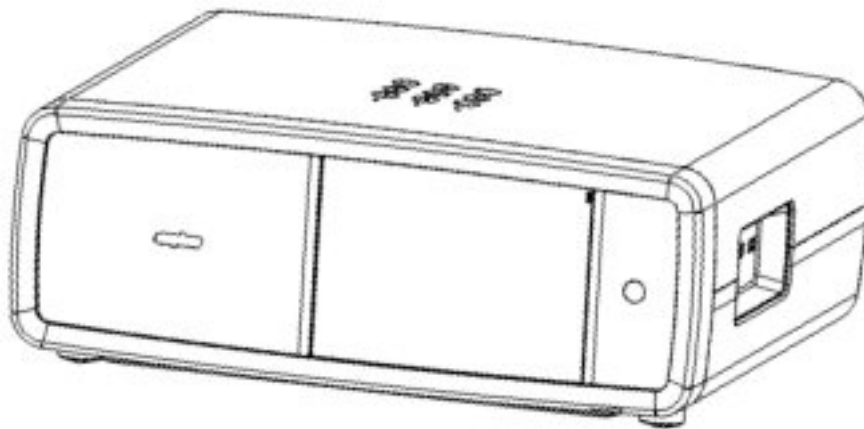




Multimedia Projector

MODEL PLV-Z3000



Owner'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 maintain it in good condition for many years to come.

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

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

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE EXCEPT LAMP REPLACEMENT. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		
	THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT.	
	THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE OWNER'S MANUAL WITH THIS UNIT.	

NOTE: This symbol and recycle system are applied to EU countries only and not to the countries in the other area of the world.



Your SANYO product is designed and manufactured with high quality materials and components which can be recycled and reused.

This symbol means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from your household waste.

Please dispose of this equipment at your local community waste collection/recycling centre. In the European Union there are separate collection systems for used electrical and electronic products.

Please help us to conserve the environment we live in!

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

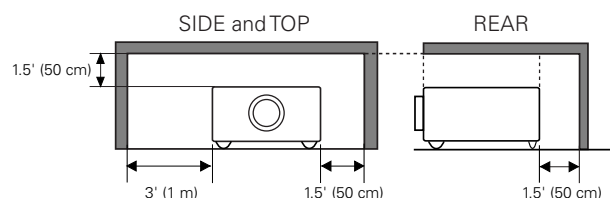


Safety Precaution

WARNING: THIS APPARATUS MUST BE EARTHED.

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

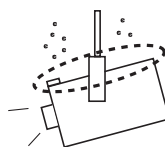
- This projector produces intense light from the projection lens. Avoid staring directly into the lens as much as possible, otherwise eye damage could result. Be especially careful that children do not stare directly into the beam.
- Install the projector in a proper position. Otherwise it may result in fire hazard.
- Allowing the proper amount of space on the top, sides, and rear of the projector cabinet is critical for proper air circulation and cooling of the unit. The dimensions shown here indicate the minimum space required. If the projector is to be built into a compartment or similarly enclosed, these minimum distances must be maintained.
- Do not cover the ventilation slot on the projector. Heat build-up can reduce the service life of your projector, and can also be dangerous.



- If the projector is unused for an extended time, unplug the projector from the power outlet.



CAUTION ON HANGING FROM THE CEILING



When hanging the projector from the ceiling, clean the air intake vents, air filters, and the top of the projector periodically with a vacuum cleaner. If you leave the projector unclean for a long time, the cooling fans can be clogged with dust, and it may cause a breakdown or a disaster.

DO NOT SET THE PROJECTOR IN GREASY, WET, OR SMOKY CONDITIONS SUCH AS IN A KITCHEN TO PREVENT A BREAKDOWN OR DISASTER. IF THE PROJECTOR COMES IN CONTACT WITH OIL OR CHEMICALS, IT MAY BECOME DETERIORATED.

CAUTION

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

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

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

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

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

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

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



Slots and openings in the back and bottom of the cabinet are provided for ventilation, to ensure reliable operation of the equipment and to protect it from overheating.

The openings should never be covered with cloth or other materials, and the bottom opening should not be blocked by placing the projector on a bed, sofa, rug, or other similar surface. This projector should never be placed near or over a radiator or heat register.

This projector should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.

Never push objects of any kind into this projector through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the projector.

Do not install the projector near the ventilation duct of air-conditioning equipment.

This projector should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied, consult your authorized dealer or local power company.

Do not overload wall outlets and extension cords as this can result in fire or electric shock. Do not allow anything to rest on the power cord. Do not locate this projector where the cord may be damaged by persons walking on it.

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

Unplug this projector from wall outlet and refer servicing to qualified service personnel under the following conditions:

- a. When the power cord or plug is damaged or frayed.
- b. If liquid has been spilled into the projector.
- c. If the projector has been exposed to rain or water.
- d. If the projector does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the projector to normal operation.
- e. If the projector has been dropped or the cabinet has been damaged.
- f. When the projector exhibits a distinct change in performance, this indicates a need for service.

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or injury to persons.

Upon completion of any service or repairs to this projector, ask the service technician to perform routine safety checks to determine that the projector is in safe operating condition.

Federal Communications Commission Notice

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. If it is not installed and used in accordance with the instructions, it 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(s) : **PLV-Z3000**
Trade Name : Sanyo
Responsible party : SANYO FISHER COMPANY
Address : 21605 Plummer Street, Chatsworth, California 91311
Telephone No. : (818)998-7322

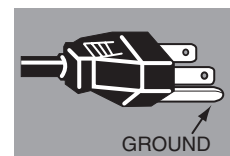
AC Power Cord Requirement

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.

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  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.

Safety Instructions

Air Circulation

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

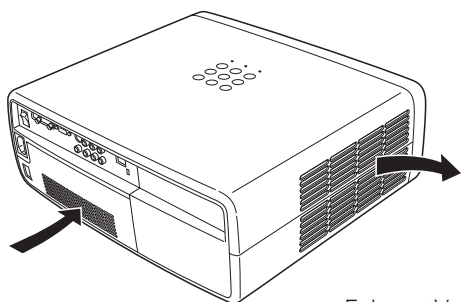


CAUTION

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

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

Cooling fans are provided to cool down the projector. The fan's running speed is changed according to the temperature inside the projector.



Air Intake Vent

Exhaust Vent
(Hot air exhaust)

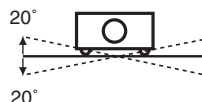


CAUTION ON CEILING MOUNTING

For ceiling mounting, you need the ceiling mount kit designed for this projector. When not mounted properly, the projector may fall, causing hazards or injury. For details, consult your dealer. The warranty on this projector does not cover any damage caused by use of any non-recommended ceiling mount kit or installation of the ceiling mount kit in an improper location.

Installing the Projector in Proper Position

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



Do not tilt the projector more than 20 degrees from side to side.



NO UPWARD

Do not point the projector up to project an image.



NO DOWNWARD

Do not point the projector down to project an image.



NO SIDEWARD

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

Moving the Projector

When moving the projector, make sure that the automatic slide shutter is closed, retract the adjustable feet, and lock the lens with the Lens Shift Lock to prevent damage to the lens and cabinet.

When the projector is unused for an extended period, put it into a suitable case.

Care must be taken when handling the projector; do not drop, bump, subject it to strong forces, or put other things on the cabinet.



CAUTION IN CARRYING OR TRANSPORTING THE PROJECTOR

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

Connecting the AC Power Cord

This projector uses nominal input voltages of 100 – 120 V or 200 – 240 V AC and it automatically selects a correct input voltage. It is designed to work with the single-phase power systems having a grounded neutral conductor. To reduce the risk of electrical shock, do not plug into any other type of power system. If you are not sure of the type of power being supplied, consult your authorized dealer or service station. Connect the projector with all peripheral equipment before turning it on.

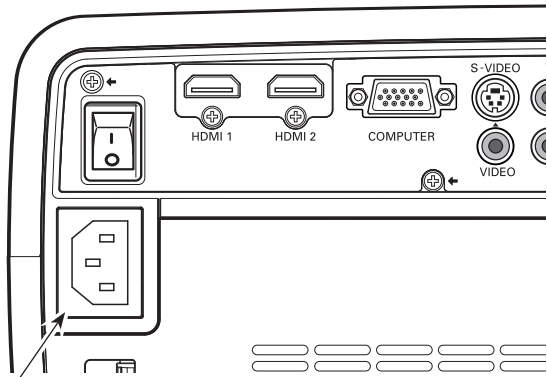


CAUTION

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



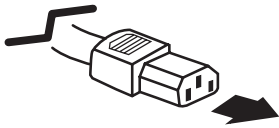
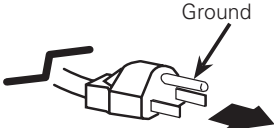
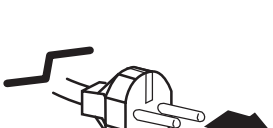
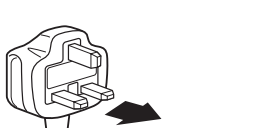
Note:
For safety, unplug the AC power cord when the projector is not in use.
When the projector is connected to an outlet with the AC power cord and the Main On/Off switch is on, it is in stand-by mode and consumes a little electric power. Turn the Main On/Off switch off when the projector is not in use.



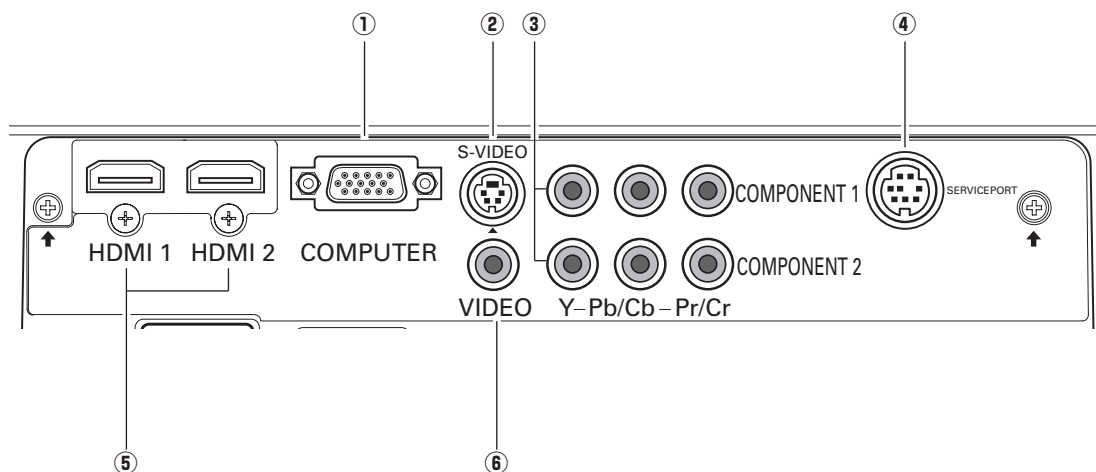
Connect the AC power cord (supplied) to the projector.

NOTE ON THE POWER CORD

AC power cord must meet the requirements of the country where you use the projector. Confirm the AC plug type with the chart below and proper AC power cord must be used. If the 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.	 To the AC Outlet. (120 V AC)	 To the AC Outlet. (200–240 V AC)	 To the AC Outlet. (200–240 V AC)

Rear Terminal



① COMPUTER

Connect the computer output signal, or RGB Scart 21-pin video output to this connector (p.17).

② S-VIDEO

Connect the S-Video output signal from video equipment to this jack (p.16).

③ COMPONENT 1 or COMPONENT 2

Connect the component video output signal to these jacks (p.16).

④ SERVICE PORT

This jack is used to service the projector.

⑤ HDMI 1/HDMI 2*

Connect the HDMI output signal from video equipment to these terminals (p.16).

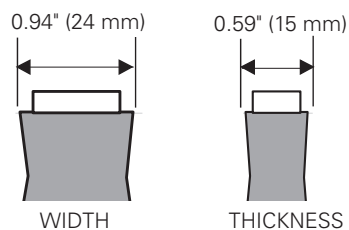
⑥ VIDEO

Connect the composite video output signal from video equipment to this jack (p.16).

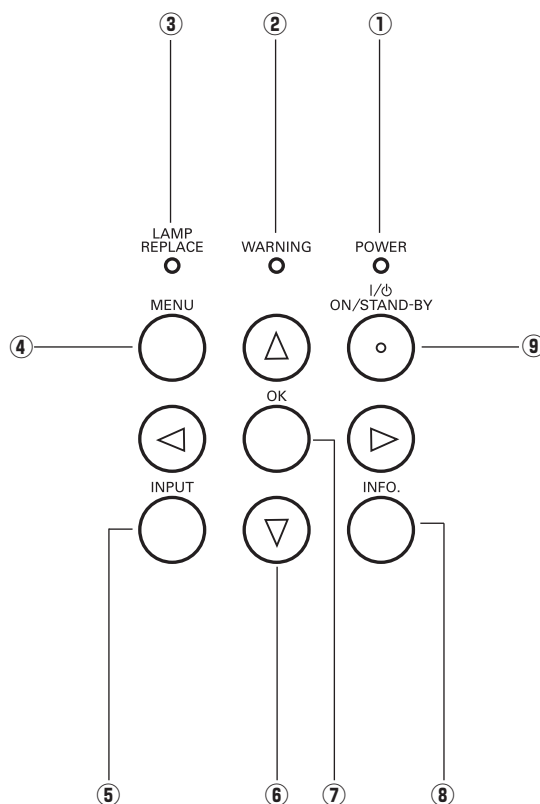
*Note on the HDMI connector:

Use the HDMI connector less than the size shown below. Otherwise you cannot connect use HDMI 1 and HDMI 2 terminals at the same time.

Maximum dimensions of the HDMI connectors



Top Control



① POWER indicator

- Lights red while the projector is in stand-by mode.
- Lights green during operations.
- Blinks red during the cooling-off period.
- Blinks green in the Power management mode (p.41).
- Blinks orange when the automatic slide shutter is closed during operations (p.53).

② WARNING indicator

- Lights red light when the projector detects an abnormal condition.
- Blinks red when the internal temperature of the projector exceeds the operating range (pp.44, 53).

③ LAMP REPLACE indicator

Lights yellow light when the projection lamp reaches its end of life (pp.49, 53).

④ MENU button

Open or close the On-Screen Menu (p.20).

⑤ INPUT button

Select an input source (p.24).

⑥ POINT ▲▼◀▶ buttons

Select an item or adjust the setting values in the On-Screen Menu.

⑦ OK button

Execute the item selected or use it to access the submenu items (p.20).

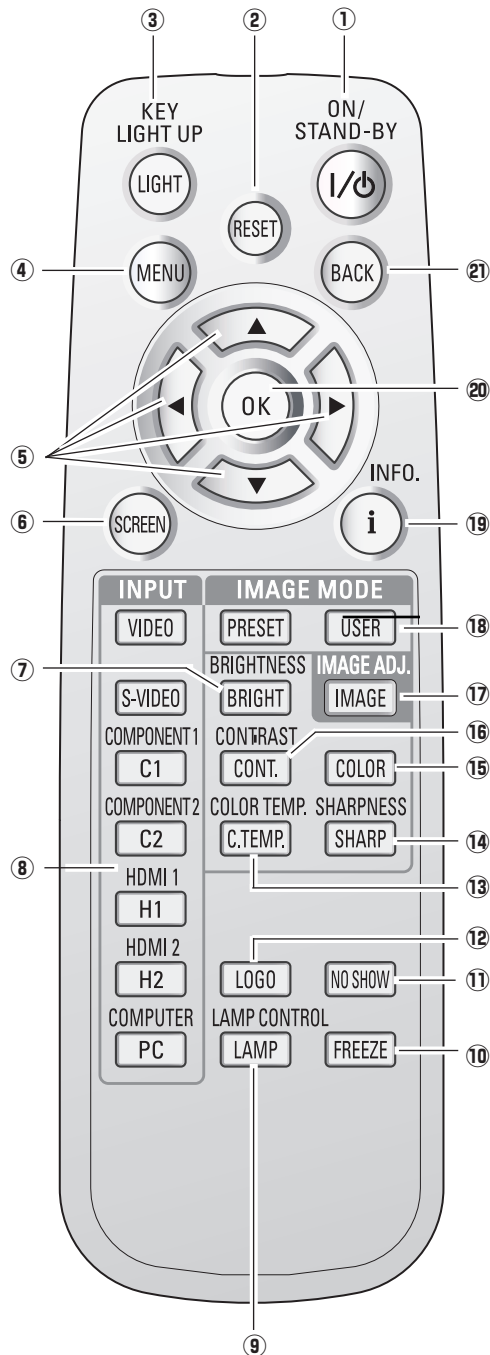
⑧ INFO. button

Display the input source information (p.43).

⑨ POWER ON/STAND-BY button

Turn the projector on or off (pp.18, 19).

Remote Control



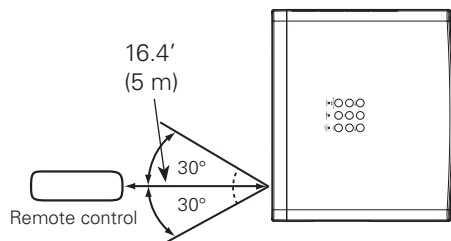
- ① **POWER ON/STAND-BY button**
Turn the projector on or off (pp.18, 19).
- ② **RESET button**
Reset to the previous figure.
This function is limited to when selecting the Image Adjustment (pp.28 – 33) and Picture Adjustment (p.34).
- ③ **LIGHT button**
Light up the remote control buttons for about 10 seconds (p.22).
- ④ **MENU button**
Open or close the On-Screen Menu (p.20).
- ⑤ **POINT ▲▼◀▶ buttons**
Select an item or adjust the setting values in the On-Screen Menu.
- ⑥ **SCREEN button**
Select a screen size (pp.22, 35).
- ⑦ **BRIGHTNESS button**
Adjust the brightness of a projected image (pp.23, 28).
- ⑧ **INPUT buttons**
Select an input source (p.24).
- ⑨ **LAMP CONTROL button**
Select a lamp mode (pp.23, 29).
- ⑩ **FREEZE button**
Freeze the projected image (p.23).
- ⑪ **NO SHOW button**
Temporarily turn off the projected image (p.23).
- ⑫ **LOGO button**
Display the captured logo (p.23).
- ⑬ **COLOR TEMP button**
Adjust the color temperature of a projected image (p.28).
- ⑭ **SHARPNESS button**
Adjust the sharpness of a projected image (pp.23, 29).
- ⑮ **COLOR button**
Adjust the color intensity of a projected image (pp.23, 28).
- ⑯ **CONTRAST button**
Adjust the contrast of a projected image (pp.23, 28).
- ⑰ **IMAGE ADJ. button**
Display the Image adj. Menu items one at a time and directly adjust the selected items (pp.23, 28).
- ⑱ **IMAGE MODE buttons**
Select an image mode (pp.23, 27).
- ⑲ **INFO. button**
Display the input source information (p.43).
- ⑳ **OK button**
Execute the selected item or access the sub-menu items (p.20).
- ㉑ **BACK button**
Return to the previous menu.

✓ **Note:**

- To ensure safe operation, observe the following precautions:
- Do not bend, drop, or expose the remote control to moisture or heat.
 - For cleaning, use a soft dry cloth. Do not apply benzene, thinner, spray, or any other chemicals.

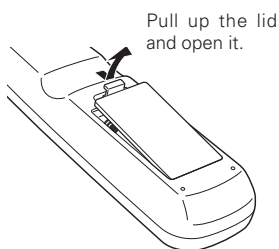
Remote Control Operating Range

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

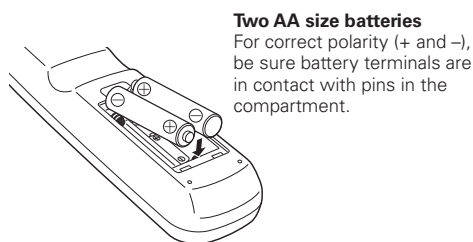


Remote Control Battery Installation

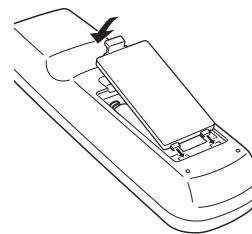
- 1** Open the battery compartment lid.



- 2** Install new batteries into the compartment.



- 3** Replace the compartment lid.



* When the batteries of the remote control are replaced, the remote control code automatically returns to the initial code (Code 1) (p.41).



To ensure safe operation, please observe the following precautions:

- Use two (2) AA or LR6 type alkaline batteries.
- Always replace batteries in sets.
- Do not use a new battery with a used battery.
- Avoid contact with water or liquid.
- Do not expose the remote control to moisture or heat.
- Do not drop the remote control.
- If the battery has leaked on the remote control, carefully wipe the case clean and install new batteries.
- Risk of explosion if battery is replaced by an incorrect type.
- Dispose of used batteries according to the instructions or your local disposal rule and guidelines.

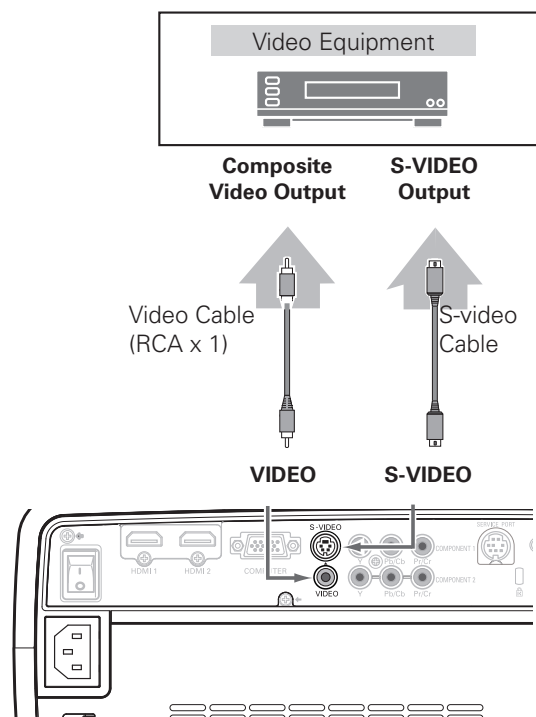
Installation

This projector can be connected up to six equipment at one time. See the figures below for the connections.

Connecting to Video Equipment (Video, S-Video)

Video, S-video

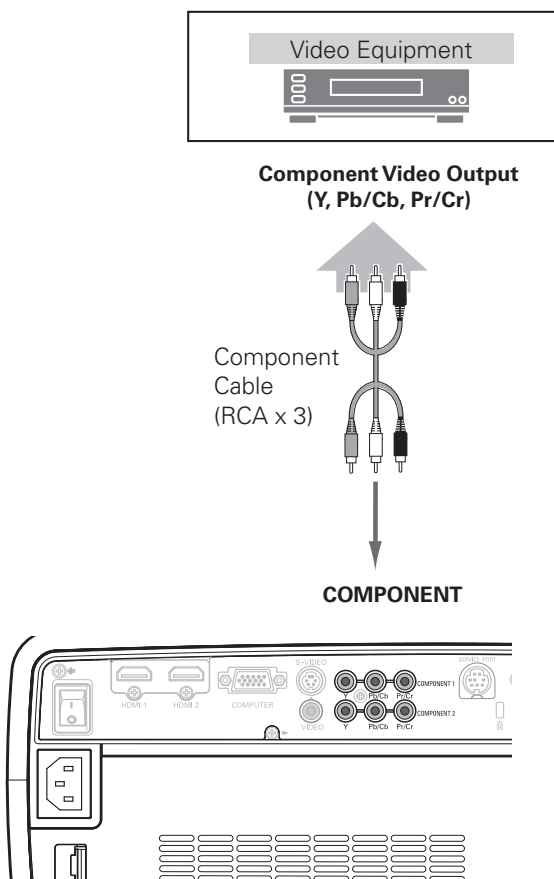
Use a video cable or a S-video cable (commercially available).



Connecting to Video Equipment (Component)

Component

Use a component cable (optional).



✓ Note:

- To order the optional cables, see page 58.
- When connecting HDTV equipment to the projector's COMPONENT 1/2 terminals, horizontal line noise may be noted only occasionally. Then adjust the value of Fine sync. The setting can be adjusted from 0 to +31 (see page 34).

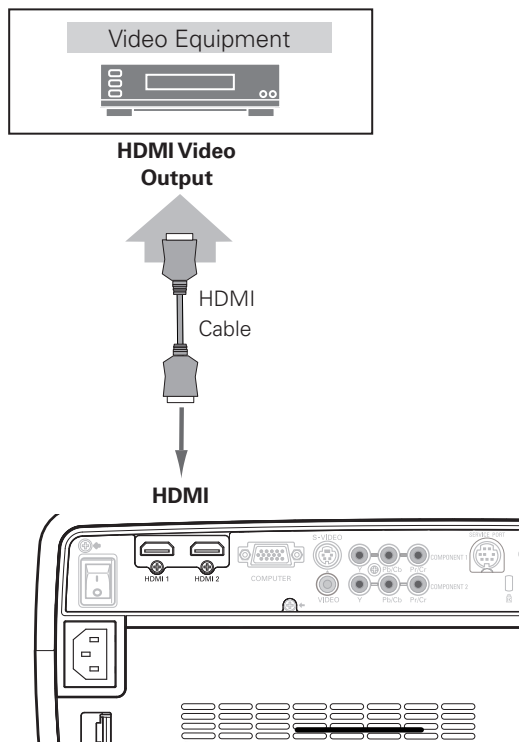


Unplug the power cords of both the projector and external equipment from the AC outlet before connecting the cables.

Connecting to Video Equipment (HDMI, RGB Scart)

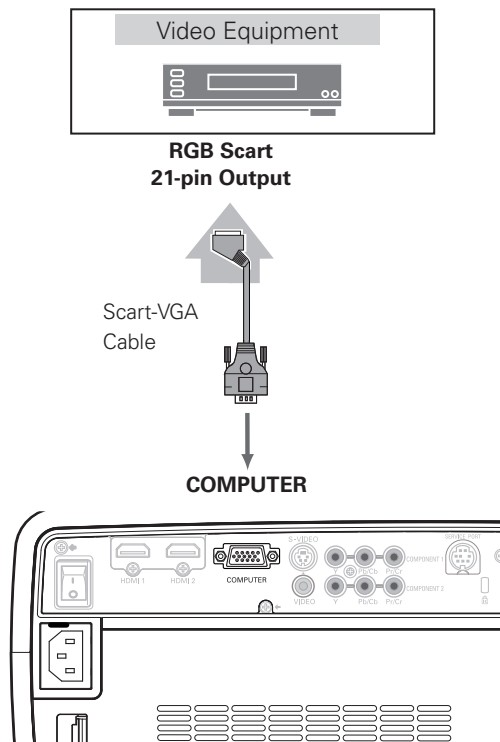
HDMI

Use a HDMI cable (optional) for HDMI output.



RGB Scart

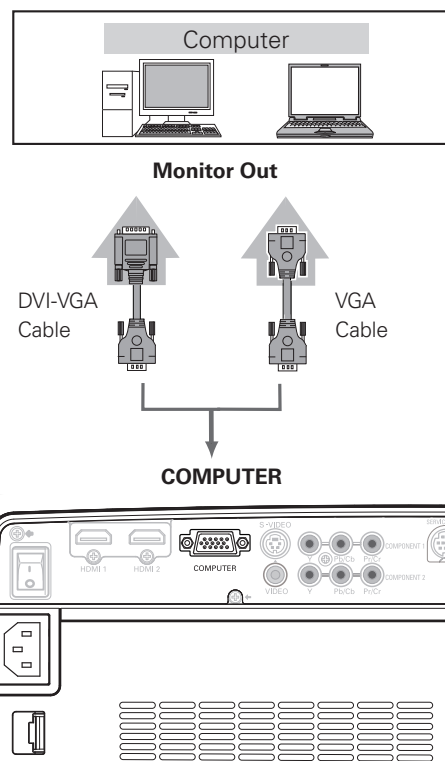
Use a Scart-VGA cable (optional).



Connecting to a Computer

Computer (Analog)

Use a VGA cable (commercially available) or a DVI-VGA cable (commercially available).



✓ Note:

- To order the optional cables, see page 58.



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

Lamp Replacement

When the projection lamp of this projector reaches its end of life, the LAMP REPLACE indicator emits yellow light. If this indicator lights yellow, replace the lamp with a new one promptly. The time when the LAMP REPLACE indicator should light is depending on the lamp mode.

This indicator lights yellow when the projection lamp reaches its end of life.

Top Control



CAUTION

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

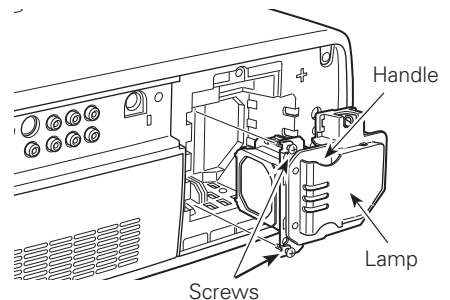
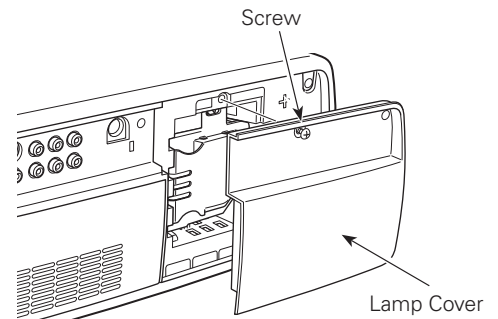


CAUTION

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

Follow these steps to replace the lamp.

- 1** Turn off the projector and unplug the AC power cord. Let the projector cool for at least 45 minutes.
- 2** Loosen the screw that secures the lamp cover, and then open the lamp cover.
- 3** Loosen the two (2) screws that secure the lamp. Pull out the lamp by using the built in handle.
- 4** Replace the lamp with a new one and secure it with the two (2) screws. Make sure that the lamp is set properly. Put the lamp cover back and secure it with the screw.
- 5** Connect the AC power cord to the projector and turn on the projector.
- 6** **Reset the Lamp replacement counter.**



ORDER REPLACEMENT LAMP

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

- **Model No. of your projector** : **PLV-Z3000**
- **Replacement Lamp Type No.** : **POA-LMP114**
(Service Parts No. 610 336 5404)

Resetting the Lamp Replacement Counter

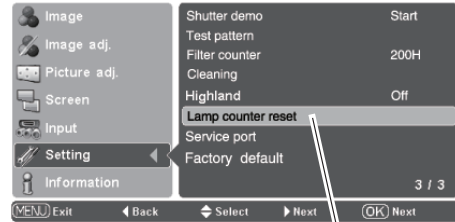
Be sure to reset the lamp replacement counter after the lamp is replaced. When the lamp replacement counter is reset, the LAMP REPLACE indicator stops lighting.

- 1 Turn the projector on and press the MENU button to display the On-Screen Menu. Select the Setting Menu with the Point ▲▼ buttons. Press the Point ► or OK buttons to access the submenu items.
- 2 Select Lamp counter reset and then press the OK or Point ► buttons. "Lamp replacement counter reset?" appears. Select [Yes] and then press the OK button.
- 3 Another confirmation dialog box appears, and select [Yes] to reset the Lamp replacement counter.

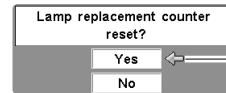
✓ **Note:**

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

Lamp counter reset



Select Lamp counter reset and press the OK or Point ► buttons. "Lamp replacement counter reset?" appears.



Select [Yes] and press the OK button, then another confirmation box appears.



Select [Yes] again to reset the lamp counter.



LAMP HANDLING PRECAUTIONS

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

- Lamp 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.

Technical Specifications

Projector Type	Multimedia Projector
Dimensions (W x H x D)	15.75" x 5.75" x 13.62" (400 mm x 146 mm x 346 mm) (not including raised portions)
Net Weight	16.1 lbs (7.3 kg)
LCD Panel System	0.74" wide TFT Active Matrix type, 3 panels
Panel Resolution	1920 x 1080 dots
Number of Pixels	6,220,800 (1920 x 1080 x 3 panels)
Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M, and PAL-N
High Definition TV Signal	480i, 480p, 575i, 575p, 720p, 1080i, and 1080p
Scanning Frequency	H-sync. 15 kHz – 80 kHz, V-sync. 50 Hz – 100 Hz
Projection Image size (Diagonal)	Adjustable from 40" to 300"
Projection Lens	F 2.0 – 3.05 lens with f 22.6 – 45.3 mm with manual zoom and focus
Throw Distance	3.9' – 60.4' (1.2 m – 18.4 m)
Projection Lamp	165 W
Video Input Jacks	RCA Type x 1 (Video), RCA Type x 3 (Y, Pb/Cb, Pr/Cr) x 2 and Mini DIN 4 pin x 1 (S-video)
Computer Input Terminal	mini D-sub 15 pin x 1
HDMI Input Terminals	HDMI terminal 19 pin x 2
Service Port Connector	Mini DIN 8 pin x 1
Feet Adjustment	0° to 6.5°
Voltage and Power Consumption	AC 100 – 120 V (2.9 A Max. Ampere), 50/60 Hz (The U.S.A. and Canada) AC 200 – 240 V (1.6 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 or LR6 1.5 V ALKALINE Type x 2 Operating Range : 16.4' (5 m)/±30° Dimensions : 2.13" x 1.04" x 6.81" (54 mm x 26.3 mm x 173mm) Net Weight : 3.4 oz (95.5 g) (not including batteries)
Accessories	Owner's Manual (CD-ROM) Quick Reference Guide AC Power Cord Remote Control and Batteries Air Blower

- 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.



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).



Pixelworks ICs used.