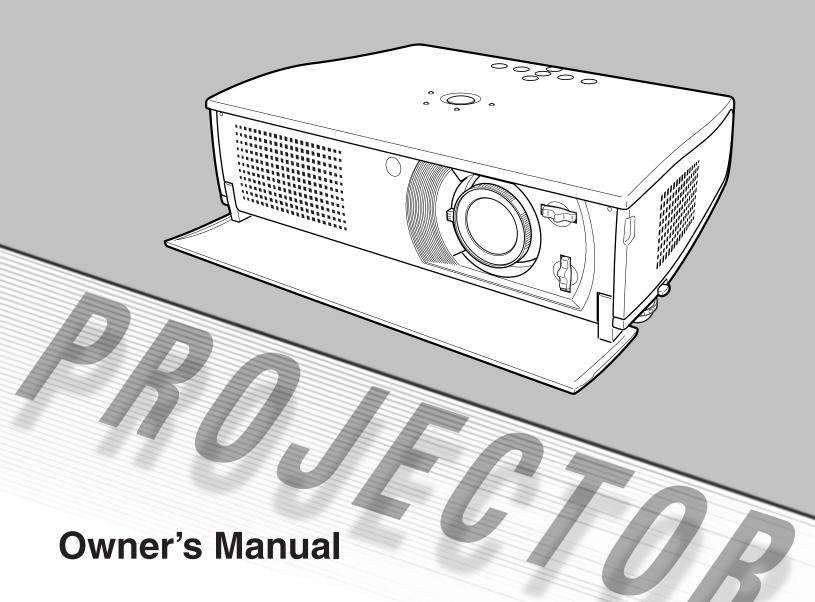


Multimedia Projector

MODEL PLV-Z1 PLV-Z1BL



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TRADEMARKS		

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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.

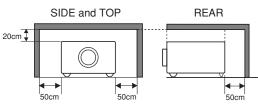
Improper operation may result in not only shortening the product-life, but also malfunctions, fire hazard, or other accidents.

If your projector seems to operate improperly, read this manual again, check operations and cable connections and try the solutions in the Troubleshooting section at the end of this manual. 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 it could possibly damage your eyes. 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.
- Provide appropriate space on the top, sides and rear of the projector cabinet for allowing air circulation and cooling the projector. Minimum clearance must be maintained. If the projector is to be built into a compartment or similarly enclosed, the minimum distances must be maintained. Do not cover the ventilation slot on the projector. Heat 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.
- 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.

Â	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
		MOVE COVER (OR BACK). NO USER- IT. REFER SERVICING TO QUALIFIED
THIS SYMBOL INDICATES THAT INVOLTAGE CONSTITUTING A RISK OF SHOCK IS PRESENT WITHIN THIS U	OF ELECTRIC 🖊 OPERATING A	INDICATES THAT THERE ARE IMPORTANT ND MAINTENANCE INSTRUCTIONS IN THE IUAL WITH THIS UNIT.

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.

Moving the Projector

When moving the projector, close the front cover and retract the adjustable feet to prevent damage to the lens and cabinet. When the projector is not in use for an extended period, put it into a suitable case.

CAUTION IN CARRYING OR TRANSPORTING THE PROJECTOR

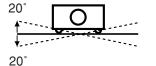
- Do not drop or bump a projector, otherwise damages or malfunctions may result.
- When carrying a projector, use a suitable carrying case.
- Do not transport a projector by using a courier or transport service in an unsuitable transport case. This may cause damage to a projector. To transport a projector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

NOTE

Moving the projector from a cool temperature location to a warm temperature location may result in moisture condensation on the Projection lens. In such an event, leave the projector OFF and wait until condensation disappears.

Installing the Projector in a Proper Position

Install the projector in a proper position. Installation of improper position may reduce the lamp lifetime and cause fire hazard.



Do not tilt the projector more than 20 degrees on either side.



Do not put the projector upward and project an image.



Do not put the projector downward and project an image.



Do not put the projector sideway and project an image.

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	: PLV-Z1, PLV-Z1BL
Trade Name	: Sanyo
Responsible party	: SANYO FISHER COMPANY
Address	: 21605 Plummer Street, Chatsworth, California 91311
Telephone No.	: (818)998-7322

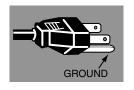
AC POWER CORD REQUIREMENT

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

AC Power Cord for the United States and Canada :

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

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



AC Power Cord for the United Kingdom :

This cord is already fitted with a moulded plug incorporating a fuse, the value of which is indicated on the pin face of the plug. Should the fuse need to be replaced, an ASTA approved BS 1362 fuse must be used of the same rating, marked thus . If the fuse cover is detachable, never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is of the same colour as that visible on the pin face of the plug (i.e. red or orange). Fuse covers are available from the Parts Department indicated in your User Instructions.

If the plug supplied is not suitable for your socket outlet, it should be cut off and destroyed.

The end of the flexible cord should be suitably prepared and the correct plug fitted. (See Over)

WARNING : A PLUG WITH BARED FLEXIBLE CORD IS HAZARDOUS IF ENGAGED IN A LIVE SOCKET OUTLET.

The Wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow Earth

- Blue ······ Neutral
- Brown Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

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

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

WARNING : THIS APPARATUS MUST BE EARTHED.

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

Connecting the AC Power Cord

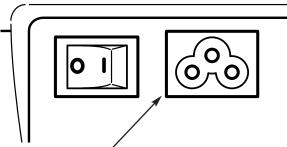
This projector uses nominal input voltages of 100-120 V or 200-240 V AC. This projector automatically selects the correct input voltage. It is designed to work with single-phase power systems having a grounded neutral conductor. To reduce risk of electrical shock, do not plug into any other type of power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

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

Connect a projector with all peripheral equipment before turning a projector on. (Refer to page 11, 17, and 18 for connection.)

For safety, unplug AC Power Cord when the projector is not in use.

When this projector is connected to the outlet with AC Power Cord and the MAIN ON/OFF switch is on, it is in Stand-by mode and consumes a little electric power. Turn the MAIN ON/OFF switch off when the projector is not in use.



Connect 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

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

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

Feature 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.

Short Zoom Lens

This projector is equipped with Short Zoom Lens which allows you to enjoy 100" screen size in range of 9.8' (3.0m) to 11.8' (3.6m).

Lens Shift

The Lens Shift function gives you less limitation in positioning the projector. You can use it at desired places without a distorted image.

Compact Design

This projector is extremely compact in size and weight. It is designed to be carried 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
 - 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 964 x 544 dots resolution for computer input. Resolution from a computer more than 964 x 544 and less than SXGA (1280 x 1024) is compressed into 964 x 544 dots. This projector cannot display image of over 1280 x 1024 dots. When resolution of your computer is higher 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.

16 : 9 Wide Screen

The projector is equipped with LCD panels of 16 : 9 ratio so that you can project the image from component video signal such as a DVD player and high definition TV in a full screen.

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.

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

The Power management function is provided to reduce power consumption while the projector is not in use.

This Power management function operates to turn the Projection lamp off when the projector detects signal interruption and any button is not pressed over 5 minutes. The Projection lamp is automatically turned on again when the projector detects signal or any operation button is pressed.

This projector is shipped with this function ON.

Lamp Mode

Either the Bright mode or the Theater black mode is available in the Setting menu. The Theater black mode is suitable for seeing a movie since it makes the image best for a movie in low noise.

Multilanguage Menu Display

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

Illumination Buttons

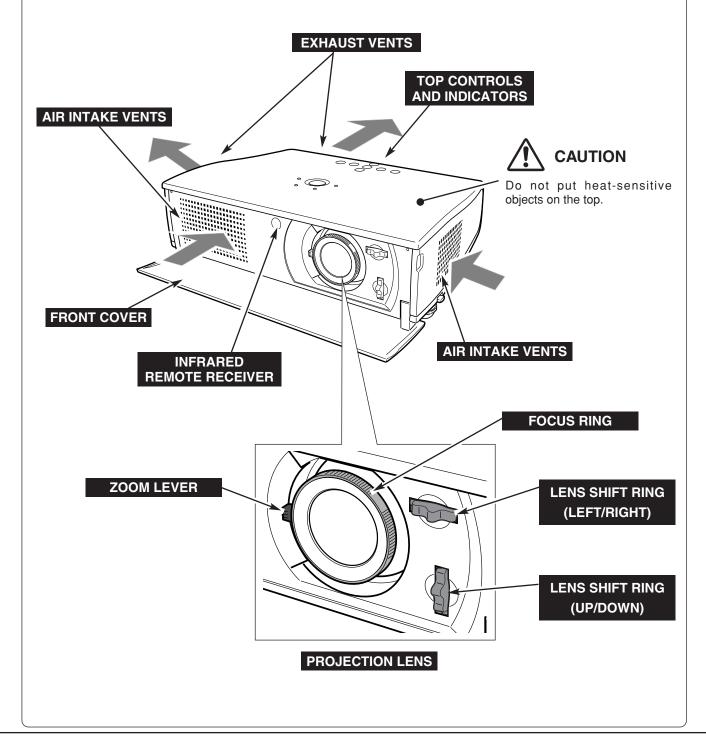
The Remote Control employs the Light button and the Luminous buttons that emit light to be used easily in a dark place.

Part Names and Functions

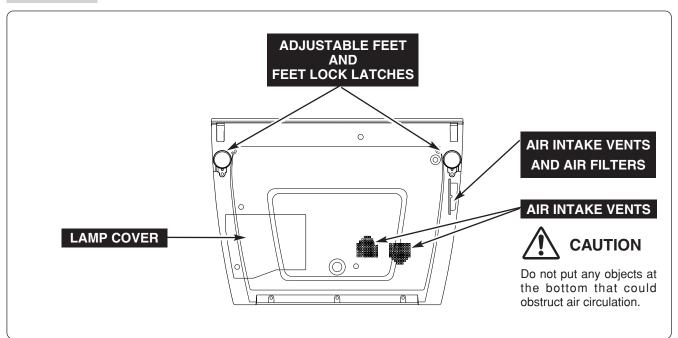
Front

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.

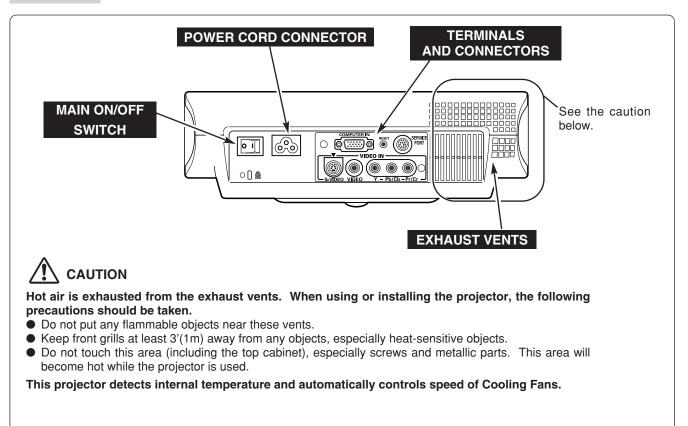
- Do not cover vent holes.
- Keep back and bottom clear of any object. Obstructions may block cooling air.



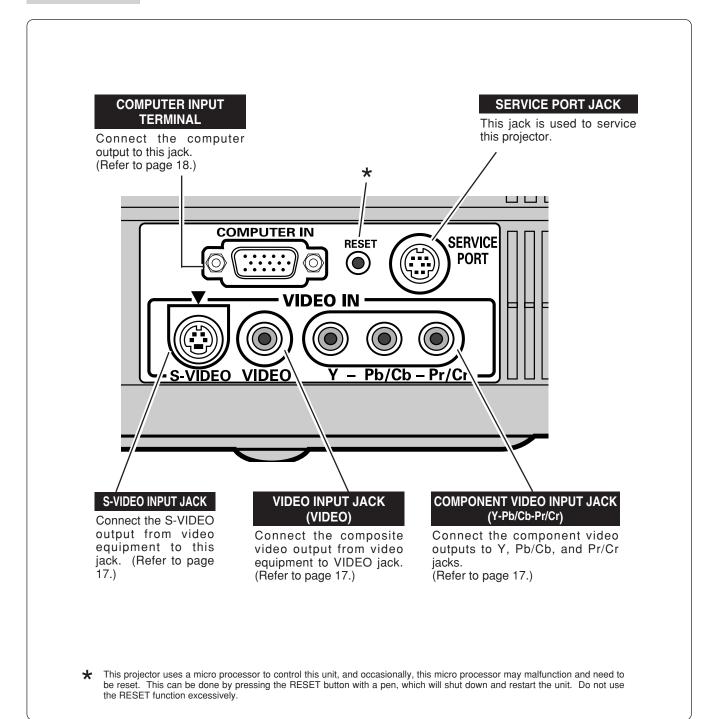


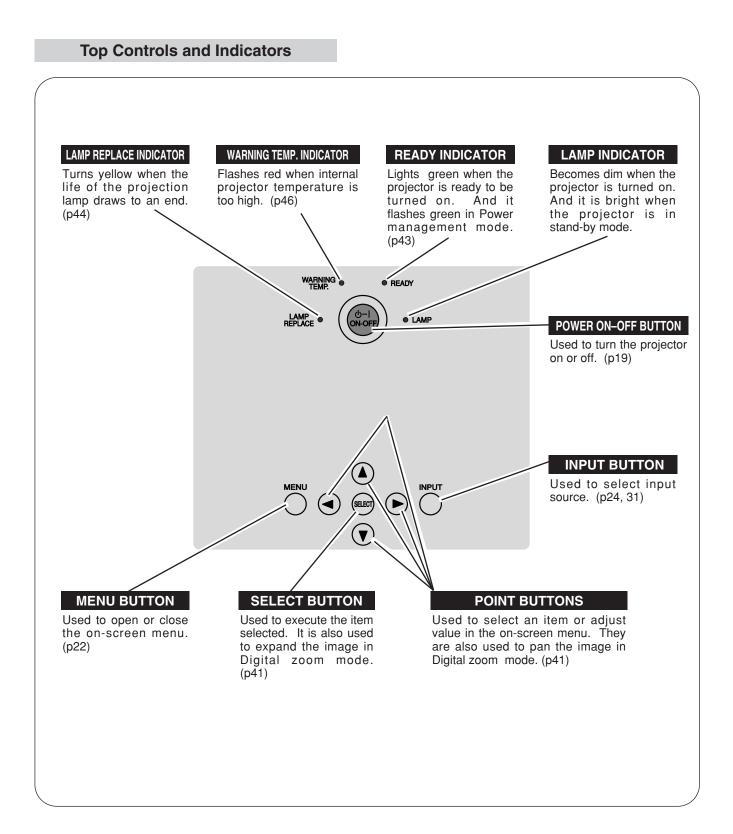


Back

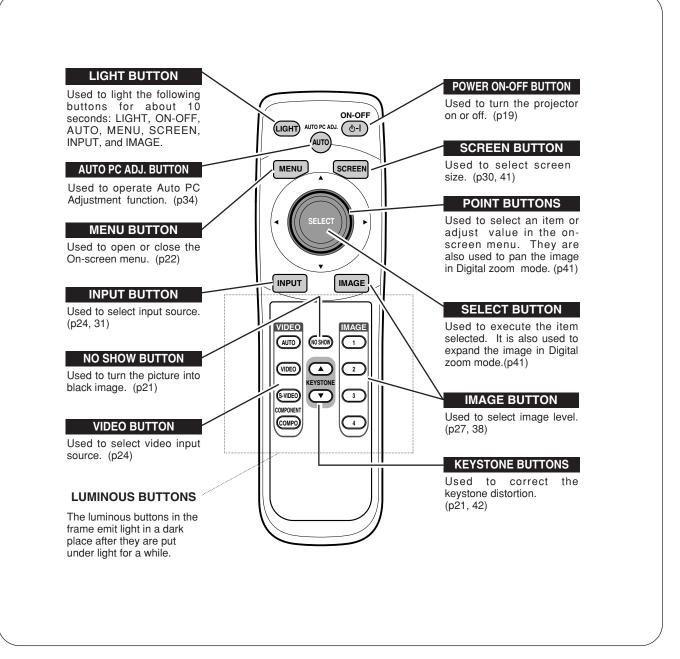


Terminal





Remote Control

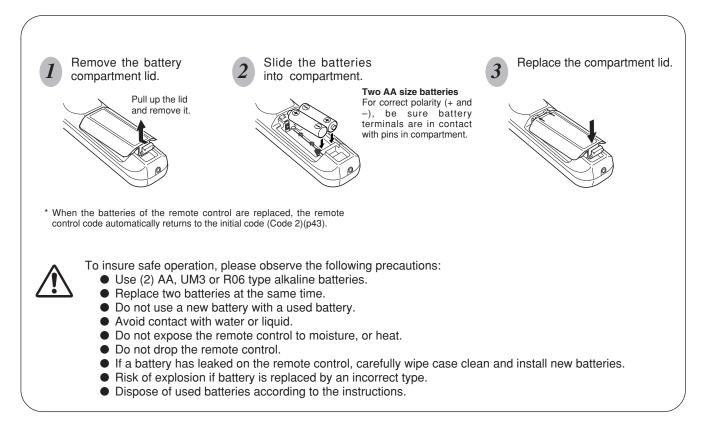




To insure safe operation, please observe the following precautions :

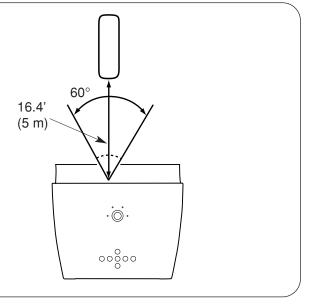
- Do not bend, drop the remote control, or expose the remote control to moisture or heat.
- For cleaning, use soft dry cloth. Do not apply benzene, thinner, splay or any chemical material.

Remote Control Batteries Installation



Operating Range

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



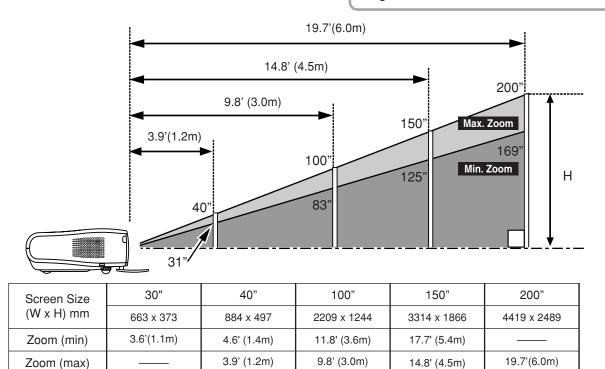
Positioning the Projector

- This projector is designed to project on a flat projection surface.
- The projector can be focused from 3.6'(1.1m) ~ 19.7'(6.0m).
- Refer to the figure below to adjust a screen size.

*The lens is at the top of the lens shift.

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.



Tilting the Projector

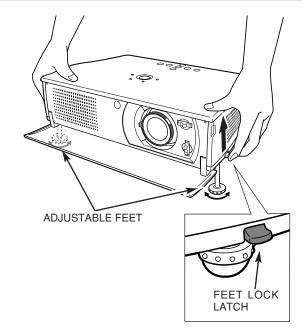
Picture tilt and projection angle can be adjusted by rotating the Adjustable feet. Projection angle can be adjusted up to 11.8 degrees with the Adjustable feet.

Lift the front of the projector and pull the Feet lock latches on both sides of the projector.

2 Release the Feet lock latches to lock the Adjustable feet and rotate the Adjustable feet to adjust position and tilt.

3 To retract the Adjustable feet, lift the front of the projector and pull and undo the Feet lock latches.

Keystone distortion of a projected image can be adjusted by menu operation or the remote control. (Refer to page 21 and 42.)



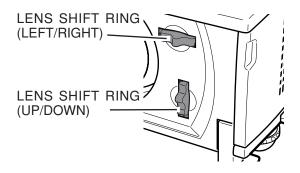
Tilt the projector within the adjustable range in order not to shorten the life of the lamp. Proper angle should be taken. Refer to page 5.

Moving the Lens

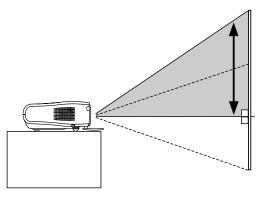
The Projection lens can be moved up and down with manual lens shift function. This function makes it easy to provide a projected image where you want. U/D ratio can be adjusted from $10: 0 \sim 0: 10$ (refer to the figures below).

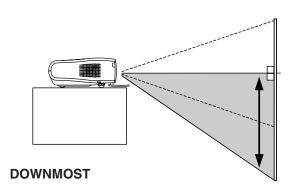
Turn the lens shift ring (left/right) left/right to move the lens leftward / rightward.

Turn the lens shift ring (up/down) up/down to move the lens upward / downward.



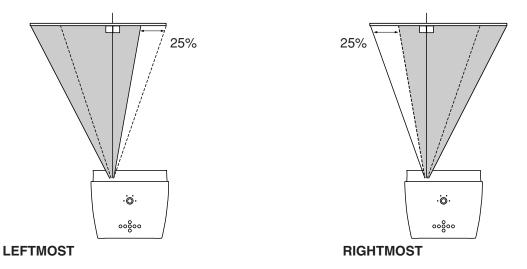
LENS SHIFT UP/DOWN





UPPERMOST

LENS SHIFT LEFT/RIGHT



NOTE

The best image is generally obtained at the center without the Lens shift.

Connecting to Video Equipment

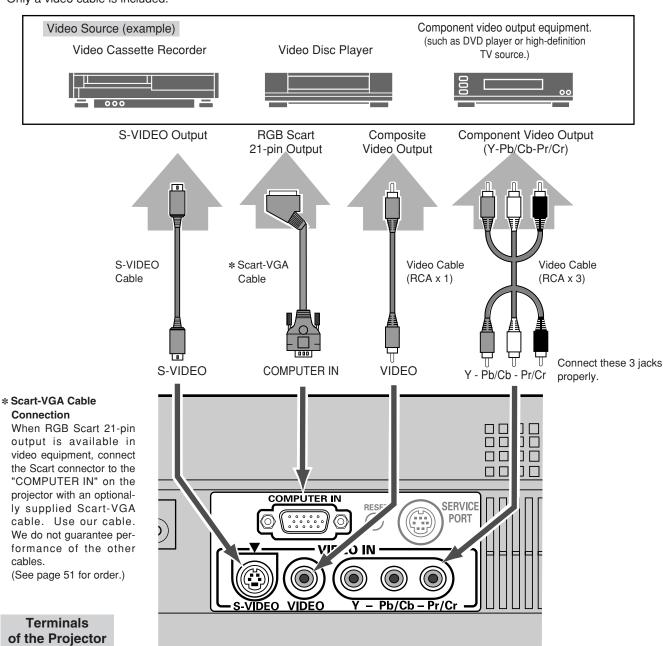
Scart-VGA Cable

Cables used for connection

• Video Cable (RCA x 1 or RCA x 3)

S-VIDEO Cable

*Only a video cable is included.



NOTE

When selecting the video input with the "AUTO" on the remote control or through menu operation, the projector selects connection in the following order:

- 1st Y-Pb/Cb-Pr/Cr
- 2nd S-VIDEO
- 3rd VIDEO

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

cords of both the projector and the external equipment should be disconnected from AC outlet.

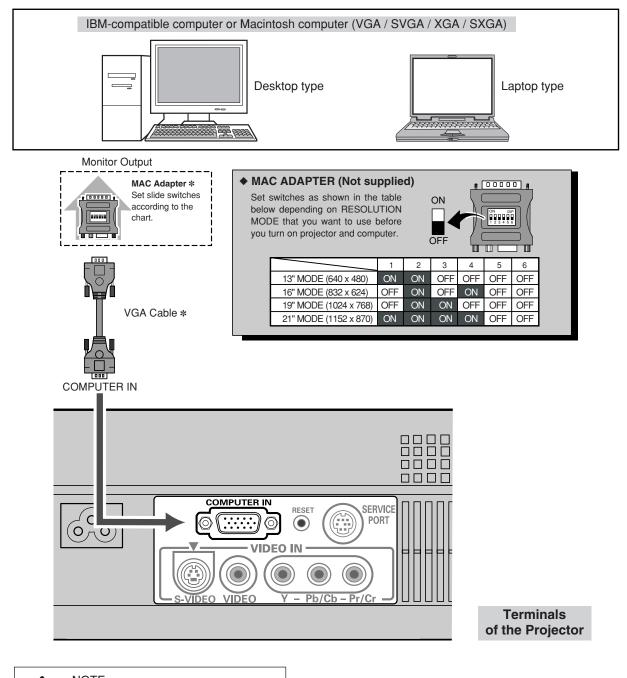
Connecting to a Computer

Cables used for connection

VGA Cable (HDB 15 pin) *

MAC Adapter (When connecting to Macintosh computer) *

* option



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.

Basic Operation

Turning On the Projector

Complete peripheral connections (with Computer, VCR, etc.) before turning on the projector.

Connect the projector's AC Power Cord into an AC outlet, and open the front cover. Turn the MAIN ON/OFF switch on. The LAMP indicator lights red, and the READY indicator lights green. The READY indicator does not light green with the front cover closed.

Press the POWER ON-OFF button on the top control or on the remote control. The LAMP indicator dims, and cooling fans start to operate. Preparation display appears on a screen and the count-down starts (for 30 seconds).

The input source that is selected last and the Lamp mode status icon appears on a screen after the count-down. Select input source of either video or computer. (Refer to page 24 or 31.)

Lamp mode

Bright light (Bright mode)

Light with head gray (Theater black mode)

Turning Off the Projector

- Press the POWER ON-OFF button on the top control or the remote control, and a message "Power off?" appears on a screen. The message is not displayed and the projector is turned off when the Power off confirmation function is off. (See the Setting menu on page 43.)
- Press the POWER ON-OFF button again to turn off the projector. The LAMP indicator lights bright and the READY indicator turns off. The cooling fans operate for about 90 seconds. During this "Cooling Down" period, leave the front cover open. (The projector cannot be turned on.)

When the projector has cooled down, the READY indicator lights green again. Turn the MAIN ON/OFF switch off and disconnect the AC Power Cord. Do not disconnect the AC Power Cord before the READY indicator lights green.



CAUTION

For safety, the projector will be turned off when the front cover is closed in the middle of operation. However, do not close the front cover for the purpose of turning off the projector. Close the front cover after the projector has cooled down and the READY indicator lights green.

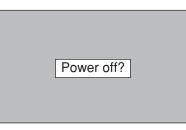
NOTE

To maintain the life of the lamp, once you turn the projector on, wait at least 5 minutes before turning it off.

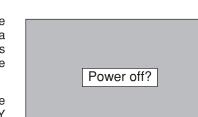
Do not use the projector for more than 24 hours continuously. Turn off the projector at least once in 24 hours and give it a rest. Continuous use may result in shortening the lamp lifetime.

When the "Power management" function is ON, the projector detects signal interruption and turns off the Projection lamp automatically. Refer to "Power management" on page 43.

When the WARNING TEMP. indicator flashes red, the projector is automatically turned off. Wait at least 5 minutes before turning on the projector again. (Refer to the section "Warning Temp. Indicator" on page 46.)



Message disappears after 4 seconds.



*Refer to page 43 for the Lamp mode.

MAIN ON/OFF switch OFF ON

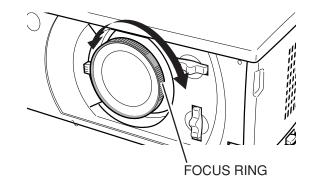
Lamp mode Video

P

Open the front cover.

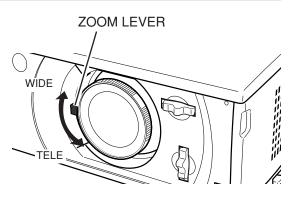
Focus Adjustment

Rotate the FOCUS RING to adjust the projected picture focus.



Zoom Adjustment

Move the ZOOM LEVER upward to make the image larger. Move the ZOOM LEVER downward to make the image smaller.



 \bigtriangleup

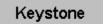
Keystone Adjustment

If a projected picture has keystone distortion, correct the image with Keystone Adjustment.

Press the KEYSTONE ▲/▼ button on the remote control or select the Keystone in the Setting menu. (Refer to page 42.) The Keystone dialog box appears.

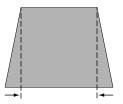
Correct keystone distortion by pressing the KEYSTONE ▲/▼ button or the POINT UP/DOWN button. Press the KEYSTONE ▲ button or the POINT UP button to reduce the upper part of image, and press the KEYSTONE ▼ button or the POINT DOWN button to reduce the lower part.

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



- The arrows are white when there is no correction.
- The arrow disappears at the maximum correction.
- The direction of the arrow being corrected turns purple.

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

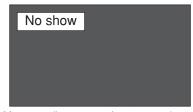


Keystone Adjustment Hint

Use the Lens shift function first to move the screen for the quality of image before using the Keystone adjustment function. Moving the screen with the Lens shift function produces a better image than keystone adjustment function.

No Show Function

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

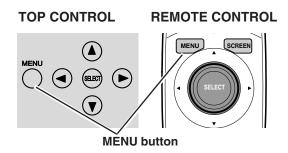


Message disappears after 4 seconds.

On-Screen Menu

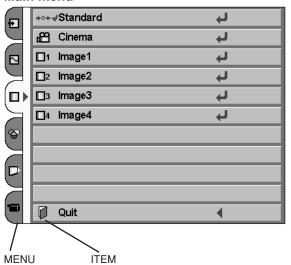
The projector has the on-screen menu that provides a variety of adjustment and settings.

Display the on-screen menu by pressing the MENU button on the top control or the remote control. A main menu appears.



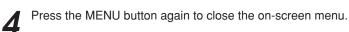
2 Select a menu from the main menu by pressing the POINT UP/DOWN button, and press the POINT RIGHT button to enter the sub-menu. (The selected icon turns yellow.)

Main menu



POINT RIGHT BUTTON

3 Select an item by pressing the POINT UP/DOWN button, and activate the item that you have selected by the $\mathbf{P}, \mathbf{q}, \mathbf{q}$, or \mathbf{P}



SELECT BUTTON

button.

Press the SELECT button to activate the item that you have selected.

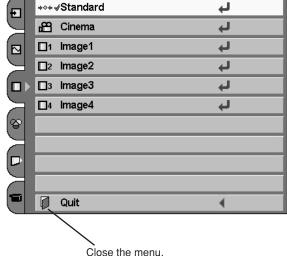
POINT LEFT BUTTON

Press the POINT LEFT button to go on or adjust values.

POINT RIGHT BUTTON

Press the POINT RIGHT button to go on or adjust values.





Contents of Menus

VIDEO MENUS

Ð	INPUT SOURCE SELECTION: select input source either Video [Auto, Video, S-Video, (Y-Pb/Cb-Pr/Cr)] or Computer. (Refer to page 24, 25.)
	VIDEO SYSTEM SELECTION: select Video system from AUTO, PAL, SECAM, NTSC, NTSC4.43, PAL-M, PAL-N, 1080i, 1035i, 720p, 575p, 480p, 575i, 480i. (Refer to page 26.)
	IMAGE LEVEL SELECTION: select image level from Standard, Cinema, and Image 1 ~ 4. (Refer to page 27.)
8	IMAGE LEVEL ADJUSTMENT: adjust Contrast / Brightness / Color / Tint / Color temp. / White balance (R/G/B) / Sharpness / Gamma / Auto grayscale / Auto fleshtone. (Refer to page 28, 29.)
•	SCREEN SIZE ADJUSTMENT: set the screen size from Full, Zoom, or Normal. (Refer to page 30.)
	SETTING: change various settings; Language, Keystone, Blue back, Display, Menu position, Logo, Ceiling, Rear, Power management, Power off confirmation, Lamp mode, Remote control, and Lamp counter reset. (Refer to page 42.)

COMPUTER MENUS

Ð	INPUT SOURCE SELECTION: select input source either Computer or Video [Auto, Video, S-Video, (Y-Pb/Cb- Pr/Cr)]. (Refer to page 31.)
	COMPUTER SYSTEM SELECTION: select computer system available. (Refer to page 32.)
	COMPUTER ADJUSTMENT: select Auto PC Adj. or adjust Fine sync, Total dots, Horizontal, Vertical, Current mode, Clamp, Display area, Display area H, Display area V, Full screen, and use Reset, Mode free, and Store. (Refer to page 34-37.)
	IMAGE LEVEL SELECTION: select image level from Standard, Real, and Image 1 ~ 4. (Refer to page 38.)
8	IMAGE LEVEL ADJUSTMENT: adjust Contrast / Brightness / Color temp. / White balance (R/G/B) / Sharpness / Gamma / Auto grayscale / Auto fleshtone. (Refer to page 39, 40.)
9	SCREEN SIZE ADJUSTMENT: set the size from Normal, Full, True, and Digital zoom. (Refer to page 41.)
	SETTING: change various settings; Language, Keystone, Blue back, Display, Menu position, Logo, Ceiling, Rear, Power management, Power off confirmation, Lamp mode, Remote control, and Lamp counter reset. (Refer to page 42.)

Input Source Selection (Direct Operation)

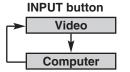
INPUT BUTTON

You can select Video input or Computer input with the INPUT button. (The input source that is selected last is selected when the projector is turned on.)

If the projector cannot reproduce proper video source, select correct input source through menu operation on the next page.

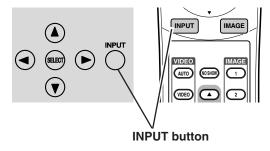
RGB Scart Input

To select RGB Scart 21-pin video input through the computer input terminal, follow the procedures described at the section "Input Source Selection" on page 31.



TOP CONTROL

REMOTE CONTROL



AUTO / VIDEO / S-VIDEO / COMPO BUTTON

Press AUTO, VIDEO, S-VIDEO, or COMPO button on the remote control according to video input.

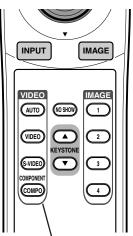
*It is convenient for you to select the AUTO as the projector automatically detects incoming video signal, and adjust itself to optimize its performance.

AUTO	When selecting the AUTO, the projector automatically detects incoming video signal, and adjusts itself to
	optimize its performance. The projector selects connection in the following order: 1st Y-Pb/Cb-Pr/Cr 2nd S-VIDEO 3rd VIDEO
	The Y-Pb/Cb-Pr/Cr has priority over the S-VIDEO. The S-VIDEO has priority over the VIDEO.
VIDEO	When video input signal is connected to VIDEO, select the Video.

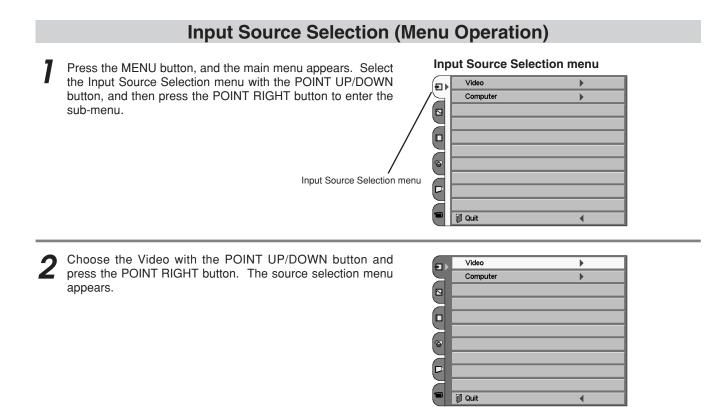
S-VIDEO When video input signal is connected to S-VIDEO, select the S-Video.

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

REMOTE CONTROL

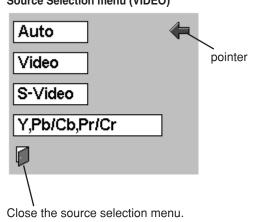


AUTO / VIDEO / S-VIDEO / COMPO button



3 Move the pointer to the source that you want to select with the POINT UP/DOWN button, and press the SELECT button. Close the source selection menu.

Source Selection menu (VIDEO)

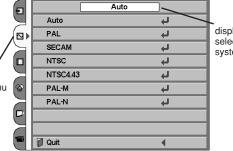


Video System Selection (Video / S-Video)

Press the MENU button, and the main menu appears. Select the Video System Selection menu with the POINT UP/DOWN button, and then press the POINT RIGHT button to enter the sub-menu.

Video System Selection menu

Video System Selection menu (VIDEO / S-VIDEO)



displays the selected system.

2 Choose the system that you want to select with the POINT UP/DOWN button, and then press the SELECT button to activate the item.

Auto

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

However, when video system is PAL-M or PAL-N, select either PAL-M or PAL-N manually.

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

If the projector cannot reproduce proper video image, select a specific system among PAL, SECAM, NTSC, NTSC 4.43, PAL-M, and PAL-N.

Ð		Auto]
9	Auto		L)
	PAL		L)
	SECAM		Ļ
	NTSC		L)
X	NTSC4.43		L)
8	PAL-M		L)
X	PAL-N		L)
X			
	🕼 Quiț		•

Close the Video System Selection menu.

Video System Selection (Y-Pb/Cb-Pr/Cr)

Press the MENU button, and the main menu appears. Select the Video System Selection menu with the POINT UP/DOWN button, and then press the POINT RIGHT button to enter the sub-menu.

Video System Selection menu (Y-Pb/Cb-Pr/Cr)

Ð		Auto
	Auto	Ļ
	1080i	L)
\geq	1035i	Ļ
	720p	Ļ
	575p	لې
(<u>@</u>	480p	لې
	575i	L)
	480i	L)
	💋 Quit	4

2 Choose the system that you want to select with the POINT UP/DOWN button, and then press the SELECT button to activate the item.

Auto

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

COMPONENT VIDEO SIGNAL FORMAT

If the projector cannot reproduce proper video image, select a specific component video system among 480i, 575i, 480p, 575p, 720p, 1035i, and 1080i.

Ð		Auto
Ч	Auto	لې
	1080i	ل ب
	1035i	ل ب
	720p	ل ب
X	575p	لې
<u>(</u> ଙ୍କ	480p	لې
X	575i	لې
	480i	Ļ
Z		
	💋 Quit	4

Image Level Selection (Direct Operation)

Select the image level among Standard, Cinema, Image 1, Image 2, Image 3, and Image 4 by pressing the IMAGE button on the remote control. (See the next section "Image Level Selection (Menu Operation)" about each item.)

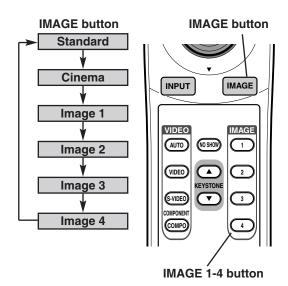


Image Level Selection (Menu Operation)

Image Level Selection

menu

Press the MENU button, and the main menu appears. Select the Image Level Selection menu with the POINT UP/DOWN button, and then press the POINT RIGHT button to enter the sub-menu.

Image Level Selection menu



2 Choose the level that you want to set with the POINT UP/DOWN button, and then press the SELECT button to activate it.

♦०♦ Standard

Normal picture adjustment preset on this projector.



Picture level adjusted for the picture with fine tone.



User preset picture adjustment in Image Level Adjustment menu (p28, 29).

		/	
Ð	+0+1	Standard	Ļ
Ч	£	Cinema	Ļ
	D 1	Image1	ل <u>ب</u>
Ч	D 2	Image2	لب ا
	□3	Image3	لب ا
A	□4	Image4	لب ا
(<u></u>			
X			
A			
	Ø	Quit	•
	1		

The level being selected.

Close the Image Level Selection menu.

Image Level Adjustment

Image Level Adjustment -

menu

Press the MENU button, and the main menu appears. Select the Image Level Adjustment menu with the POINT UP/DOWN button, and then press the POINT RIGHT button to enter the sub-menu.

Image Level Adjustment menu

Ð	● Contrast	4 32
	🔆 Brightness	4 32
	Color	4 32
	1 Tint	4 32
	Next	L.
\geq	≦ ∩Reset	•
[�₽▶	Ъ Store	•
	🖗 Quit	•

2 Choose the item that you want to adjust with the POINT UP/DOWN button, and then press the POINT LEFT/RIGHT button to adjust each item. The items displayed in a line can be adjusted while you see the change of the image. Press the SELECT button to finish adjusting an item. The on-screen menu returns to the sub-menu.

Ð		Standard		
Ч	Contrast		♦ 32	
	🔆 Brightness		♦ 32	
H	Color		♦ 32	
	Tint		♦ 32	
Ч	Next		<u>ل</u>	P
[�▶	Reset		•	SI at
A	Ъ Store		•	di
				ite
А				
	💋 Quit		4	

Press the SELECT button at this icon to display other items.

🙄 🚽 🌓 Contrast	♦ 32
Press the S	ELECT button at this
icon to clos	e the item.

3 To store the adjustment data, select the Store with the POINT UP/DOWN button and press the POINT RIGHT button.

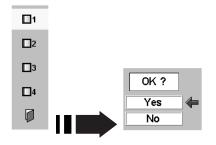
Reset

To reset to previous level, select the Reset with the POINT UP/DOWN button and press the POINT RIGHT button. Select "Yes" with the SELECT button.

Standard Ð Contrast 32 32 🔆 Brightness ♣[Í Color 32 ♠[ÍD Tint 32 Next ł Reset ٠ 🛏 Store ▶ 💋 Quit ◀

4

Choose one of the positions from Image Level 1 to 4 where you want to store with the POINT UP/DOWN button, and press the SELECT button. Select "Yes" with the SELECT button and close the menu by pressing the SELECT button at the Quit.



NOTE

All the items on the next page can be memorized in Image 1-4.

Select the Store.

The items that you can adjust are the following:



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

O Brightness

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



Press the POINT LEFT button to lighten color and the POINT RIGHT button to deepen color. (From 0 to 63.)



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



Press the POINT LEFT button or the POINT RIGHT button for Color temp. level that you want to select. (XLow, Low, Mid, or High)

White balance (Red)

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

White balance (Green)

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

White balance (Blue)

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

Sharpness

Press the POINT LEFT button to soften the image and the POINT RIGHT button to sharpen the image. (From 0 to 15.)



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

Auto grayscale

When this function is "ON", it automatically enhances contrast of bright and dark part of image.

Auto fleshtone

When this function is "ON", it produces more vivid image according to image condition.



Reset all adjustment before the data is stored. (The Reset does not work for the stored data.)



Store the adjustment data.

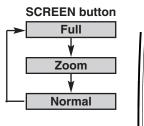


Close the Image Level Adjustment menu.

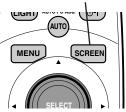
NOTE : Tint cannot be adjusted when the video system is PAL, SECAM, PAL-M or PAL-N.

Screen Size Adjustment (Direct Operation)

Select the screen size among Full, Zoom, and Normal by pressing the SCREEN button on the remote control. (See the next section "Screen Size Adjustment (Menu Operation)" about each item.)







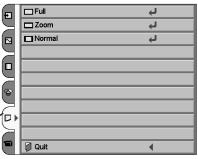
Screen Size Adjustment (Menu Operation)

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

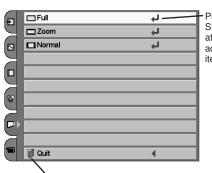
Screen Size Adjustment menu-

- Press the MENU button, and the main menu appears. Select the Screen Size Adjustment menu with the POINT UP/DOWN button, and then press the POINT RIGHT button to enter the sub-menu.
 - NOTE : The Screen Size Adjustment cannot be operated when "720p," "1035i," or "1080i" is selected in the Video System Selection menu (p26).





Choose the item that you want to set with the POINT UP/DOWN button, and then press the SELECT button to activate it.



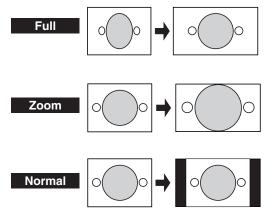
Press the SELECT button at this icon to activate the item.

Full

Provides an image to fit width of screen by expanding the image width uniformly. This function can be used for providing a squeezed video signal at wide video aspect ratio of 16 : 9.

When your video equipment (such as DVD) has 16 : 9 output mode, select 16 : 9 and select the Full on this Screen Size Adjustment menu to provide better quality.

Close the Screen Size Adjustment menu.



Zoom

Provides an image to fit screen size (16 : 9 aspect ratio) by expanding the image width and height uniformly. This function can be used for providing a letter box mode picture (4:3 aspect picture with black bar on the top and bottom edges) at wide video aspect of 16 : 9.

Normal

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

Input Source Selection (Direct Operation)

INPUT BUTTON

You can select Computer input or Video input with the INPUT button. (The input source that is selected last is selected when the projector is turned on.)

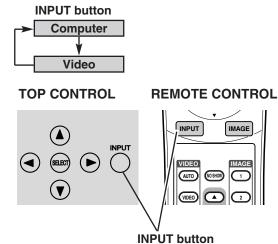
If the projector cannot reproduce proper image, select a correct input source through menu operation as shown below.

RGB Scart Input

When RGB Scart 21-pin output is available in video equipment, connect the Scart connector to the "COMPUTER IN" on the projector with an optionally supplied Scart-VGA cable. It can reproduce higher resolution and quality of picture. (See page 51 for order.) To select RGB Scart input, follow the procedures described below.

Note

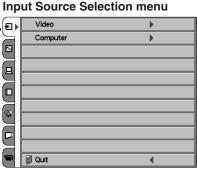
RGB Scart input (COMPUTER IN) can receive 575i only.



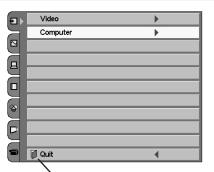
Input Source Selection (Menu Operation)

Input Source Selection menu

Press the MENU button, and the main menu appears. Select the Input Source Selection menu with the POINT UP/DOWN button, and then press the POINT RIGHT button to enter the sub-menu.



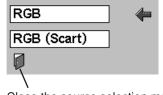
Choose the Computer with the POINT UP/DOWN button and press the POINT RIGHT button. The Source selection menu appears.



Close the Input Source Selection menu.

Move the pointer to the source that you want to select with the 3 POINT UP/DOWN button, and press the SELECT button. To select computer input, select the RGB. To select RGB Scart 21-pin video input, select the RGB (Scart). Close the source selection menu.

Source Selection menu



*Select the RGB (Scart) only when connecting the projector with the Scart-VGA cable.

Close the source selection menu.

Ð

Computer System Selection

This projector automatically tunes to most different types of computers based on VGA, SVGA, XGA, or SXGA in most cases (refer to "Compatible Computer System" on the next page). When selecting Computer, this projector automatically tunes to incoming signal and projects proper image without any special setting.

The projector displays one of the Auto, - - -, Mode 1/2/3/4/5, or the system provided in the projector.

- Auto When the projector cannot recognize the connected system as computer system provided in this projector, Auto PC Adjustment function operates to adjust the projector and the message "Auto" is displayed on the System box. (Refer to p34.) Store the adjusted data by the Auto PC Adjustment function so as to use the system again. When the image is not provided properly, manual adjustment is required. (Refer to page 35, 36, and 37.)
- There is no signal input from the connected computer.

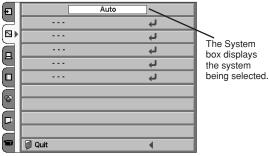
Make sure the connection of the computer and the projector is set correctly. (Refer to the Troubleshooting section on page 47.)

Mode 1

User preset adjustment in Computer Adjustment (Manual). Adjustment data can be stored Mode 1 - 5.

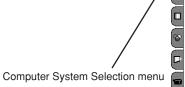
SVGA 1 Computer systems provided in the projector. The projector chooses proper system and displays it.

Computer System Selection menu



*Mode 1 and SVGA 1 are examples.

Press the MENU button, and the main menu appears. Select the Computer System Selection menu with the POINT UP/DOWN button, and then press the POINT RIGHT button to enter the sub-menu.

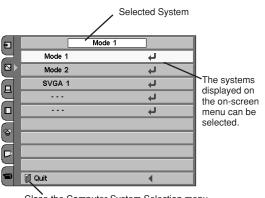


Custom Mode (1~5) set in the Computer Adjustment menu. (p35-37)



Computer System Selection menu

Choose the system that you want to select with the POINT UP/DOWN button, and then press the SELECT button to activate the item.



Close the Computer System Selection menu.

Compatible Computer System

Basically this projector can accept the signal from all computers with the V, H-Frequency below mentioned and less than 100 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 4	1024 x 768	56.476	70.07
VGA 2	720 x 400	31.47	70.09	XGA 5	1024 x 768	60.31	74.92
VGA 3	640 x 400	31.47	70.09	XGA 6	1024 x 768	48.50	60.02
VGA 4	640 x 480	37.86	74.38	XGA 7	1024 x 768	44.00	54.58
VGA 5	640 x 480	37.86	72.81	XGA 8	1024 x 768	63.48	79.35
VGA 6	640 x 480	37.50	75.00	XGA 9	1024 x 768	36.00	87.17 (Interlace)
VGA 7	640 x 480	43.269	85.00	XGA 10	1024 x 768	62.04	77.07
MAC LC13	640 x 480	34.97	66.60	XGA 11	1024 x 768	61.00	75.70
MAC 13	640 x 480	35.00	66.67	XGA 12	1024 x 768	35.522	86.96 (Interlace)
RGB		15.625	50.00 (Interlace)	XGA 13	1024 x 768	46.90	58.20
RGB		15.734	60.00 (Interlace)	XGA 14	1024 x 768	47.00	58.30
SVGA 1	800 x 600	35.156	56.25	XGA 15	1024 x 768	58.03	72.00
SVGA 2	800 x 600	37.88	60.32	MAC 19	1024 x 768	60.24	75.08
SVGA 3	800 x 600	46.875	75.00	MAC 21	1152 x 870	68.68	75.06
SVGA 4	800 x 600	53.674	85.06	SXGA 1	1152 x 864	64.20	70.40
SVGA 5	800 x 600	48.08	72.19	SXGA 11	1152 x 900	61.20	65.20
SVGA 6	800 x 600	37.90	61.03	SXGA 13	1280 x 1024	50.00	86.00 (Interlace)
SVGA 7	800 x 600	34.50	55.38	SXGA 14	1280 x 1024	50.00	94.00 (Interlace)
SVGA 8	800 x 600	38.00	60.51	SXGA 17	1152 x 900	61.85	66.00
SVGA 9	800 x 600	38.60	60.31	SXGA 18	1280 x 1024	46.43	86.70 (Interlace)
SVGA 10	800 x 600	32.70	51.09	575p		31.25	50.00 (Progressive)
SVGA 11	800 x 600	38.00	60.51	720p		45.00	60.00 (Progressive)
MAC 16	832 x 624	49.72	74.55	1035i		33.75	60.00 (Interlace)
XGA 1	1024 x 768	48.36	60.00	1080i60		33.75	60.00 (Interlace)
XGA 2	1024 x 768	68.677	84.997	1080i50		28.125	50.00 (Interlace)
XGA 3	1024 x 768	60.023	75.03				

NOTE

Specifications are subject to change without notice.

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 964 x 544 is modified to fit the screen size in initial mode.

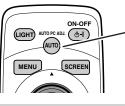
Computer Adjustment (Auto) (Direct Operation)

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

Press the AUTO PC ADJ. button on the remote control, and the function works.

To store the adjustment data, follow the step 3 and 4 on page 35, 36.

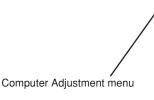
REMOTE CONTROL



AUTO PC ADJ. button

Computer Adjustment (Auto) (Menu Operation)

Press the MENU button, and the main menu appears. Select the Computer Adjustment menu with the POINT UP/DOWN button, and then press the POINT RIGHT button to enter the sub-menu.



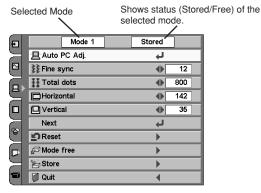
Computer Adjustment menu

Ð	土 Auto PC Adj.	Ļ	
	≩∦ Fine sync	•	12
	≣∎ Total dots	•	800
,⊟ ⊒►	Horizontal	•	142
	🖾 Vertical	•	35
	Next	Ļ	
	≌ Reset		
Ŷ	P Mode free		
	Ъ Store		
=			
	问 Quit	•	

Choose the Auto PC Adj., and then press the SELECT button to activate it.

Auto PC Adj.

adjusts Fine sync, Total dots, Horizontal, and Vertical to conform to your computer.



3 To store the adjustment parameters by Auto PC Adjustment, follow the step 3 and 4 on page 35, 36. Once the parameters are memorized, the setting can be done just by selecting Mode in the Computer System Selection menu.

NOTE

The Fine sync, Total dots, Horizontal, and Vertical of some computers cannot 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 35-37.)

The Auto PC Adjustment function cannot be operated when "720p (HDTV)," "1035i (HDTV)", or "1080i (HDTV)" is selected in the Computer System menu (p32).

The Computer Adjustment menu cannot be operated when "RGB" is selected in the Computer System menu or "RGB (Scart)" is selected in the Source Selection menu.

Computer Adjustment (Manual)

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, the 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 computer 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.

Press the MENU button, and the main menu appears. Select **Computer Adjustment menu** the Computer Adjustment menu with the POINT UP/DOWN 금 Auto PC Adj. Ð 4 button, and then press the POINT RIGHT button to enter the ≩§ Fine sync 12 sub-menu. 📲 Total dots 800 Horizontal 142 • (д) 35 🔲 Vertical Next J, Reset ▶ (@ Dig Mode free • ⊫ Store Þ Computer Adjustment menu 闻 Quit ◀ Choose the item that you want to adjust, and then press the POINT LEFT/RIGHT button to adjust the value. The Fine sync and Total dots are displayed in a line. Press the SELECT button after adjusting them. The on-screen menu returns to the sub-

Selected	d Mode	Shows sta (Stored/Fin selected r	ree) of the	LEF	s POINT T/RIGHT button djust the value.
Ð	Mo	de 1	Stored		
	Auto PC Ad	dj.	L.		
🖸 📑 F	ine sync		•	12	
	Fotal dots			800	
	lorizontal			142	
	/ertical		•	35	Press the
	Vext		- ل		SELECT button
<u>ک</u>	Reset		•		at this icon to
	Node free		•		display other items.
	Store		•		itomo.
	Quit		•		

12

3 To store the adjustment parameters, select the Store with the POINT UP/DOWN button and press the POINT RIGHT button.

🔄 Reset

menu.

To reset to previous level, select the Reset with the POINT UP/DOWN button and press the POINT RIGHT button. Select "Yes" with the SELECT button.

Ð		Mode 1	Stored	
H	🚊 Auto	PC Adj.	Ļ	
	Fine s	ync	•	12
	🚦 Total	dots		800
	Horizo	ontal		142
	🗋 Vertic	al		35
	Next		Ļ	
8	Reset		•	
	🖉 Mode	free	•	
H	墙 Store		•	
	🔰 Quit		•	

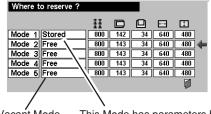
Press the SELECT button at this icon to close the item.

📃 🚽 引 Fine sync

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Choose one of the positions from the Mode 1 to 5 where you want to store with the POINT UP/DOWN button, and press the SELECT button. Select "Yes" with the SELECT button and close the menu by pressing the SELECT button at the Quit.

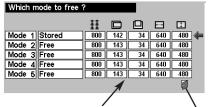
To store adjustment data.



Vacant Mode This Mode has parameters being stored.

5 To clear the adjustment parameters previously set, select the Mode free with the POINT UP/DOWN button and press the POINT RIGHT button. Choose the mode that you want to clear with the POINT UP/DOWN button, and then press the SELECT button. Select "Yes" with the SELECT button and close the menu by pressing the SELECT button at the Quit.

To clear adjustment data.



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

The items that you can adjust are the following:

Fine sync

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

Total dots

The number of total dots in one horizontal period. Press the POINT LEFT/RIGHT button and adjust number to match your computer image.

Horizontal

Adjust horizontal picture position. Press the POINT LEFT/RIGHT button to adjust the position.

Vertical

Adjust vertical picture position. Press the POINT LEFT/RIGHT button to adjust the position.

Current mode

Press the POINT RIGHT button to show the information of the computer connected.

H-Sync freq.	31.5
V-Sync freq.	60.0

Current mode

Press the POINT RIGHT button at the Current mode icon to show the information of the computer connected.

Clamp

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

🔁 Display area

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

NOTE : The Display area, Display area (H/V) and Full screen cannot be adjusted when "1035i (HDTV)" or "1080i (HDTV)" is selected in the Computer System Selection menu (p32).

😝 Display area H

Adjustment of horizontal area displayed with this projector. Press the POINT LEFT/RIGHT button to decrease/increase value to match the resolution of image.

Display area V

Adjustment of vertical area displayed with this projector. Press the POINT LEFT/RIGHT button to decrease/increase value to match the resolution of image.

Full screen

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

NOTE : The Full screen cannot be selected after the Display area, Display area H, and Display area V are adjusted.

🖍 Reset

Reset all adjustment before the data is stored. (The Reset does not work for the stored data.)



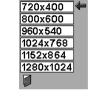
To clear the adjustment parameters previously set, select the Mode free and press the POINT RIGHT button. Choose the mode that you want to clear, and then press the SELECT button.

🔄 Store

To store the adjustment parameters, select the Store and press the POINT RIGHT button. Choose one of the Mode 1 to 5, and press the SELECT button.



Close the Computer Adjustment menu.



Display area

640x480

Press the POINT RIGHT button at the Display area and the Display area dialog box appears.

Image Level Selection (Direct Operation)

Select the image level among Standard, Real, Image 1, Image 2, Image 3, and Image 4 by pressing the IMAGE button on the remote control. (See the next section "Image Level Selection (Menu Operation)" about each item.)

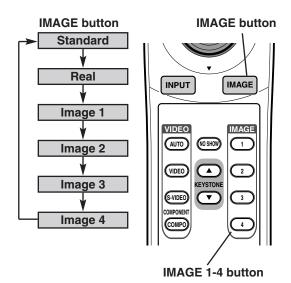


Image Level Selection (Menu Operation)

Image Level Selection menu

Press the MENU button, and the main menu appears. Select the Image Level Selection menu with the POINT UP/DOWN button, and then press the POINT RIGHT button to enter the sub-menu.

Image Level Selection menu

	-		
Ð	+0+1	√Standard	t
	旦	Real	L.
	D 1	lmage1	Ļ
	D 2	Image2	Ļ
\sim	□3	lmage3	Ļ
	□4	Image4	Ļ
Ŷ			
	Ø	Quit	•

2 Choose the level that you want to set with the POINT UP/DOWN button, and then press the SELECT button to activate it.

♦०♦ Standard

Normal picture adjustment preset on this projector.

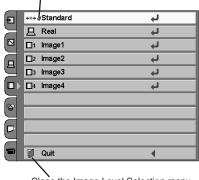


Picture adjustment improved in reproduction of halftones. This adjustment is suitable for providing better image in brighter place.

1 IMAGE 1~4

User preset picture adjustment in the Image Level Adjustment menu (p39, 40).

The level being selected



Close the Image Level Selection menu.

Image Level Adjustment

Image Level Adjustment

menu

Press the MENU button, and the main menu appears. Select the Image Level Adjustment menu with the POINT UP/DOWN button, and then press the POINT RIGHT button to enter the sub-menu.

Image Level Adjustment menu

Ð	● Contrast	♦ 32
	🔅 Brightness	♦ 32
	Color temp.	Mid
ā	🗞 Red	♦ 32
	6 Green	♦ 32
	🝟 Blue	♦ 32
	Next	Ļ
e	≌ Reset	•
	⊁_ Store	•
	🖉 Quit	•
	Next ⊉Reset ≱Store	

2 Choose the item that you want to adjust with the POINT UP/DOWN button, and then press the POINT LEFT/RIGHT button to adjust each item. The items displayed in a line can be adjusted while you see the change of the image. Press the SELECT button to finish adjusting an item. The on-screen menu returns to the sub-menu.

Ð	Standard		
H	Contrast	32	
	🔆 Brightness	32	
ā	Color temp.	Mid Mid	
<u>–</u>	🖗 Red	32	
	🚱 Green	32	P
Z	🝟 Blue	32	S a
⊗	Next	4	d
	≌ Reset	•	it
	°≟∋ Store	•	
	💋 Quit	•	

Press the SELECT button at this icon to display other items.

40	Contrast	•	32
	Press the icon to c	e SELECT lose the ite	button at this

3 To store the adjustment data, select the Store with the POINT UP/DOWN button and press the POINT RIGHT button.

🗐 Reset

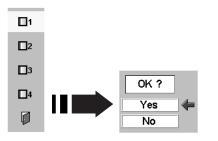
To reset to previous level, select the Reset with the POINT UP/DOWN button and press the POINT RIGHT button. Select "Yes" with the SELECT button.

Select the Store.

Ð	Standard	
H	Contrast	♦ 32
	🔆 Brightness	♦ 32
	Color temp.	Mid
9	🗞 Red	32
	🚱 Green	♦ 32
Z	🍟 Blue	♦ 32
<u>କ୍ର</u>	Next	L)
	≦ Ω Reset	•
\geq	'⊱ Store	•
	🖉 Quit	•

4

Choose one of the positions from the Image Level 1 to 4 where you want to store with the POINT UP/DOWN button, and press the SELECT button. Select "Yes" with the SELECT button and close the menu by pressing the SELECT button at the Quit.



NOTE

All the items on the next page can be memorized in Image 1-4.

The items that you can adjust are the following:



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



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

Color temp.

Press the POINT LEFT button or the POINT RIGHT button for Color temp. level that you want to select. (XLow, Low, Mid, or High)



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

White balance (Green)

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

White balance (Blue)

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

Sharpness

Press the POINT LEFT button to soften the image and the POINT RIGHT button to sharpen the image. (From 0 to 15.)



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

Auto grayscale

When this function is "ON", it automatically enhances contrast of bright and dark part of image.

Auto fleshtone

When this function is "ON", it produces more vivid image according to image condition.



Reset all adjustment before the data is stored. (The Reset does not work for the stored data.)



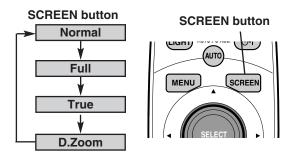
Store the adjustment data.



Close the Image Level Adjustment menu.

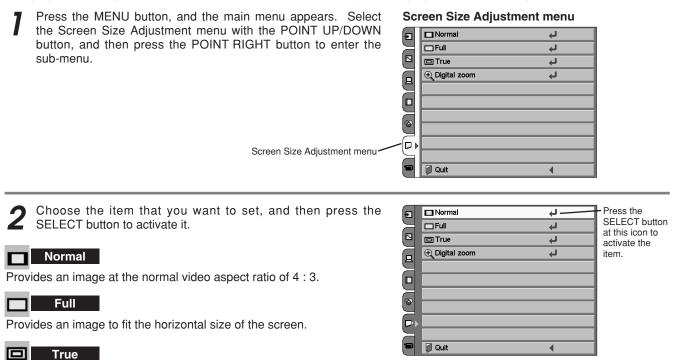
Screen Size Adjustment (Direct Operation)

Select the screen size among Normal, Full, True, and D.Zoom by pressing the SCREEN button on the remote control. (See the next section "Screen Size Adjustment (Menu Operation)" about each item.)



Screen Size Adjustment (Menu Operation)

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



Provides image in its original size. When the original image size is larger than screen size (964 X 544), this projector enters "Digital zoom" automatically.

Digital zoom

When Digital zoom is selected, the on-screen menu disappears and the message "D.Zoom" is displayed. Press the SELECT button to expand the image. And press the POINT UP/DOWN/LEFT/RIGHT button(s) to pan the image. Panning function can work only when the original image is larger than screen size (964 X 544).

NOTE

The Screen Size Adjustment menu cannot be operated when "1035i (HDTV)", "1080i (HDTV)", or "720p(HDTV)" is selected in the Computer System menu (p32).

The True and Digital zoom cannot be selected when "RGB" is selected in the Computer System menu (p32).

Panning function may not operate properly if the computer system (Mode 1-5) stored in the Computer Adjustment menu is used.

SETTING

Setting

Setting menu ____

Press the MENU button, and the main menu appears. Select the Setting menu with the POINT UP/DOWN button, and then press the POINT RIGHT button to enter the sub-menu.

Setting menu

Ð	🚯 Language	▶ English
	∖ keystone	L)
	🗔 Blue back	On
	😇 Display	On
	🖨 Menu position	
\geq	Logo	On
(ଦ୍ ୱ	🗋 📹 Ceiling	Off
X	🚱 🕽 🖣 Rear	Off
	🔓 Power management	On
7	Next	L)
	🖉 Quit	4
_		

2 Choose the item that you want to set with the POINT UP/DOWN button, and then press the POINT LEFT/RIGHT button for each setting.

Ð	🚯 Language	English
9	∖ keystone	L)
	🗔 Blue back	On
	📖 Display	On
	🚖 Menu position	•
X	🖞 Logo	On
8	🗋 📹 Ceiling	Off
X	🕑 🕽 🛛 Rear	Off
	💡 Power management	On
۲	Next	L)
	👰 Quit	•
-		

When pressing the

menu appears.

SELECT button at the

Language, the Language

Close the Setting menu.

The items that you can adjust are the following:

Language

Language is available in English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Russian, Chinese, Korean, and Japanese.



When the image is distorted vertically, select the Keystone. The onscreen menu disappears and the Keystone dialog box is displayed. Correct keystone distortion by pressing the POINT UP/DOWN button. Refer to Keystone Adjustment on page 21.

Blue back

When this function is "On," the projector produces a blue image while input signal is not detected.

Display

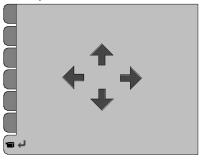
This function decides whether to display On-Screen Displays.

- On ... shows all the On-Screen Displays.
- Off sets On-Screen Displays disappeared except;
 - ON-SCREEN MENÚ
 - "Power off?" message
 - "No signal" message
 - "Wait a moment!" message

Menu position

This function is used to change the position of the on-screen menu.

Menu position



Move the position of the on-screen menu with the POINT buttons.

English Deutsch Français Italiano Español Português Nederlands Svenska Русский 中文 한글 日本語

³⁰ Logo

When this function is "On," the 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.

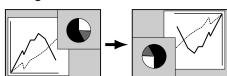


닡

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

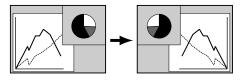


This function turns the Projection lamp off when this projector detects signal interruption and is not used for a certain period in order to reduce power consumption and maintain the lamp lifetime. (This projector is shipped with this function ON.) This function operates as follows;



Rear function

Ceiling function





- 1. When any input signal is interrupted or no button is pressed for about 30 seconds, "No signal" and the counting down display appears (for 5 minutes).
- 2. After counting down for 5 minutes, the Projection lamp and the READY indicator are turned off. (Cooling Fans keep running.)
- 3. The READY indicator starts to flash after cooling down the Projection lamp for about 90 seconds (Power management mode). In this Power management mode, the Projection lamp is automatically turned on when the input signal is connected or the projector is operated with any button on the top control or on the remote control again.

Power off confirmation

The confirmation dialog box to turn off the projector is displayed with this function ON.

🔄 Lamp mode

When selecting the " \bigcirc ", the projector operates with full brightness. When selecting the " \bigcirc ", the projector turns to the Theater black mode that lowers the screen brightness, saves electricity, and extend the lamp life. The projector also operates silently.

Remote control

This projector has two different remote control codes: Code 1 and Code 2 (initial code) This switching function prevents remote control interference when operating several projectors or video equipment together.

When operating the projector in "Code 1," both the projector and remote control must be switched to "Code 1."

To change the code of the Projector;

Set the remote control in the Setting menu to "Code 1."

To change the code of the Remote Control;

Press both the MENU and the IMAGE buttons on the remote control together for over 10 seconds.

After changing the code, make sure the remote control operates properly.

To return to the initial code (Code 2), repeat the steps above.

NOTE : When the batteries of the remote control are replaced, the remote control code automatically returns to the initial code (Code 2).

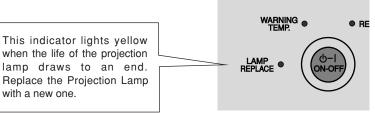
Lamp counter reset

This function is used to reset the Lamp Replace Counter. When replacing the Projection lamp, reset the Lamp Replace Counter by using this function. Refer to page 45 for operation.

Lamp Replacement

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

TOP CONTROL



CAUTION

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.

Follow these steps to replace the lamp assembly.

Turn off the projector and disconnect AC plug. Allow the projector to be cooled for at least 45 minutes.

- **2** To remove the Lamp cover, remove the screw with a screwdriver.
- **3** Remove 2 screws with a screwdriver and pull out the Lamp assembly by grasping the handle.
- Replace the Lamp assembly with a new one and tighten the 2 screws back into position. Make sure that the Lamp assembly is set properly. Replace the Lamp cover and tighten the screw.
- **5** Connect the AC Power Cord to the projector and turn on the projector.

Reset the Lamp Replace Counter.

Refer to "Lamp Replace Counter" on the next page .

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

ORDER REPLACEMENT LAMP

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

2

÷

Model No. of your projector

PLV-Z1 / PLV-Z1BL

Replacement Lamp Type No.

POA-LMP54 (Service Parts No. 610.30)

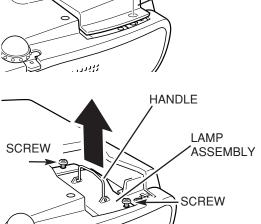
(Service Parts No. 610 302 5933)

cause INJURY.

FOR CONTINUED SAFETY, REPLACE WITH A LAMP

DO NOT DROP A LAMP ASSEMBLY OR TOUCH A

GLASS BULB! THE GLASS CAN SHATTER AND MAY



Lamp Replace Counter

Be sure to reset the Lamp Replace Counter after the Lamp assembly is replaced. After the Lamp Replace Counter is reset, the LAMP REPLACE indicator stops lighting.

Turn on the projector and press the MENU button. The main menu appears. Select the Setting menu with the POINT UP/DOWN button, and then press the POINT RIGHT button to enter the sub-menu.

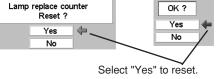


Choose the Lamp counter reset with the POINT UP/DOWN button, and then press the SELECT button.

3 The message "Lamp replace counter reset?" is displayed. Select "Yes" with the SELECT button, and the other confirmation display appears. Select "Yes" with the SELECT button to reset.

The LAMP REPLACE indicator stops lighting after the Lamp Replace Counter is reset.

Return	L.	
Reference of the confirmation	•	On
င္ပ္ကာLamp mode		Ŷ
Remote control		Code 2
୍କି Lamp counter reset	Ļ	
🖉 Quit	•	



NOTE : Do not reset the Lamp Replace Counter before the Projection lamp is replaced.

LAMP HANDLING PRECAUTIONS

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

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

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

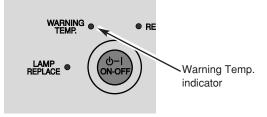
If a lamp explodes, disconnect the projector's AC plug from the AC outlet immediately. Contact an authorized service station for a checkup of the unit and replacement of the lamp. Additionally, check carefully to ensure that there are no broken shards or pieces of glass around the projector or coming out from the cooling air circulation holes. Any broken shards found should be cleaned up carefully. No one should check the inside of the projector except those who are authorized trained technicians and who are familiar with projector service. Inappropriate attempts to service the unit by anyone, especially those who are not appropriately trained to do so, may result in an accident or injury caused by pieces of broken glass.

Warning Temp. Indicator

The WARNING TEMP. indicator flashes red when an internal temperature of the projector exceeds the normal temperature. The indicator stops flashing when the temperature of the projector returns to normal. When the 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 the Ventilation slots cannot be obstructed.
- 2 The Air filter may be clogged with dust particles. Clean the Air filter by following the section "Air Filter Care and Cleaning" below.
- 3 If the WARNING TEMP. indicator remains on after performing the above checks, the Cooling fans or the internal circuits may be malfunctioning. Contact service personnel from an authorized dealer or a service station.

TOP CONTROL



Air Filter Care and Cleaning

The removable Air filter prevents dust from accumulating on the surface of the projection lens and projection mirror. Should the Air filter become clogged with dust particles, it will reduce the cooling fans' effectiveness and may result in internal heat build up and adversely affect the life of the projector. Clean the Air filter by following the steps below.

Turn off the projector, and disconnect AC Power Cord from the AC outlet.

2 Turn over the projector and remove the Air filter by pulling the latch upward.

Clean the Air filter with a brush or wash out dust and particles.

Replace the Air filter properly. Make sure that it is fully inserted.

Clean the Air intake vents with a vacuum cleaner at the same time.



CAUTION

Do not operate the projector with the Air filter removed. Dust may accumulate on the LCD panels and the projection mirror degrading picture quality. Do not put small parts into the Air intake vents. It may result

in malfunction of the projector.

Operating Environment

We recommend avoiding dusty/smoky environments when operating a projector.

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 a projected image and the life of the projector. When the above symptoms are noticed, contact your authorized dealer or service station for proper cleaning.

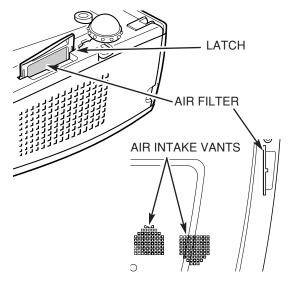
Cleaning the Projection Lens

Follow these steps to clean the projection lens.

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.

Lightly wipe the Projection lens with a cleaning cloth.

When the projector is not in use, close the front cover.



Troubleshooting

Before calling your dealer or service center for assistance, check the following:

- Make sure you have connected the projector to video equipment or your computer as described on page 17 and 18.
- Check cable connection. Verify that all video, computer, and power cord are properly connected.
- Verify that all power is switched on.
- When you are operating the projector with a computer and it does not produce an image, restart the computer.
- Select the other input source.

Problem:	Try these Solutions		
No power.	 Plug the projector into your AC outlet. Make sure the MAIN ON/OFF switch is ON and that the READY indicator lights green. Open the front cover. Wait 90 seconds after the projector is turned OFF when turning the projector back on. 		
	NOTE : After pressing the POWER ON-OFF button to OFF, make sure the projector works as follows:		
	 The LAMP indicator lights bright and the READY indicator turns off. After 90 seconds, the READY indicator lights green again and the projector can be turned on by pressing the POWER ON-OFF button. 		
	 Check the WARNING TEMP. indicator. If the indicator flashes red, the projector cannot be turned on. (See the NOTE on page 19.) Check the projection lamp. (Refer to page 44.) 		
Image is out of focus.	 Adjust focus of the projector. Make sure the projection screen is at least 3.6' (1.1m) from the projector. Check the 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 the Projection Lens. In such an event, leave the projector OFF and wait until condensation disappears.		
Picture is Left/Right reversed.	 Check Ceiling / Rear function. (See the Setting section on page 43.) 		
Picture is Top/Bottom reversed.	Check Ceiling function. (See the Setting section on page 43.)		
Some displays are not seen during the Operation.	Check Display function.(See the Setting section on page 42.)		
No image.	 Check the connection between video equipment / your computer and the projector. Check the input source is selected properly. Check NO SHOW function. (Refer to page 21.) When turning the projector on, it takes about 30 seconds to display an image. Check the system that you select is corresponding with video equipment or your computer. Make sure the temperature is not out of the Operating Temperature (5°C ~ 35°C). 		
Remote Control does not work.	 Check the batteries. Make sure there is nothing between the Infrared Remote Receiver and remote control. Make sure you are not too far from the projector when using the remote control. Maximum operating range is 16.4' (5m). Make sure the code of the remote control is set to conform to the projector. (See the Setting section on page 43.) 		

Indicators and Projector Condition

Check the Indicators for projector condition.

Indic	cator	Projector Condition	
LAMP	Red Light	The projector is OFF.	
		The projector is ON.	
	Dim Light		
	Off	The MAIN ON/OFF switch is off or AC Power Cord is disconnected.	
READY	Green Light	The projector is READY to be turned on.	
	Green Flashing	The projector is in the Power management mode.	
	Off	The projector is OFF. (The MAIN ON/OFF switch is off, AC Power Cord is disconnected, or the front cover is closed.)	
WARNING TEMP. (page 46)	Red Flashing	The temperature inside the projector is abnormally high. Flashing stops when the temperature returns to normal. The projector cannot be turned on until the indicator goes off.	
	Off	The projector is operating normally.	
LAMP REPLACE (page 44)	Yellow Light	The projection lamp needs to be replaced.	
	Off	The projector is operating normally.	

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.

Technical Specifications

Projector Type	Multi-media Projector		
Dimensions (W x H x D)	13.11" x 4.27" x 9.70" (333mm x 108.5mm x 246.5mm) (not including Adjustable Feet)		
Net Weight	7.5lbs (3.4 kg)		
LCD Panel System	0.7" Wide TFT Active Matrix type, 3 panels		
Panel Resolution	964 x 544 dots		
Number of Pixels	1,573,248 (964 x 544 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 ~ 80 KHz, V-sync. 50 ~ 100 Hz		
Projection Image size (Diagonal)	Adjustable from 30" to 200"		
Projection Lens	F 2.03 ~ 2.34 lens with f 21.2 mm ~ 25.4 mm with manual zoom and focus		
Throw Distance	3.6' ~ 19.7' (1.1 m ~ 6.0 m)		
Projection Lamp	130 W		
Video Input Jacks	RCA Type x 4 (Video, Y, Pb/Cb, Pr/Cr) and Mini DIN 4 pin x 1 (S-Video)		
Computer Input Terminal	(VGA) HDB 15 Terminal x 1		
Feet Adjustment	0° to 11.8°		
Voltage and Power Consumption	AC 100 ~ 120 V (2.4 A Max. Ampere), 50 / 60 Hz (The U.S.A and Canada) AC 200 ~ 240 V (1.2 A Max. Ampere), 50 / 60 Hz (Continental Europe and The U.K.)		
Operating Temperature	41 °F ~ 95 °F (5 °C ~ 35 °C)		
Storage Temperature	14 °F ~ 140 °F (-10 °C ~ 60 °C)		
Remote Control	Power Source : AA, UM3 or R06 Type x 2 Operating Range : 16.4' (5m) / ±30° Dimensions : 1.85" x 1.18" x 6.26" (47mm x 30mm x 159mm) Net Weight : 4.4oz (125g) (including batteries)		
Accessories	Owner's Manual AC Power Cord Remote Control and Batteries Video Cable		

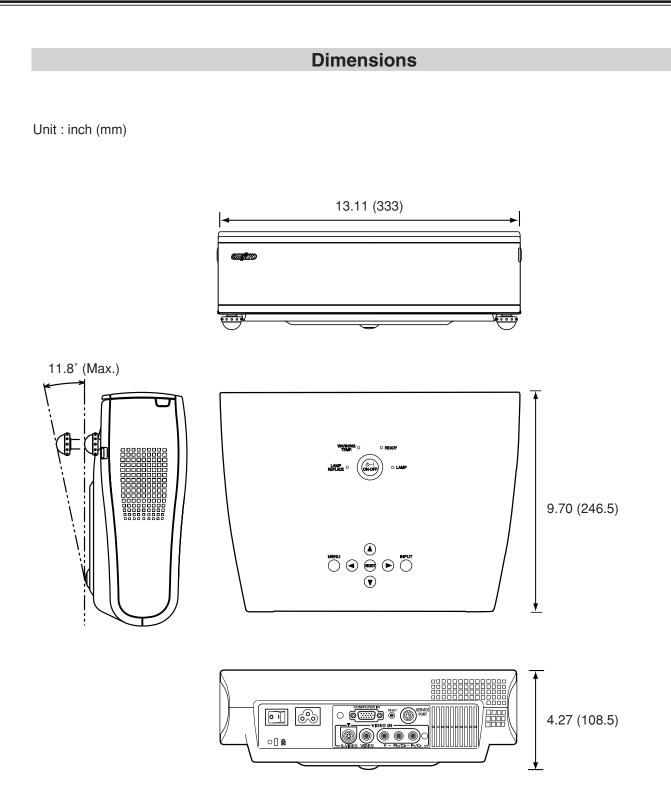
• The specifications are subject to change without notice.

• LCD panels are manufactured to the highest possible standards. Even though 99.99% of the pixels are effective, a tiny fraction of the pixels (0.01% or less) may be ineffective by the characteristics of the LCD panels.

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



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.

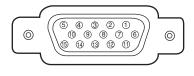


Configuration of Terminals

COMPUTER INPUT TERMINAL (ANALOG)

Terminal : HDB15-PIN

Pin Configuration



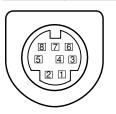
1	Red Input	9	No Connect
2	Green Input	10	Ground (Vert.sync.)
3	Blue Input	11	Sense 0
4	Sense 2	12	Sense 1
5	Ground (Horiz.sync.)	13	Horiz. sync.
6	Ground (Red)	14	Vert. sync.
7	Ground (Green)	15	Reserved
8	Ground (Blue)		

SERVICE PORT CONNECTOR

Terminal : Mini DIN 8-PIN

*This port is only used for service.

Pin Configuration



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

Optional Parts

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

- MAC Adapter
 Type No. : POA-MACAP
- SCART-VGA Cable
 Type No. : POA-CA-SCART
- (This cable is used for RGB Scart 21-pin output of video equipment.)



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