 1 to 4 and then press SELECT button.

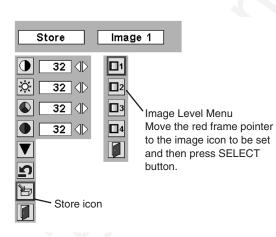
Other icons operate as follows.



Reset all adjustment to previous figure.



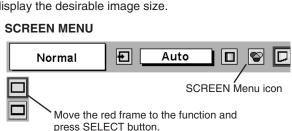
Closes IMAGE MENU.



PICTURE SCREEN ADJUSTMENT

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

- Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move the red frame pointer to SCREEN Menu icon.
- 2 Press POINT DOWN button and move the red frame pointer to the function that you want to select and then press SELECT button.



NOTE : SCREEN Menu can not be operated when "720p," "1035i," or "1080i" is selected on AV SYSTEM Menu (P30).



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



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

SETTING MENU

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

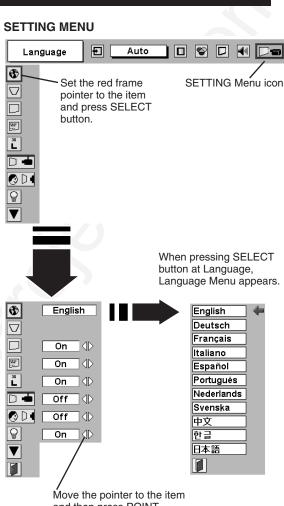
When this function is "On," projector displays our logo when starting up.



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.

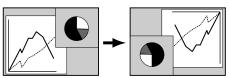


When this function is "On," picture is left / right reversed. This function is used to project the image to a rear projection screen.

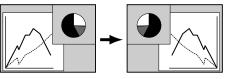


and then press POINT LEFT/RIGHT button(s).

Ceiling function



Rear function



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 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).
- 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 can not 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, the 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.

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.

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.

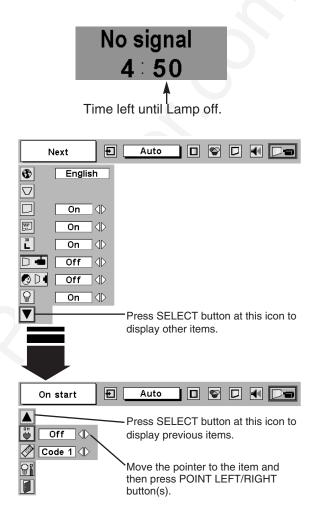
After changing the code, make sure Remote Control operates properly.

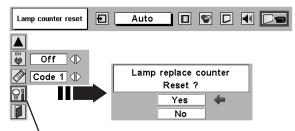
To return to the normal code (Code 1), repeat the above procedure.

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).



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.





Move the pointer to Lamp counter reset and then press SELECT button. The message "Lamp replace counter reset?" is displayed.

APPENDIX

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 can not 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 the Personal Computer is activated.

- *I* Connect the mouse port (or USB port) of your computer to the Control Port (or USB connector) of this projector with a 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, the 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, SELECT button, and RIGHT CLICK button on Wireless Remote Control Unit.

POINT button

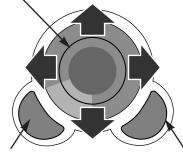
Used to move PC mouse pointer. The pointer is moved corresponding with the direction you are pressing.

SELECT (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. POINT button (Move the pointer)



SELECT button (left mouse button)

RIGHT CLICK button (right mouse button)

MAINTENANCE

WARNING TEMP. INDICATOR

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

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

AIR FILTER CARE AND CLEANING

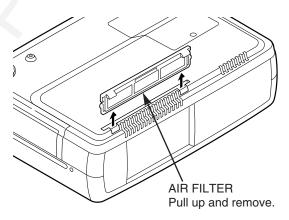
Removable Air Filter prevents dust from accumulating on the surface of Projection Lens and Projection Mirror. Should Air Filter become clogged with dust particles, it will reduce Cooling Fans' effectiveness and may result in internal heat build up and adversely affect the life of the projector. Clean Air Filter following the steps below:

- Turn off the projector, and disconnect AC power cord from the 1 AC outlet.
- Turn the projector upside down and remove Air Filter by pulling 2 the latches upward.
- Clean Air Filter with a brush or wash out dust and particles. 3
- Replace the Air Filter properly. Make sure the Air Filter is fully Δ 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 the lens, liquid crystal panels, or optical elements inside the projector. This condition may degrade the quality of the projected image.

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

CLEANING PROJECTION LENS

Follow these steps to clean Projection Lens:

- Apply a non-abrasive camera lens cleaner to a soft, dry cleaning cloth. Avoid using an excessive amount of cleaner. 1 Abrasive cleaners, solvents or other harsh chemicals might scratch a surface.
- Lightly wipe a cleaning cloth over Projection Lens. 2
- 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 the projector can become very hot.

Follow these steps to replace the lamp assembly.

- *I* 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 the 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 : 38-VIV003-01
- Replacement Lamp Type No.: 03-000468-01P (Service Parts No. 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.

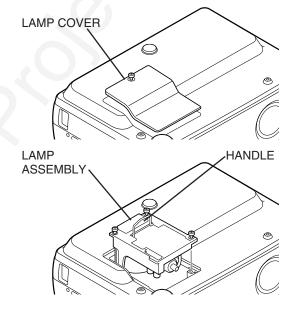
- 1 Turn projector on, press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move the red frame pointer to SETTING Menu icon (refer to page 35, 36).
- 2 Press POINT DOWN button to move the red frame pointer to "Lamp counter reset" and then press SELECT button. The message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



CAUTION

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



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 the projector from your computer and check your computer monitor's display. The problem may be with your graphics controller rather than with the projector. (When you reconnect the 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 the projector into your AC outlet. Make sure READY Indicator lights. Wait 90 seconds after the projector is turned OFF before turning the projector back on. NOTE : After pressing Power ON-OFF button to OFF, make sure the projector works as follows:
	 LAMP indicator lights bright and READY indicator turns off. 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 the indicator flashes red, the projector can not 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 the projection screen is at least 5.3' (1.6m) from the projector. Check Projection Lens to see if it needs cleaning.
	NOTE : Moving the projector from a cool temperature location to a warm temperature location may result in moisture condensation on Projection Lens. In such an event, leave the 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 the connection between your computer or video equipment and the projector. When turning the 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.

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 the cable connection between the projector and your computer. Check the mouse setting on your computer. Turn the projector on before turning on the computer. 				

SERVICE

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

You can often correct operating problems yourself. If the projector fails to work properly, see the "TROU-BLESHOOTING" section on pages 40 and 41.

If after following all operating instructions, you find that service is necessary, contact the Christie Service Station or store where you purchased the unit. Give the model number and explain the difficulty. We will advise you on how to obtain service.



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.

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

APPENDIX

TECHNICAL SPECIFICATIONS

Projector Type	Multi-media Projector				
Dimensions (W x H x D)	13.11" x 3.52" x 9.07" (333mm x 89.5mm x 230.5mm) (not including Adjustable Feet and Lens)				
Net Weight	8.6 lbs (3.9 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 ~ 2.0 lens with f 37.4 mm ~ 48.3 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				
Computer 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	3 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	AC 100 ~ 120 V (3.6 A Max. Ampere), 50 / 60 Hz (The U.S.A and Canada)				
Power Consumption	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 2Operating 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	User's Manual AC Power Cord Wireless Remote Control Transmitter and Batteries VGA Cable Control Cable for PS/2 port Carrying Bag Lens Cover				

• The specifications are subject to change without notice.

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. : 10-A POA-MCSRL

MAC Adapter

• Control Cable for ADB Port

Type No. : 10-A POA-MCMAC

Type No. : 10-A POA-MACAP

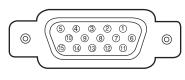
CONFIGURATIONS OF THE TERMINALS

COMPUTER INPUT-1 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



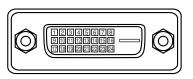
1	Red Input	9	+5V Power
2	Green Input	10	Ground (Vert.sync.)
3	Blue Input	11	Sense 0
4	Sense 2	12	DDC Data
5	Ground (Horiz.sync.)	13	Horiz. sync.
6	Ground (Red)	14	Vert. sync.
7	Ground (Green)	15	DDC Clock
8	Ground (Blue)		

COMPUTER INPUT-1 TERMINAL (DIGITAL)

Terminal : DVI 24-pin

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

Pin Configuration



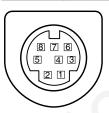
1	T.M.D.S. Data2-	9	T.M.D.S. Data1-	17	T.M.D.S. Data0-
2	T.M.D.S. Data2+	10	T.M.D.S. Data1+	18	T.M.D.S. Data0+
3	T.M.D.S. Data2 Shield	11	T.M.D.S. Data1 Shield	19	T.M.D.S. Data0 Shield
4	No Connect	12	No Connect	20	No Connect
5	No Connect	13	No Connect	21	No Connect
6	DDC Clock	14	+5V Power	22	T.M.D.S. 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

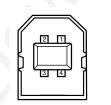


PS/2	Serial	ADB
	RXD	
CLK		ADB
DATA		
GND	GND	GND
	RTS / CTS	
	TXD	
GND	GND	
	GND	GND
	CLK DATA GND 	R X D CLK DATA GND GND RTS / CTS T X D GND GND

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			



CHRISTIE DIGITAL SYSTEMS, Inc. 809 Wellington Street North Kitchener, Ontario Canada N2G 4Y7 Telephone (519) 744-8005 North America call toll-free 1-800-265-2171 (sales) Fax (519) 749-3136

CHRISTIE DIGITAL SYSTEMS, Inc. 10550 Camden Drive Cypress, CA 90630 USA Telephone (714) 236-8610 Fax (714) 503-3385 Toll Free 1-800-407-7727 Toll Free 1-800-333-3816

CHRISTIE DIGITAL SYSTEMS, Inc. Image Point 58 Suttons Park Avenue Reading, Berkshire RG6 1AZ United Kingdom Telephone +44 118 926-6300 Fax +44 118 926-6322

CHRISTIE DIGITAL SYSTEMS, Inc. Hohenzollernstraße 124-126 41061 Mönchengladbach Germany Telephone +49 (0) 2161 664540 Fax +49 (0) 2161 664546

CHRISTIE DIGITAL SYSTEMS, Inc. 627A Aljunied Road #05-02 Biz Tech Centre Singapore 389842 Telephone 65-877-8737 Fax 65-877-8747

www.christiedigital.com

PLEASE READ

This manual is provided as a free service by Projector.com.

We are in no way responsible for the contents of the manual. We do not guarantee its accuracy and we do not make any claim of copyright. The copyright remains the property of their respective owners.

ABOUT PROJECTOR.COM

Projector.com (<u>http://www.projector.com</u>) is your review and buying guide resource for DLP and LCD video projectors.

Visit the site to read the latest projector news and reviews, read and comment on projector specifications, download user manuals and much more.