myprojectorlamps.com

The most trusted, dependable name in projector lamp sales.

http://www.myprojectorlamps.com

http://www.myprojectorlamps.ca

http://www.myprojectorlamps.eu

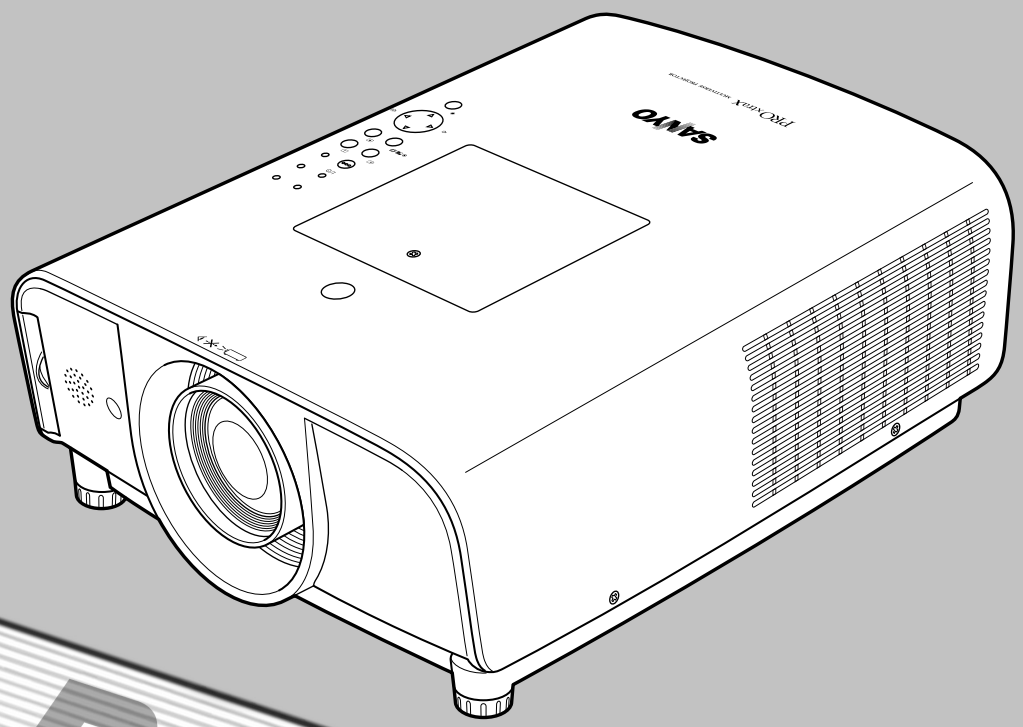
The following projector manual has not been modified or altered in any way.

SANYO

Multimedia Projector

MODEL PLC-XT35
PLC-XT35L*
PLC-XT35K

(*Models without lens.)



PROJECTOR

Owner's Manual

PJLink™ 3LCD

Features and Design

◆ Compact Design

This projector is designed compact in size and weight. It is easy to carry and installed anywhere you wish to use.

◆ Functionally Rich

This projector has many useful functions such as lens shifting, ceiling and rear projection, perpendicular omnidirectional projection, variety of lens options, etc.

◆ Multi-use Remote Control

Use the remote control as wired and wireless, or as a PC wireless mouse. Eight remote control codes and selectable pointer shapes are also available.

◆ Simple Computer System Setting

The projector has the Multi-scan system to conform to almost all computer output signals quickly (p.37). Up to UXGA resolution can be accepted.

◆ Useful Functions for Presentation

Digital zoom function allows you to focus on the crucial information during a presentation (pp.15, 47).

◆ Security Function

The Security function helps you to ensure security of the projector. With the Key lock function, you can lock the operation on the top control or remote control (p.59). PIN code lock functions prevents unauthorized use of the projector (pp.54–56).

◆ Lamp Control

Brightness of the projection lamp can be selected (p.49).

◆ Power Management

The Power management function reduces power consumption and maintains lamp life (p.53).

◆ Multilanguage Menu Display

Operation menu is available in 12 languages; English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Russian, Chinese, Korean, and Japanese (p.49).

◆ Network-capable

Through an optional Network Manager, you can operate and control the projector.

◆ Logo Function

The Logo function allows you to customize the screen logo (pp.50-51). You can capture an image for the screen logo and use it for the starting-up display or between presentations.

◆ Helpful Maintenance Functions

Lamp and filter maintenance functions provide for better and proper maintenance of the projector.

◆ Multiple Interface Terminals

The projector has several interface terminals that can support various types of equipment and signals (pp.11–12).

✔ ***Notes:***

- *The On-Screen Menu and figures in this manual may differ slightly from the product.*
- *The contents of this manual are subject to change without notice.*

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Trademarks

Each name of corporations or products in this book is either a registered trademark or a trademark of its respective corporation.

To the Owner

Before installing and operating the projector, read this manual thoroughly.
The projector provides many convenient features and functions. Operating the projector properly enables you to manage those features and maintains 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 booklet. 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 only to EU countries and not applied 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.

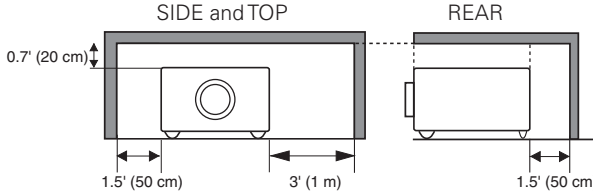
Please help us to conserve the environment we live in!

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

Safety Precaution

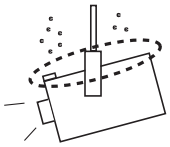
WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

– This projector produces intense light from the projection lens. Do not stare directly into the lens as 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 dimension 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 air intake vents, filters, or 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 A 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 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 side and bottom of the cabinet are provided for ventilation, to ensure reliable operation of the equipment and to protect it from overheating.

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

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

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

Do not install the projector near the ventilation duct of 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.

Voor de klanten in Nederland

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

Air Circulation

Openings in the cabinet are provided for ventilation. 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.

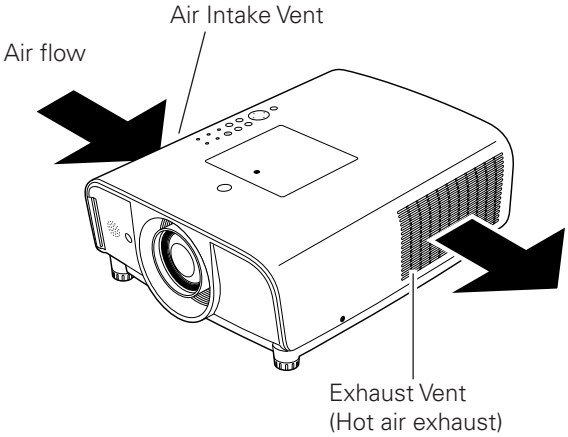
–Do not put any flammable object or spray can near the projector, hot air is exhausted from the air vents.

–Keep the exhaust vent at least 3' (1 m) away from any objects.

–Do not touch peripheral parts of the exhaust vent, especially screws and metallic parts. These areas will become hot while the projector is being used.

–Do not put anything on the cabinet. Objects put on the cabinet will not only get damaged but also may cause fire hazard by heat.

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



IMPORTANT!

Clean the Filter Regularly!!

The projector uses a lamp which generates significant heat. The cooling fans and air vents are provided to dissipate the heat by drawing air into the housing and the filter is located in the intake vents to prevent dust from getting inside of the projector.

In order to care for the projector appropriately, regular cleaning is required. Remove any dirt or dust that has accumulated on the projector and on or in the filter.

If the projector detects that the filter is clogged, a "Filter warning" icon (red) will appear on the screen and "WARNING FILTER" indicator on the top panel will blink (see below). Stop using the projector immediately and clean or replace the filter.

Blocking the air vents and leaving the projector uncleaned for a long time may not only damage the projector and may require costly repairs but may also cause accidents or fire.

For maintenance of the filter, refer to "Filter counter" on page 57 and "Maintenance and Filter Cleaning" on page 58.

Damages to the projector caused by using an uncleaned filter or improper maintenance will void the warranty on the projector.

Top Control

Filter warning icon (red) appears on the screen when the projector detects filter clogging.

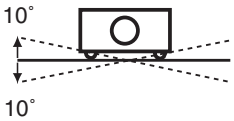
Installing the Projector in Proper Directions

Use the projector properly in specified positions. Improper positioning may reduce the lamp life and result in severe accident or fire hazard.
This projector can project the picture in upward, downward, or inclined position in perpendicular direction to the horizontal plane. When installing the projector in upwardly inclined position, install the projector bottom side up.

✔***Note:***
- *When the image is top/bottom and left/right reversed, set the ceiling function to "On." (p. 45)*

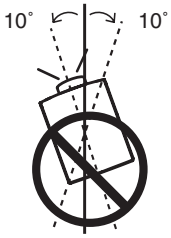
Positioning Precautions

Avoid positioning the projector as described below when installing.

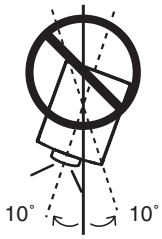


Do not tilt the projector more than 10 degrees from side to side.

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



In upward projection, do not tilt the projector over 10 degrees right and left.



In downward projection, do not tilt the projector over 10 degrees right and left.

CAUTION ON CEILING MOUNTING

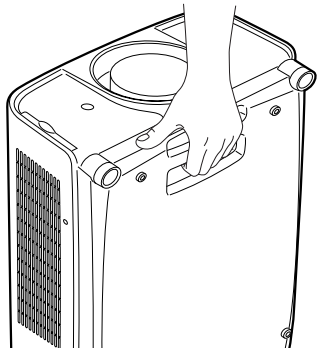
For ceiling mounting, you need the ceiling mount kit designed for this projector. When not mounted properly, the projector may fall, causing hazards or injury. For details, consult your dealer. The warranty on this projector does not cover any damage caused by use of any non-recommended ceiling mount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

Moving the Projector

Use the hand grip when moving the projector.

Replace the lens cap and retract the adjustable feet to prevent damage to the lens and cabinet when carrying.

When the projector is not in use for an extended period, put it into a suitable case to protect the projector.



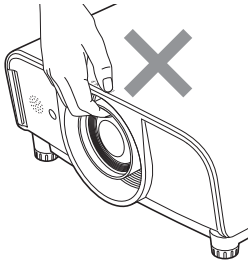
CAUTION IN CARRYING OR TRANSPORTING THE PROJECTOR

– 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.

Cautions in Handling the Projector

Do not hold the lens when lifting or moving the projector. Doing so may cause damage to the lens and the projector.

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

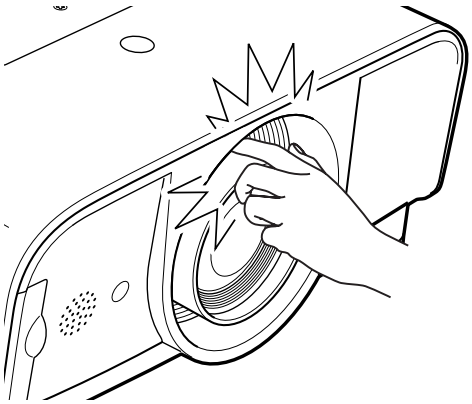


Do not hold the lens and the peripheral part.

CAUTION

This projector has a motorized lens. Please note the followings when using the projector.

- Do not touch the lens while it is moving as this could cause injury to the fingers.
- Never allow children to touch the lens.



Compliance

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 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.

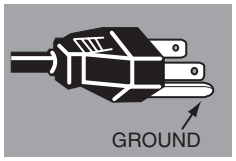
Model Number(s)	: PLC-XT35, PLC-XT35L
Trade Name	: Sanyo
Responsible party	: SANYO FISHER COMPANY
Address	: 21605 Plummer Street, Chatsworth, California 91311 U.S.A.
Telephone No.	: (818)998-7322

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.

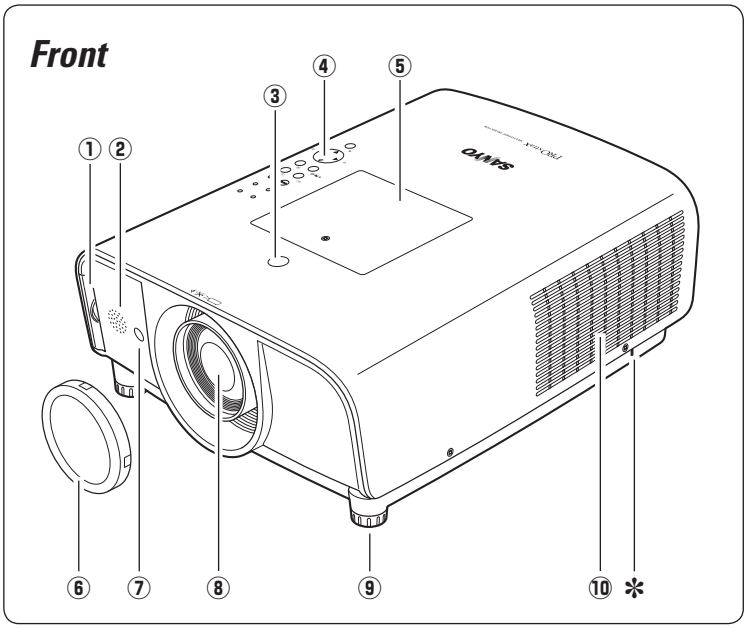
The Wires in this mains lead are coloured in accordance with the following code:
Green-and-yellow ····· Earth
Blue ····· Neutral
Brown ····· Live

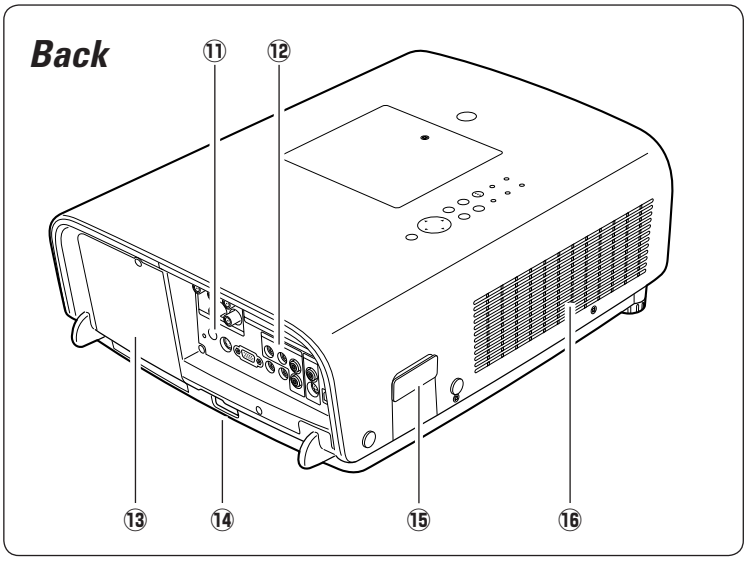
As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:
The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the 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.

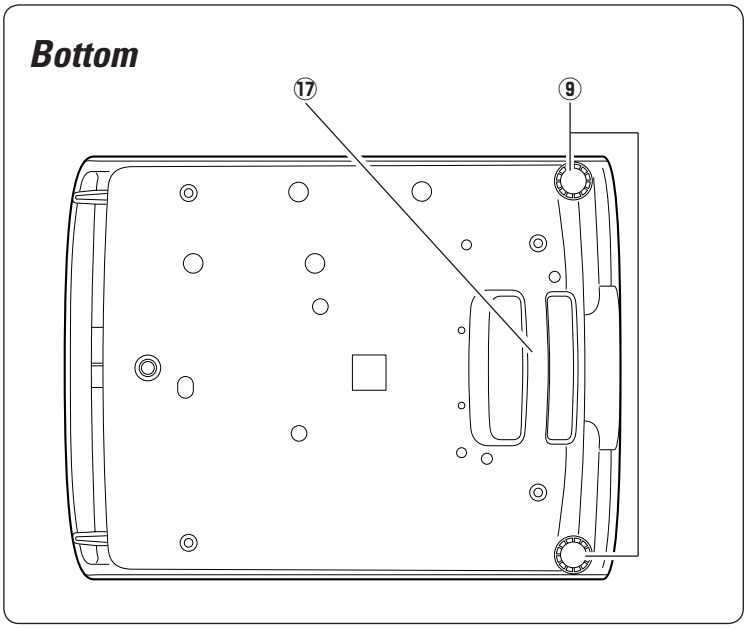
WARNING: THIS APPARATUS MUST BE EARTHED.

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

Part Names and Functions







① **Filter**

② **Speaker**

③ **Lens Release Button**

④ **Top Controls and Indicators**

⑤ **Maintenance Cover**
WARNING: FOR MAINTENANCE USE ONLY. DO NOT OPEN.

⑥ **Lens Cap** (for PLC-XT35/XT35K)

CAUTION

Do not turn on the projector with the lens cap attached. High temperature from light beam may damage the lens cap and result in fire hazard.

⑦ **Infrared Remote Receiver (Front)**

⑧ **Projection Lens** (for PLC-XT35/XT35K)

⑨ **Adjustable Feet**

⑩ **Exhaust Vent**

CAUTION

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

✻ **Kensington Security Slot**
This slot is for a Kensington lock used to deter theft of the projector.
*Kensington is a registered trademark of ACCO Brand Corporation.

⑪ **Infrared Remote Receiver (Back)**

⑫ **Terminals and Connectors**

⑬ **Lamp Cover**

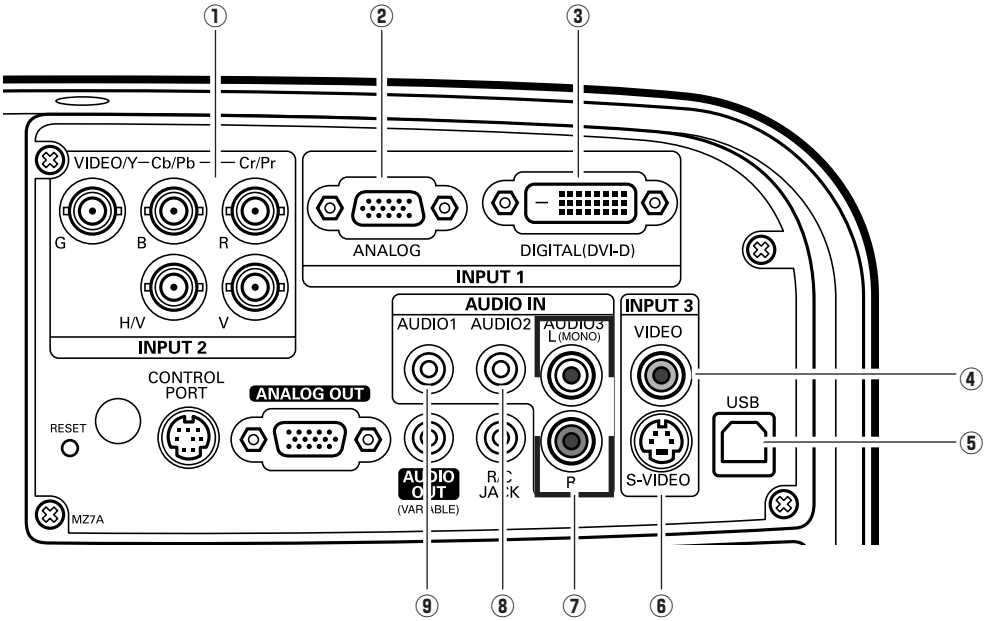
⑭ **Power Cord Connector**

⑮ **Optional Parts Attachment**

⑯ **Air Intake Vent**

⑰ **Hand Grip**

Rear Terminal



① **5 BNC INPUT JACKS**
Connect the component or composite video output signal from video equipment to VIDEO/Y, Cb/Pb, and Cr/Pr jacks or connect the computer output signal (5 BNC Type [Green, Blue, Red, Horiz. Sync, and Vert. Sync.]) to G, B, R, H/V, and V jacks (pp.20–22).

② **COMPUTER INPUT TERMINAL (ANALOG)**
Connect the computer (or RGB scart) output signal to this terminal (pp.20, 22).

③ **COMPUTER INPUT TERMINAL (DIGITAL)**
Connect the computer output signal (Digital DVI-D type) to this terminal. The HD (HDCP compatible) signal can also be connected (pp.20, 22).

④ **VIDEO INPUT JACK**
Connect the composite video output signal from video equipment to this jack (p.21).

⑤ **USB CONNECTOR (Series B)**
Use this connector when controlling a computer with the remote control of the projector. Connect the USB terminal of your computer to this connector with the supplied USB cable (p.20).

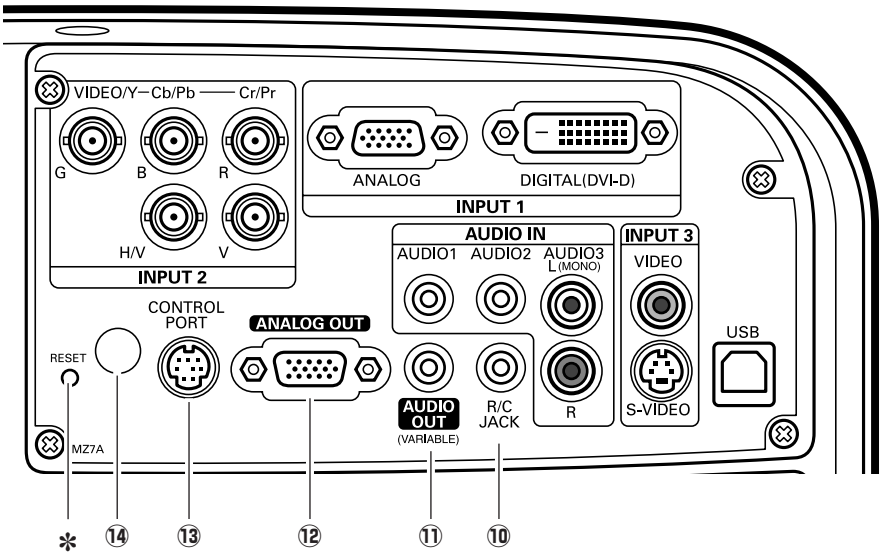
⑥ **S-VIDEO INPUT JACK**
Connect the S-VIDEO output signal from video equipment to this jack (p.21).

⑦ **AUDIO 3 JACKS (L(MONO)/R)**
Connect the audio output signal from video equipment connected to ④ or ⑥ to these jacks (p.21). For a mono audio signal (a single audio jack), connect it to the L (MONO) jack.

⑧ **AUDIO 2 JACK**
Connect the audio output (stereo) signal from a computer or video equipment connected to ① to this jack (pp.20–22).

⑨ **AUDIO 1 JACK**
Connect the audio output (stereo) signal from a computer or video equipment connected to ② or ③ to this jack (pp.20, 22).

Rear Terminal



⑩ R/C JACK
When using the wired remote control, connect the wired remote control to this jack with a remote control cable (not supplied).

⑪ AUDIO MONITOR OUTPUT JACK (VARIABLE)
This jack outputs the audio signal from computer or video equipment to external audio equipment (pp.20–22).

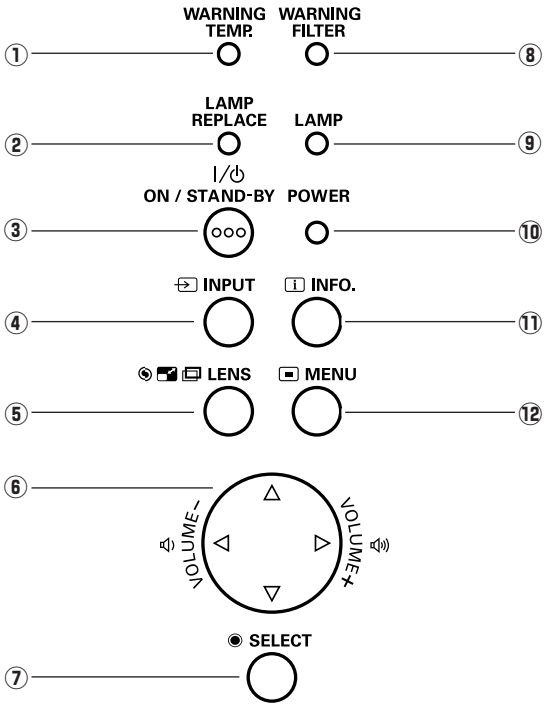
⑫ MONITOR OUTPUT TERMINAL (ANALOG)
This terminal outputs the video signal from computer to external video equipment (pp.20, 22).

⑬ CONTROL PORT CONNECTOR
When controlling the projector from a computer, connect the computer to this connector with a control cable.

⑭ INFRARED REMOTE RECEIVER (Back)
The infrared remote receiver is also located in the front (pp.10, 16).

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

Top Control



① **WARNING TEMP. indicator**
Blinks red when the internal temperature of the projector exceeds the operating range (pp.61, 68).

② **LAMP REPLACE indicator**
Lights yellow when the projection lamp reaches its end of life (pp.59, 69).

③ **ON/STAND-BY button**
Turn the projector on or off (pp.24–25).

④ **INPUT button**
Select an input source (pp.34–35).

⑤ **LENS button**
Enter the focus, zoom, and lens shift adjustment mode (p.30).

⑥ **POINT ▲▼◀▶ (VOLUME +/–) buttons**
– Select an item or adjust the value in the On-Screen Menu (p.26).
– Pan the image in Digital zoom + mode (p.47).
– Adjust the volume level (Point ◀▶ buttons) (p.29).

⑦ **SELECT button**
– Execute the selected item (p.26).
– Expand or compress the image in the Digital zoom mode (p.47).

⑧ **WARNING FILTER indicator**
– Blinks orange indicating the filter needs cleaning.
– Lights orange when clogging of the filter is detected, urging immediate cleaning.

⑨ **LAMP indicator**
Lights red during operations.

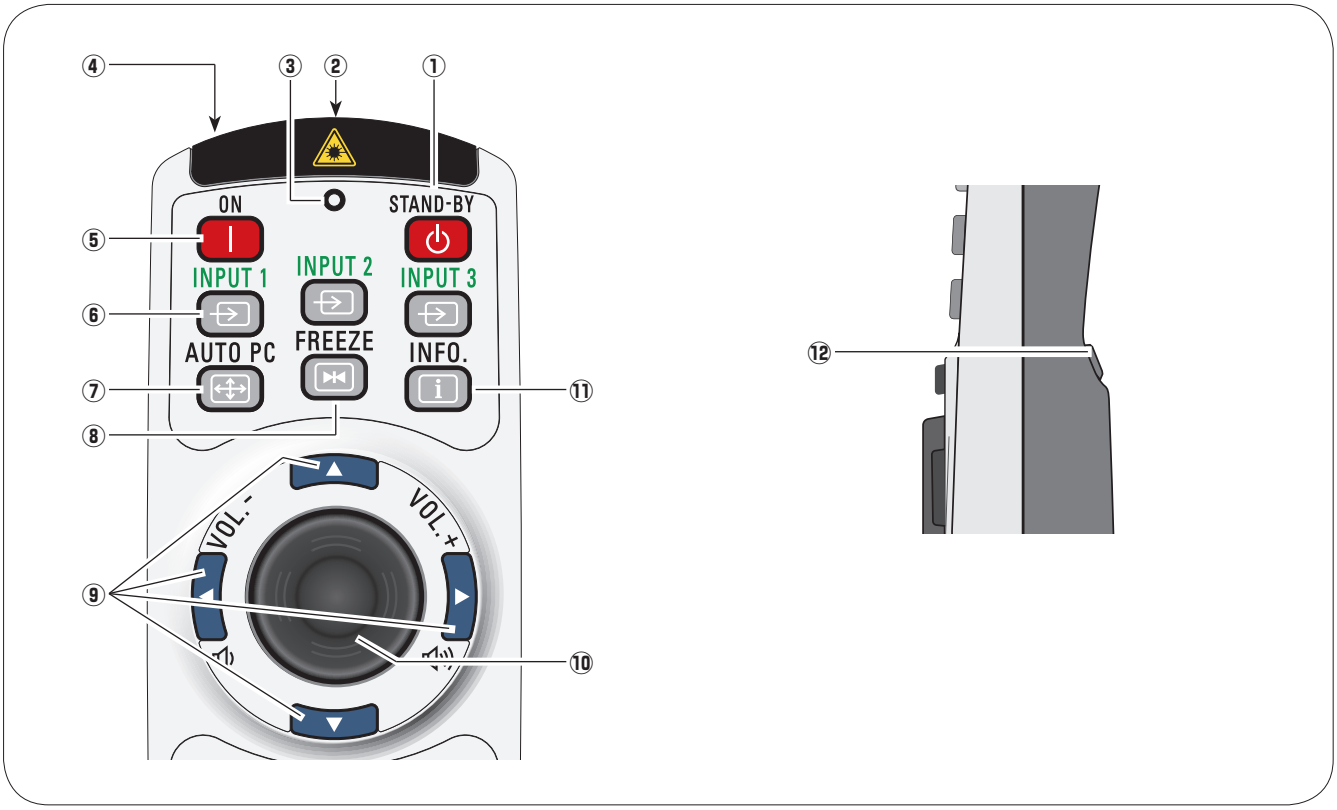
⑩ **POWER indicator**
– Lights when in stand-by mode and during operations.
– Blinks during the cooling-off period.
– Blinks in the Power management mode (p.53).

⑪ **INFO. button**
Display the input source information (p.28).

⑫ **MENU button**
Open or close the On-Screen Menu (p.26).

✔ ***Note:***
- *All five indicators on the top control blinks when the projector detects an abnormal condition.*

Remote Control



① **STAND-BY button**
Turn the projector off (p.25).

② **WIRED REMOTE jack**
Connect the remote control cable (not supplied) to this jack when using as a wired remote control.

③ **SIGNAL EMISSION indicator**
Lights red while the laser beam is being emitted from the laser light window or a signal is being sent from the remote control to the projector (p.32).

④ **LASER LIGHT window**
A laser beam is emitted from here (p.32).

⑤ **ON button**
Turn the projector on (p.24).

⑥ **INPUT 1 – 3 buttons**
Select an input source (INPUT 1 – INPUT 3) (pp.34–35).

⑦ **AUTO PC button**
Automatically adjusts the computer image to its optimum setting (pp.30, 38).

⑧ **FREEZE button**
Freeze the picture on the screen (p.30).

⑨ **POINT ▲▼ ◀▶ (VOLUME + / –) buttons**
– Select an item or adjust the value in the On-Screen Menu (p.26).
– Pan the image in Digital zoom + mode (p.47).
– Adjust the volume level (with Point ◀▶ buttons) (p.29).

⑩ **PRESENTATION POINTER button**
Move a pointer of the projector or a pointer for wireless mouse operation (pp.32–33).

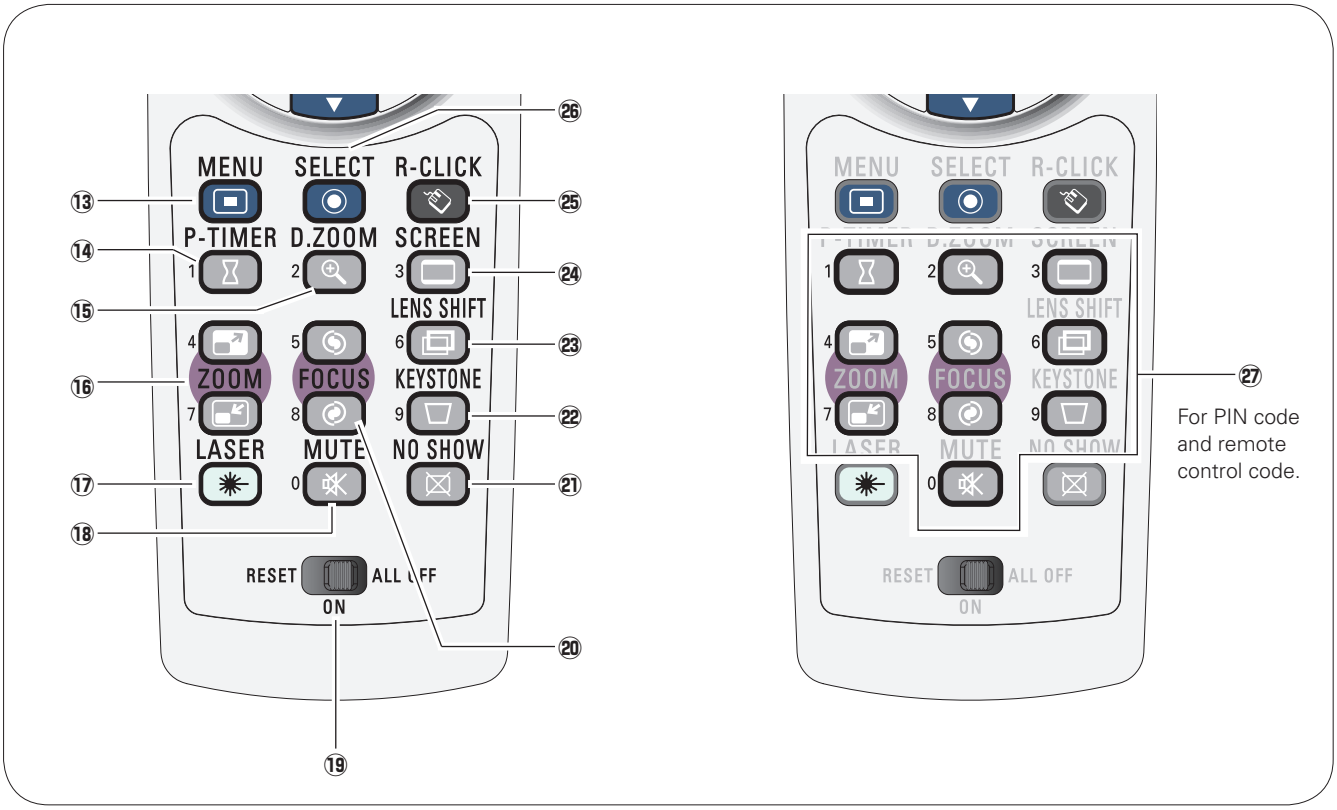
⑪ **INFO. button**
Display the input source information (p.28).

⑫ **L-CLICK button**
Acts as the left mouse button for wireless mouse operation (p.33).

⚠ 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, splay, or any other chemical materials.

Remote Control



⑬ **MENU button**
Open or close the On-Screen Menu (p.26).

⑭ **P-TIMER button**
Operate the P-timer function (p.31).

⑮ **D.ZOOM button**
Select the Digital zoom +/- mode and resize the image (p.47).

⑯ **ZOOM ▲▼ buttons**
Zoom in and out the images (p.30).

⑰ **LASER button**
– Operate the Laser pointer function. Laser beam is emitted while pressing this button for one minute. When using the laser pointer for more than one minute, release the LASER button and press it again (p.32).
– Display the Pointer on the screen (p.32).

⑱ **MUTE button**
Mute the sound (p.29).

⑲ **RESET/ON/ALL-OFF switch**
When using the remote control, set this switch to "ON." Set it to "ALL OFF" for power saving when it is not in use. Slide this switch to "RESET" to initialize the remote control code or switch the Spotlight and Pointer to the Laser pointer function (pp.32–33).

⑳ **FOCUS button**
Adjust the focus (p.30).

㉑ **NO SHOW button**
Temporarily turn off the image on the screen (p.31).

㉒ **KEYSTONE button**
Correct keystone distortion (p.31).

㉓ **LENS SHIFT button**
Select the Lens Shift function (p.30).

㉔ **SCREEN button**
Select the screen size (p.30).

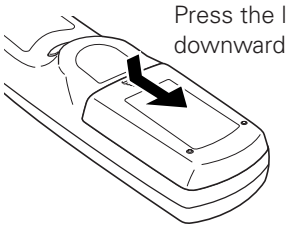
㉕ **R-CLICK button**
Acts as the right mouse button for wireless mouse operation (p.33).

㉖ **SELECT button**
– Execute the selected item (p.26).
– Expand or compress the image in the Digital zoom mode (p.47).

㉗ **NUMBER buttons**
Act as number buttons. Use these buttons when setting the remote control codes (p.17) or when entering the PIN code numbers (pp. 24, 50–51, 55–56).

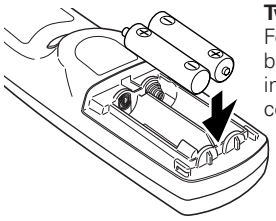
Remote Control Battery Installation

1 Open the battery compartment lid.



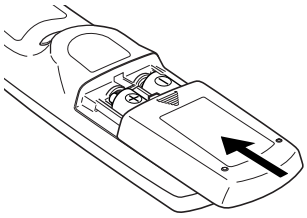
Press the lid downward and slide it.

2 Install new batteries into the compartment.



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

3 Replace the compartment lid.



To ensure safe operation, please observe the following precautions :

- Use two (2) AAA or LR03 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 an explosion if battery is replaced by an incorrect type.
- Dispose of used batteries according to the instructions.

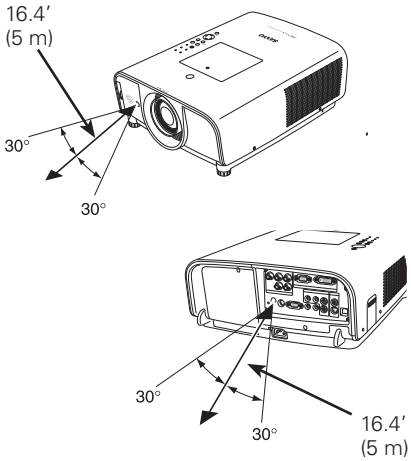
Remote Control Receivers and Operating Range

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

Infrared Remote Receivers are provided both in front and back of the projector. You can conveniently use both of the receivers (see pages 10, 52).

✔***Notes:***

- *When hanging the projector from the ceiling, select the Infrared Remote Receiver which is located farther away from the fluorescent light (p.52).*



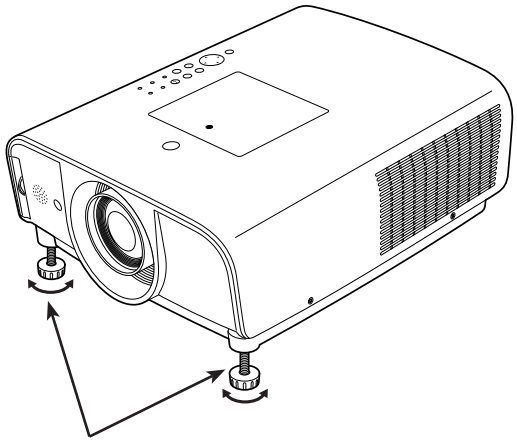
Adjustable Feet

Projection angle can be adjusted up to 5.0 degrees with the adjustable feet.

Rotate the adjustable feet and tilt the projector to the proper height; to raise the projector, rotate the both feet clockwise.

To lower the projector or to retract the adjustable feet, rotate the both feet counterclockwise.

To correct keystone distortion, press the KEYSTONE button on the remote control or select Keystone from the menu (see pages 15, 31, 45).



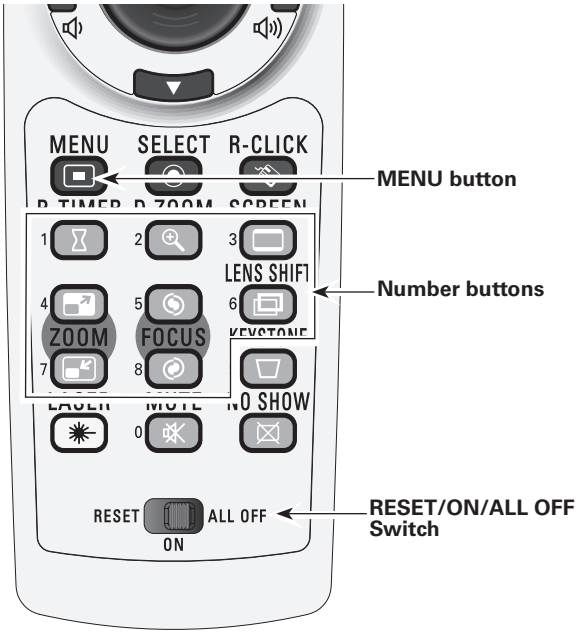
Adjustable Feet

Remote Control Code

The eight different remote control codes (Code 1–Code 8) are assigned to this projector. Switching the remote control codes prevents interference from other remote controls when several projectors or video equipment next to each other are operated at the same time. Change the remote control code for the projector first before changing that for the remote control. See "Remote control" in the Setting Menu on page 52.

1 Press and hold the MENU and a number button (1–8) for more than five seconds to switch between the codes.

2 To initialize the remote control code, slide the RESET/ ON/ALL-OFF switch to "RESET," and then to "ON." The initial code is set to Code 1.



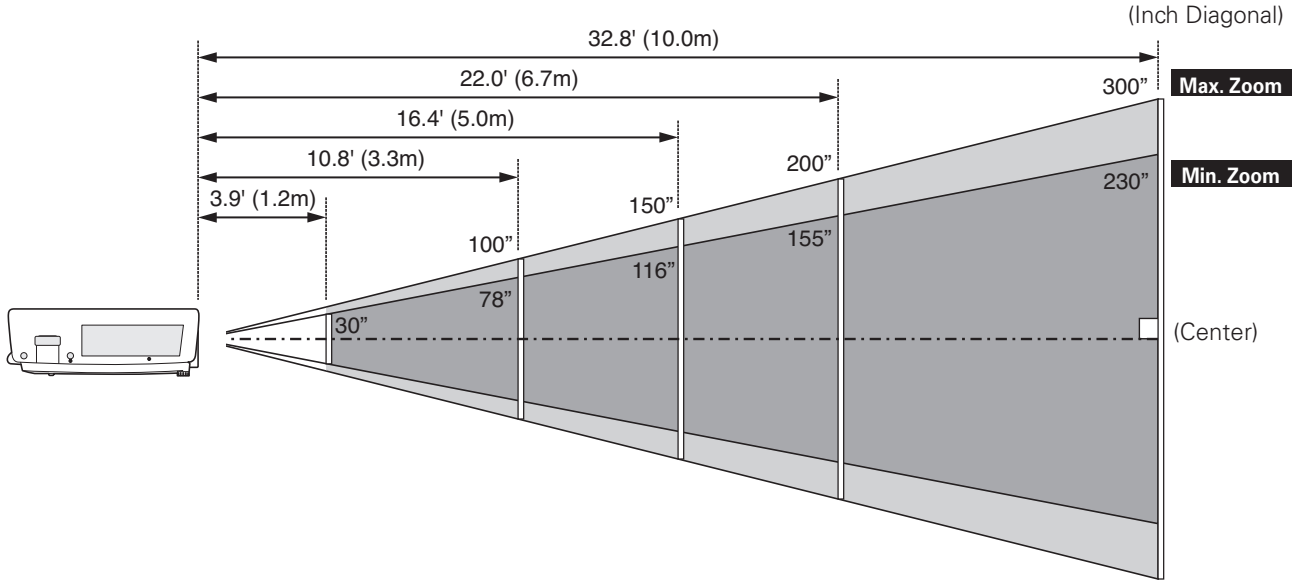
Press and hold the MENU and a number button (1–8) that corresponds to the remote control code for more than five seconds to switch between the codes.

Positioning the Projector (for PLC-XT35/XT35K)

For projector positioning, see the figures below. The projector should be set perpendicularly to the plane of the screen.

✔ ***Notes:***

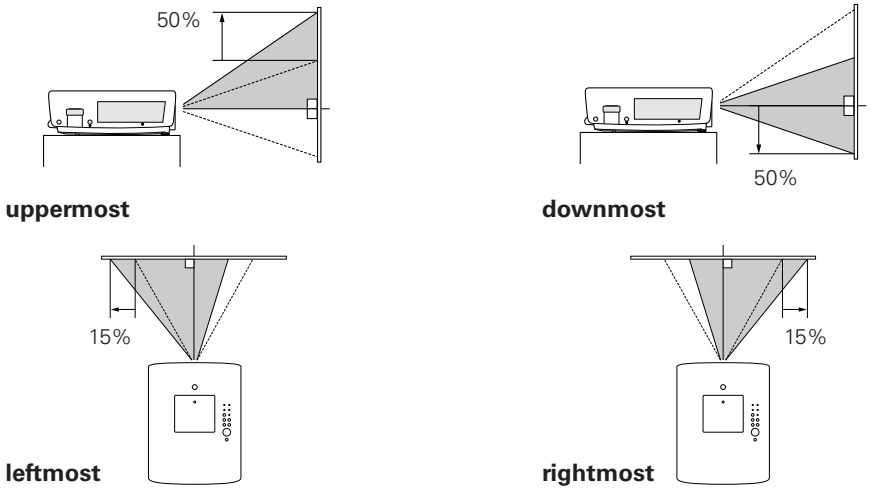
- *The brightness in the room has a great influence on picture quality. It is recommended to limit ambient lighting in order to obtain the best image.*
- *All measurements are approximate and may vary from the actual sizes.*



Screen Size (W x H) mm 4:3 aspect ratio	30″	100″	150″	200″	300″
	610 x 457	2032 x 1524	3048 x 2286	4064 x 3048	6096 x 4572
Zoom (min.)	3.9′ (1.2 m)	14.1′ (4.3 m)	21.3′ (6.5 m)	28.5′ (8.7 m)	———
Zoom (max.)	———	10.8′ (3.3 m)	16.4′ (5.0 m)	22.0′ (6.7 m)	32.8′ (10.0 m)

Moving the Lens

For details about the Lens shift function, refer to “Lens Shift Adjustment” on page 28. The amount of lens shift range varies depending on the lens. The figures below are for PLC-XT35/XT35K.



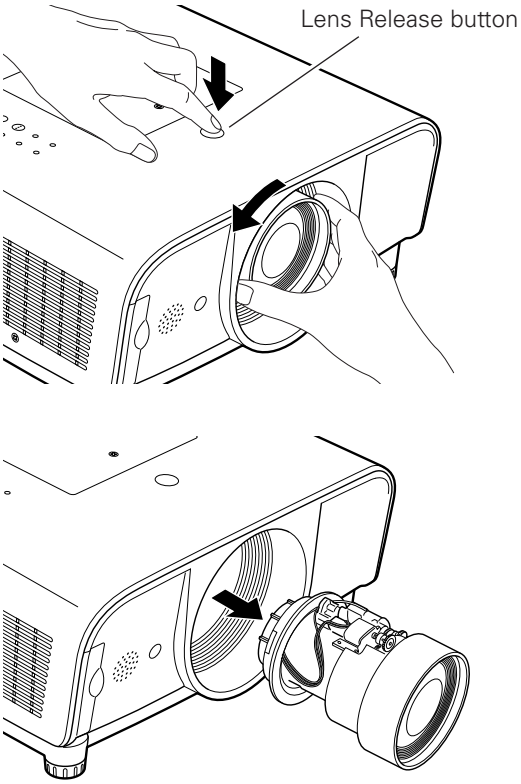
Lens Installation

When replacing the lens or using an optional lens, install the lens by following the instructions below. Ask the sales dealer for detailed information of the optional lens specifications.

Removing the lens

1 Shift the lens to the center position by using the Lens shift function (see page 28).

2 While pressing the Lens release button on the top of the cabinet, turn the lens counterclockwise until it stops and pull it out slowly from the projector.



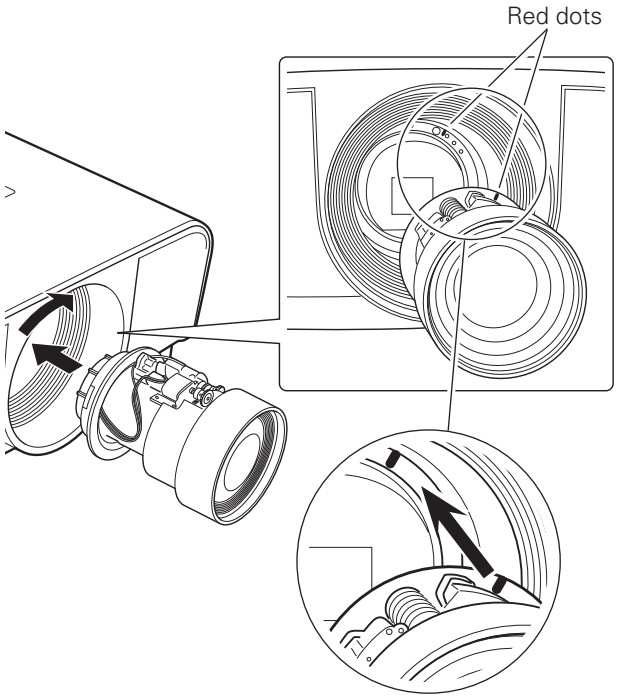
CAUTION
Be careful when handling the lens. Do not drop.

Attaching the lens to the projector

1 Remove the lens mount cover.

2 Fit the lens to the projector by aligning the red dot on the lens with the red dot of the projector.

3 Slowly turn the lens clockwise until it clicks. Make sure that the lens is fully inserted to the projector.



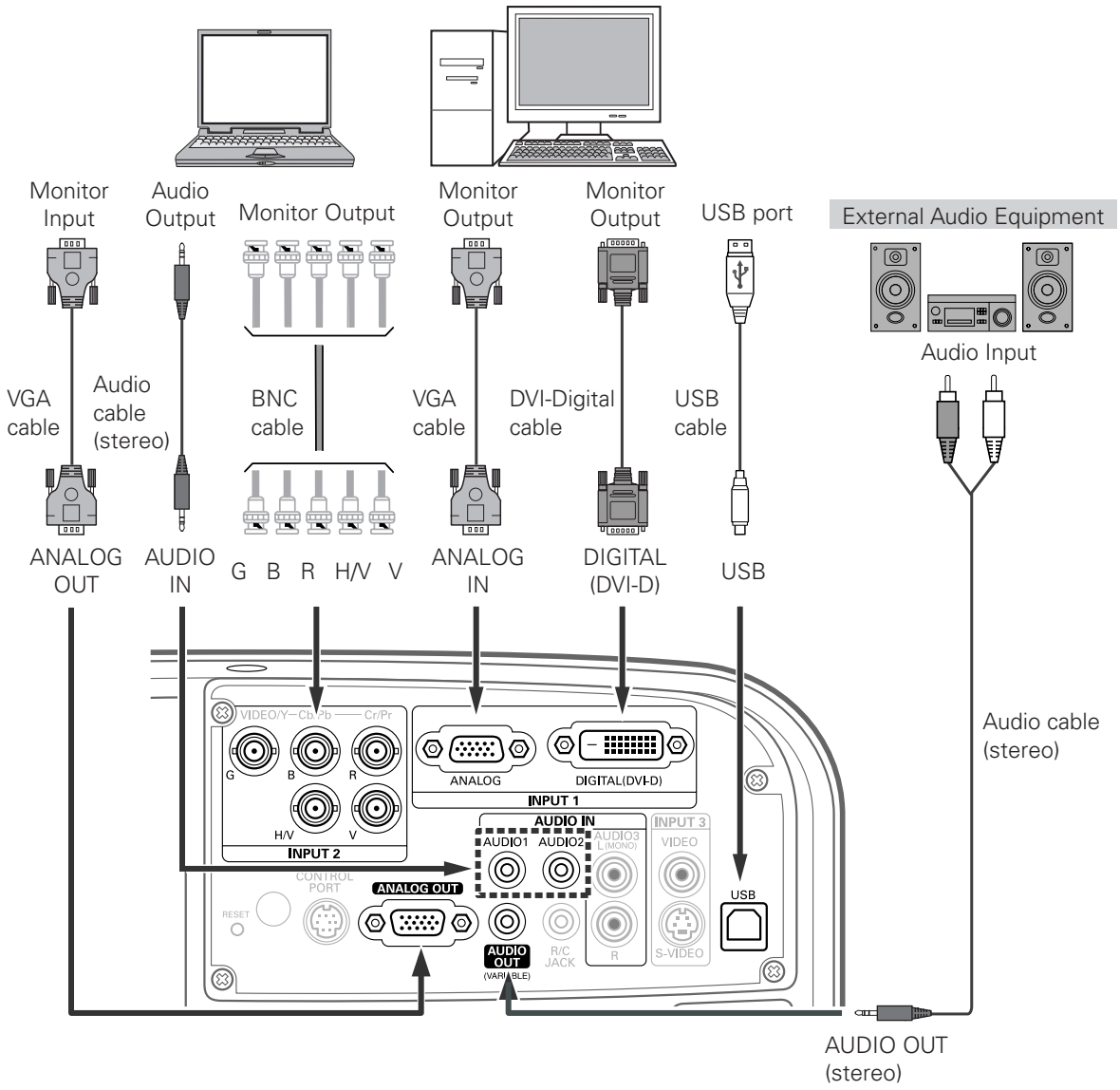
CAUTION
Do not press the lens release button when attaching the lens.

Connecting to a Computer (Digital and Analog RGB)

Cables used for connection

- VGA Cable (HDB 15 pin)*
- DVI-Digital Cable
- BNC Cable
- USB Cable
- Audio Cables (Mini Plug [stereo] x 2)

(*One cable is supplied; other cables are not supplied with the projector.)



✔***Notes:***

- *When the AUDIO OUT is plugged-in, the projector's built-in speaker is not available.*
- *USB cable connection is needed when operating the computer with the remote control.*
- *See page 73 for ordering optional cables.*

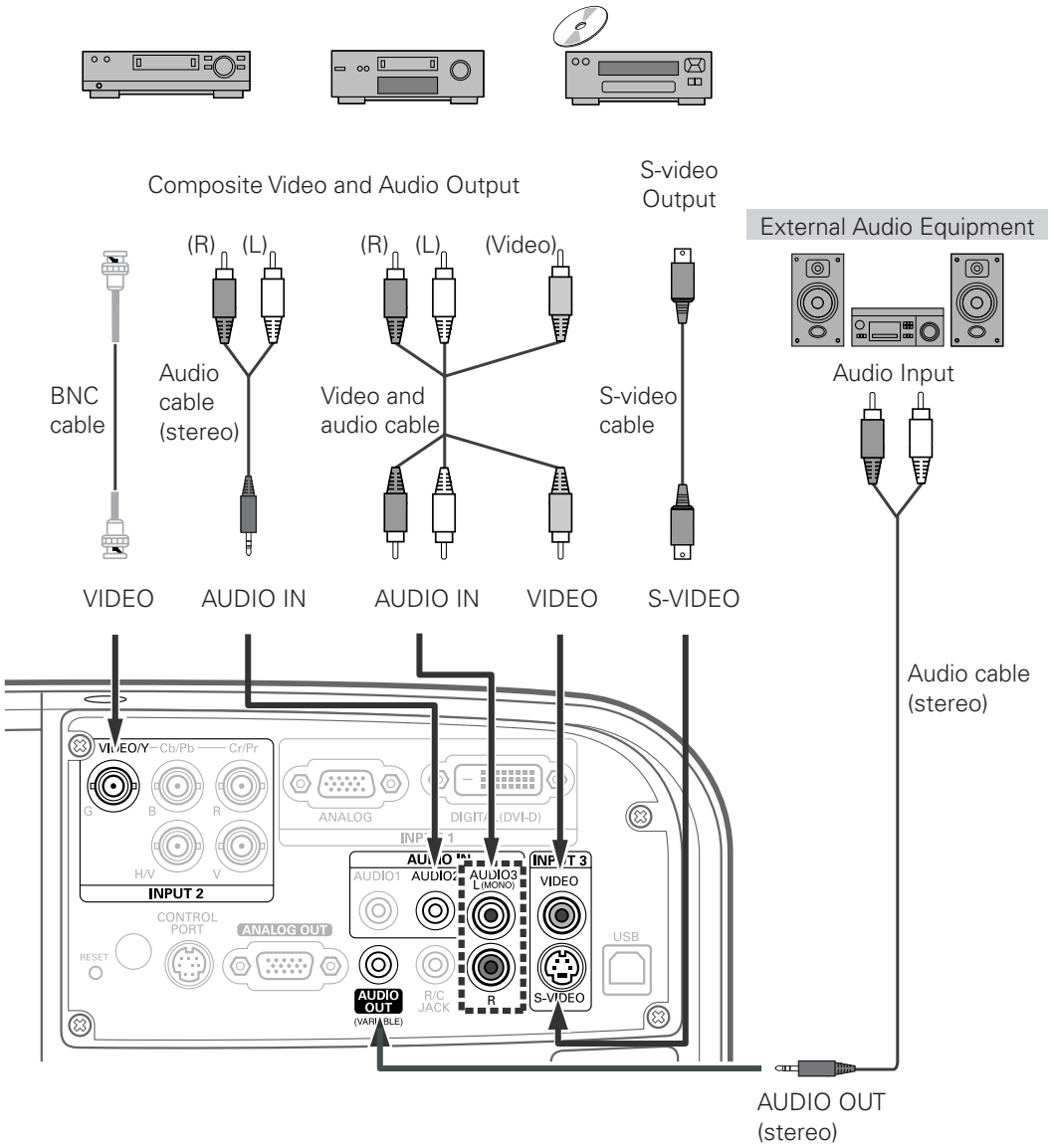
Unplug the power cords of both the projector and external equipment from the AC outlet before connecting cables.

Connecting to Video Equipment (Video, S-Video)

Cables used for connection

- Video Cables (RCA x 1)
- S-VIDEO Cable
- Audio Cable (RCA x 2)
- Audio Cables (Mini Plug [stereo] x 2)
- BNC Cable

(Cables are not supplied with the projector.)



✔***Notes:***

- *When the AUDIO OUT is plugged-in, the projector's built-in speaker is not available.*
- *The S-VIDEO jack connection overrides the VIDEO jack connection when selecting AUTO in the Input Menu (p.35).*
- *See page 73 for ordering optional cables.*

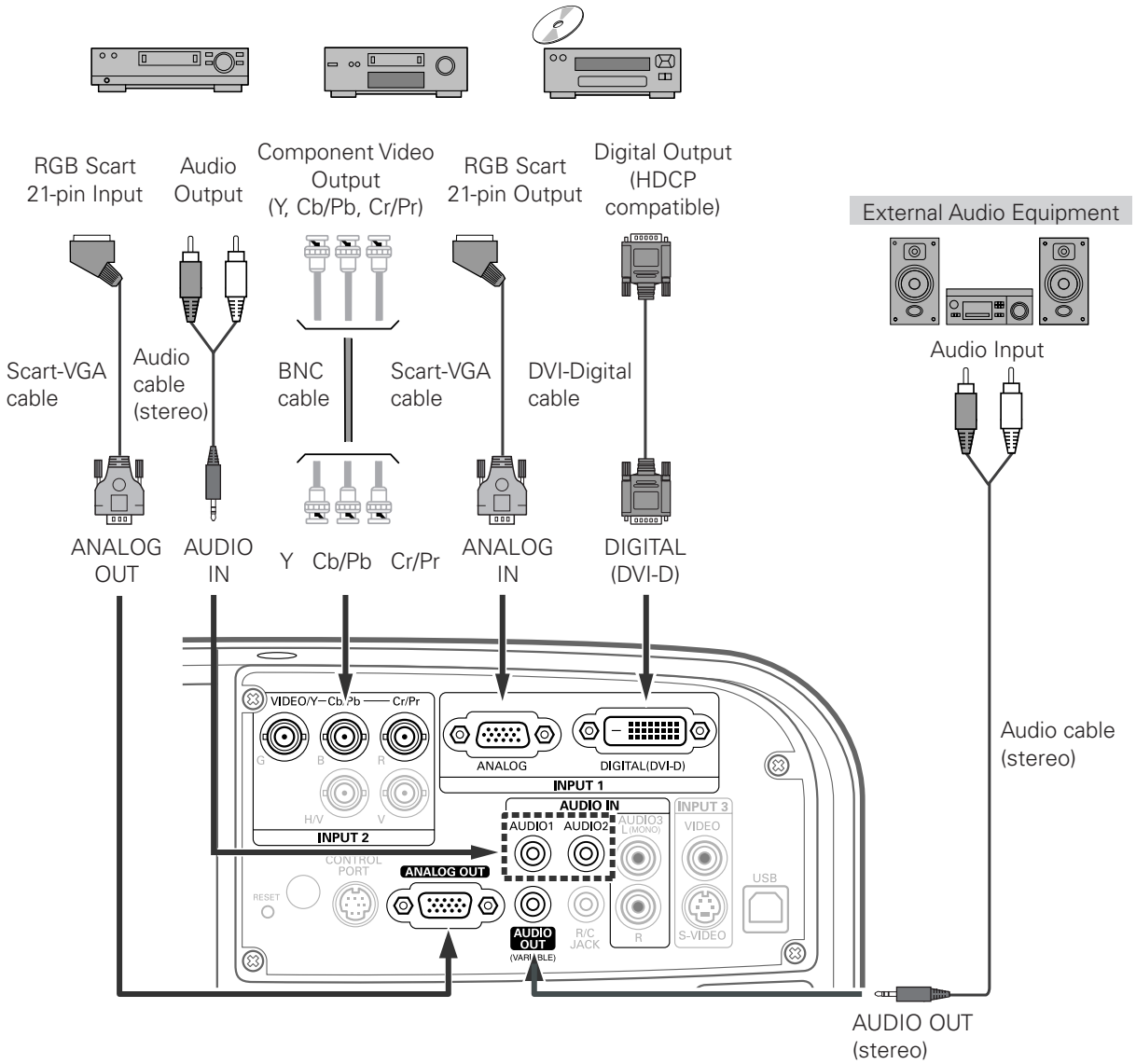
Unplug the power cords of both the projector and external equipment from the AC outlet before connecting cables.

Connecting to Video Equipment (Component and RGB Scart)

Cables used for connection

- Audio Cables (Mini Plug [stereo] x 2)
- Scart-VGA Cable
- BNC Cable
- DVI-Digital Cable

(Cables are not supplied with the projector.)



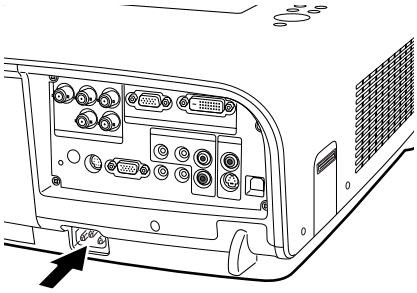
✔***Notes:***

- *When the AUDIO OUT is plugged-in, the projector's built-in speaker is not available.*
- *See page 73 for ordering optional cables.*

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

Connecting the AC Power Cord

This projector uses nominal input voltages of 100–120 V or 200–240 V AC and it automatically selects the correct input voltage. It is designed to work with 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 the projector on.



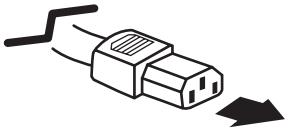
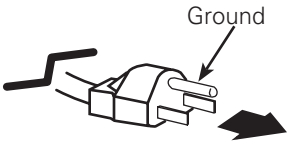
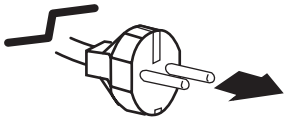
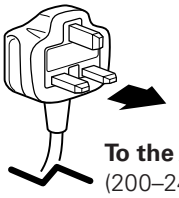
Connect the AC power cord (supplied) to the projector.
The AC outlet must be near this equipment and must be easily accessible.

CAUTION

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, it is in stand-by mode and consumes a little electric power.

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 supplied the 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)

Turning On the Projector

1 Complete peripheral connections (with a computer, VCR, etc.) before turning on the projector.

2 Connect the projector's AC power cord into an AC outlet. The POWER indicator lights green.

3 Press the ON/STAND-BY button on the top control or the ON button on the remote control. The LAMP indicator lights red and the cooling fans start to operate. The preparation display appears on the screen and the count down starts.

4 After the countdown, the input source that was selected the last time and the lamp control status icon (see page 49) appear on the screen.

If the projector is locked with a PIN code, PIN code input dialog box will appear. Enter the PIN code as instructed below.

Enter a PIN code

Use the Point ▲▼ buttons on the top control or Number buttons on the remote control to enter a number.

When using top control

Use the Point ▲▼ buttons on the top control to select a number. Press the Point ▶ button to fix the number and move the red frame pointer to the next box. The number changes to "✳." Repeat this step to complete entering a four-digit number. After entering the four-digit number, move the pointer to "Set." Press the SELECT button so that you start to operate the projector.

When using remote control

Press the Number buttons on the remote control to enter a number (p.15). When you complete entering a four-digit number, the pointer moves to "Set." Press the SELECT button so that you can start to operate the projector.

If you fixed an incorrect number, use the Point ◀ button to move the pointer to the number you want to correct, and then enter the correct number.

If you entered an incorrect PIN code, "PIN code" and the number (✳✳✳✳) will turn red for a moment. Enter the correct PIN code all over again.

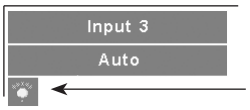
What is PIN code?

PIN (Personal Identification Number) code is a security code that allows the person who knows it to operate the projector. Setting a PIN code prevents unauthorized use of the projector.

A PIN code consists of a four-digit number. Refer to the PIN code lock function in the Setting Menu on page 51 for locking operation of the projector with your PIN code.

The preparation display will disappear after 30 seconds.

Selected Input Source and Lamp Control



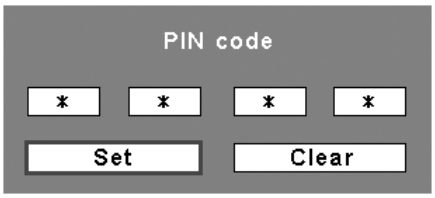
Lamp control status

See page 49 for the Lamp control status.

✔ ***Note:***

- *The Filter warning and Lamp replacement icons may appear on the screen depending on the usage state of the projector.*

PIN Code Input Dialog Box



After the OK icon disappears, you can operate the projector.

✔ ***Notes:***

- *When the Logo select function is set to "Off," the logo will not be shown on the screen (p.50).*
- *When the "Countdown off" or "Off" is selected in the Display function, the countdown will not be shown on the screen (p.52).*
- *During the countdown period, all operations are invalid.*
- *If the correct PIN code number is not entered within three minutes after the PIN code dialog box appeared, the projector will be turned off automatically.*
- *The "1234" is set as the initial PIN code at the factory.*

CAUTION ON HANDLING PIN CODE

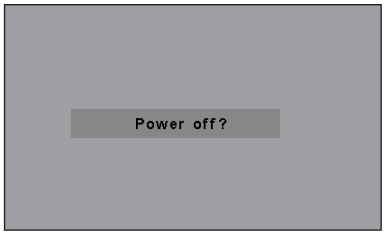
If you forget your PIN code, the projector can no longer be started. Take a special care in setting a new PIN code; write down the number in a column on page 76 of this manual and keep it at hand. Should the PIN code be missing or forgotten, consult your dealer or service center.

Turning Off the Projector

1 Press the ON/STAND-BY button on the top control or the STAND-BY button on the remote control, and "Power off?" appears on the screen.

2 Press the ON/STAND-BY button or the STAND-BY button on the remote control again to turn off the projector. The LAMP indicator turns off and the POWER indicator starts to blink green. After the projector is turned off, the cooling fans operates for 90 seconds. During the POWER indicator is blinking, you cannot turn on the projector.

3 When the projector has cooled down enough, the POWER indicator stops blinking and you can turn on the projector. After it is cooled down completely, unplug the AC power cord.



"Power off?" disappears after 4 seconds.

TO MAINTAIN LIFE OF THE LAMP, ONCE YOU TURN THE PROJECTOR ON, WAIT AT LEAST FIVE MINUTES BEFORE TURNING IT OFF.
DO NOT UNPLUG THE AC POWER CORD WHILE THE COOLING FANS ARE RUNNING OR BEFORE THE POWER INDICATOR STOPS BLINKING. OTHERWISE IT WILL RESULT IN SHORTENING THE LAMP LIFE.

DO NOT OPERATE THE PROJECTOR CONTINUOUSLY WITHOUT REST. CONTINUOUS USE MAY RESULT IN SHORTENING THE LAMP LIFE. TURN OFF THE PROJECTOR AND LET STAND FOR ABOUT AN HOUR IN EVERY 24 HOURS.

✔ ***Notes:***

- *When the On start function is set to "On," the projector will be turned on automatically by connecting the AC power cord to an AC outlet (p.53).*
- *The running speed of cooling fans is changed according to the temperature inside the projector.*
- *Do not put the projector in a case before the projector is cooled enough.*
- *If the WARNING TEMP. indicator blinks or all the five indicators on the top panel blink, see "Warning Indicators" on page 61.*
- *While the POWER indicator is blinking, the lamp is being cooled down and the projector cannot be turned on. Wait until the POWER indicator stops blinking to turn on the projector again.*

25

How to Operate the On-Screen Menu

The projector can be adjusted or set via the On-Screen Menu. For each adjustment and setting procedure, refer to the respective sections in this manual.

1 Press the MENU button on the top control or the remote control to display the On-Screen Menu.

2 Use the Point ◀▶ buttons to select a Menu icon. Use the Point ▲▼ buttons to select an item to in the selected menu.

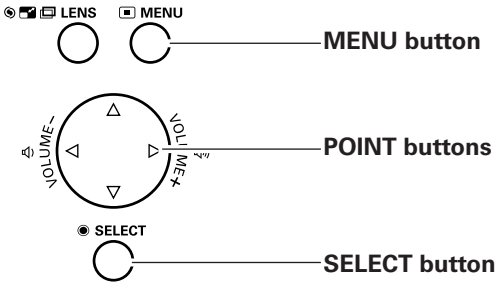
3 Press the SELECT button to show the item data. Use the Point ◀▶ buttons to adjust the values.

To close the On-Screen Menu, press the MENU button again.

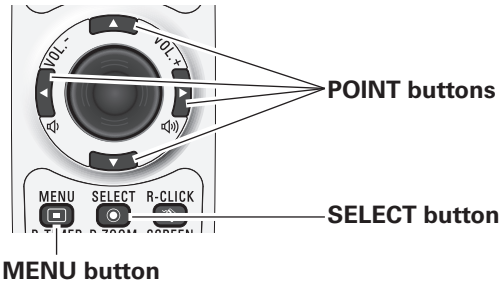
✔***Note:***

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

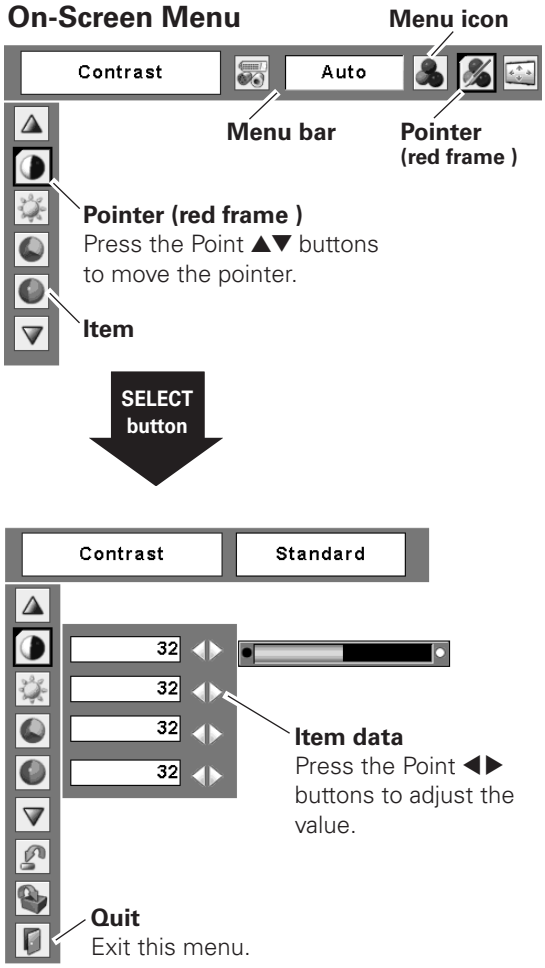
Top Control



Remote Control



On-Screen Menu



Menu Bar

For detailed functions of each menu, see "Menu Tree" on pages 66–67.
*The menu bar displays changes depending on the input signals.

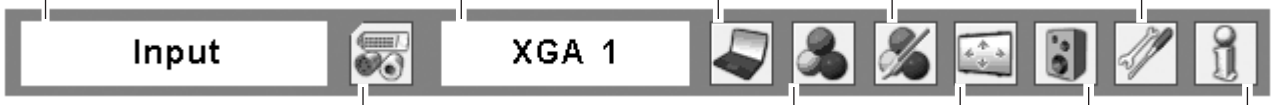
Guide Window
Show the selected Menu of the On-Screen Menu.

System
Select a computer or video system mode (pp.36, 37).

[PC Adjust]
Adjust parameters to match with an input signal format (pp.38–40)

Image Adjust
Adjust the picture image (pp.42–44).
– Contrast
– Brightness
– <Color>
– <Tint>
– Color temp.
– White balance (R/G/B)
– Sharpness
– Gamma
– <Noise reduction>
– <Progressive>
– Reset
– Store
– Quit

Setting Menu
Set the projector's operating configurations (pp.49–57).
– Language
– Logo
– Background
– Lamp control
– Pointer
– Remote Control
– RC sensor
– Display
– Power management
– On start
– Fan control
– Security
– Test pattern
– Warning log
– Lamp counter
– Filter counter
– Factory default
– Quit



Input
Select either Computer or Video for input source (pp.34–35).

Image
Select an image level (p. 41).
– Dynamic
– Standard
– [Real]
– <Cinema>
– Image 1–4

Screen
Adjust the screen (pp.45–47).
– Keystone
– Ceiling
– Rear
– Normal
– [True]
– Wide
– [Full screen]
– Custom
– [Digital zoom +/–]

Sound
Adjust the volume or mute the sound (p.29).

Information
Display the input source information (p.28).

Note: [For PC input only.]
<For AV input only.>

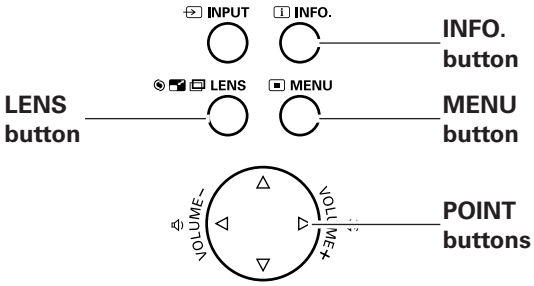
Operating with Projector Control

Lens Operation

The following lens operation can be made with the Lens button on the top control.

Press the Lens button to enter each lens operation mode. The selected adjustment display appears on the screen.

Top Control

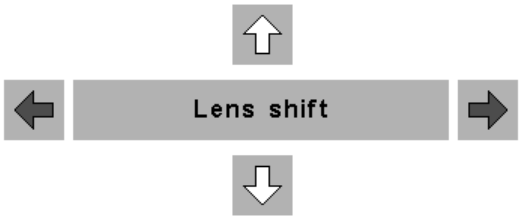


Lens Shift Adjustment

Display "Lens shift" on the screen. Use the Point ▲▼◀▶ buttons to position the screen to the desired point without having picture distortion.
The screen can be moved up or down to 50 percent, or sideways up to 15 percent from the central axis of the lens shift.

✔ ***Note:***

- *The arrow disappears at the maximum lens shift in each direction.*



Zoom Adjustment

Display "Zoom" on the screen. Use the Point ▲▼ buttons to zoom in and out the image.

Focus Adjustment

Display "Focus" on the screen. Use the Point ▲▼ buttons to adjust focus of the image.

Information

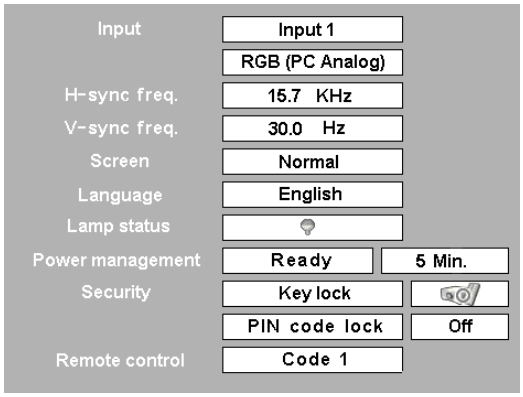
Information display can be used to confirm the current operating condition of the projector and the signal being projected through the projector.

Press the INFO. button on the top control or remote control to display the information window on the screen. To hide the information window, press the INFO. button again or Point ◀▶ buttons.

The information window can also be selected from the menu.

Information Menu

Information Menu



* The H- and V-sync freq. values described in this figure may be different from the actual values.

Sound Adjustment

Direct Operation

Volume

Press the VOLUME+/– buttons on the top control or on the remote control to adjust the volume. The volume dialog box appears on the screen for a few seconds.

Mute

Press the MUTE button on the remote control to temporarily turn off the sound. To turn the sound back on, press the MUTE button again or press the VOLUME +/– buttons. The Mute function is also effective for the AUDIO OUT jack.

Menu Operation

1 Press the MENU button to display the On-Screen Menu. Use the Point ◀▶ buttons to move the red frame pointer to the Sound Menu icon.

2 Use the Point ▲▼ buttons to move the red frame pointer to the desired item, and then press the SELECT button.

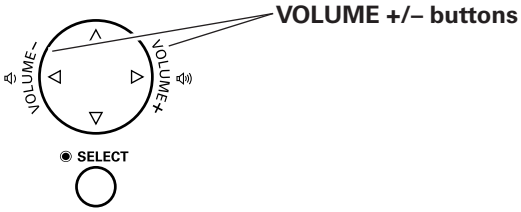
Volume

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

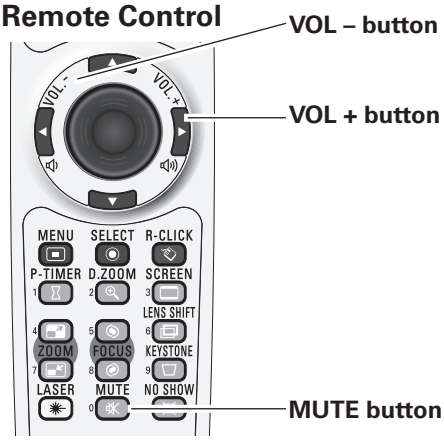
Mute

Press the Point ◀▶ buttons to switch the mute function On/Off. When the sound is turned off, "On" is displayed. Press the Point ◀▶ buttons again to turn the sound back on.

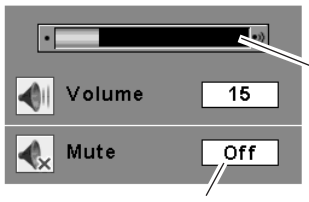
Top Control



Remote Control



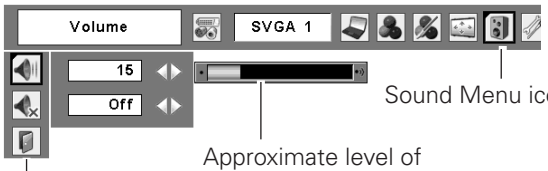
Volume Dialog Box



Approximate level of the volume.

Press the MUTE button to set the Mute function On or Off. The dialog box disappears after 4 seconds.

Sound Menu



Sound Menu icon

Approximate level of the volume.

Exit the Sound Menu.

Operating with Remote Control

Using the remote control for some frequently used operations is advisable. Just pressing one of the buttons enables you to make the desired operation quickly without calling up the On-Screen Menu.

FREEZE button

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

AUTO PC button

Press the AUTO PC button on the remote control to operate the Auto PC Adj. function. The computer screen adjustment can be done easily by pressing this button. See page 38 for details.

INFO. button

See page 28 for details.

D.ZOOM button

Press the D.ZOOM buttons on the remote control to enter to the Digital zoom +/– mode. See page 47 for details.

SCREEN button

Press the SCREEN buttons on the remote control to select the desired screen size. The selected screen size symbol appears on the screen for 4 seconds. See pages 46–48 for details.

LENS SHIFT button

See page 28 for details.

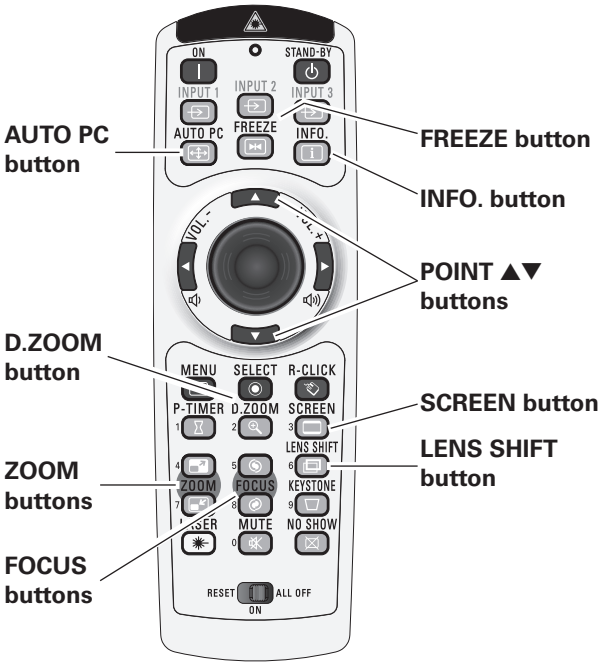
ZOOM buttons

Press the ZOOM buttons on the remote control to zoom in and out the image.

FOCUS buttons

Press the FOCUS buttons on the remote control to adjust focus of the image.

Remote Control

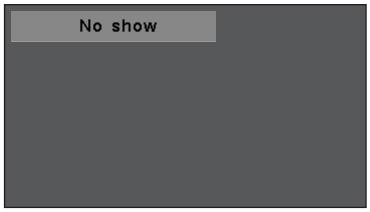


✔ ***Note:***

- *See the next page for the description of other buttons.*

NO SHOW button

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.



"No show" disappears after 4 seconds.

P-TIMER button

Press the P-TIMER button on the remote control. The P-Timer display "00:00" appears on the screen and the countdown starts (00:00–59:59).
To stop the countdown, press the P-TIMER button. To cancel the P-Timer function, press the P-TIMER button again.

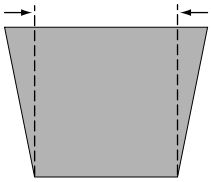
P-Timer display

KEYSTONE button

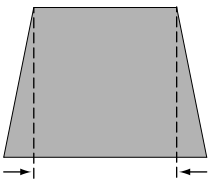
Press the KEYSTONE button on the remote control. The "Keystone" appears on the screen.

Use the Point ▲▼ buttons to correct keystone distortion. The keystone adjustment can be stored (see page 45).

Reduce the upper width with the Point ▲ button.

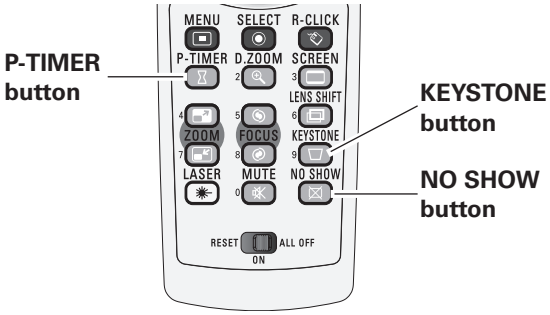


Reduce the lower width with the Point ▼ button.



- The white arrows indicate that there is no correction.
- A red arrow indicates the direction of correction.
- An arrow disappears at the maximum correction.
- If you press the KEYSTONE button on the remote control once more while the keystone dialog box is being displayed, the keystone adjustment will be canceled.

Remote Control



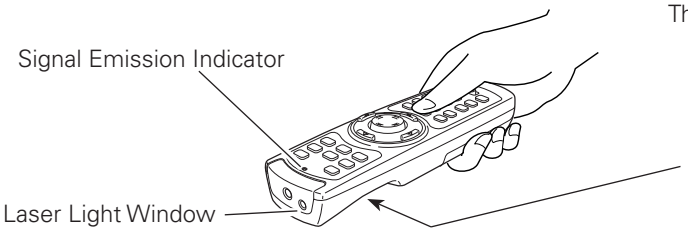
✔ ***Note:***

- *See the previous page for the description of other buttons.*

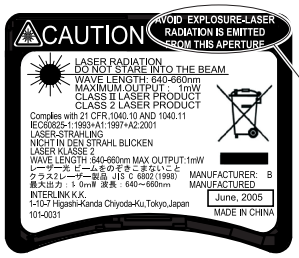
Laser Pointer Function

This remote control emits a laser beam from the laser light window. Press the LASER button to activate the laser pointer. The signal emission indicator lights red and the red laser beam is emitted. If the LASER button is pressed for more than one minute or if it is released, the laser light goes off.
The laser emitted is a Class II laser. Do not look into the laser light window or point the laser beam at yourself or other people. The following is the caution label for the laser beam.

CAUTION: Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. Never look directly into the laser light window while a laser is emitted, otherwise eye damage may result.



The caution label is put on the remote control.



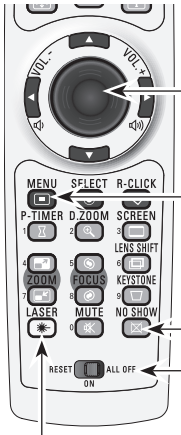
Pointer Function

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

1 Press and hold the MENU and NO SHOW buttons for more than 10 seconds to activate the Pointer function. (The Laser pointer has switched to the Pointer function.)

2 Press the LASER button on the remote control pointing toward the projector. The Spotlight or Pointer is displayed on the screen with the LASER button lighting green. Then move the Spotlight or Pointer with the PRESENTATION POINTER button. If the LASER button does not light green and continues to emit a laser beam, try the abovementioned procedure until the LASER button lights green.

3 To clear the Spotlight or Pointer out the screen, press the LASER button pointing toward the projector and see if the LASER button lighting is turned off.
To switch to the Laser pointer again, press and hold the NO SHOW and MENU buttons for more than 10 seconds or slide the RESET/ON/ALL-OFF switch to "RESET" and then to "ON".
When you reset the Pointer function, the remote control code will be reset, as well.



PRESENTATION POINTER button

MENU button

Press and hold the MENU and NO SHOW buttons for more than 10 seconds.

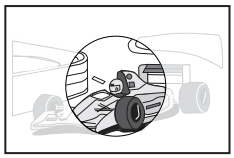
NO SHOW button

RESET/ON/ALL OFF Switch

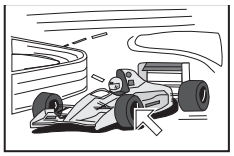
LASER button

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

Spotlight



Pointer



✔ ***Note:***

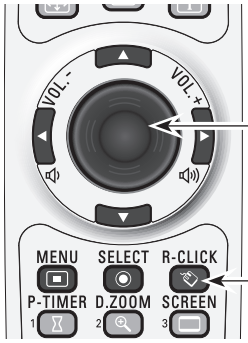
- *You can choose the size of Spotlight (Large/Middle/Small) and the pattern of Pointer (Arrow/Finger/Dot) in the Setting Menu. See "Pointer" on page 49.*

Wireless Mouse Operation

The remote control can be used as a wireless mouse for your computer.

1 Before operating the wireless mouse, connect your computer and the projector with the supplied USB cable (p. 20).
When the Pointer function is used, the wireless mouse is not available.

2 When a USB cable is connected to the computer and the projector, turn on the projector first, then the computer. If you turn on the computer first, the wireless mouse function may not operate properly.

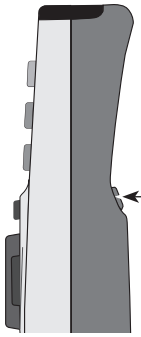


PRESENTATION POINTER button

Move the pointer on the screen with this button.

R-CLICK button

Acts as right (click) mouse button while the projector and a computer are connected with a USB cable.

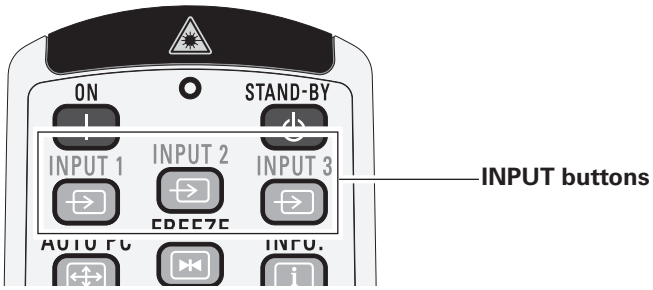


L-CLICK button

Acts as left (click) mouse button while the projector and a computer are connected with a USB cable.

Input

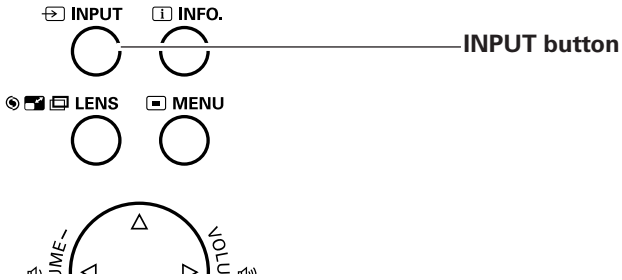
Remote Control



Remote Control Operation

Press the INPUT 1, INPUT 2, or INPUT 3 buttons on the remote control. The input source appears on the screen as you press each button. Select the connected input source.

Top Control

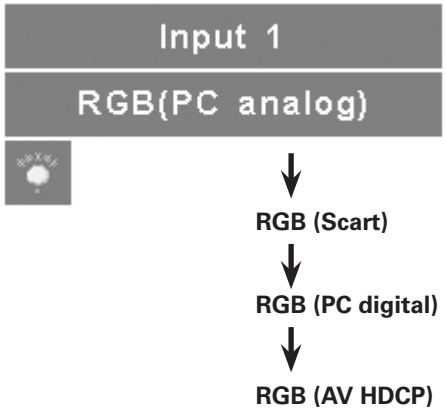


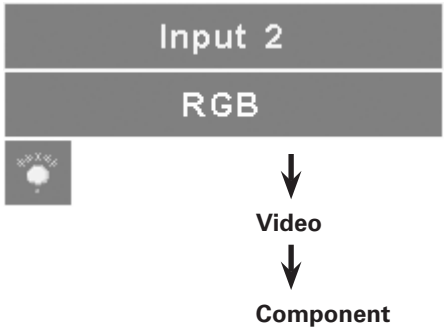
Top Control Operation

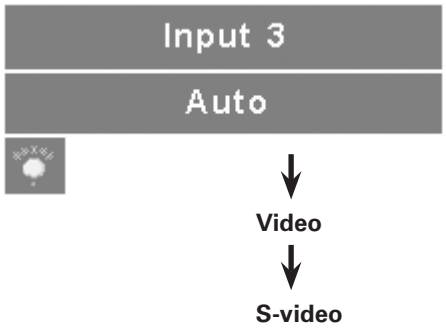
Press the INPUT button on the top control. It switches to INPUT 1, INPUT 2, and INPUT 3 as you press the INPUT button.

Before using the INPUT button on the top control, you must select a correct input source by On-Screen Menu and the latest input source will be displayed.

Remote Control button operation







Input Source Selection

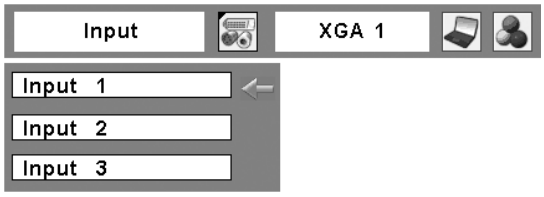
Menu Operation

1 Press the MENU button to display the On-Screen Menu. Use the Point ◀▶ buttons to move the red frame pointer to the Input Menu icon.

2 Use the Point ▲▼ buttons to move the red arrow pointer to the desired input and then press the SELECT button. The signal format menu appears.

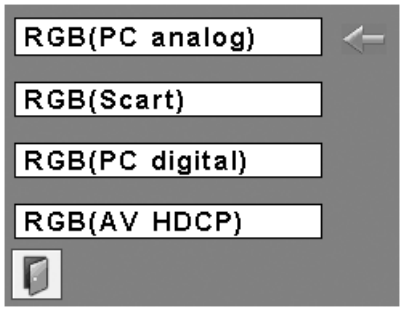
3 Use the Point ▲▼ buttons to select the desired signal format and then press the SELECT button.

Input Menu



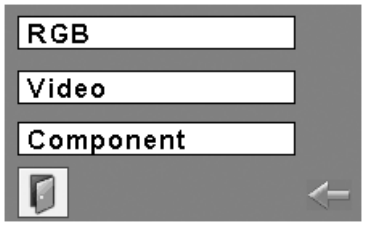
INPUT 1

RGB (PC analog)	When the RGB PC (analog) signal is connected
RGB (Scart)	When the RGB PC (scart) signal is connected
RGB (PC digital)	When the RGB PC (digital) signal is connected.
RGB (AV HDCP)	When the HDCP video signal is connected.



INPUT 2

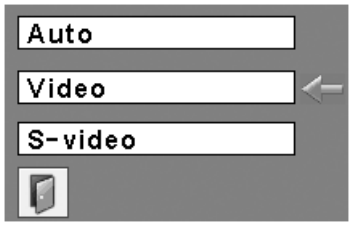
RGB	When the RGB PC signal is connected.
Video	When the RGB video signal is connected.
Component*	When the component signal is connected.



* If the projector cannot reproduce proper video image, select a system manually (see "Video System Selection" on page 36).

INPUT 3

Auto	When selecting Auto, the projector automatically detects an incoming video signal and adjusts itself to optimize its performance. The projector selects the connection in the following order: 1. S-video 2. Video
Video*	When the video signal is connected.
S-video*	When the S-video signal is connected.



* If the projector cannot reproduce proper video image, select a system manually (see "Video System Selection" on page 36).

Video System Selection

1 Press the MENU button to display the On-Screen Menu. Use the Point ◀▶ buttons to move the red frame pointer to the AV System Menu icon.

2 Use the Point ▲▼ buttons to move the red arrow pointer to the desired system and then press the SELECT button.

Video or S-Video

Auto
The projector automatically detects an incoming video system, and adjusts itself to optimize its performance. When Video System is PAL-M or PAL-N, select the system manually.

PAL/SECAM/NTSC/NTSC4.43/PAL-M/PAL-N
If the projector cannot reproduce proper video image, select a specific broadcast signal format from among PAL, SECAM, NTSC, NTSC 4.43, PAL-M, and PAL-N.

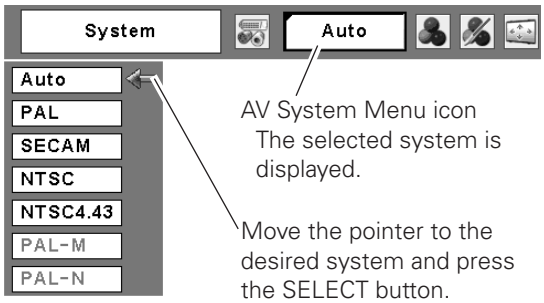
Component

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

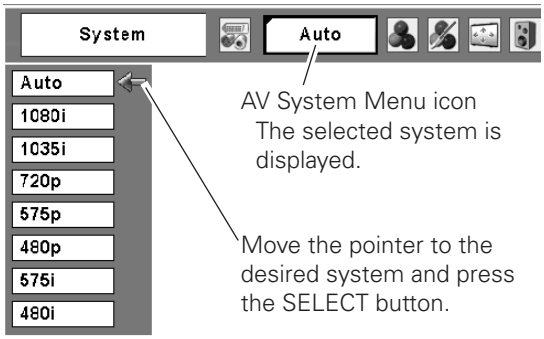
COMPONENT VIDEO SIGNAL FORMAT
If the projector cannot reproduce proper video image, select a specific component video signal format from among 480i, 575i, 480p, 575p, 720p, 1035i, and 1080i.

✔ ***Note:***
- *The AV System Menu cannot be selected when selecting RGB (Scart).*

AV System Menu (Video or S-Video)



AV System Menu (Component)



Computer System Selection

This projector automatically tunes to various types of computers based on VGA, SVGA, XGA, SXGA, WXGA, or UXGA with its Multi-scan system and Auto PC Adjustment. If a computer is selected as a signal source, this projector automatically detects the signal format and tunes to project a proper image without any additional settings. (Signal formats provided in this projector are shown on pages 70–71.)

One of the following messages may appear when:

Auto The projector cannot recognize the connected signal conforming to the provided PC Systems. The "Auto" is displayed on the System Menu box and the Auto PC Adjustment function works to display proper images. If the image is not projected properly, a manual adjustment is required (pp.40–41).

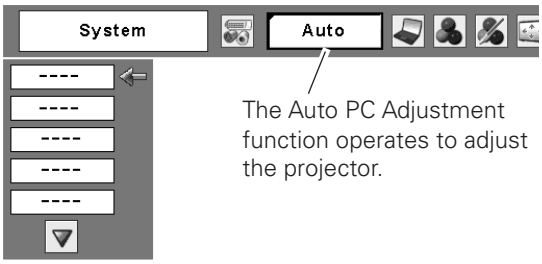
----- There is no signal input from the computer. Check the connection between your computer and the projector. (See "Troubleshooting" on page 63.)

Mode 1 The preset system is manually adjusted in the PC Adjust Menu. The adjusted data can be stored in Mode 1–10 (pp.39–40).

SVGA 1 PC Systems provided in this projector is chosen. The projector chooses a proper system provided in the projector and displays it.

*Mode 1 and SVGA 1 are examples.

PC System Menu



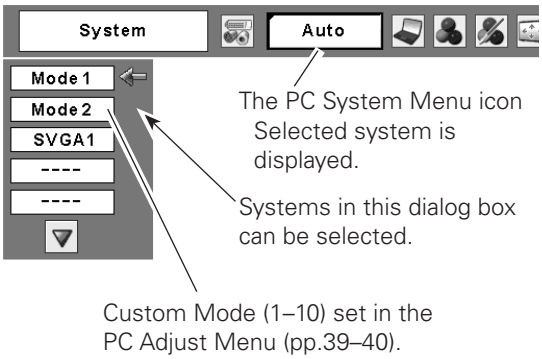
Selecting Computer System Manually

PC system can also be selected manually.

1 Press the MENU button to display the On-Screen Menu. Use the Point ◀▶ buttons to move the red frame pointer to the PC System Menu icon.

2 Use the Point ▲▼ buttons to move the red arrow pointer to the desired system and then press the SELECT button.

PC System Menu



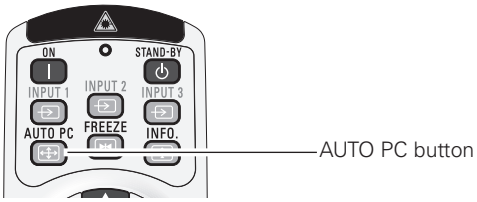
Auto PC Adjustment

Auto PC Adjustment function is provided to automatically adjust Fine sync, Total dots, Horizontal and Vertical positions to conform to your computer.

Direct Operation

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

Remote Control



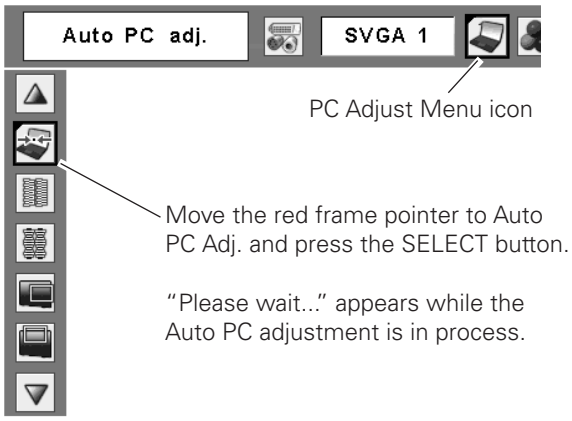
Menu Operation

Auto PC Adj.

1 Press the MENU button to display the On-Screen Menu. Use the Point ◀▶ buttons to move the red frame pointer to the PC Adjust Menu icon.

2 Use the Point ▲▼ buttons to move the red frame pointer to Auto PC Adj. and then press the SELECT button twice.

PC Adjust Menu



To store adjustment parameters

The adjusted parameters from the Auto PC Adjustment can be stored in the projector. Once the parameters are stored, the setting can be done just by selecting a Mode (1–10) in the PC System Menu (see page 37). See also "Store" on page 40.

✔ ***Notes:***

- *Fine sync, Total dots, Horizontal and Vertical position of some computers cannot be fully adjusted with the Auto PC Adjustment function. When the image is not provided properly with this operation, manual adjustments are required (pp.39–40).*
- *The Auto PC Adjustment cannot be operated when 480i, 575i, 480p, 575p, 720p,1035i, or 1080i is selected in the PC System Menu (p.37), or when the signal is coming from the DVI-terminal.*

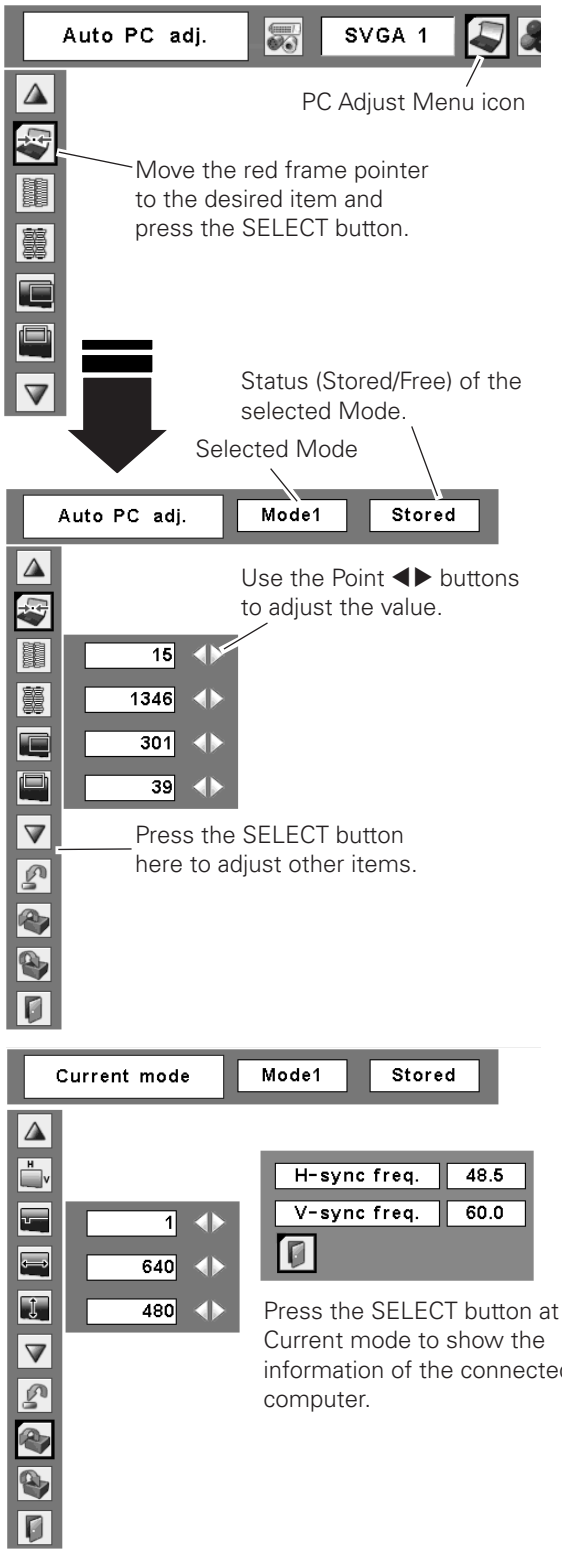
Manual PC Adjustment

Some computers employ special signal formats which may not be tuned by Multi-scan system of this projector. Manual PC Adjustment enables you to precisely adjust several parameters to match those signal formats. The projector has 10 independent memory areas to store those parameters manually adjusted. It allows you to recall the setting for a specific computer.

1 Press the MENU button to display the On-Screen Menu. Use the Point ◀▶ buttons to move the red frame pointer to the PC Adjust Menu icon.

2 Use the Point ▲▼ buttons to move the red frame pointer to the desired item and then press the SELECT button to display the adjustment dialog box. Use the Point ◀▶ buttons to adjust the setting value.

PC Adjust Menu



Fine sync

Use the Point ◀▶ buttons to adjust the value, eliminating a flicker from the image displayed (from 0 to 31).

Total dots

Use the Point ◀▶ buttons to adjust the number of total dots in one horizontal period to match your PC image.

Horizontal

Use the Point ◀▶ buttons to adjust the horizontal picture position.

Vertical

Use the Point ◀▶ buttons to adjust the vertical picture position.

Current mode

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

Clamp

Use the Point ◀▶ buttons to adjust the clamp level. When the image has dark bars, try this adjustment.

Display area H

Use the Point ◀▶ buttons to adjust the horizontal area displayed by this projector.

Display area V

Use the Point ◀▶ buttons to adjust the vertical area displayed by this projector.

Reset

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

Mode free

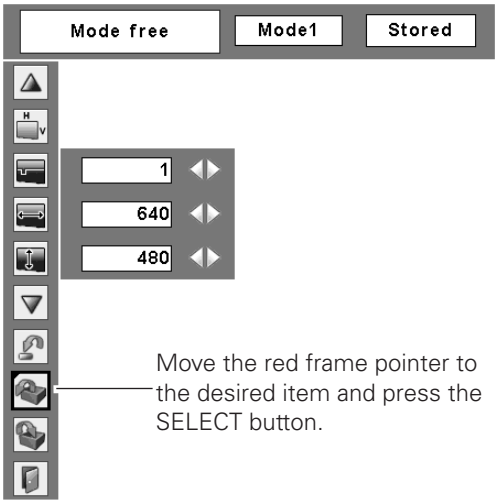
To clear the stored data, select Mode free and then press the SELECT button. Move the red arrow pointer to the Mode that you want to clear and then press the SELECT button.

Store

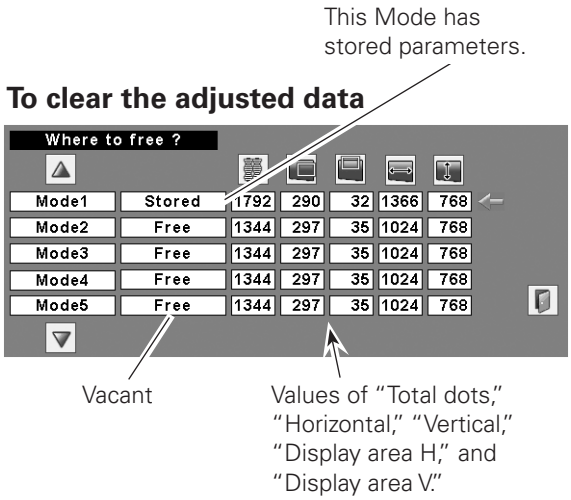
To store the adjusted data, select Store and then press the SELECT button. Move the red arrow pointer to one of the Modes 1 to 10 in which you want to store, and then press the SELECT button.

Quit

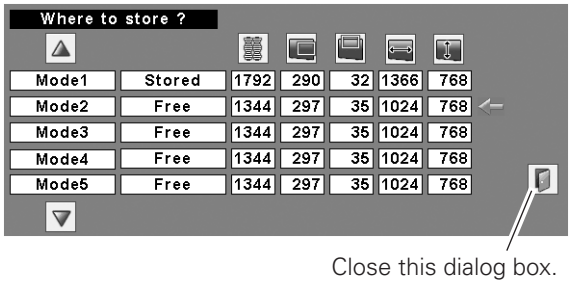
Exit the PC Adjust Menu.



To clear the adjusted data



To store the adjusted data



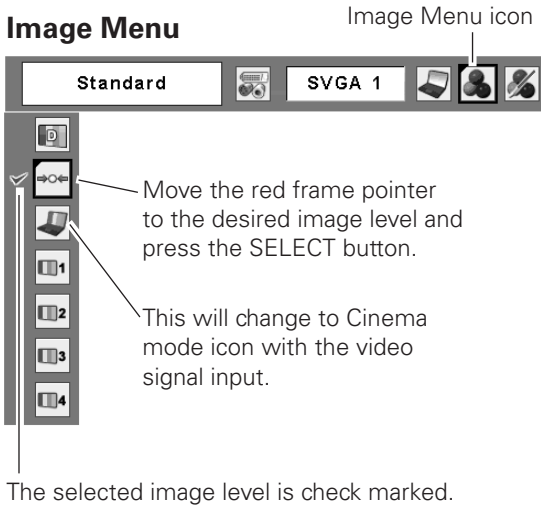
✔ ***Notes:***

- *Display area (H/V) cannot be selected when 480i, 575i, 480p, 575p, 720p, 1035i, or 1080i is selected in the PC System Menu (p.37).*
- *PC Adjust Menu cannot be selected when Input 1[RGB (PC digital)] is selected in the Input Menu (p.35).*

Image Level Selection

1 Press the MENU button to display the On-Screen Menu. Use the Point ◀▶ buttons to move the red frame pointer to the Image Menu icon.

2 Use the Point ▲▼ buttons to move the red frame pointer to the desired image level and then press the SELECT button.



Dynamic

For viewing pictures in a bright room.

Standard

Normal picture mode preset on the projector.

Real

Picture mode with improved halftone for graphics.
(This icon is displayed with the computer signal.)

Cinema

Picture mode adjusted with fine tone.
(This icon is displayed with the video signal.)

Image 1–4

For viewing with the user preset image level in the Image Adjust Menu (see page 44).

Image Adjustment

1 Press the MENU button to display the On-Screen Menu. Use the Point ◀▶ buttons to move the red frame pointer to the Image Adjust Menu icon.

2 Use the Point ▲▼ buttons to move the red frame pointer to the desired item and then press the SELECT button to display the adjustment dialog box. Use the Point ◀▶ buttons to adjust the setting value.

Contrast

Press the Point ◀ button to decrease the contrast; press the Point ▶ button to increase the contrast (from 0 to 63).

Brightness

Press the Point ◀ button to decrease the brightness; press the Point ▶ button to increase the brightness (from 0 to 63).

Color

Press the Point ◀ button decrease the intensity of the color; press the Point ▶ button increase the intensity of the color (from 0 to 63).

Tint

Press the Point ◀▶ buttons to adjust the tint value to get a proper color balance (from 0 to 63).

Color temp.

Use the Point ◀▶ buttons to select the desired Color temp. level (High, Mid, Low, or XLow).

White balance (Red)

Press the Point ◀ button to lighten red tone; press the Point ▶ button to deepen red tone (from 0 to 63).

White balance (Green)

Press the Point ◀ button to lighten green tone; press the Point ▶ button to deepen green tone (from 0 to 63).

White balance (Blue)

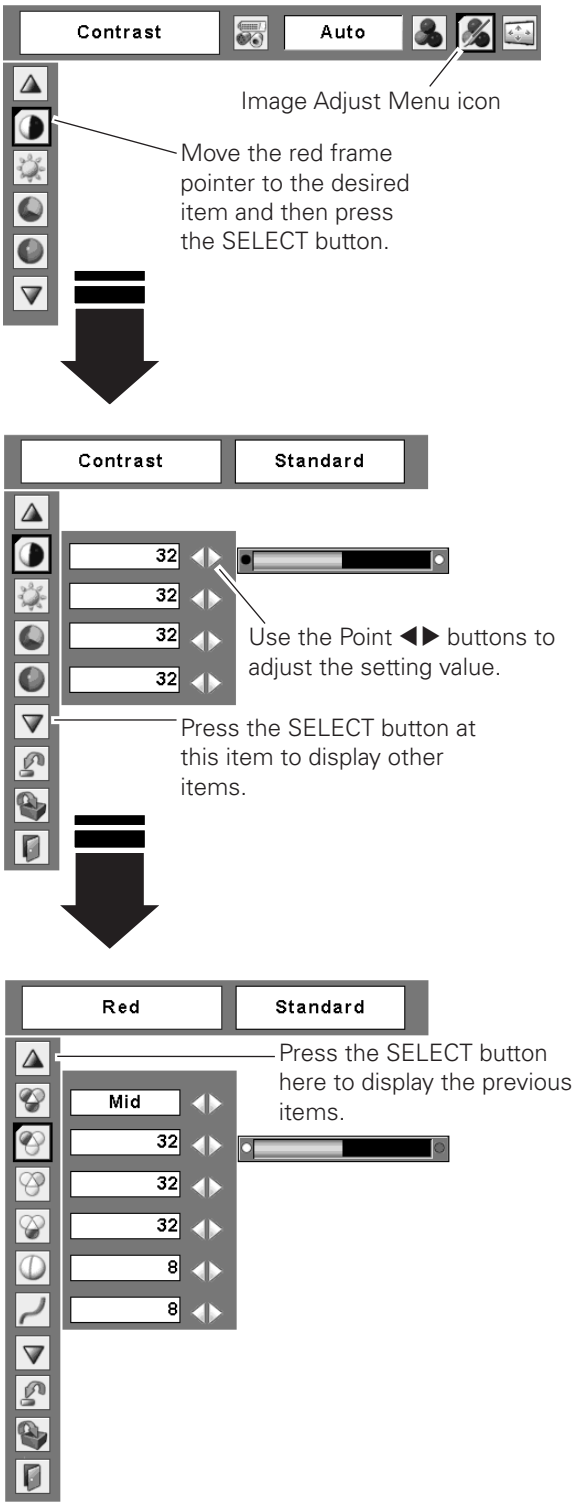
Press the Point ◀ button to lighten blue tone; press the Point ▶ button to deepen blue tone (from 0 to 63).

✔***Notes:***

- *When the White balance Red, Green, or Blue is adjusted, the Color temp. level will change to "Adj.."*
- *Tint cannot be selected when the video system is PAL, SECAM, PAL-M, or PAL-N (p.36).*
- *Each input signal has different On-Screen Menu display.*

*The figure below shows for video signal input.

Image Adjust Menu



Sharpness

Press the Point ◀ button to decrease the sharpness of the image; press the Point ▶ button to increase the sharpness of the image (from 0 to 15).

Gamma

Use the Point ◀▶ buttons to adjust the gamma value to obtain a better balance of contrast (from 0 to 15).

Noise reduction

Noise interference on the screen can be reduced. Select one of the following options to get smoother images.

Off ..... Disabled.
L1 ..... Lower reduction
L2 ..... Higher reduction

Progressive

An interlaced video signal can be displayed in progressive mode. Select one of the following options.

Off ..... Disabled.
L1 ..... For an active picture.
L2 ..... For a still picture.
Film..... For watching a film. With this function, the projector reproduces pictures faithful to the original film quality.

✔ ***Notes:***

- *Noise reduction and Progressive cannot be selected when 480p, 575p, 720p, 1035i, or 1080i is selected (p.36).*
- *Reset and Store icons will be displayed when more than one adjustment is made.*

Reset

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

Store

To store the adjusted data, select Store and press the SELECT button. Use the Point ▲▼ buttons to select one from Image 1 to 4 and press the SELECT button. A confirmation box appears and then select [Yes]. Stored data can be called up by selecting an "Image (1–4)" in the Image Level Selection on page 41.

Quit

Exit the Image Adjust Menu.

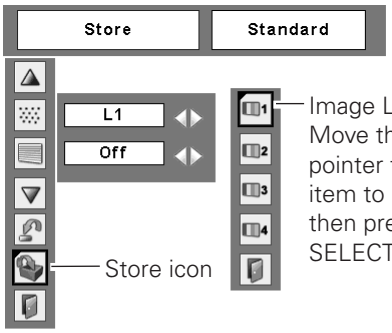
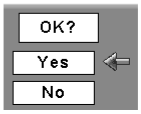


Image Level Menu
Move the red frame pointer to an image item to be set and then press the SELECT button.



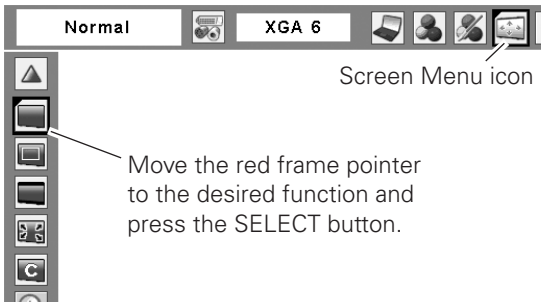
A confirmation box appears and then select [Yes].

Screen Adjustment

1 Press the MENU button to display the On-Screen Menu. Use the Point ◀▶ buttons to move the red frame pointer to the Screen Menu icon.

2 Use the Point ▲▼ buttons to move the red frame pointer to the desired function and then press the SELECT button.

Screen Menu



Keystone

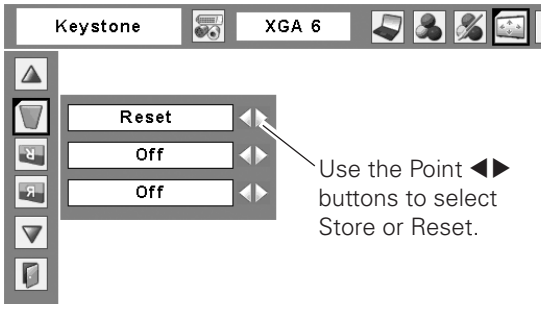
This function is used to store or reset the keystone correction when the AC power cord is unplugged. Use the Point ◀▶ buttons to switch between each option.

Store ..... Keep the keystone correction even when the AC power cord is unplugged.

Reset ..... Release the keystone correction when the AC power cord is unplugged.

To correct keystone distortion, press the SELECT button. The "Keystone" appears on the screen. Use the Point ▲▼ buttons to correct keystone distortion. (p.31)

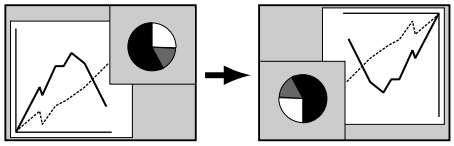
Keystone



Ceiling

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

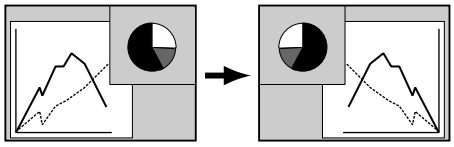
Ceiling



Rear

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

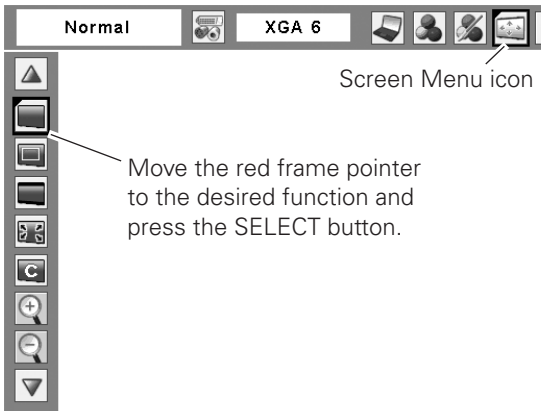
Rear



Screen Size Adjustment (Computer Signals)

Select the desired screen size that conforms to the input signal source.

Screen Menu



Normal

Provide the image to fit the screen size.

True

Provide the image in its original size. When the original image size is larger than the screen size (1024 x 768), the projector enters to the panning mode automatically. Use the Point ▲▼◀▶ buttons to pan the image. When adjusted, the arrows will turn red. When reached to the correction limits, the arrows will disappear.

Wide

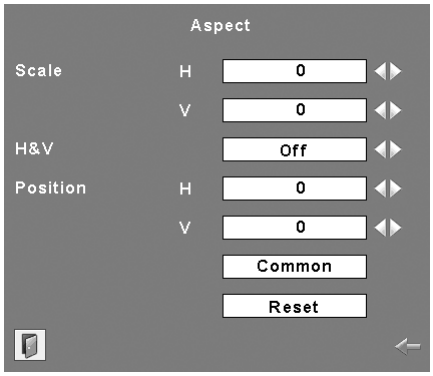
Provide the image to fit the wide video aspect ratio (16:9) by expanding the image width uniformly. This function can be used for providing a squeezed video signal at 16:9.

Full screen

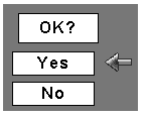
Provide the full screen image.

Custom

Adjust the screen scale and position manually with this function.
Press the SELECT button at Custom and the "Custom" is displayed on the screen for a few seconds and then the Aspect dialog box appears.



Scale H/V	Adjust the Horizontal/Vertical screen scale.
H&V	When set to "On," the aspect ratio is fixed. The "Scale V" appears dimmed and becomes unavailable. Adjust "Scale H," then the screen scale is automatically modified based on the aspect ratio.
Position H/V	Adjust the Horizontal/Vertical screen position.
Common.....	Save the adjusted scale to all the inputs. Press the SELECT button at Common to display a confirmation box. To save the scale, press the SELECT button at "Yes." When Custom is selected, the saved scale is used.
Reset	Reset the all adjusted values. Press the SELECT button at Reset to display a confirmation box. To reset, press the SELECT button at "Yes."



Press the SELECT button at Common or Reset, to display a confirmation box.

✔ ***Notes:***

- *When no signal is detected, "Normal" is set automatically and the Aspect dialog box disappears.*
- *The adjustable range for Scale H/V and Position H/V is limited depending on the input signal.*

For zooming in and out the images

Digital zoom +

Select Digital zoom +. The On-Screen Menu disappears and "D. zoom +"appears. Press the SELECT button to expand the image size. Use the Point ▲▼◀▶ buttons to pan the image. The Panning function can work only when the image is larger than the screen size.
You can also enter the Digital zoom + mode by pressing the D.ZOOM button on the remote control.

Digital zoom –

Select Digital zoom –. The On-Screen Menu disappears and "D. zoom –" appears. Press the SELECT button to compress image size.
You can also enter the Digital zoom - mode by pressing the D.ZOOM button on the remote control.

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

To return to the previous screen size, select a screen size from the Screen Menu or select an input source from the Input Menu (p.35) again, or adjust the screen size with the D.ZOOM buttons on the remote control.

✔ ***Notes:***

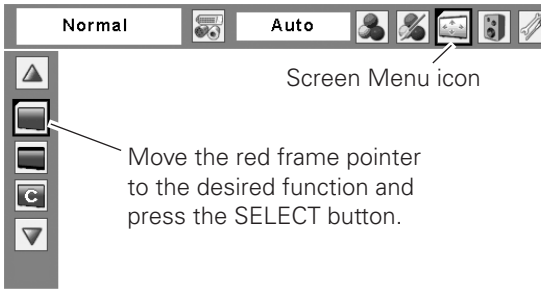
- *The projector cannot display any resolution higher than 1600 x 1200. If your computer's screen resolution is higher than that, lower the resolution before connecting to the projector.*
- *The image data other than 1024 x 768 is modified to fit the screen size in initial mode.*
- *True, Full screen, and Digital zoom +/– cannot be selected when 480i, 575i, 480p, or 575p is selected in the PC System Menu (p.37).*
- *The panning function may not be operated properly if the stored Mode in the PC Adjust Menu is used (pp.38–40).*
- *The minimum compression ratio can be limited depending on the input signal or when the Keystone function is working.*
- *Digital zoom +/– cannot be selected when Full screen or True is selected.*
- *Wide cannot be selected when 720p, 1035i, or 1080i is selected in the PC System Menu (p.37).*
- *Digital zoom - cannot be operated when Custom is selected.*

Screen Size Adjustment (Video, Component Signals)

1 Press the MENU button to display the On-Screen Menu. Use the Point ◀▶ buttons to move the red frame pointer to the Screen Menu icon.

2 Use the Point ▲▼ buttons to move the red frame pointer to the desired function and then press the SELECT button.

Screen Menu



Normal

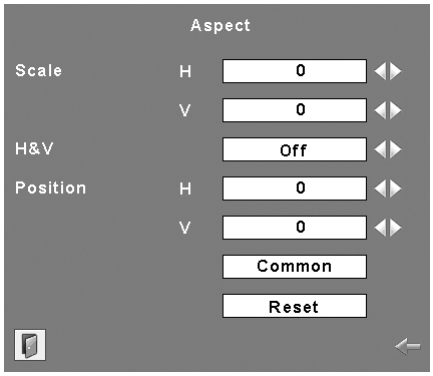
Provide the image at the 4:3 normal video aspect ratio.

Wide

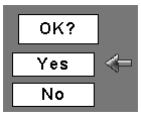
Provide the image at the 16:9 wide screen ratio.

Custom

Adjust the screen scale and position manually with this function.
Press the SELECT button at Custom and the "Custom" is displayed on the screen for a few seconds and then the Aspect dialog box appears.



Scale H/V	Adjust the Horizontal/Vertical screen scale.
H&V	When set to "On," the aspect ratio is fixed. The "Scale V" appears dimmed and becomes unavailable. Adjust "Scale H," then the screen scale is automatically modified based on the aspect ratio.
Position H/V	Adjust the Horizontal/Vertical screen position.
Common.....	Save the adjusted scale to all the inputs. Press the SELECT button at Common to display a confirmation box. To save the scale, press the SELECT button at "Yes." When Custom is selected, the saved scale is used.
Reset	Reset the all adjusted values. Press the SELECT button at Reset to display a confirmation box. To reset, press the SELECT button at "Yes."



Press the SELECT button at Common or Reset, to display a confirmation box.

✔ ***Notes:***

- *When no signal is detected, "Normal" is set automatically and the Aspect dialog box disappears.*
- *The adjustable range for Scale H/V and Position H/V is limited depending on the input signal.*
- *Wide cannot be selected when 720p, 1035i, or 1080i is selected in the AV System Menu (p.36)*

Setting

This projector has a Setting menu that allows you to set up the other various functions described below.

1 Press the MENU button to display the On-Screen Menu. Use the Point ◀▶ buttons to move the red frame pointer to the Setting Menu icon.

2 Use the Point ▲▼ buttons to move the red frame pointer to the desired item and then press the SELECT button. The Setting dialog box appears.

Language

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

Background

The selected background screen will be displayed when no input signal is detected.

Blue ..... Project a blue background
User ..... Project an image selected in the Logo setting.
Black ..... Project a black background

✔ ***Note:***

- *When no captured image is set, the "User" options is not available.*

Lamp control

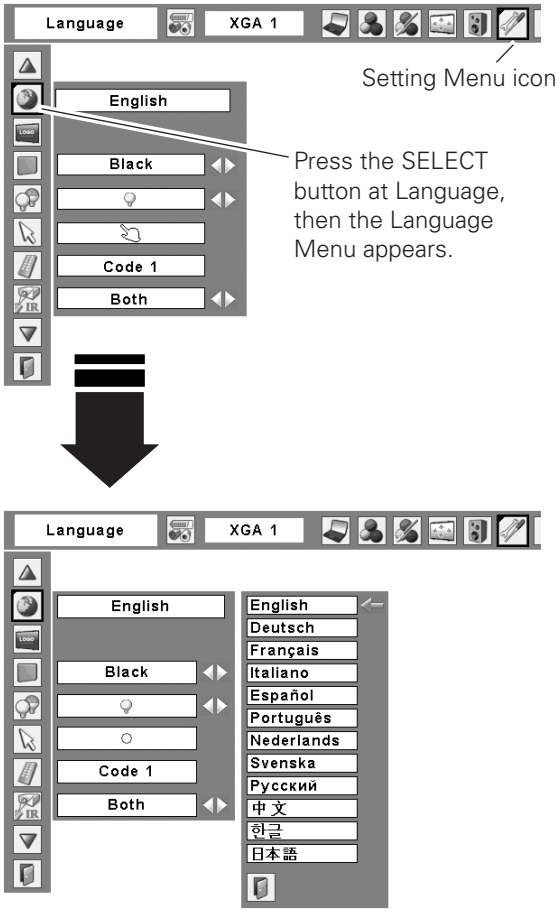
This function allows you to change brightness of the screen.

A1 Auto 1..... The brightness according to the input signal (between Normal and Eco mode).
A2 Auto 2..... The brightness according to the input signal (between High and Eco mode).
High..... Brighter than the Normal mode.
Normal ..... Normal brightness
1 Eco 1 ..... Lower brightness and Fan speed decrease. Lower brightness reduces the lamp power consumption and extends the lamp life.
2 Eco 2 ..... Lower brightness and Fan speed increase. Lower brightness reduces the lamp power consumption and extends the lamp life. It is recommended to use Eco 2 when using the projector continuously over a long period of time. The fan noise becomes louder in Eco 2 than in Eco 1. Select the suitable mode for the used environment.

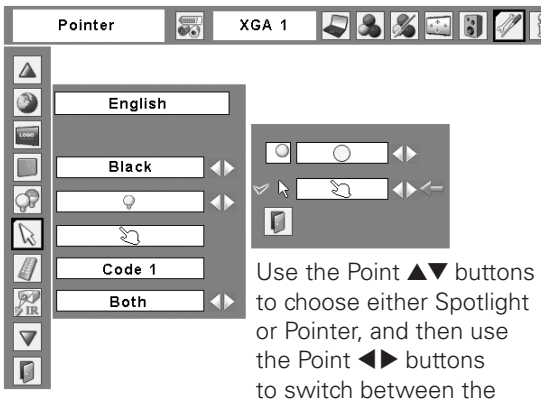
Pointer

You can emphasize a part of the projected image with this function. Use the Point ▲▼ buttons to choose either Spotlight or Pointer and press the SELECT button. Then use the Point ◀▶ buttons to select a size of the Spotlight (Large, Middle, or Small) or a pattern of the Pointer (Arrow, Finger, or Dot). (See page 32 for operation.)

Setting Menu (Language)



Pointer



Use the Point ▲▼ buttons to choose either Spotlight or Pointer, and then use the Point ◀▶ buttons to switch between the options.

Logo (Logo and Logo PIN code lock settings)

This function allows you to customize the screen logo with Logo select, Capture, and Logo PIN code lock functions.

✔***Note:***

- *When "On" is selected in the Logo PIN code lock function, Logo select and Capture functions cannot be selected.*

Logo select

This function decides on the starting-up display from among following options.

User..... Show the image you captured
Default..... Show the factory-set logo
Off ..... Show the countdown display only

Capture

This function enables you to capture an image being projected to use it for a starting-up display or interval of presentations.

Select Capture and press the SELECT button.
A confirmation box appears and select [Yes] to capture the projected image.

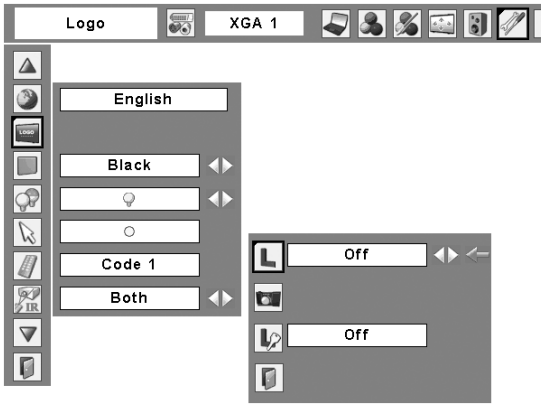
After capturing the projected image, go to the Logo select function and set it to "User". Then the captured image will be displayed the next time you turn on the projector or when you press the NO SHOW button (see page 31).

To cancel the Capture function, select [No].

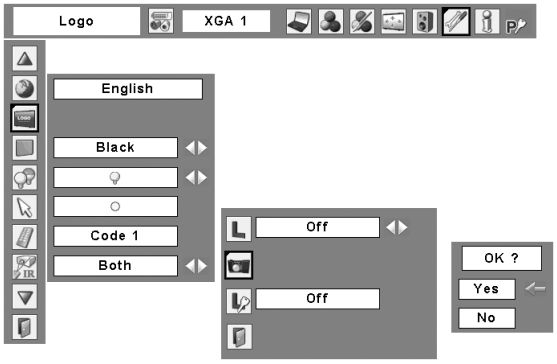
✔***Notes:***

- *Before capturing an image, select "Standard" in the Image Menu to capture a proper image (p.41).*
- *A signal from a computer can be captured up to XGA (1024 x 768). A signal from video equipment can be captured except for 720p, 1035i, and 1080i.*
- *When capturing the image that has been adjusted by the Keystone function, the adjusted data is automatically reset and the projector captures an image without keystone correction.*
- *When the Logo PIN code lock function is set to "On," the Capture function cannot be selected.*
- *When starting to capture a new image, the previously stored image is cleared even if you cancel the capturing.*
- *"User" cannot be selected when the image is not captured.*

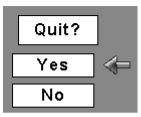
Logo



Capture



Select [Yes] to capture the projected image.



Select [Yes] to stop capturing.

Logo PIN code lock

This function prevents an unauthorized person from changing the screen logo.

Off ..... The screen logo can be changed freely from the Logo Menu (p.54).
On..... The screen logo cannot be changed without a Logo PIN code.

If you want to change the Logo PIN code lock setting, press the SELECT button and the Logo PIN code dialog box appears. Enter a Logo PIN code by following the steps below. The initial Logo PIN code is set to "4321" at the factory.

Enter a Logo PIN code

Use the Point ▲▼ buttons on the top control or Number buttons on the remote control to enter a number.

When using top control

Use the Point ▲▼ buttons on the top control to select a number. Press the Point ▶ button to fix the number and move the red frame pointer to the next box. The number changes to "✳." Repeat this step to complete entering a four-digit number. After entering the four-digit number, move the pointer to "Set." Press the SELECT button so that you can change the Logo PIN code lock setting.

When using remote control

Press the Number buttons on the remote control to enter a number (p.15). When you complete entering a four-digit number, the pointer moves to "Set." Press the SELECT button so that you can change the Logo PIN code lock setting.

If you fixed an incorrect number, use the Point ◀ button to move the pointer to the number you want to correct, and then enter the correct number.

If you entered an incorrect PIN code, "Logo PIN code" and the number (✳✳✳✳) will turn red for a moment. Enter the correct PIN code all over again.

Change the Logo PIN code lock setting

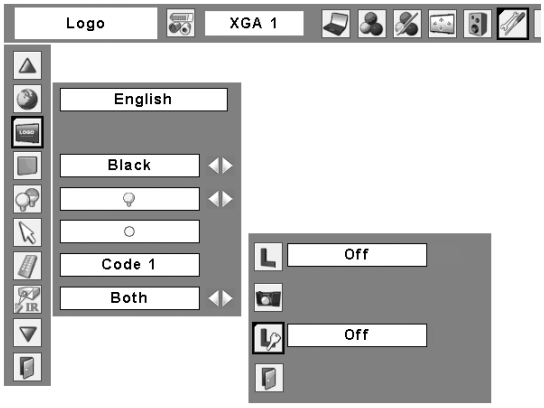
Use the Point ◀▶ button to switch On/Off, and then press the Point ▼ button to move the pointer to "Quit." Press the SELECT button to close the dialog box.

Change the Logo PIN code

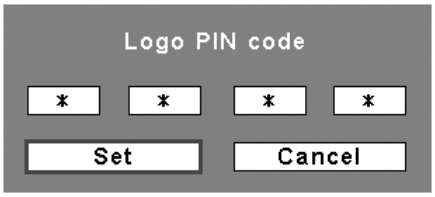
Logo PIN code can be changed to your desired four-digit number. Press the Point ▼ button to select "Logo PIN code change" and then press the SELECT button. The New Logo PIN code input dialog box appears. Set a new Logo PIN code.

Be sure to note the new Logo PIN code and keep it at hand. If you lost the number, you could no longer change the Logo PIN code setting. For details on PIN code setting, refer to "PIN code lock" on pages 55–56.

Logo PIN code lock



Enter a Logo PIN code

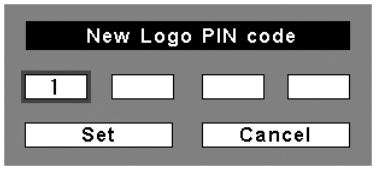


After a correct Logo PIN code is entered, the following dialog box appears.

Change the Logo PIN code lock setting

Use the Point ◀▶ buttons to switch On/Off.

Change the Logo PIN code



CAUTION:
WHEN YOU HAVE CHANGED THE LOGO PIN CODE, WRITE DOWN THE NEW PIN CODE IN COLUMN OF THE LOGO PIN CODE NO. MEMO ON PAGE 76, AND KEEP IT SECURELY. SHOULD THE LOGO PIN CODE BE LOST OR FORGOTTEN, THE LOGO PIN CODE SETTING CAN NO LONGER BE CHANGED.

Remote control

The eight different remote control codes (Code 1–Code 8) are assigned to the projector; the factory-set, initial code (Code 1) and the other seven codes (Code 2 to Code 8).

The same code should set on both the projector and the remote control. For example, operating the projector in "Code 7", the remote control code also must be switched to "Code 7".

To change the code for the projector
Select a remote control code in this Setting Menu.

To change the code for the remote control:
Press and hold the MENU button and a number button (1–8) on the remote control for more than five seconds to switch between the codes. (See page 17 for details.)

RC sensor

Select a location of the infrared remote receiver of the remote control. See "Remote Control Operating Range" on page 16 for details.

Both ..... Activate both the front and back receiver.
Front ..... Activate only the front receiver.
Back ..... Activate only the back receiver.

Display

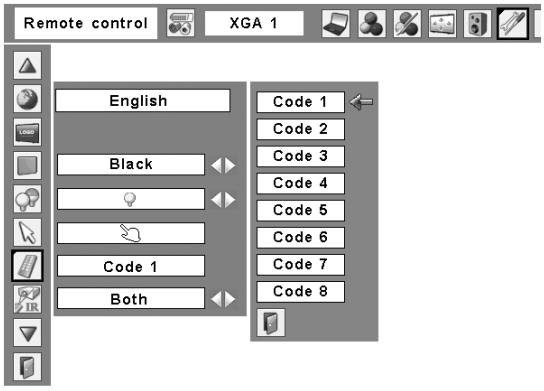
This function decides whether to display On-Screen Displays.

On..... Show all the On-Screen displays. Use this function when you want to project images after the lamp becomes bright enough. The factory default setting is in this option.

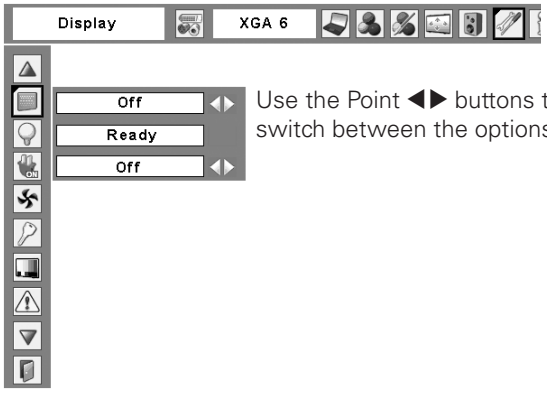
Countdown Off..... Show the input image instead of the countdown when turning on the projector. Use this function when you want to project the image as early as possible even when the lamp is not bright enough.

Off ..... Hide the On-Screen Displays except;
- On-Screen Menu
- "Power off?" (p.25)
- "No signal" for Power management (p.53)
- "Please wait ..."
- Arrows for panning mode(p.46)
- "Filter warning" icon (red) (p.69)

Remote control



Display



Use the Point ◀▶ buttons to switch between the options.

Power management

For reducing power consumption as well as maintaining the lamp life, the Power management function turns off the projection lamp when the projector is not used for a certain period.

If the input signal is interrupted and no button is pressed for more than 30 seconds, the timer display with "No signal" appears. It starts the countdown until the lamp is turned off. The countdown time can be set between 1–30 minutes. Use the Point ◀▶ buttons to set the countdown timer.

Select one of the following options:

Ready.....	When the lamp has been fully cooled down, the POWER indicator changes to fast blinking. In this condition, the projection lamp can be turned on if the input signal is reconnected or any button on the top control or remote control is pressed.
Shut down	When the lamp has been fully cooled down, the power will be turned off.
Off	Power management function is off.

✔***Note:***

- *Factory default is "Ready: 5 min."*

On start

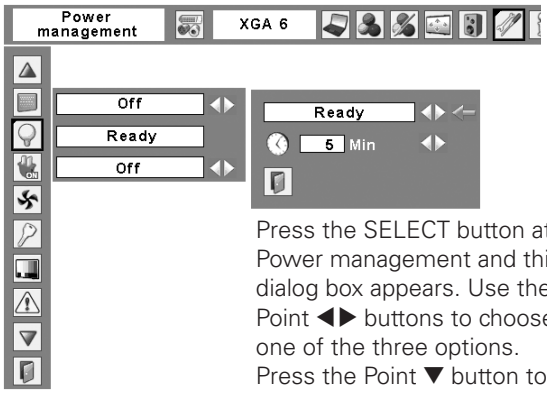
When this function is set to "On," the projector will be automatically turned on just by connecting the AC power cord to a wall outlet.

✔***Note:***

- *Be sure to turn off the projector properly (see "Turning Off the Projector" on page 25). If the projector is turned off in the incorrect sequence, the On start function does not work properly.*

Power management

Time left before the lamp is off.



Press the SELECT button at Power management and this dialog box appears. Use the Point ◀▶ buttons to choose one of the three options. Press the Point ▼ button to select the timer, and then use the Point ◀▶ buttons to set timer.

Fan control

This function is used to set the cooling fans' operation to the projector's setting environment. Set this function properly in accordance with the projector's installation method. Otherwise, the cooling fans will not work properly and that causes malfunctions of the projector and decreases the lamp life.

Slant

Select the projector's installation condition from the following options:

Off ..... When using the projector within the range of the upward/ downward inclination of 20 degrees to the horizontal plane.

L1 ..... When using the projector within the range of the upward inclination of over 20 degrees to the horizontal plane.*

L2 ..... When using the projector with downward inclination of over 20 degrees to the horizontal plane.

Highland

Set this function according to the ground elevation under which you use the projector. When using the projector in high altitudes (about 1,200 meters or more above the sea level) where the fans have less cooling effect, set this function to "On."

When "On" is selected, a confirmation box appears. If "Yes" is selected, "Please wait..." message appears for about 90 seconds and Highland will be set to "On." If "No" is selected, Highland is set to "Off."

Security (Key lock and PIN code lock settings)

This function allows you to use the Key lock and PIN code lock function to set the security for the projector operation.

Key lock

This function locks the top control and remote control buttons to prevent operation by unauthorized persons.

..... Unlocked

..... Lock all the top control buttons

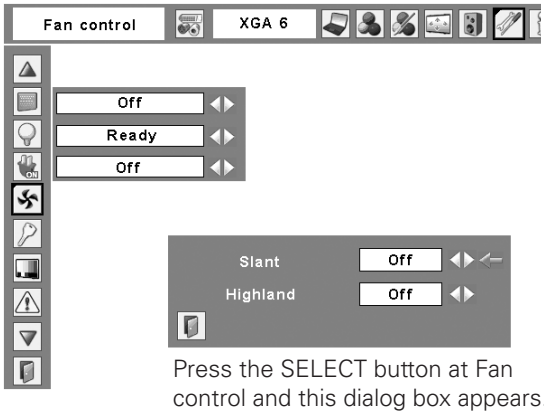
..... Lock the top control buttons except for the ON/STAND-BY, INPUT, and INFO. buttons. To unlock, use the remote control.

..... Lock all the remote control buttons. To unlock, use the top control.

..... Lock the remote control buttons except for the ON, STAND-BY, INPUT 1–3, AUTO PC, FREEZE, and INFO. buttons.

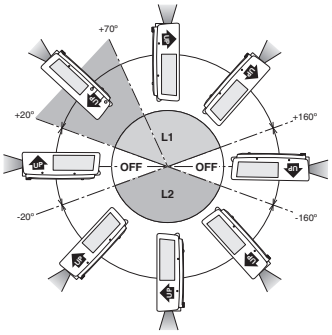
If the top control accidentally becomes locked and you do not have the remote control nearby or there is something wrong with your remote control, contact the dealer where you purchased the projector or the service center.

Fan control



Press the SELECT button at Fan control and this dialog box appears. Use the Point ▲▼ buttons to choose Slant or Highland. Use the Point ◀ ▶ buttons to switch between the options.

Fan control setting

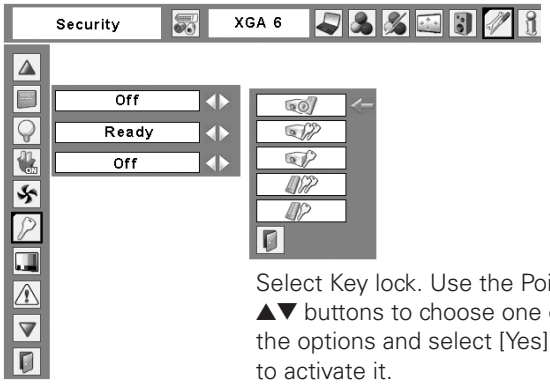


* When installing the projector in upwardly inclined position, install the projector bottom side up.

✔ ***Note:***

- *Make sure to use the clean filter when setting the Highland to "On."*
- *When "Please wait..." is on the screen, all operations are invalid except for the STAND-BY button on the remote control and ON/STAND-BY button on the top control. When "STAND-BY" is selected, Highland will be set to off.*

Key lock



Select Key lock. Use the Point ▲▼ buttons to choose one of the options and select [Yes] to activate it.

PIN code lock

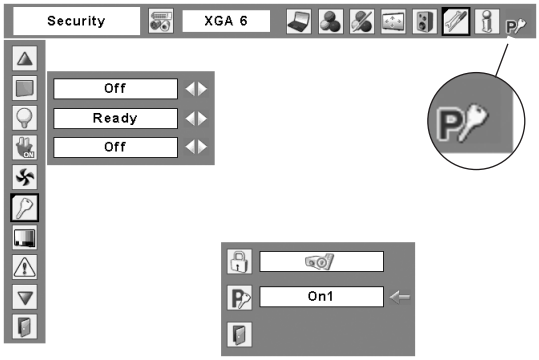
This function prevents the projector from being operated by unauthorized persons and provides the following setting options for security.

Off ..... Unlocked.
On1..... Enter the PIN code every time turning on the projector.
On2..... Enter the PIN code to operate the projector once the power cord is disconnected; as long as the AC power cord is connected, the projector can be operated without a PIN code.

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

If you want to change the PIN code lock setting, Press the SELECT button and the PIN code dialog box appears. Enter a PIN code by following the steps below.

PIN code lock



When the projector is locked with a PIN code, the PIN code lock symbol appears on the menu bar.

Enter a PIN code

Use the Point ▲▼ buttons on the top control or Number buttons on the remote control to enter a number.

When using top control

Use the Point ▲▼ buttons on the top control to select a number. Press the Point ▶ button to fix the number and move the red frame pointer to the next box. The number changes to "✳." Repeat this step to complete entering a four-digit number. After entering the four-digit number, move the pointer to "Set." Press the SELECT button so that you can change the PIN code lock setting.

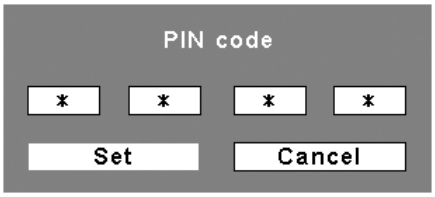
When using remote control

Press the Number buttons on the remote control to enter a number (p.15). When you complete entering a four-digit number, the pointer moves to "Set." Press the SELECT button so that you can change the PIN code lock setting.

If you fixed an incorrect number, use the Point ◀ button to move the pointer to the number you want to correct, and then enter the correct number.

If you entered an incorrect PIN code, "PIN code" and the number (✳✳✳✳) will turn red for a moment. Enter the correct PIN code all over again.

Enter a PIN code



After a correct PIN code is entered, the following dialog box appears.

Change the PIN code lock setting

Use the Point ◀▶ button to select Off, On1, or On2 and then move the pointer to "Quit" with the Point ▼ button. Press the SELECT button to close the dialog box.

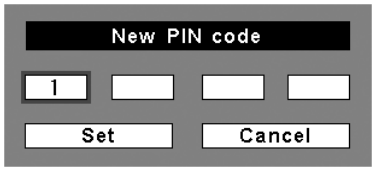
Change the PIN code lock setting

Use the Point ◀▶ buttons to switch between the options.

Change the PIN code

The PIN code can be changed to your desired four-digit number. Press the Point ▼ buttons to select "PIN code change" and press the SELECT button. The New PIN code input dialog box appears. Set a new PIN code.

Change the PIN code



CAUTION:
WHEN YOU HAVE CHANGED THE PIN CODE, WRITE DOWN THE NEW PIN CODE IN COLUMN OF THE PIN CODE NO. MEMO ON PAGE 76, AND KEEP IT SECURELY. IF YOU FORGET YOUR PIN CODE, THE PROJECTOR CAN NO LONGER BE STARTED.

Test pattern

Various test pattern are available for use when setting up the projector.

Warning log

This function records anomalous operations while the projector is in operation and use it when diagnosing faults. Up to 10 warning logs are displayed with the latest warning message at the top of the list, followed by previous warning messages in chronological order.

✔ ***Note:***

- *When the Factory default function is executed, all the warning log records will be deleted.*

Lamp counter

This function is used to reset the lamp counter.

When the lamp life is left less than 100 hours, the Lamp replacement icon appears on the screen, indicating that the end of lamp life is approaching.

When replacing the projection lamp, reset the lamp counter. See page 60 for operation.

This icon appears on the screen when the end of lamp life is approaching.

Filter counter

This function is used to set a frequency for the filter cleaning.

When the projector reached a specified time between cleanings, a Filter warning icon (yellow) appears on the screen and the WARNING FILTER indicator lights orange, notifying the cleaning is necessary. After cleaning the filter, be sure to select RESET and set the timer. The WARNING FILTER indicator and Filter warning icon will not turn off until the filter counter is reset.

For details about resetting the timer, refer to "Resetting the Filter Counter" on page 58.

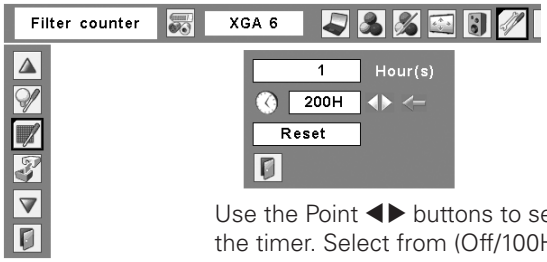
Factory default

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

Quit

Exit the Setting Menu.

Filter counter



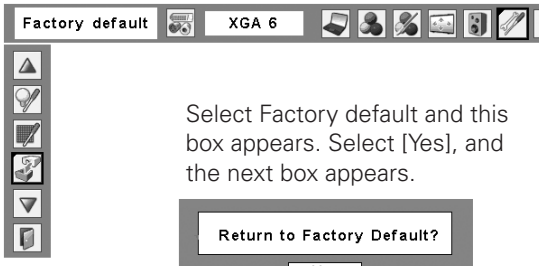
Use the Point ◀▶ buttons to set the timer. Select from (Off/100H/200H/300H) depending on the use environment.

Filter warning icon (yellow) appears on the screen at a set time.

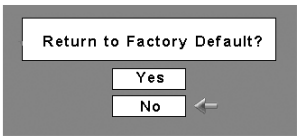
✔ ***Note:***

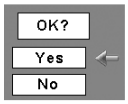
- *The Filter warning icon (yellow) will not appear when the Display function is set to "Off" (p.52), during "Freeze" (p.30), or "No show" (p.31).*

Factory default



Select Factory default and this box appears. Select [Yes], and the next box appears.





Select [Yes] to activate it.

Cleaning the Filter

Filter prevents dust from accumulating on the optical elements inside the projector. Should the filter becomes clogged with dust particles, it will reduce cooling fans' effectiveness and may result in internal heat buildup and adversely affect the life of the projector. If a "Filter warning" icon (yellow or red) appears on the screen and the WARNING FILTER indicator lights or blinks, clean the filter immediately. Clean the filter by following the steps below.

1 Turn off the projector, and unplug the AC power cord from the AC outlet.

2 First, clean up the dust on the projector and around the air vents.

3 Pull out the filter cover from the projector and then remove the filter.

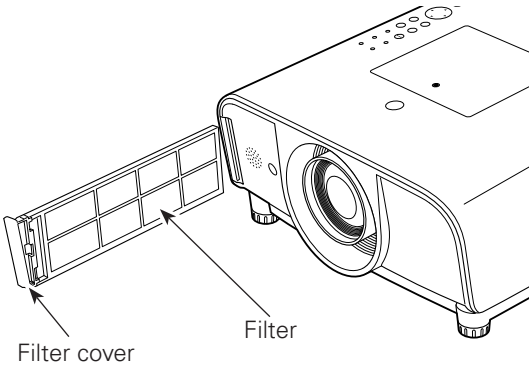
4 Gently clean the filter by using a brush or blower.

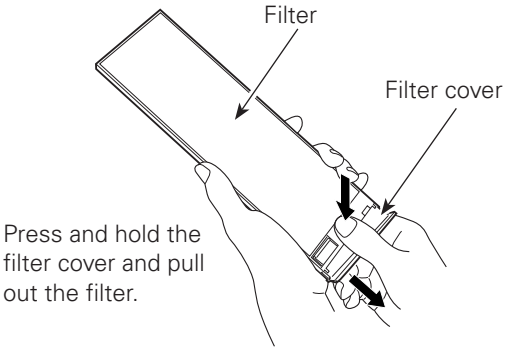
WARNING: Do not wash the filter with water and any other liquid matter. Otherwise the filter may be damaged.

5 Reinstall the filter into the projector properly.

6 Reset the filter counter in the Setting Menu. See "Resetting the Filter Counter" below.

CAUTION
Do not operate the projector with the filter removed. Dust may accumulate on the optical elements degrading picture quality.
Do not put anything into the air vents. Doing so may result in malfunction of the projector.





NOTE: If the filter is heavily clogged and unable to clean, replace it with a new one. Consult your dealer for details.

Replacement Filter Part No.: 910-330-7184

Resetting the Filter Counter

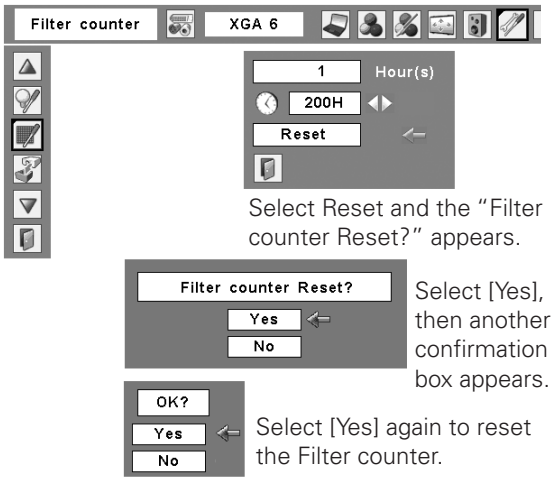
Be sure to reset the Filter counter after cleaning or replacing the filter.

1 Press the MENU button to display the On-Screen Menu. Use the Point ◀▶ buttons to move the red frame pointer to the Setting Menu icon.

2 Use the Point ▲▼ buttons to move the red frame pointer to Filter counter and then press the SELECT button. A dialog box appears showing the total accumulated time of the filter use, a timer setting option, and the reset option. Select Reset and the "Filter counter Reset?" appears. Select [Yes] to continue.

3 Another confirmation dialog box appears, select [Yes] to reset the Filter counter.

Filter counter



Select Reset and the "Filter counter Reset?" appears.

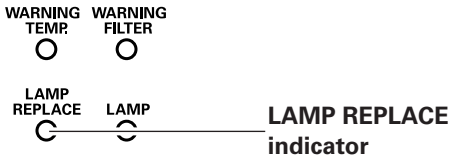
Select [Yes], then another confirmation box appears.

Select [Yes] again to reset the Filter counter.

Lamp Replacement

When the projection lamp of the projector reaches its end of life, the Lamp replacement icon appears on the screen and LAMP REPLACE indicator lights yellow. Replace the lamp with a new one promptly. The timing when the LAMP REPLACE indicator should light is depending on the lamp mode.

Top Control



Lamp replacement icon

WARNING:
TURN OFF THE UV LAMP BEFORE OPENING THE LAMP COVER

CAUTION

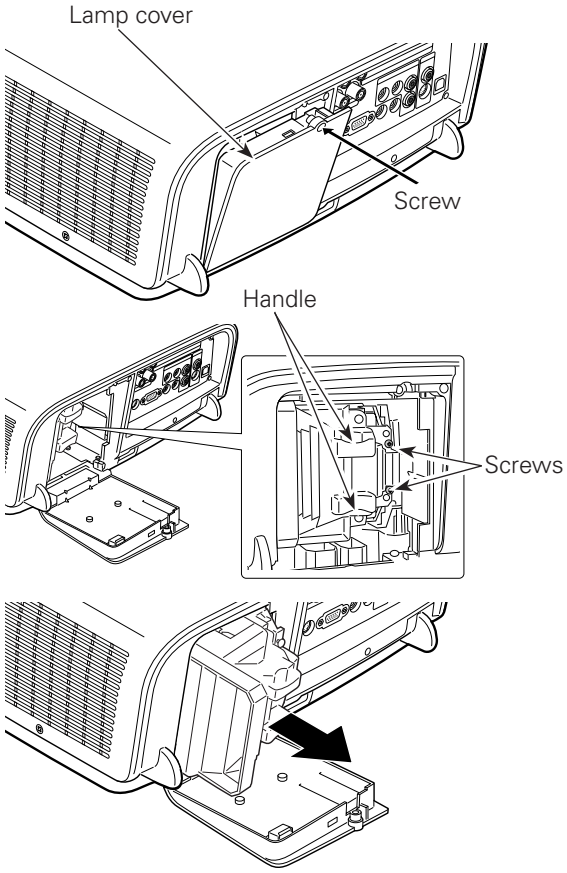
Allow a projector to cool for at least 45 minutes before you open the Lamp cover. The inside of the projector can become very hot.

CAUTION

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

Follow these steps to replace the lamp.

1. Turn off the projector and unplug the AC power cord. Let the projector cool for at least 45 minutes.
2. Remove the screw that secures the lamp cover, and then open the lamp cover.
3. Remove the two (2) screws that secure the lamp. Lift the lamp out of the projector by using the handle.
4. Replace the lamp with a new one and secure 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 counter.**
   See "Resetting the Lamp Counter" on the next page.



ORDER REPLACEMENT LAMP

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

- **Model No. of your projector : PLC-XT35, PLC-XT35L, PLC-XT35K**
- **Replacement Lamp Type No. : POA-LMP116** (Service Parts No. 610 335 8093)

Resetting the Lamp Counter

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

1 Press the MENU button to display the On-Screen Menu. Use the Point ◀▶ buttons to move the red frame pointer to the Setting Menu icon.

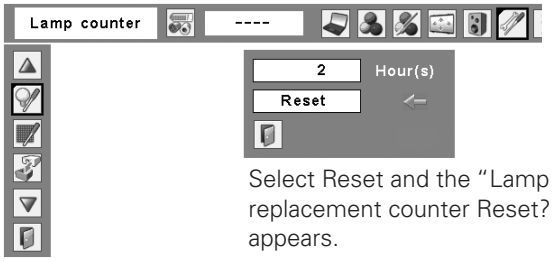
2 Use the Point ▲▼ buttons to move the red frame pointer to Lamp counter and then press the SELECT button. A dialog box appears showing the total accumulated time of the lamp usage and the reset option. Select Reset and the "Lamp replacement counter Reset?" appears. Select [Yes] to continue.

3 Another confirmation dialog box appears, select [Yes] to reset the Lamp counter.

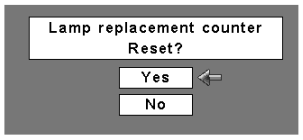
✔***Note:***

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

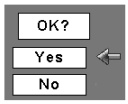
Lamp counter



Select Reset and the "Lamp replacement counter Reset?" appears.



Select [Yes], 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 life may differ from lamp to lamp and according to the environment of use. There is no guarantee of the same life for each lamp. Some lamps may fail or terminate their life in a shorter period of time than other similar lamps.

- If the projector indicates that the lamp should be replaced, i.e., if the LAMP REPLACE indicator lights up, replace the lamp with a new one IMMEDIATELY after the projector has cooled down.
  (Follow carefully the instructions in the Lamp Replacement section of this manual.) Continuous use of the lamp with the LAMP REPLACE indicator lighted may increase the risk of lamp explosion.

- A Lamp may explode as a result of vibration, shock or degradation as a result of hours of use as its lifetime draws to an end. Risk of explosion may differ according to the environment or conditions in which the projector and lamp are being used.

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

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

Warning Indicators

The WARNING indicators show the state of the function which protects the projector. Check the state of the WARNING indicators and the POWER indicator to take proper maintenance.

The projector is shut down and the WARNING TEMP. indicator is blinking red.

When the temperature inside the projector reaches a certain level, the projector will be automatically shut down to protect the inside of the projector. The POWER indicator is blinking while the projector is being cooled down. When the projector has cooled down enough (to its normal operating temperature), it can be turned on again by pressing the ON/STAND-BY button.

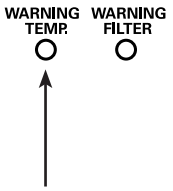
✔ ***Note:***

- *The WARNING TEMP. indicator continues to blink even after the temperature inside the projector returns to normal. When the projector is turned on again, the WARNING TEMP. indicator stops blinking.*

Then check the matters below:

– Did you provide appropriate space for the projector to be ventilated? Check the installing condition to see if the air vents of the projector are not blocked.
– Has the projector been installed near an Air-Conditioning/ Heating Duct or Vent? Move the installation of the projector away from the duct or vent.
– Is the filter clean? Clean the filter periodically or replace it with a new one.

Top Control



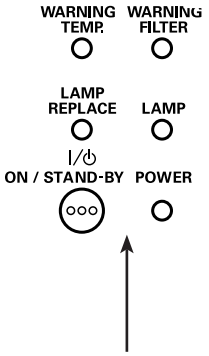
WARNING TEMP. blinking red

The projector is shut down and all five indicators are blinking.

When the projector detects an abnormal condition, it will be automatically shut down to protect the inside of the projector and all five indicators on the top panel blink. In this case, unplug the AC power cord and plug it, and then turn on the projector once again to verify operation. If the projector cannot be turned on and these indicators are still blinking, unplug the AC power cord and contact the service station.

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

Top Control



All five indicators are blinking

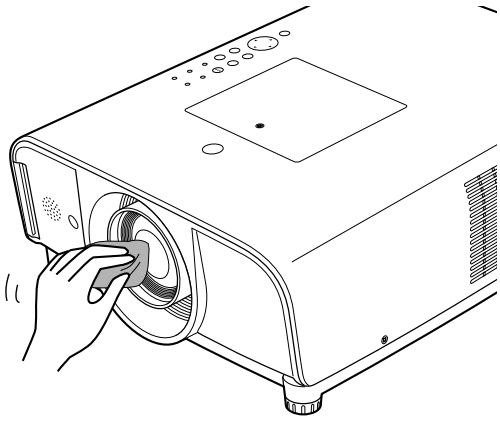
Cleaning the Projection Lens

Unplug the AC power cord before cleaning.

Gently wipe the projection lens with a cleaning cloth that contains a small amount of non-abrasive camera lens cleaner, or use a lens cleaning paper or commercially available air blower to clean the lens.

Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents, or other harsh chemicals might scratch the surface of the lens.

When the projector is not in use, replace the lens cap.

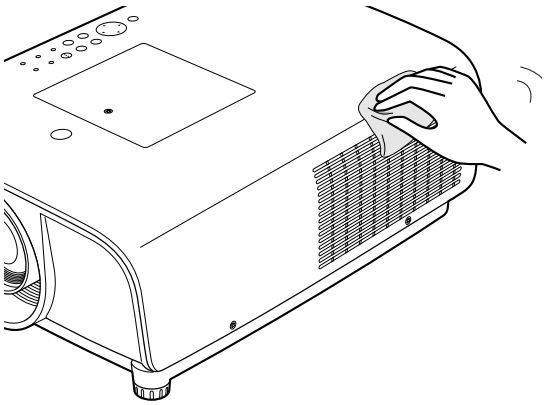


Cleaning the Projector Cabinet

Unplug the AC power cord before cleaning.

Gently wipe the projector body with a soft dry cleaning cloth. When the cabinet is heavily soiled, use a small amount of mild detergent and finish with a soft dry cleaning cloth. Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents, or other harsh chemicals might scratch the surface of the cabinet.

When the projector is not in use, put the projector in an appropriate carrying case to protect it from dust and scratches.



Troubleshooting

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

–Make sure you have properly connected the projector to peripheral equipment as described on pages 20–22.
–Make sure all equipment is connected to AC outlet and the power is turned on.
–When the projector does not project an image from the connected computer, restart the computer.

Problem:	– Solutions
No power	– Plug the power cord of the projector into the AC outlet. – See if the POWER indicator is lit. – Wait 90 seconds after the projector is turned off when turning the projector back on. The projector can be turned on after the POWER indicator stops blinking. See on page 25. – Check the WARNING TEMP. indicator. If the WARNING TEMP. indicator is blinking, the projector cannot be turned on. See page 61. – Check the projection lamp. See page 59. – Check if the projector is installed in proper position. See page 18. – Unlock the Key lock function for the projector. See page 54.
PIN code dialog box appears at start-up.	– PIN code lock is being set. Enter a PIN code; the "1234" or numbers you have set. See pages 24, 55–56.
The initial display is not shown.	– Make sure "Off" or "Countdown Off" are not chosen at Display function. See page 52.
The initial display is not same with the default one.	– Make sure "User" or "Off" are not chosen at Logo function. See page 50.
An icon other than Input mode or Lamp mode icon appears.	– That is the Lamp replacement icon or the Filter warning icon. See pages 57, 59.
No image	– Check the connection between your computer or video equipment and the projector. See pages 20–22. – See if the input signal is correctly output from your computer. Some laptop computers may need to change the setting for monitor output when connecting to the projector See your computer's instruction manual for the setting. – It takes about 30 seconds to display an image after turning on the projector. – See if the selected system is corresponding with your computer or video equipment. See pages 36, 37. – Select correct input source once again through menu operation. See page 35. – Make sure the temperature is not out of the specified Operating Temperature (41 ˚F–95 ˚F [5 ˚C–35 ˚C]). – When "No Show" is operating, the image can not be displayed. Press the NO SHOW button or any other button on the remote control.
Image is out of focus.	– Adjust focus of the projector. See pages 28, 30. – Provide proper distance between the projector and projection screen See page 18. – Check the projection lens to see if it needs cleaning. See page 62. – Moving the projector from a cool to warm place may result in moisture condensation on the projection lens. In such cases, leave the projector

	off and wait until condensation evaporates. – Projecting from the excessive slant angle to the screen may cause keystone distortion and partial imperfect focus. See page 18.
Picture is not bright enough.	– Check if "Contrast" or "Brightness" are adjusted properly See page 42. – Check if "Image level" is selected properly See page 41. – Check the LAMP REPLACE indicator. If it lights, the end of lamp life is approaching. Replace the lamp with a new one promptly. See pages 59-60, 69. – Check the Lamp control function See page 49.
The color is strange.	– Check the Input signal, color system, video system, or computer system mode. – Adjust the Image level properly. See page 41.
Image is Left/Right reversed. **Image is Top/Bottom reversed.**	– Check the Ceiling/Rear function. See page 45. – Check the Ceiling function. See page 45.
The image is distorted or runs off.	– Check the "PC Adjustment" menu or "Screen" menu and adjust them. See page 37-40, 45-47.
The edge of image is distorted.	– With maximum lens shift, image distortion may be observed.
No sound	– Check the audio cable connection from audio input source. – Adjust the audio source. – Press the Volume + button. See page 29. – Press the Mute button. See page 29. – When the AUDIO OUT is plugged in, the projector's built-in speaker is not available. – Is the image projected? You will hear the sound only when the image is projected.
Auto PC adjustment function does not work.	– Check the Input signal. Auto PC Adjustment function can not work. when 480p, 575p, 720p, 480i, 575i, 1035i, or 1080i is selected. See page 38. – The Auto adj. icon turns gray and cannot be operated with the digital signals. See page 38.
Some displays are not seen during the operation.	– Check the Display function. See page 52.
The setting does not remain after turning off power.	– Make sure you selected "Store" after adjusting settings. Some settings cannot be stored if not registered with "Store."
Power management function does not work.	– Power management function cannot work while "Freeze" or "No Show" function is running.
Image disappears automatically	– Check the power management function in the Setting. The power management is set to “On” at the factory.

Capture function does not work.	– Check the connection and the Input signal to see if there is signal.
The Remote Control does not work.	– Check the batteries. – Make sure no obstruction is between the projector and remote control. – Make sure you are not too far from the projector when using the remote control. Maximum operating range is 16.4' (5 m). – Make sure that the remote control code conforms to the projector's code. See page 52. – Unlock the Key lock function for the remote control. See page 54. – Wireless remote control does not work when the remote control cable is connected to the projector.
Wireless Mouse function does not work.	– Check the connection between the projector and your computer. – Check the mouse setting on your computer. – Turn on the projector before you turn on the computer. – Make sure the computer input is selected. – Make sure that the mouse driver is installed in your computer. To use the moue as a wireless mouse, the mouse driver needs to be installed in the computer.
Indicator blinks or lights.	– Check the status of the projector with referring to "indicators and Projector Condition." See pages 68-69.
The exclamation mark appears on the screen.	– Your operation is invalid. Operate correctly.
The top control does not work.	– Unlock Key lock for the projector in the Key lock function.
Unable to unlock the Logo PIN code lock, Security key lock or Security PIN code lock.	– Contact the dealer where you purchased the projector or the service center.

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

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

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

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

Pixelworks ICs used.

Menu Tree

Input
- Input 1
  - RGB (PC Analog) → Go to **System** (1)
  - RGB (Scart)
  - RGB (PC Digital)
  - RGB (AV HDCP)
  - Quit
- Input 2
  - RGB → Go to **System** (1)
  - Video → Go to **System** (3)
  - Component → Go to **System** (2)
  - Quit
- Input 3
  - Auto
  - Video → Go to **System** (3)
  - S-video → Go to **System** (3)
  - Quit

SYSTEM (1) — XGA 1
- Mode 1
- Mode 2
- XGA 1
- - - -

SYSTEM (2) — Auto
- Auto
- 1080i
- 1035i
- 720p
- 575p
- 480p
- 575i
- 480i

SYSTEM (3) — Auto
- Auto
- PAL
- SECAM
- NTSC
- NTSC4.43
- PAL-M
- PAL-N

Sound
- Volume — 0–63
- Mute — On/Off
- Quit

Information
- Input
- H-sync freq.
- V-sync freq.
- Screen
- Language
- Lamp status
- Power management
- Security
  - Key lock
  - PIN code lock
- Remote control code

Image
- Dynamic
- Standard
- Real
- Cinema*
- Image 1
- Image 2
- Image 3
- Image 4

Image Adjust
- Contrast — 0–63
- Brightness — 0–63
- Color — 0–63
- Tint — 0–63
- Color temp. — High/Mid/Low/XLow
- Red — 0–63
- Green — 0–63
- Blue — 0–63
- Sharpness — 0–15
- Gamma — 0–15
- Noise reduction — Off/L1/L2
- Progressive — Off/L1/L2/Film
- Reset — Yes / No
- Store
  - Image 1
  - Image 2
  - Image 3
  - Image 4
  - Quit
- Quit

✔ ***Note:***

- *The Menu display varies depending on the input signal.*

PC Adjust

- Auto PC adj.
- Fine sync
  - 0–31
- Total dots
- Horizontal
- Vertical
- Current mode
  - H-sync freq.
  - V-sync freq.
  - Quit
- Clamp
- Display area H
- Display area V
- Reset
  - Yes/No
- Mode free/Store
  - Mode 1
  - Mode 2
  - Mode 3
  - Mode 4
  - Mode 5
  - Mode 6
  - Mode 7
  - Mode 8
  - Mode 9
  - Mode 10
  - Quit
- Quit

Screen

- Normal
- True
- Wide
- Full screen
- Custom
- Digital zoom +
- Digital zoom –
- Keystone
  - Store
  - Reset
- Ceiling
  - On/Off
- Rear
  - On/Off

Setting

- Language
  - 12 languages provided
  - Quit
- Logo
  - Logo select
    - Off/Default/User
  - Capture
    - Yes/No
  - Logo PIN code lock
    - On/Off
    - Logo PIN code change
    - Quit
  - Quit
- Background
  - Blue/User/Black
- Lamp control
  - Auto 1
  - Auto 2
  - High
  - Normal
  - Eco 1
  - Eco 2
- Pointer
  - Spotlight/Pointer
  - Quit
- Remote control
  - Code 1–Code 8
- RC sensor
  - Both/Front/Back
- Display
  - On/Countdown off/Off
- Power management
  - Off/Ready/Shutdown
  - Timer (1–30 Min)
  - Quit
- On start
  - On/Off
- Fan control
  - Slant
    - Off/L1/L2
  - Highland
    - On/Off
- Security
  - Key lock
    - Off
    - Projector (all)
    - Projector (part)
    - Remote control (all)
    - Remote control (part)
  - PIN code lock
    - Off/On 1/On 2
    - PIN code change
  - Quit
- Test pattern
  - 8 test patterns provided
  - Quit
- Warning log
- Lamp counter
  - Hour(s)
  - Reset
    - Yes/No
  - Quit
- Filter counter
  - Hour(s)
  - Off/100H/200H/300H
  - Reset
    - Yes/No
  - Quit
- Factory default
  - Yes/No
- Quit

✔ ***Note:***

- *The Menu display varies depending on the input signal.*

Indicators and Projector Condition

Check the indicators for the projector condition.

WARNING TEMP. indicator

Indicators			Projector Condition
POWER **green**	LAMP **red**	WARNING TEMP. **red**	
●	●	●	The projector is off. (The AC power cord is unplugged.)
○	●	●	The projector is in stand-by mode. Press the ON/STAND-BY button to turn on the projector.
○	○	●	The projector is operating normally.
⚡○	○	●	The projector is in the Power management mode.
⚡○	●	●	The projector is preparing for stand-by or the projection lamp is being cooled down. The projector cannot be turned on until cooling is completed and the POWER indicator stops blinking.
⚡○	●	⚡○	The temperature inside the projector is abnormally high. The projector cannot be turned on. When the projector is cooled down enough and the temperature returns to normal, the POWER indicator stops blinking and the projector can be turned on. (The WARNING TEMP. indicator keeps blinking.) Check and clean the filter.
○	●	⚡○	The projector has been cooled down enough and the temperature returns to normal. When turning on the projector, the WARNING TEMP. indicator stops blinking. Check and clean the filter.
POWER, LAMP, WARNING TEMP., WARNING FILTER, and LAMP REPLACE indicators are blinking all together.		⚡○	The projector detects an abnormal condition and cannot be turned on. Unplug the AC power cord and plug it again to turn on the projector. If the projector is turned off again, unplug the AC power cord and contact the dealer or the service center. Do not leave the projector on. It may cause an electric shock or a fire hazard.

○ • • • lighting ⚡○ • • • blinking ● • • • off

WARNING FILTER indicator

Indicators			Projector Condition
POWER **green**	LAMP **red**	WARNING FILTER **orange**	
○	○	⚠	The filter is clogged. Stop using the projector immediately and clean or replace the filter (see below).
Filter warning red icon Filter warning			
–	–	○	The Filter counter reached a set time. Clean or replace the filter as soon as possible.
Filter warning yellow icon Filter warning			

If filter clogging is detected during operations, the Filter warning icon (red) appears on the screen and the WARNING FILTER indicator blinks orange, urging you to clean or replace the filter. Stop using the projector immediately and clean or replace the filter. The WARNING FILTER indicator and Filter warning icon will not be turned off until the filter is cleaned or replaced by a new one.

Filter warning

Filter warning icon (red) appears on the screen when the projector detects filter clogging.

✔ ***Note:***

- *The Filter warning icon (red) will not appear during "Freeze" (p.30), or "No show" (p.31).*

LAMP REPLACE indicator

Indicators			Projector Condition
POWER **green**	LAMP **red**	LAMP REPLACE **yellow**	
⚠	●	⚠	The lamp cannot light up. (The projector is preparing for stand-by or the projection lamp is being cooled down. The projector cannot be turned on until cooling is completed.)
○	●	⚠	The lamp cannot light up. (The lamp has been cooled down enough and the projector is in stand-by mode and ready to be turned on with the ON/STAND-BY button.)
–	–	○	The lamp has been used overtime. Replace the lamp immediately and then reset the lamp counter. The indicator will be turned off after resetting the counter.

* When the projection lamp reaches its end of life, the LAMP REPLACE indicator lights yellow. When this indicator lights yellow, replace the projection lamp with a new one promptly. Reset the lamp counter after replacing the lamp. See pages 59–60.

Compatible Computer Specifications

Basically this projector can accept the signal from all computers with the V- and H-Frequency mentioned below and less than 140 MHz of Dot Clock.

PC Adjustment is limited when selecting these modes.

ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)
VGA 1	640x480	31.470	59.880
VGA 2	720x400	31.470	70.090
VGA 3	640x400	31.470	70.090
VGA 4	640x480	37.860	74.380
VGA 5	640x480	37.860	72.810
VGA 6	640x480	37.500	75.000
VGA 7	640x480	43.269	85.000
MAC LC13	640x480	34.970	66.600
MAC 13	640x480	35.000	66.670
480p	640x480	31.470	59.880
575p	768x575	31.250	50.000
575i	768x576	15.625	50.000 (Interlace)
480i	640x480	15.734	60.000 (Interlace)
SVGA 1	800x600	35.156	56.250
SVGA 2	800x600	37.880	60.320
SVGA 3	800x600	46.875	75.000
SVGA 4	800x600	53.674	85.060
SVGA 5	800x600	48.080	72.190
SVGA 6	800x600	37.900	61.030
SVGA 7	800x600	34.500	55.380
SVGA 8	800x600	38.000	60.510
SVGA 9	800x600	38.600	60.310
SVGA 10	800x600	32.700	51.090
SVGA 11	800x600	38.000	60.510
MAC 16	832x624	49.720	74.550
XGA 1	1024x768	48.360	60.000
XGA 2	1024x768	68.677	84.997
XGA 3	1024x768	60.023	75.030
XGA 4	1024x768	56.476	70.070
XGA 5	1024x768	60.310	74.920
XGA 6	1024x768	48.500	60.020
XGA 7	1024x768	44.000	54.580
XGA 8	1024x768	63.480	79.350
XGA 9	1024x768	36.000	870170 (Interlace)
XGA 10	1024x768	62.040	77.070
XGA 11	1024x768	61.000	75.700
XGA 12	1024x768	35.522	86.96 (Interlace)
XGA 13	1024x768	46.900	58.200
XGA 14	1024x768	47.000	58.300
XGA 15	1024x768	58.030	72.000
MAC 19	1024x768	60.240	75.080
SXGA 1	1152x864	64.200	70.400

ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)
SXGA 2	1280x1024	62.500	58.600
SXGA 3	1280x1024	63.900	60.000
SXGA 4	1280x1024	63.340	59.980
SXGA 5	1280x1024	63.740	60.010
SXGA 6	1280x1024	71.690	67.190
SXGA 7	1280x1024	81.130	76.107
SXGA 8	1280x1024	63.980	60.020
SXGA 9	1280x1024	79.976	75.025
SXGA 10	1280x960	60.000	60.000
SXGA 11	1152x900	61.200	65.200
SXGA 12	1152x900	71.400	75.600
SXGA 13	1280x1024	50.000	86.000 (Interlace)
SXGA 14	1280x1024	50.000	94.00 (Interlace)
SXGA 15	1280x1024	63.370	60.010
SXGA 16	1280x1024	76.970	72.000
SXGA 17	1152x900	61.850	66.000
SXGA 18	1280x1024	46.43	86.70 (Interlace)
SXGA 19	1280x1024	63.790	60.180
SXGA 20	1280x1024	91.146	85.024
SXGA+ 1	1400x1050	63.970	60.190
SXGA+ 2	1400x1050	65.350	60.120
SXGA+ 3	1400x1050	65.120	59.900
MAC 21	1152x870	68.680	75.060
MAC	1280x960	75.000	75.080
MAC	1280x1024	80.000	75.080
WXGA 1	1366x768	48.360	60.000
WXGA 2	1360x768	47.700	60.000
WXGA 3	1376x768	48.360	60.000
WXGA 4	1360x768	56.160	72.000
WXGA 6	1280x768	47.776	59.870
WXGA 7	1280x768	60.289	74.893
WXGA 8	1280x768	68.633	84.837
UXGA 1	1600x1200	75.000	60.000
UXGA 2	1600x1200	81.250	65.000
UXGA 3	1600x1200	87.500	70.000
UXGA 4	1600x1200	93.750	75.000
UXGA 5	1600x1200	106.250	85.000
720p	1280x720	45.000	60.000
720p	1280x720		50.000
1035i	1920x1035	33.750	60.000 (Interlace)
1080i	1920x1080	33.750	60.000 (Interlace)
1080i	1920x1080	28.125	50.000 (Interlace)

When an input signal is digital from the DVI terminal, refer to the chart below.
PC Adjust Menu cannot be selected when Input 1 [RGB (PC digital)] is selected in the Input Menu.

ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)
D-VGA	640x480	31.470	59.940
D-480p	720x480	31.470	59.880
D-575p	768x575	31.250	50.000
D-SVGA	800x600	37.879	60.320
D-XGA	1024x768	43.363	60.000
D-WXGA 1	1366x768	48.360	60.000
D-WXGA 2	1360x768	47.700	60.000
D-WXGA 3	1376x768	48.360	60.000
D-WXGA 4	1360x768	56.160	72.000
D-WXGA 5	1366x768	46.500	50.000

ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)
D-WXGA 6	1280x768	47.776	59.870
D-WXGA 7	1280x768	60.289	74.893
D-SXGA 1	1280x1024	63.980	60.020
D-SXGA 2	1280x1024	60.276	58.069
D-SXGA 3	1280x1024	31.650	29.800
D-SXGA+ 1	1400x1050	63.970	60.190
D-720p	1280x720	45.000	60.000
D-1035i	1920x1035	33.750	60.000 (Interlace)
D-1080i	1920x1080	33.750	60.000 (Interlace)
D-1080i	1920x1080	28.125	50.000 (Interlace)

✔ ***Notes:***

- *When the input signal is D-SXGA 1 and D-SXGA +1 images may not be displayed properly depending on computers*
- *Specifications are subject to change without notice..*

Technical Specifications

Mechanical Information

Projector Type	Multi-media Projector
Dimensions (W x H x D)	13.7" x 6.46" x.17.48" (348.1 mm x 164 mm x 444 mm)
Net Weight	17.86 lbs (8.1 kg) (for PLC-XT35L), 19.62lbs (8.9kg) (for PLC-XT35/XT35K)
Feet Adjustment	0˚ to 5.0˚

Panel Resolution

LCD Panel System	1.0" TFT Active Matrix type, 3 panels
Panel Resolution	1,024 x 768 dots
Number of Pixels	2,359,296 (1,024 x 768 x 3 panels)

Signal Compatibility

Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M, and PAL-N
High Definition TV Signal	480i, 480p, 575i, 575p, 720p, 1035i, and 1080i
Scanning Frequency	H-sync. 15 kHz–100 kHz, V-sync. 50 Hz–100 Hz

Optical Information

Projection Image Size (Diagonal)	Adjustable from 30" to 300" (PLC-XT35/XT35K)
Throw Distance	3.9'–32.8' (1.2 m–10.0 m) (PLC-XT35/XT35K)
Projection Lens	F=1.7 to 2.1, f=33 to 43 mm with motor zoom and focus (PLC-XT35/XT35K)
Projection Lamp	330 W

Interface

Input 1	Digital (DVI-D) x 1, Analog (Mini D-sub 15 pin) x 1
Input 2	BNC Type x 5 (G or Video/Y, B or Cb-Pb, R or Cr-Pr, HV and V)
Input 3	RCA Type x 1, Mini DIN 4 pin x 1
AUDIO IN	Audio 1 (Mini Type stereo), Audio 2 (Mini Type stereo), Audio 3 (RCA Type) x 2
Analog Out	Mini D-sub 15 pin x 1
Audio Out	Audio (Mini Type stereo) x 1
R/C Jack	Mini Type (Wired Remote) x 1
Control Port	Mini DIN 8 pin x 1
USB Connector	USB Series B x 1
Option	PJ-Net Organizer Terminal x 1

Audio

Internal Audio Amp	1.0 W RMS
Built-in Speaker	1 speaker, ø1.1" (28 mm)

Power

Voltage and Power Consumption	AC 100–120 V (4.6A Max. Ampere), 50/60 Hz (The U.S.A and Canada)
	AC 200–240 V (2.3A Max. Ampere), 50/60 Hz (Continental Europe and The U.K.)

Operating Environment

Operating Temperature	41˚F–95˚F (5˚C–35˚C)
Storage Temperature	14˚F–140˚F (-10˚C–60˚C)

Remote Control

Battery AAA or LR03 Type x 2	
Operating Range	16.4' (5 m/±30˚)
Dimensions	1.8" (W) x 1.0" (H) x 5.7" (D) (45 mm x 25 mm x 145 mm)
Net Weight	3.5 oz (99 g) (including batteries)
Laser Pointer	Class II Laser (Max. Output: 1 m W/Wave length: 640–660 nm)

Accessories

Owner's Manual (CD-ROM)
Quick Reference Guide
AC Power Cord
Remote Control and Batteries
VGA Cable
USB Cable
Control Cable
Lens Cap (for PLC-XT35/XT35K)
Lens Mount Cover (for PLC-XT35L/XT35K)
PIN Code Label

- The specifications are subject to change without notice.
- LCD panels are manufactured to the highest possible standards. Even though 99.99% of the pixels are effective, a tiny fraction of the pixels (0.01% or less) may be ineffective by the characteristics of the LCD panels.

Optional Parts

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

	Model No.
Long Zoom Lens	: *LNS-T11*
Short Fixed Lens	: *LNS-W11*
Standard Lens	: *LNS-S11*
Long Zoom Lens	: *LNS-T10*
Short Zoom Lens	: *LNS-W10*
PJ-Net Organizer Plus II	: *POA-PN03*
PJ-Net Organizer Plus IIC	: *POA-PN03C*

PJ Link Notice

This projector is compliant with PJLink Standard Class 1 of JBMIA (Japan Business Machine and Information System Industries Association). The projector supports all commands defined by PJLink Class 1 and is verified conformance with PJLink Standard Class 1.

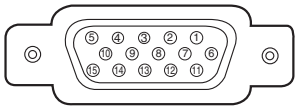
Projector Input		PJLink Input	Parameter
Input 1	RGB (PC Analog)	RGB 1	11
	RGB (Scart)	RGB 2	12
	RGB (PC Digital)	DIGITAL 1	31
	RGB (AV HDCP)	DIGITAL 2	32
Input 2	RGB	RGB 3	13
	Video	VIDEO 1	21
	Component	VIDEO 2	22
Input 3	Auto	VIDEO 3	23
	Video	VIDEO 4	24
	S-video	VIDEO 5	25
Input 4	Network	NETWORK 1	51

PJLink is a registered trademark of JBMIA and pending trademark in some countries.

Configurations of Terminals

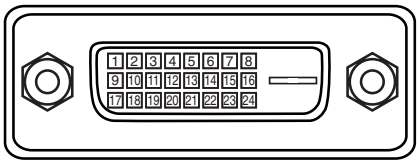
INPUT 1/ANALOG OUT

Terminal: Analog RGB (Mini D-sub 15 pin)



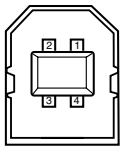
1	Red (R/Cr) Input/Output	9	+5V Power/ -----
2	Green (G/Y) Input/Output	10	Ground (Vert.sync.)
3	Blue (B/Cb) Input/Output	11	Ground/ -----
4	-----	12	DDC Data/ -----
5	Ground (Horiz.sync.)	13	Horiz. sync. Input/Output (Composite H/V sync.)
6	Ground (Red)	14	Vert. sync.
7	Ground (Green)	15	DDC Clock/ -----
8	Ground (Blue)		

DVI-D TERMINAL (DIGITAL)



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

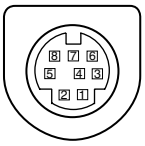
USB CONNECTOR (Series B)



1	Vcc
2	- Data
3	+ Data
4	Ground

CONTROL PORT CONNECTOR

Terminal : Mini DIN 8-PIN



1	R X D	5	RTS/CTS
2	-----	6	T X D
3	-----	7	GND
4	GND	8	GND

PIN Code Number Memo

Write down the PIN code number in the column below and keep it with this manual securely. If you forgot or lost the number and unable to operate the projector, contact the service station.

PIN Code Lock No.

Factory default set No: 1 2 3 4*

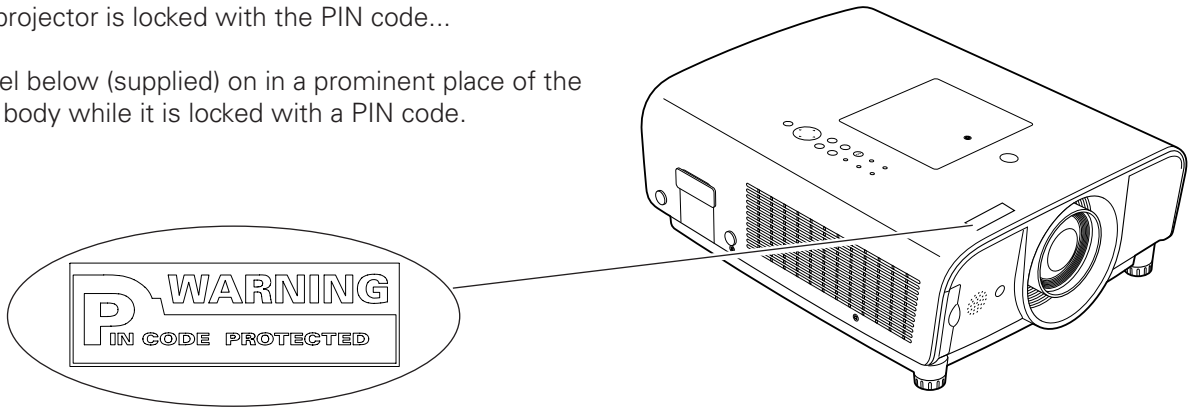
Logo PIN Code Lock No.

Factory default set No: 4 3 2 1*

* Should the four-digit number be changed, the factory set number will be invalid.

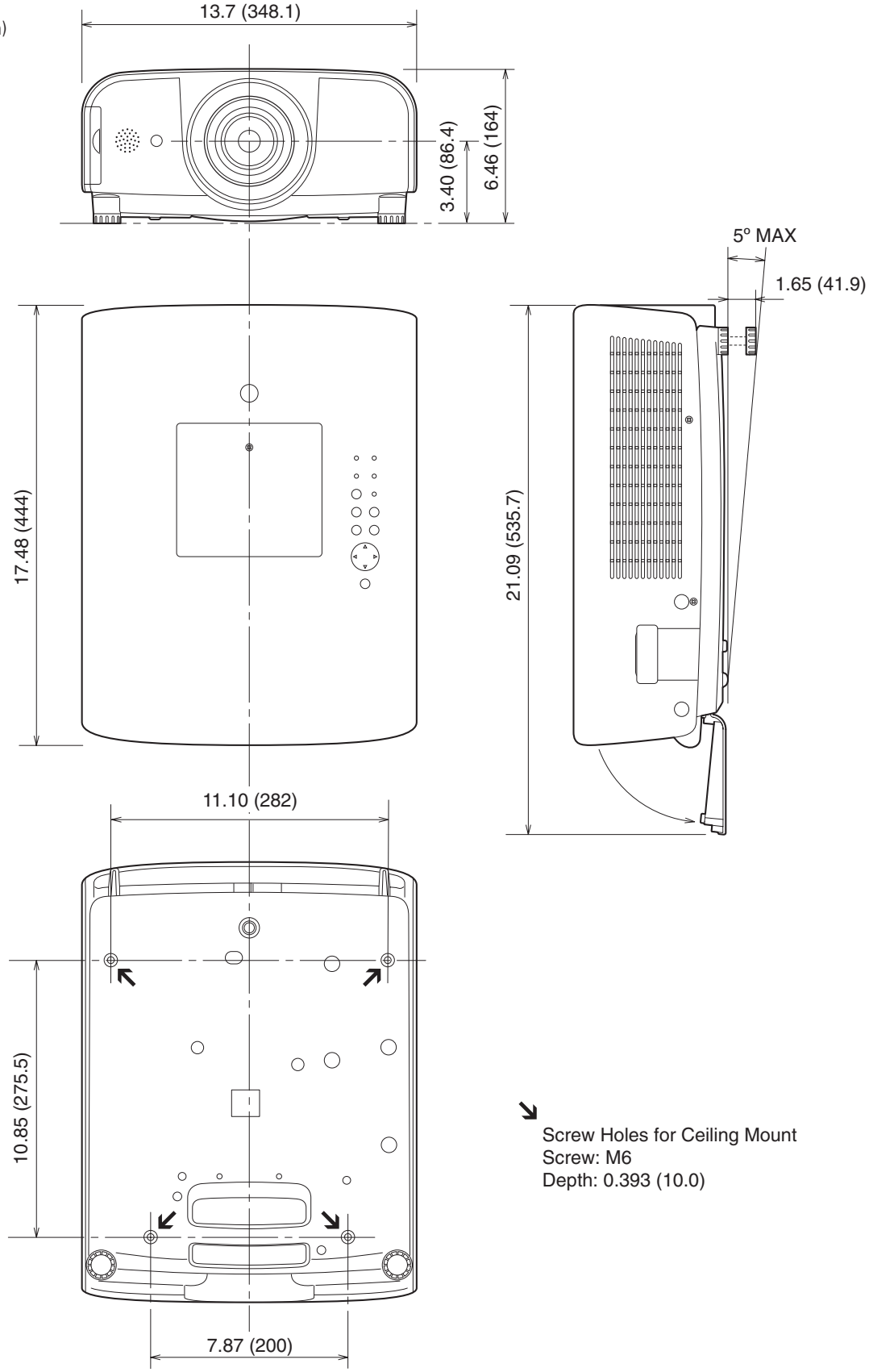
While the projector is locked with the PIN code...

Put the label below (supplied) on in a prominent place of the projector's body while it is locked with a PIN code.



Dimensions

Unit: inch (mm)



SANYO

KP3AL-A

SANYO Electric Co., Ltd.