myprojectorlamps.com

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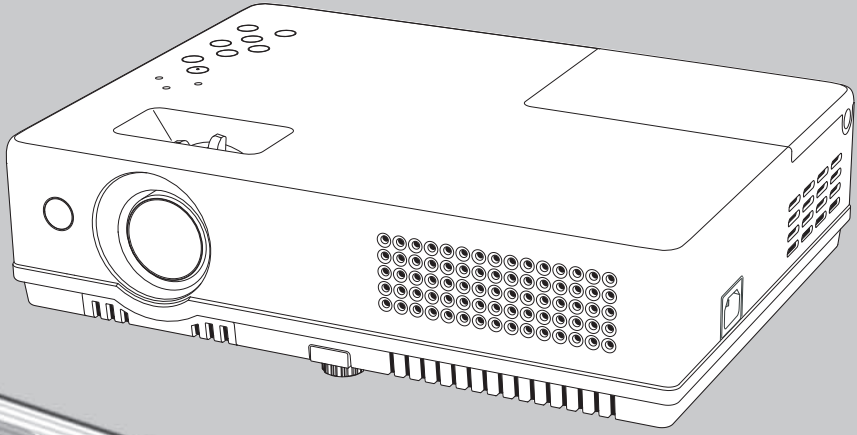
The following projector manual has not been modified or altered in any way.

SANYO

Multimedia Projector

MODEL PLC-XW65
PLC-XW65K



PROJECTOR

Owner's Manual

Features and Design

This Multimedia Projector is designed with the most advanced technology for portability, durability, and ease of use. This projector utilizes built-in multimedia features, a palette of 16.77 million colors, and matrix liquid crystal display (LCD) technology.

◆ Compact Design

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

◆ Compatibility

The projector widely accepts various video and computer input signals including: Computers, 6 Color systems (PAL, SECAM, NTSC, NTSC4.43, PAL-M, and PAL-N), Component video, S-video and RGB scart.

◆ Simple Computer System Setting

The projector has the Multi-scan system to conform to almost all computer output signals quickly. (p.27)

◆ Digital Zoom (for Computer)

The digital zoom function expands (to approx. 16 times of the screen size) or compresses (to approx. a half of the screen size) the image size, allowing you to focus on crucial information during the presentation. (p.36)

◆ Blackboard Function

Blackboard* can be used as a projection screen.

*The board color is limited to Green. (p.32, 40)

◆ Colorboard Function

This enables you to get the close color image to the color image projected on a white screen.

◆ Quick Termination

The AC power cord can be unplugged immediately after turning off the projector without waiting for the termination of the cooling fan rotation.

◆ Auto setup Function

This function enables Input search, Auto Keystone correction and Auto PC adjustment by simple pressing the AUTO SETUP button on the top control. (p.46)

◆ Multilanguage Menu Display

Operation menu is available in 16 languages: English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Finnish, Polish, Hungarian, Romanian, Russian, Chinese, Korean, and Japanese. (p.45)

◆ Logo Function

The Logo function allows you to customize the screen logo with the Logo functions. (p.48-49) You can capture an image for the screen logo, choose a logo between provided and captured.

◆ Switchable Interface Terminal

The projector provides a switchable interface terminal. You can use the terminal as computer input or monitor output conveniently. (p.50)

◆ Power Management

The Power management function reduces power consumption and maintains the lamp life. (p.51)

◆ Lamp Control

Brightness of the projection lamp can be selected. (p.52)

◆ Security Function

The Security function helps you to ensure the security with the Key lock (p.53) and the PIN code lock (p.19, 53, 54) functions. You can lock the operation on the projector and the remote control. Also you can prevent unauthorized persons from using the projector.

◆ Closed Caption

Closed Caption is a function that displays the audio portion of a TV program as text on the screen. The closed captioning service is available mainly in the U.S. (p.56)

✔ **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 operating this projector, read this manual thoroughly and operate the projector properly.
This projector provides many convenient features and functions. Operating the projector properly enables you to manage those features and maintains it in better condition for a considerable time.
Improper operation may result in not only shortening the product-life, but also malfunctions, fire hazard, or other accidents.
If your projector seems to operate improperly, read this manual again, check operations and cable connections and try the solutions in the "Troubleshooting" section on pages 63-65 of this manual. If the problem still persists, contact the dealer where you purchased the projector or the service center.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

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

THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT.

THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE OWNER'S MANUAL WITH THIS UNIT.

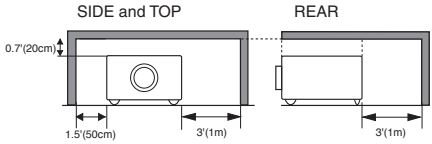
The symbol mark and recycling systems described below apply to EU countries and do not apply to countries in other areas of the world.
Your product is designed and manufactured with high quality materials and components which can be recycled and/or reused.
The symbol mark means that electrical and electronic equipment, batteries and accumulators, at their end-oflife, should be disposed of separately from your household waste.
Note:
If a chemical symbol is printed beneath the symbol mark, this chemical symbol means that the battery or accumulator contains a heavy metal at a certain concentration. This will be indicated as follows: Hg: mercury, Cd: cadmium, Pb: lead
In the European Union there are separate collection systems for used electrical and electronic equipment,
batteries and accumulators.
Please, dispose of them correctly at your local community waste collection/recycling centre.
Please, help us to conserve the environment we live in!

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

Safety Precaution

WARNING: **–THIS APPARATUS MUST BE EARTHED.**
–TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

– This projector produces intense light from the projection lens.Do not stare directly into the lens, otherwise, eye damage could result. Be especially careful that children do not stare directly into the beam.
– Install the projector in a proper position. If not, it may result in a fire hazard.
– Provide appropriate space on the top, sides and rear of the projector cabinet for allowing air circulation and cooling the projector. Minimum clearance must be maintained. If the projector is to be built into a compartment or similarly enclosed, the minimum distances must be maintained. Do not cover the ventilation slot on the projector. Heat build-up can reduce the service life of your projector, and can also be dangerous.



– If the projector is not to be used for an extended time, unplug the projector from the power outlet.
– Do not project the same image for a long time. The afterimage may remain on the LCD panels by the characteristic of panel.

CAUTION

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.

NOTE:
This LCD projector is not designated as Transportable Equipment.
This product is evaluated as movable equipment used on tabletop.

Safety Instructions

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

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

Follow all warnings and instructions marked on the projector.

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

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

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

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

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

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

NOTE FOR CUSTOMERS IN THE US

Hg LAMP(S) INSIDE THIS PRODUCT CONTAIN MERCURY AND MUST BE RECYCLED OR DISPOSED OF ACCORDING TO LOCAL, STATE OR FEDERAL LAWS.

Air Circulation

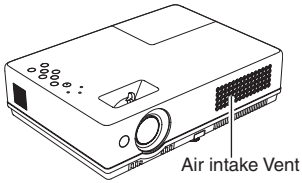
Openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered.

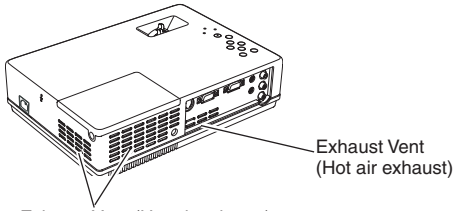
CAUTION

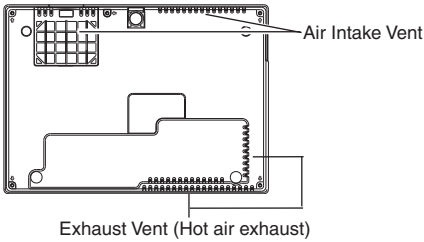
Hot air is exhausted from the exhaust vent. When using or installing the projector, the following precautions should be taken.

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

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

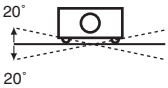






Installing the Projector in Proper Position

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



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

Do not point the projector up to project an image.

Do not point the projector down to project an image.

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

CAUTION

Choose the running speed of cooling fans in the fan control setting according to the altitude in which the projector is being used (p.55). Failure to do so may affect the projector life.

Moving the Projector

When moving the projector, replace the lens cover and retract the adjustable foot to prevent damage to the lens and cabinet. When the projector is not in use for an extended period, put it into the supplied carrying case with the lens side up to protect the projector. The carrying case (supplied) is intended for protection against dust and scratches on surface of the cabinet, and it is not designed to protect an appliance from external forces. Do not transport the projector by courier or any other transport service with this case, otherwise the projector can be damaged.
When handling the projector, do not drop, bump, subject it to strong forces, or put other things on the cabinet.

USE 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 using a courier or transport service in an unsuitable transport case. This may cause damage to the projector. To transport the projector through a courier or transport service, consult your dealer for their information.
– Do not put the projector in a case before the projector is cooled enough.

Compliance

Federal Communications Commission Notice

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

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

Use of shielded cable is required to comply with class B limits in Subpart B of Part 15 of FCC Rules.

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

Model Number : PLC-XW65
Trade Name : Sanyo
Responsible party : SANYO FISHER COMPANY
Address : 21605 Plummer Street, Chatsworth, California 91311
Telephone No. : (818)998-7322

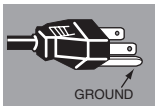
AC Power Cord Requirement

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

AC Power Cord for the United States and Canada:

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

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



AC Power Cord for the United Kingdom:

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

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

The end of the flexible cord should be suitably prepared and the correct plug fitted.

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

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

Green-and-yellow . . . . . Earth
Blue . . . . . Neutral
Brown . . . . . Live

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

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

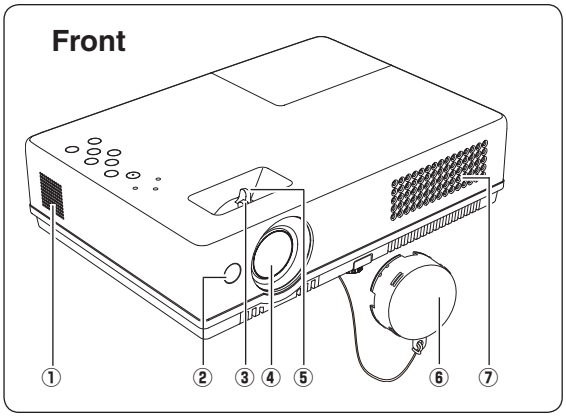
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

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

WARNING: THIS APPARATUS MUST BE EARTHED.

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

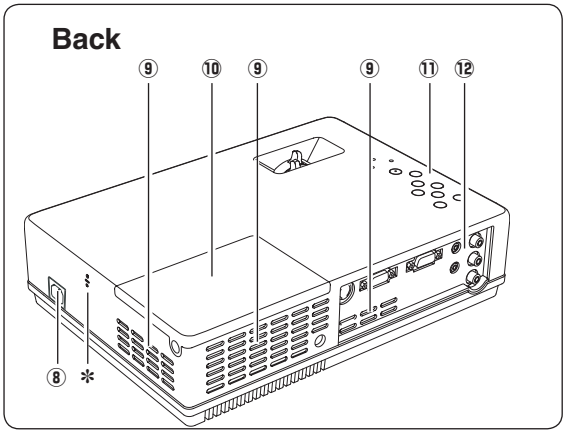
Part Names and Functions



① **Speaker**
② **Infrared Remote Receiver**
③ **Focus Lever**
④ **Lens**
⑤ **Zoom Lever**
⑥ **Lens Cover**
(See page 58 for attaching.)

CAUTION

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



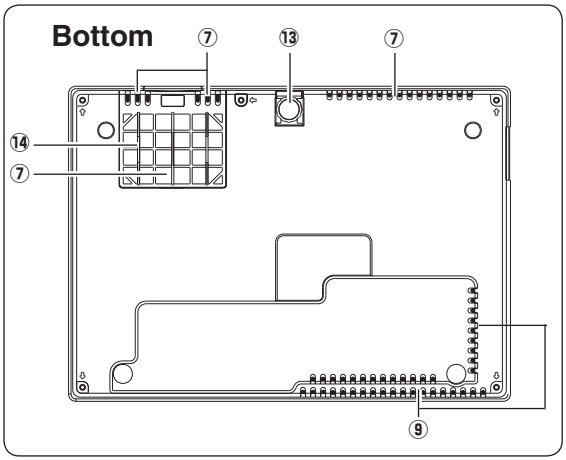
⑦ **Air Intake Vent (front and bottom)**

⑧ **Power Cord Connector**
⑨ **Exhaust Vent**

CAUTION

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

⑩ **Lamp Cover**
⑪ **Top Controls and Indicators**



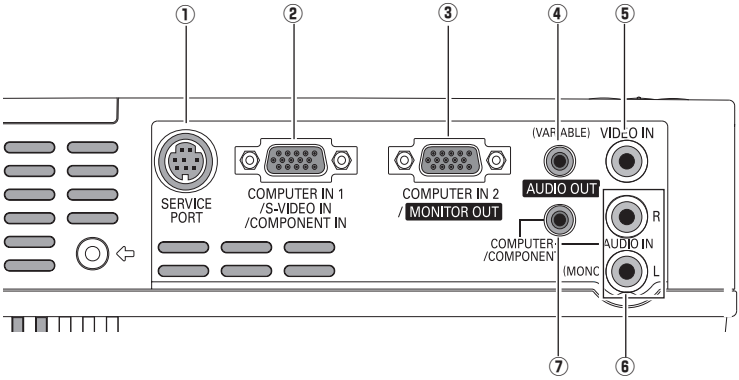
⑫ **Terminals and Connectors**
⑬ **Adjustable Foot**
⑭ **Air Filter**

✻ Kensington Security Slot

This slot is for a Kensington lock used to deter theft of the projector.

*Kensington is a registered trademark of ACCO Brands Corporation.

Rear Terminal



① **SERVICE PORT**

This jack is used to service the projector.

② **COMPUTER IN 1 / S-VIDEO IN / COMPONENT IN**

Connect output signal from a computer, RGB scart 21-pin video output, S-video output, or component video output to this terminal. (p.15-17)
When the cable is of the longer variety, it is advisable to use this terminal and not COMPUTER IN 2 / MONITOR OUT.

③ **COMPUTER IN 2 / MONITOR OUT**

This terminal is switchable and can be used for input from a computer or output the incoming RGB analog signal from COMPUTER IN1 /S-VIDEO IN / COMPONENT IN terminal to the other monitor.
Set the terminal up as either Computer input or Monitor output properly. (Used for Monitor out, this terminal outputs only incoming RGB signal from COMPUTER IN 1/S-VIDEO IN / COMPONENT IN terminal.) (p15, 17, 50)

④ **AUDIO OUT (VARIABLE)**

Connect an external audio amplifier to this jack. (p15 - 17)
This terminal outputs sound from AUDIO IN terminal (⑥ or ⑦).

⑤ **VIDEO IN**

Connect the composite video output from video equipment to VIDEO jack. (p16)

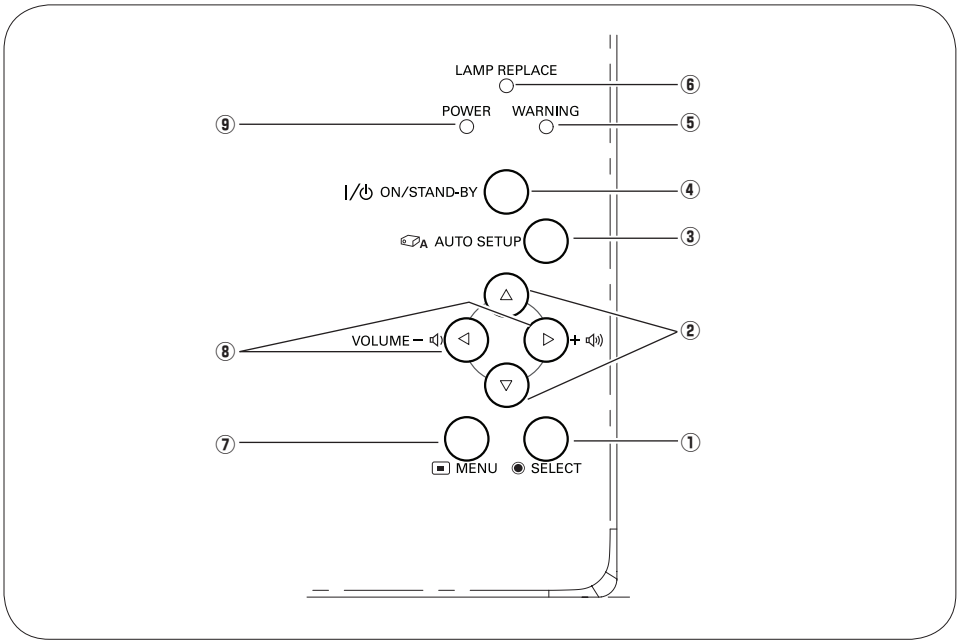
⑥ **AUDIO IN**

Connect the audio output from video equipment connected to ② or ⑤ to this jack. (When the audio output is monaural, connect it to L (MONO) jack.) (p.16)

⑦ **COMPUTER/ COMPONENT AUDIO IN**

Connect the audio output (stereo) from a computer or video equipment connected to ② or ③ to this jack. (p15, 17)

Top Control



① **SELECT button**

– Execute the selected item. (p.21)
– Expand or compress the image in Digital zoom mode. (p.36)

② **POINT (▲▼) buttons**

– Select an item or adjust the value in the On-Screen Menu. (p.21)
– Pan the image in Digital zoom + mode. (p.36)

③ **AUTO SETUP button**

Execute the setting of Auto setup (includes Input search, Auto PC adj. and Auto Keystone functions) in the setting menu. (p.23, 46).

④ **POWER ON/STAND-BY button**

Turn the projector on or off. (p.18, 20)

⑤ **WARNING indicator**

Emit a red light when the projector detects an abnormal condition. This also blinks red when the internal temperature of the projector exceeds the operating range. (p.57, 69)

⑥ **LAMP REPLACE indicator**

Turn yellow when the life of the projection lamp draws to an end. (p.60, 69)

⑦ **MENU button**

Open or close the On-Screen Menu. (p.21)

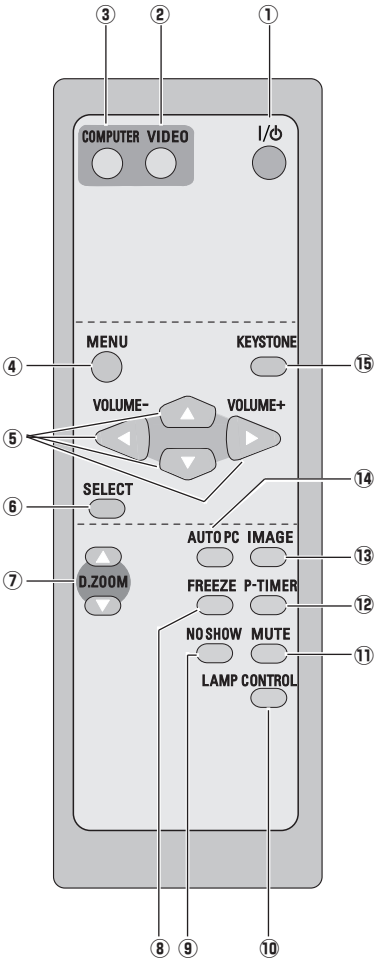
⑧ **POINT (◀▶) buttons**

– Select an item or adjust the value in the On-Screen Menu. (p.21)
– Pan the image in Digital zoom + mode. (p.36)
– Adjust the volume level. (p.24)

⑨ **POWER indicator**

– Lights red when the projector is in stand-by mode.
– Lights green during operations.
– Blinks green in the Power management mode (p.51).

Remote Control



① **POWER ON/STAND-BY button**
Turn the projector on or off. (p.18, 20)

② **VIDEO button**
Select VIDEO input source. (p.24, 37)

③ **COMPUTER button**
Select COMPUTER input source. (p.24, 26, 38)

④ **MENU button**
Open or close the On-Screen Menu. (p.21)

⑤ **Point ▲▼◀▶ (VOLUME + / –) buttons**
– Select an item or adjust the value in the On-Screen Menu. (p.21)
– Pan the image in Digital zoom + mode. (p.36)
– Adjust the volume level. (Point ◀▶ buttons) (p.24)

⑥ **SELECT button**
– Execute the selected item. (p.21)
– Expand or compress the image in Digital zoom mode. (p.36)

⑦ **D.ZOOM ▲▼ buttons**
Zoom in and out the images. (p.25, 36)

⑧ **FREEZE button**
Freeze the picture. (p.24)

⑨ **NO SHOW button**
Temporarily turn off the image on the screen. (p.25)

⑩ **LAMP CONTROL button**
Select the lamp mode. (p.25, 52)

⑪ **MUTE button**
Mute the sound. (p.24)

⑫ **P-TIMER button**
Operate the P-timer function. (p.25)

⑬ **IMAGE button**
Select the image level. (p.25, 31, 40)

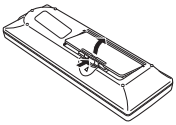
⑭ **AUTO PC button**
Automatically adjust the computer image to its optimum setting. (p.25, 28)

⑮ **KEYSTONE button**
Correct the keystone distortion. (p.23, 47)

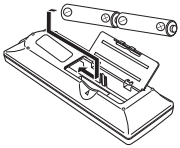
⚠ To ensure safe operation, please observe the following precautions:
– Do not bend, drop or expose the remote control to moisture or heat.
– For cleaning, use soft dry cloth. Do not apply benzene, thinner, spray or any chemical material.

Remote Control Battery Installation

1 Open the battery compartment lid.

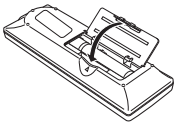


2 Install new batteries into the compartment.



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

3 Replace the compartment lid.

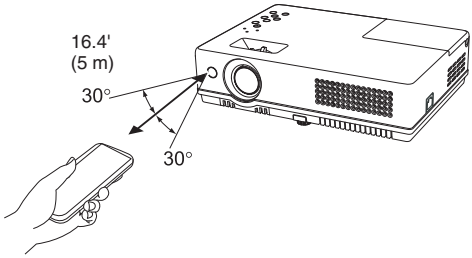


To ensure safe operation, please observe the following precautions:

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

Operating Range

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

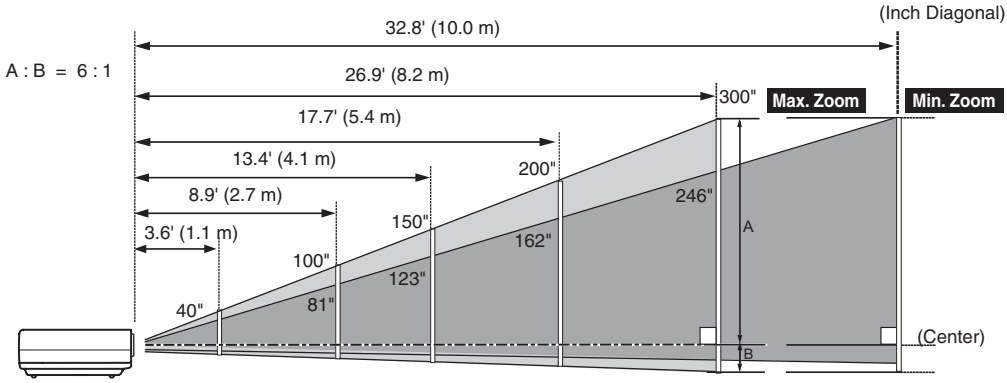


Positioning the Projector

For projector positioning, see the figures below. The projector should be set horizontally to the flat 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.
- The values shown below are approximate and may vary from the actual sizes.



Screen Size (W x H) mm 4 : 3 aspect ratio	40"	100"	150"	200"	300"
	813 x 610	2032 x 1524	3048 x 2286	4064 x 3048	6096 x 4572
Zoom (max)	3.6' (1.1 m)	8.9' (2.7 m)	13.4' (4.1 m)	17.7' (5.4 m)	26.9' (8.2 m)
Zoom (min)	4.3' (1.3 m)	10.8' (3.3 m)	16.4' (5.0 m)	22.0' (6.7 m)	32.8' (10.0 m)

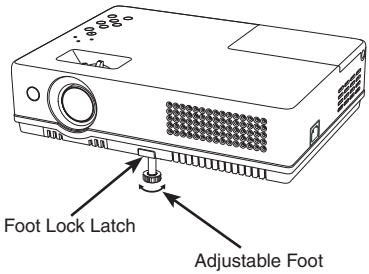
Adjustable Foot

Projection angle can be adjusted up to 10.0 degrees with the adjustable foot.

1 Lift the front of the projector and push the foot lock latch on the projector.

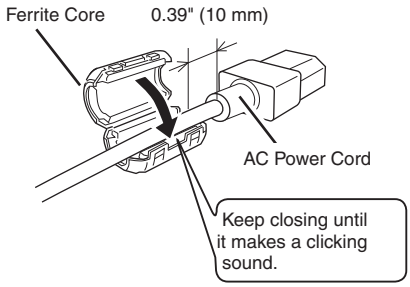
2 Release the foot lock latch to lock the adjustable foot and rotate the adjustable foot to adjust the position and tilt.

3 To retract the adjustable foot, lift the front of the projector and push and undo the foot lock latch. Keystone distortion of the projected image can be corrected by menu operation. (p.23, 47)



Using the ferrite core

Before using the AC Power Cord, attach the ferrite core (supplied) as shown in the figure. The Power Cord with ferrite core must be used for RF interference suppression.



Connecting the AC Power Cord

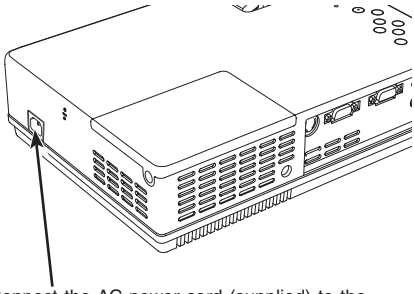
This projector uses nominal input voltages of 100-120 V or 200-240 V AC. This projector automatically selects the correct input voltage. It is designed to work with single-phase power systems having a grounded neutral conductor. To reduce the risk of electrical shock, do not plug into any other type of power system.
Consult your authorized dealer or service station if you are not sure of the type of power being supplied.
Connect the projector with all peripheral equipment before turning the projector on. (See pages 15-17 for connection.)

CAUTION

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

✔ **Note:**

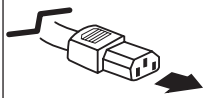
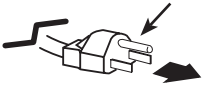
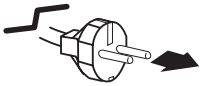
Unplug the AC power cord when the projector is not in use. When this projector is connected to an outlet with the AC power cord, it is in Stand-by mode and consumes a little electric power.



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

NOTE ON THE POWER CORD

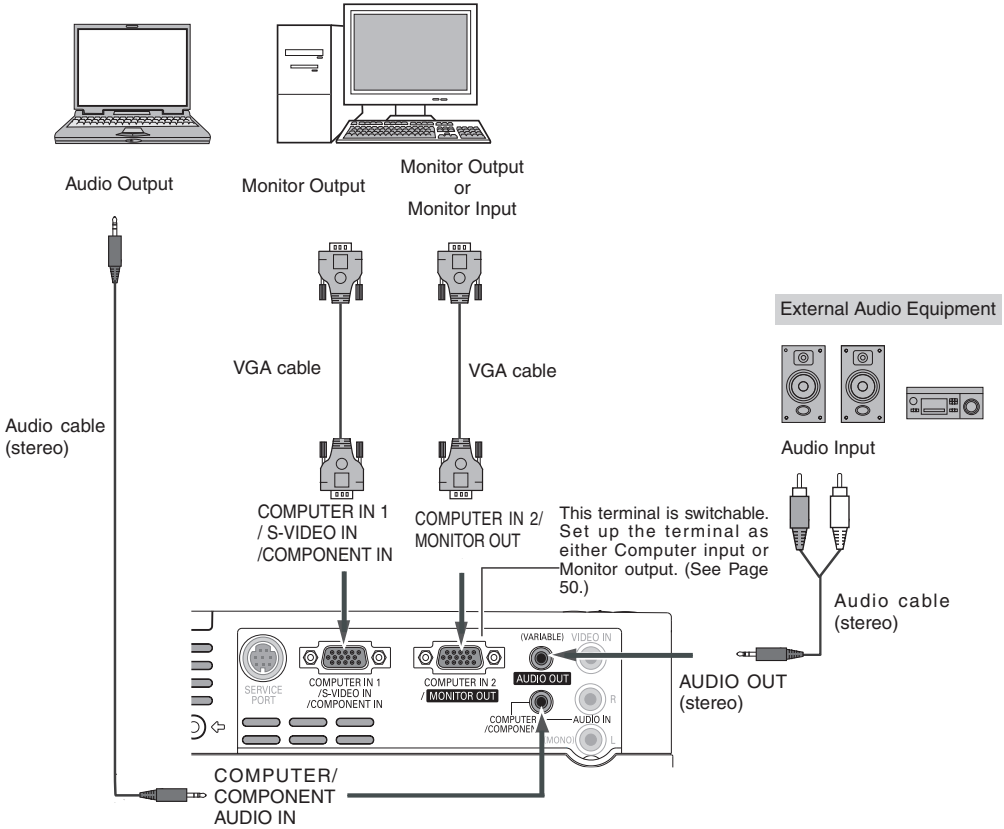
AC power cord must meet requirement of the country where you use the projector.
Confirm the AC plug type with the chart below and proper AC power cord must be used.
If supplied AC power cord does not match your AC outlet, contact your sales dealer.

Projector side	AC outlet side		
	For the U.S.A. and Canada	For Continental Europe	For the U.K.
 To power cord connector on your projector.	Ground  To the AC outlet. **(120 V AC)**	 To the AC outlet. **(200 - 240 V AC)**	To the AC outlet. **(200 - 240 V AC)**

Connecting to a Computer

Cables used for connection
- VGA Cables (Mini D-sub 15 pin) (Only one cable is supplied.)
- Audio Cables (Mini Plug: stereo)

(Not all the cables are supplied with this projector.)



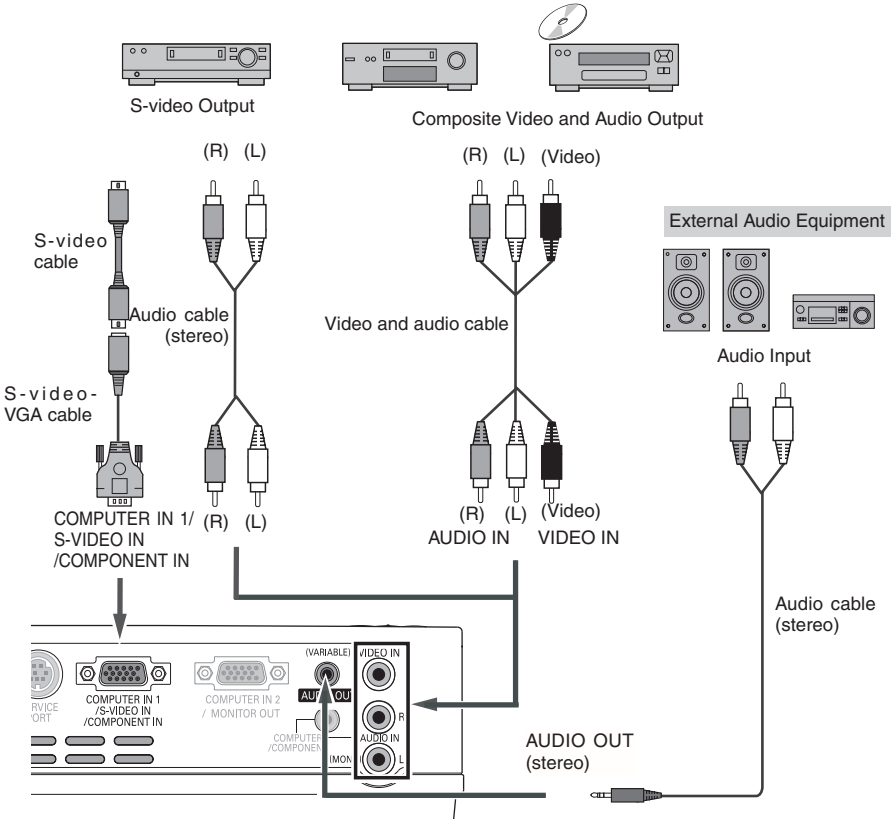
✔ **Notes:**
- Input sound to the COMPUTER / COMPONENT AUDIO IN terminal when using the COMPUTER IN 1 /S-VIDEO IN / COMPONENT IN and the COMPUTER IN 2 / MONITOR OUT terminal as input.
- When the AUDIO OUT is plugged-in, the projector's built-in speaker is not available.
- When the cable is of the longer variety, it is advisable to use the COMPUTER IN 1 /S-VIDEO IN / COMPONENT IN and not the COMPUTER IN 2/MONITOR OUT.

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

Connecting to Video Equipment

Cables used for connection
- Video and Audio Cable (RCA x 3)
- S-VIDEO Cable
- S-VIDEO-VGA Cable
- Audio Cable (RCA x 2, Mini Plug: stereo)

(Not all the cables are supplied with this projector.)



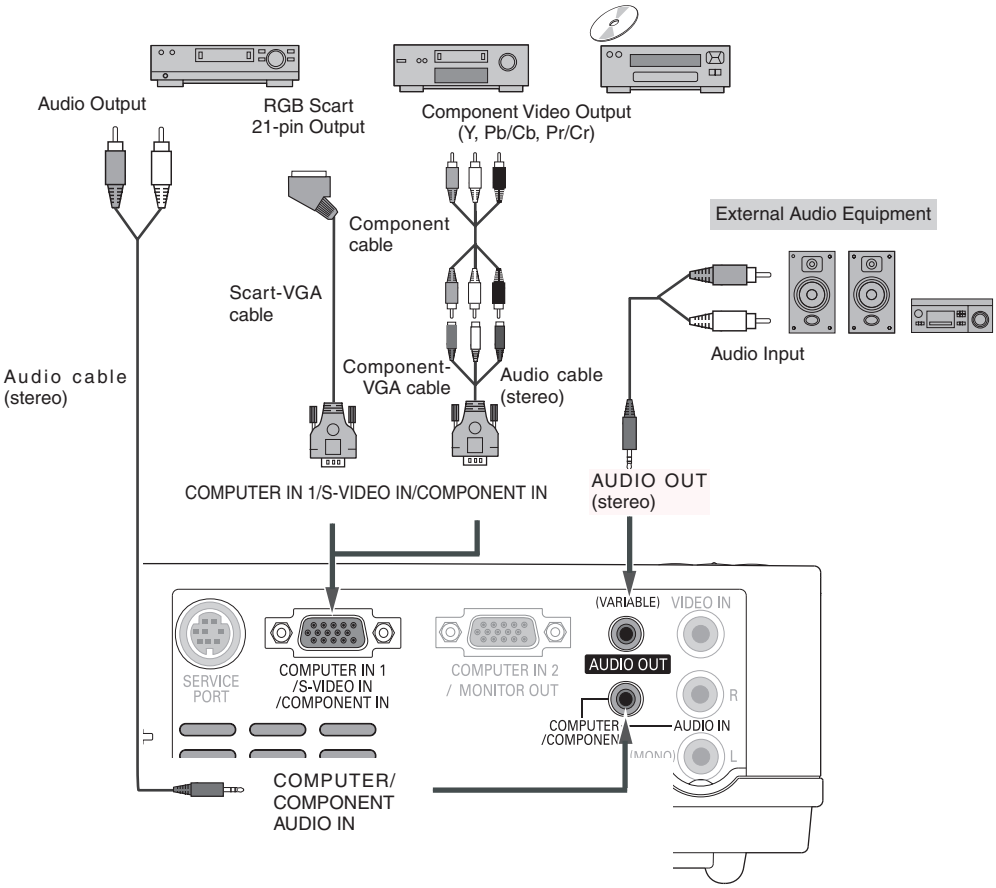
✔ **Notes:**
- When the AUDIO OUT is plugged-in, the projector's built-in speaker is not available.
- See page 72 for ordering optional parts.

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

Connecting to Component Video and RGB (Scart) Equipment

Cables used for connection
- Audio Cables (Mini Plug :stereo)
- Scart-VGA Cable
- Component Cable
- Component-VGA Cable

(Not all the cables are supplied with this projector.)



✔ **Notes:**
- When the AUDIO OUT is plugged-in, the projector's built-in speaker is not available.
- See page 72 for ordering optional parts.

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

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 becomes red. Open the lens cover.
3. Press the POWER ON/STAND-BY button on the top control or on the remote control. The POWER indicator becomes green 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 mode status icon (see page 52) appears on the screen.
5. If there is no signal input when start on the projector, or the current signal is missed while operating the projector, the Video/PC selection window will be displayed on the screen, please move the pointer to input source desired by pressing the Point ▲▼ buttons and press the SELECT button. And then follow the input signal guidance window to correct the signal and connection.

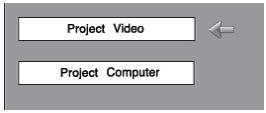
If the projector is locked with a PIN code, PIN code Input Dialog Box appears. Enter the PIN code as instructed on the next page.

The preparation display disappears after 30 seconds.

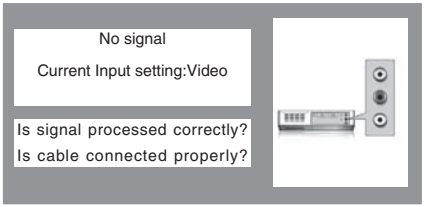
Selected Input Source and Lamp Mode

(See page 52 for Lamp mode.)

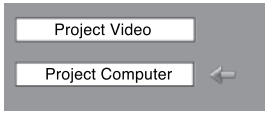
Video / PC selection window



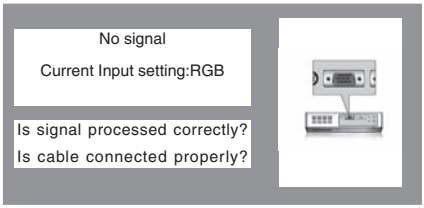
Input signal guidance window



Video / PC selection window



Input signal guidance window



✔ **Notes:**

- When the Input Search function is set On1 or On2, the input signal will be searched automatically (p.46)
- When the Logo select function is off, the logo is not shown on the screen. (p.48)
- When the "Countdown off" or "Off" is selected in the Display function, the countdown is not shown on the screen. (p.48)
- During the countdown period, all operations are invalid.
- When the "Off" is selected in the Display function, the Video/PC selection window and the input signal guidance window are not shown on the screen. (p.48)

To Enter a PIN code

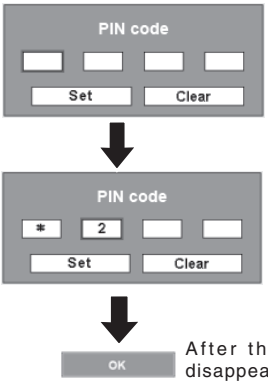
Select a number by pressing the Point ▲▼ buttons, and then press the Point ▶ button to fix the number and move the pointer. The number changes to "✳". If you fixed an incorrect number, move the pointer to the number you want to correct by pressing the Point ◀ button, and then select the correct number by pressing the Point ▲▼ buttons.

Repeat this step to complete entering a four-digit number. "1234" is set as the initial PIN code at the factory.

After entering the four-digit number, move the pointer to "Set" by pressing the Point ▶ button. Press the SELECT button so that you can start to operate the projector.

If you entered an incorrect PIN code, "PIN code" and the number (✳✳✳✳) turns red. Enter the correct PIN code all over again.

PIN Code Input Dialog Box



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

What is PIN code?

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

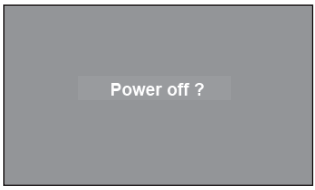
A PIN code consists of a four-digit number. Refer to the PIN code lock function in the Setting on pages 53 and 54 for locking operation of the projector with your PIN code.

> ⚠ **CAUTION ON HANDLING PIN CODE**
> If you forget your PIN code, the projector can no longer be started. Set a new PIN code with special care, write it down in column on page 74 of this manual, and keep it on hand. Should the PIN code be missing or forgotten, consult your dealer or service center.

✔ **Note:**
If the PIN code number is not input for three minutes after the PIN code dialog box appeared, the projector is turned off automatically.

Turning Off the Projector

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



The message disappears after 4 seconds.

2 Press the POWER ON/STAND-BY button again to turn off the projector.The POWER indicator starts to blink red, and the cooling fans keep running. (You can select the level of fan quietness and rotation speed. See page 55.)
At this time you can disconnect the AC power cord even if the fans are still running.

3 When the projector has cooled down enough, the POWER indicator stops blinking and you can turn on the projector.

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

⚠ DO NOT OPERATE THE PROJECTOR CONTINUOUSLY WITHOUT REST.CONTINUOUS USE MAY RESULT IN SHORTENTING THE LAMP LIFE.TURN OFF THE PROJECTOR AND GIVE IT A REST ABOUT AN HOUR IN EVERY 24 HOURS.

✔ **Notes:**

- When the On start function is on, this projector is turned on automatically by connecting the AC power cord to an AC outlet. (p.51)
- 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 indicator blinks or emits a red light, see "Warning indicator" on page 57.
- While the POWER indicator is blinking, lamp is being cooled down and the projector cannot be turned on. Wait until the POWER indicator stops blinking to be turned on again.
- The fan rotation will terminate directly if the AC power cord is unplugged immediately after the projector is turned off.
- The projector can be turned on after the POWER indicator turns red. The waiting time to restart will be shortened when the normal power-off processing for fan cooling is completed, compared with the time the AC power cord is immediately unplugged after the power-off.

How to Operate the On-Screen Menu

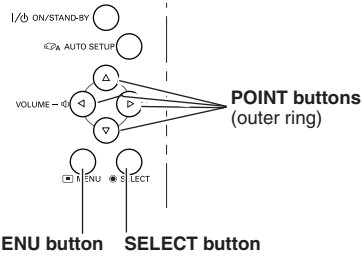
The projector can be adjusted or set via the On-Screen Menu. Refer to the following pages regarding each adjustment and setting procedures.

1. Press the MENU button to display the On-Screen Menu.
2. Press the Point ◀▶ buttons to select a Menu icon to adjust and press the Point ▲▼ buttons to select an item to adjust.
3. Press the SELECT button to show the item data. To adjust the data, press the Point ◀▶ buttons. Refer to the following pages for each adjustment.

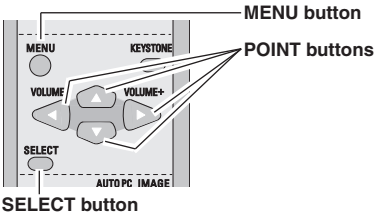
   To close the On-Screen Menu, press the MENU button again.

✔ **Note:**
The selected item is not active until the SELECT button is pressed.

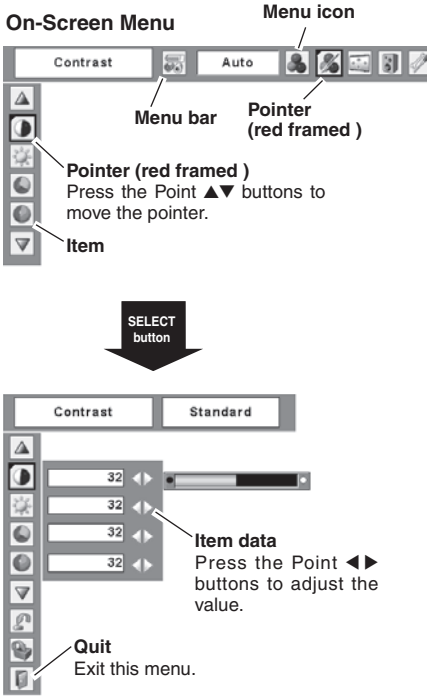
Top Control



Remote Control



On-Screen Menu



Menu Bar

For detailed functions, see Menu Tree on pages 66-68.

For computer source

Guide Window

Show the selected Menu of the On-Screen Menu.

PC System Menu

Used to select computer system. (p.27)

Image Select Menu

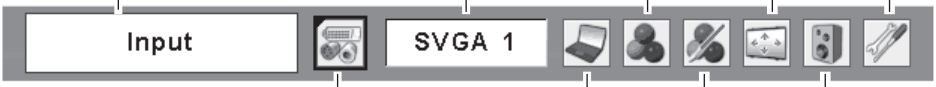
Used to select an image level among Dynamic, Standard, Real, Blackboard (Green), Colorboard and Image 1 ~ 4. (p.31)

Screen Menu

Used to adjust size of image. [Normal / True / Wide / Full / Custom / Digital zoom +/–] (p.34-36)

Setting Menu

Used to set the projector's operating configurations. (p.45-56)



Input Menu

Used to select input source either Computer or Video. (p.26)

PC Adjust Menu

Used to adjust parameters to match with input signal format. (p.28-30)

Image Adjust Menu

Used to adjust computer image.[Contrast / Brightness / Color temp. / White balance (R/G/B) / Sharpness / Gamma] (p.33-34)

Sound Menu

Used to adjust the volume or mute the sound. (p.24)

✔ **Note:**
Items will be same as the items in video source when 480i, 575i, 480p, 575p, 720p, 1035i or 1080i is selected.

For video source

Input Menu

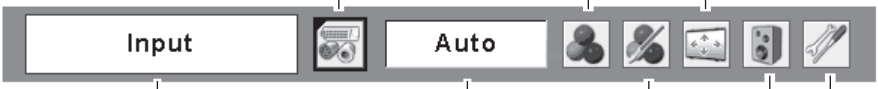
Used to select input source either Video or Computer. (p.37, 38)

Image Select Menu

Used to select an image level among Dynamic, Standard, Cinema, Blackboard (Green), Colorboard and Image 1 ~ 4. (p.40)

Screen Menu

Used to set size of image to Normal, Wide or Custom. (p.44)



Same function as menu for computer source.

AV System Menu

Used to select system of selected video source. (p.39)

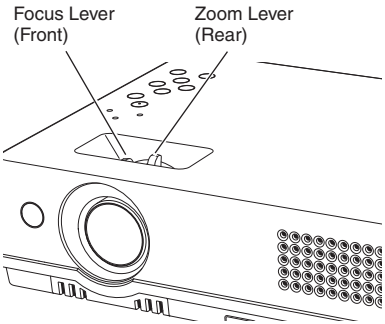
Image Adjust Menu

Used to adjust picture image. [Contrast / Brightness / Color / Tint / Color temp. / White balance (R/G/B) / Sharpness / Gamma / Noise reduction / Progressive] (p.42-43)

Same function as computer menu.

Zoom and Focus Adjustment

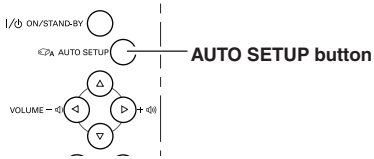
Rotate the Zoom Lever to zoom in and out.
Rotate the Focus Lever to adjust the projected picture focus.



Auto setup function

Auto setup function is provided to automatically execute the setting of Auto setup (includes Input search, Auto PC adj. and Auto Keystone functions) in the setting menu by just pressing the AUTO SETUP button on the top control. Refer to page 46 for the setting of the Auto setup function.

Top Control

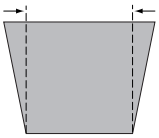


Keystone Correction

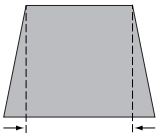
If a projected picture still has keystone distortion after pressing the AUTO SETUP button on the top control, correct the image manually as follows:

Press the KEYSTONE button on the remote control. The keystone dialog box appears.
Correct keystone distortion by pressing the Point ▲▼ buttons. Keystone adjustment can be memorized. (p.47)

Reduce the upper width with Point ▲ button.

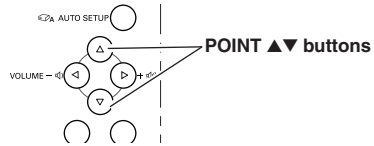


Reduce the lower width with Point ▼ button.

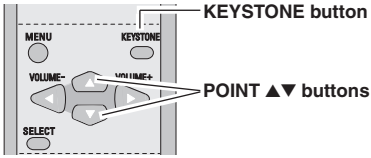


- The arrows are white when there is no correction.
- The direction of the arrow being corrected turns red.
- The arrows disappear at the maximum correction.
- If you press the KEYSTONE button on the remote control once more while the keystone dialog box is being displayed, the keystone adjustment is canceled.
- The adjustable range is limited depending on the input signal.

Top Control



Remote Control



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.
Mute function is also effective for AUDIO OUT jack.

Menu Operation

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

2. Press the Point ▲▼ buttons to move the red framed pointer to the item that you want to select, and then press the SELECT button.

Volume

Press the Point ▶ button to turn up the volume, and 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.

Remote Control Operation

For some frequently used operations, using the remote control is advisable.
Just pressing one of the buttons enables you to make the operation, and no need for calling up the On-Screen Menu.

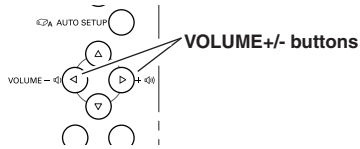
COMPUTER/VIDEO buttons

Press the COMPUTER or VIDEO button on the remote control to select the input source. For more detail, see pages 26, 37 and 38.

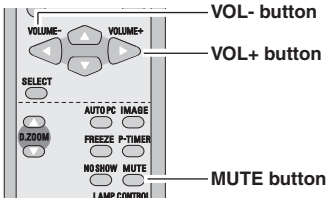
FREEZE button

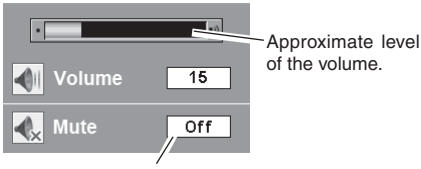
Press the FREEZE button on the remote control to freeze the picture on the screen. To cancel the Freeze function, press the FREEZE button again or press any other button.

Top Control



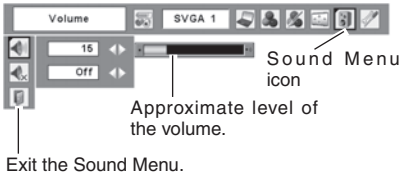
Remote Control



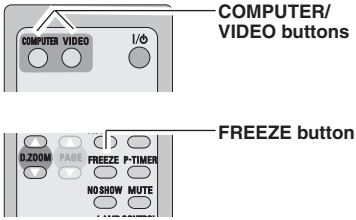


Press the MUTE button to set the Mute function On/Off. The display disappears after 4 seconds.

Sound Menu



Remote Control



✔ **Note:**
See the next page for the other buttons.

AUTO PC button

Press the AUTO PC button on the remote control to operate the Auto PC function. For more detail, see page 28.

D.ZOOM buttons

Press the D.ZOOM buttons on the remote control to zoom in and zoom out the images. For more detail, see page 36.

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. When a projected image is captured and set as "User" in the Logo selection (p.48), the screen changes each time you press the NO SHOW button as follows.

black out ➜ the captured image ➜ normal ➜.....

KEYSTONE button

For detail, see page 23.

IMAGE button

Press the IMAGE button on the remote control to select a desired image level of the screen. For more detail, see pages 31 and 40.

P-TIMER button

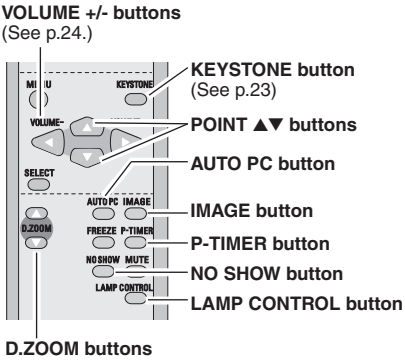
Press the P-TIMER button on the remote control. The timer display "00 : 00" appears on the screen and the timer starts to count time (00 : 00 ~ 59 : 59).
To stop the P-Timer, press the P-TIMER button. Press the P-TIMER button again, then the P-timer display disappears.

LAMP CONTROL button

Press the LAMP CONTROL button on the remote control to select the lamp mode for changing the brightness of the screen.

Normal . . . normal brightness
Auto . . . . . brightness according with the input signal
Eco..... lower brightness reduces the lamp power consumption and extends the lamp life.

Remote Control



✔ **Note:**
See the previous page for the other buttons.

The message disappears after 4 seconds.

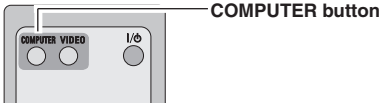
P-Timer display

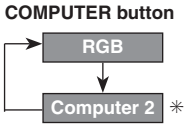
Input Source Selection

Direct Operation

Choose either RGB or Computer 2 by pressing the COMPUTER button on the remote control. Before using COMPUTER button, correct input source should be selected through Menu operation as described below.

Remote Control





✳ See Notes at the bottom of this page.

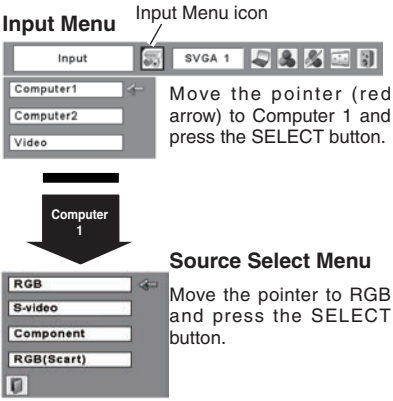
Menu Operation

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

2 Press the Point ▲▼ buttons to move the red arrow pointer to either Computer 1 or Computer 2, and then press the SELECT button.

3 After the Source Select Menu appeared for Computer 1, move the pointer to RGB and then press the SELECT button.

Input Menu

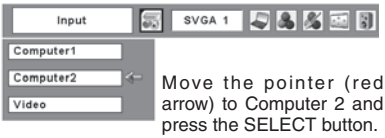


Move the pointer (red arrow) to Computer 1 and press the SELECT button.

Source Select Menu

Move the pointer to RGB and press the SELECT button.

Input Menu



Move the pointer (red arrow) to Computer 2 and press the SELECT button.

✔ **Notes:**

- When the Input Search function is set On1 or On2, the input signal will be searched automatically (p.46)
- Computer 2 is not displayed when the COMPUTER IN 2/MONITOR OUT terminal is set as Monitor out. (p.50)
- Computer 2 (COMPUTER IN 2 / MONITOR OUT) can accept only RGB signal.

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 Computer is selected as a signal source, this projector automatically detects the signal format and tunes to project a proper image without any additional setting. (Signal formats provided in this projector is shown on page 70)

One of the following messages may appear when:

Auto — The projector cannot recognize the connected signal conforming to the provided PC Systems. The message "Auto" is displayed on the PC System Menu icon and the Auto PC Adjustment function works to display proper images. If the image is not projected properly, a manual adjustment is required. (p.29-30)

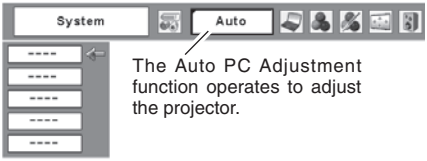
----- — There is no signal input from computer. Check the connection between your computer and the projector. (See "Troubleshooting" on pages 63-65.)

Mode 1 — The preset system is manually adjusted in the PC Adjust Menu. The adjusted data can be stored in Mode 1 ~ 5. (p.29-30)

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



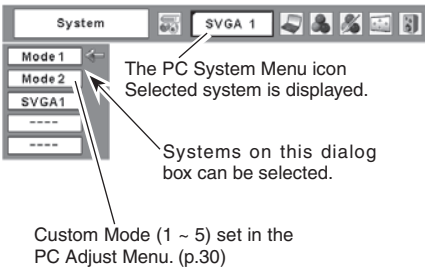
Selecting Computer System Manually

PC system can also be selected manually.

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

2 Press the Point ▲▼ buttons to move the red arrow pointer to the system that you want to set, and then press the SELECT button.

PC System Menu



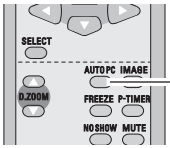
Auto PC Adjustment

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

Direct Operation

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

Remote Control



AUTO PC button

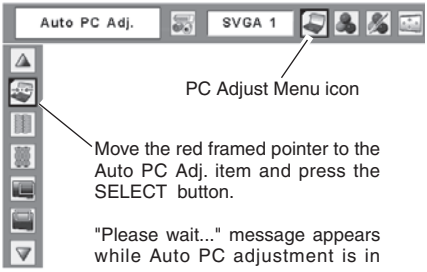
Menu Operation

Auto PC Adj.

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

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

PC Adjust Menu



PC Adjust Menu icon

Move the red framed pointer to the Auto PC Adj. item and press the SELECT button.

"Please wait..." message appears while Auto PC adjustment is in process.

To store adjustment parameters

Adjustment parameters from Auto PC Adjustment can be memorized in this projector. Once parameters are memorized, the setting can be done just by selecting Mode in the PC System Menu (p.27). See "Store" on page 30.

✔ **Notes:**

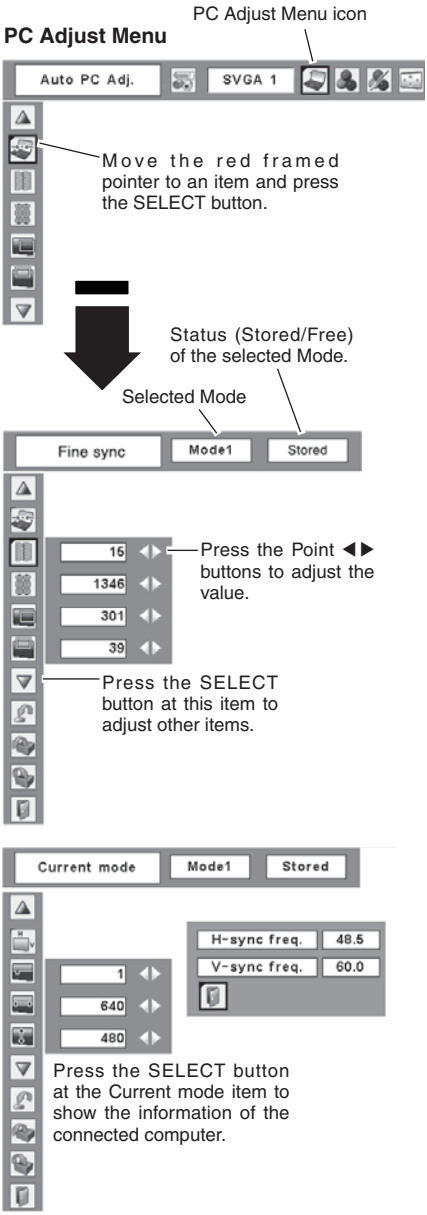
- Fine sync, Total dots, Horizontal, and Vertical of some computers cannot be fully adjusted with this Auto PC Adjustment function. When the image is not provided properly with this operation, manual adjustments are required. (p.29-30)
- The Auto PC Adjustment cannot be operated when 480i, 575i, 480p, 575p, 720p,1035i, or 1080i is selected in the PC System Menu. (p.27)

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 5 independent memory areas to memorize 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. Press the Point ◀▶ buttons to move the red framed pointer to the PC Adjust Menu icon.

2 Press the Point ▲▼ buttons to move the red framed pointer to the item that you want to adjust and then press the SELECT button to display the adjustment dialog box. Press the Point ◀▶ buttons to adjust the value.



Fine sync

Eliminate flicker from the image displayed. Press the Point ◀▶ buttons to adjust the value. (From 0 to 31.)

Total dots

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

Horizontal

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

Vertical

Press 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

Adjust clamp level. When the image has dark bars, try this adjustment.

Display area H

Adjust the horizontal area displayed by this projector. Press the Point ◀▶ buttons to decrease/increase the value.

Display area V

Adjust the vertical area displayed by this projector. Press the Point ◀▶ buttons to decrease/increase the value.

Reset

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

Mode free

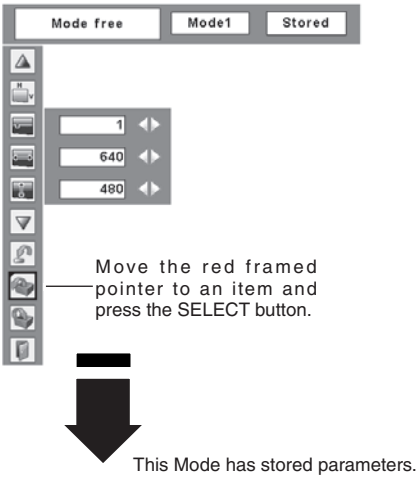
To clear the stored data, move the red framed pointer to the Mode free item and then press the SELECT button. Move the red arrow pointer to the Mode that you want to clear and then press the SELECT button.

Store

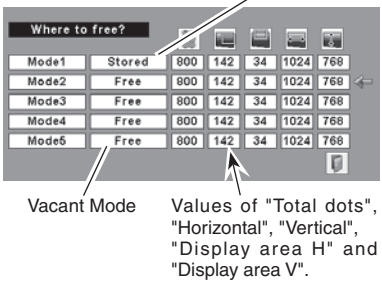
To store adjusted data, move the red framed pointer to the Store item and then press the SELECT button. Move the red arrow pointer to any of Mode 1 to 5 in which you want to store and then press the SELECT button.

Quit

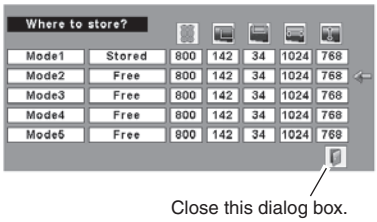
Exit the PC Adjust Menu.



To clear adjusted data



To store adjusted data



✔ **Note:**
Display area (H/V) cannot be selected when 480i, 575i, 480p, 575p, 720p, 1035i, or 1080i is selected in the PC System Menu (p.27).

Image Level Selection

Direct Operation

Select an image level among Dynamic, Standard, Real, Blackboard (Green), Colorboard, Image 1, Image 2, Image 3, and Image 4 by pressing the IMAGE button on the remote control.

Remote Control

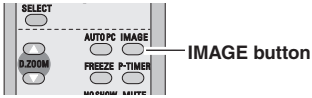
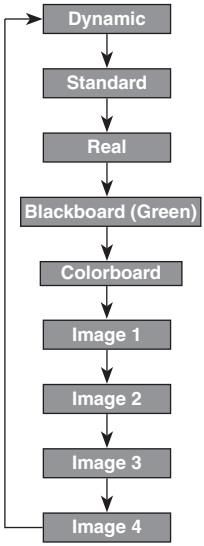


IMAGE button



Dynamic

Picture level suitable for viewing picture in a bright room.

Standard

Normal picture level preset on this projector.

Real

Picture level with improved halftone for graphics.

Blackboard (Green)

Picture level suitable for the image projected on a blackboard. This mode assists to enhance the image projected on a blackboard. This is mainly effective on a green colored board, not truly effective on a black colored board.

Colorboard

At the time of simple projection on the colored wall, you can get the close color image to the color image projected on a white screen by selecting the similar color to the wall color from the preset four colors.

Image 1 ~ 4

User preset image in the Image Adjust Menu. (p.34)

Menu Operation

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

2 Press the Point ▲▼ buttons to move the red framed pointer to the level that you want to set and then press the SELECT button.

Dynamic

Picture level suitable for viewing picture in a bright room.

Standard

Normal picture level preset on this projector.

Real

Picture level with improved halftone for graphics.

Blackboard (Green)

Picture level suitable for the image projected on a blackboard. See above for further description.

Colorboard

At the time of simple projection on the colored wall, you can get the close color image to the color image projected on a white screen by selecting the similar color to the wall color from the preset four colors. Press the SELECT button to choose the color.

Image 1 ~ 4

User preset image in the Image Adjust Menu. (p.34)

Image Select Menu

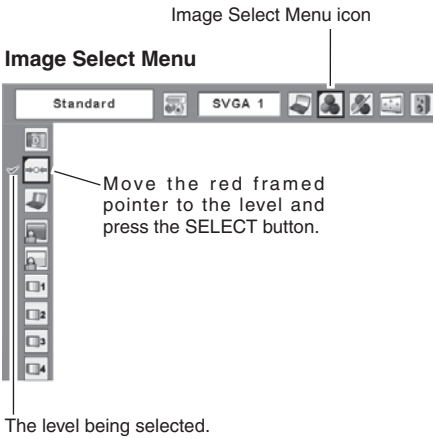
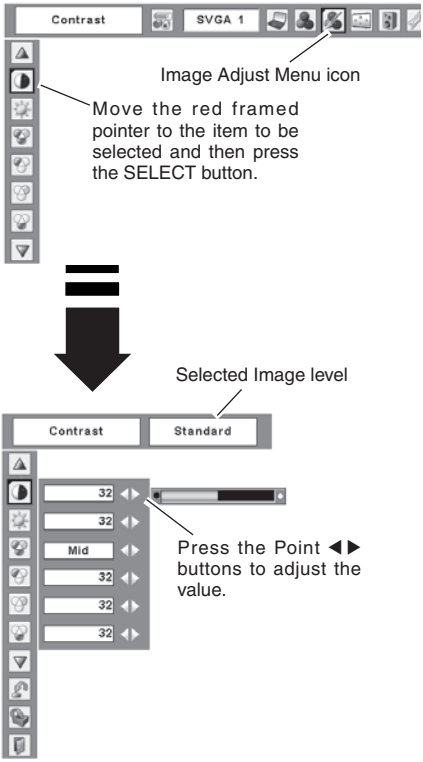


Image Level Adjustment

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

2 Press the Point ▲▼ buttons to move the red framed pointer to the item that you want to adjust, and then press the SELECT button. The level of each item is displayed. Adjust each level by pressing the Point ◀▶ buttons.

Image Adjust Menu



Contrast

Press the Point ◀ button to decrease the contrast and the Point ▶ button to increase contrast. (From 0 to 63.)

Brightness

Press the Point ◀ button to adjust the image darker and the Point ▶ button to adjust the image brighter. (From 0 to 63.)

Color temp.

Press the Point ◀ button or the Point ▶ button for Color temp. level that you want to select. (XLow, Low, Mid, or High)

White balance (Red)

Press the Point ◀ button to lighten the red tone and the Point ▶ button to deepen the red tone. (From 0 to 63.)

White balance (Green)

Press the Point ◀ button to lighten the green tone and the Point ▶ button to deepen the green tone. (From 0 to 63.)

White balance (Blue)

Press the Point ◀ button to lighten the blue tone and the Point ▶ button to deepen the blue tone. (From 0 to 63.)

Sharpness

Press the Point ◀ button to soften the image and the Point ▶ button to sharpen the image. (From 0 to 15.)

Gamma

Press the Point ◀▶ buttons to obtain better balance of contrast. (From 0 to 15.)

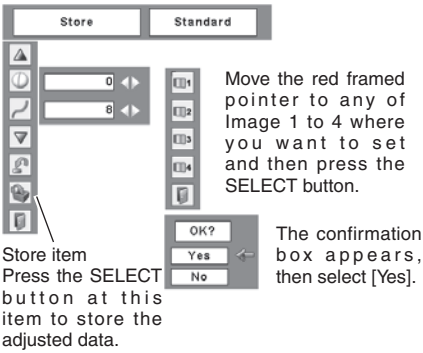
Reset

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

✔ **Note:**
After adjusting any of the White balance Red, Green, or Blue, the Color temp changes to "Adj.".

Store

To store the adjusted data, select Store and press the SELECT button. Select a level from Image 1 to 4 with the Point ▲▼ buttons and press the SELECT button. A confirmation box appears and then select [Yes].
Stored data can be called up by selecting "Image" in the Image Level Selection on page 31.



Quit

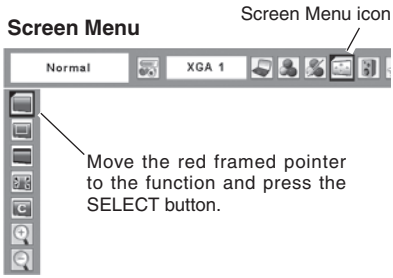
Exit the Image Adjust Menu.

Screen Size Adjustment

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

1. Press the MENU button to display the On-Screen Menu. Press the Point ◀▶ buttons to move the red framed pointer to the Screen Menu icon.
2. Press the Point ▲▼ buttons and move the red framed pointer to the function that you want to select and then press the SELECT button.

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), this projector enters panning mode automatically. Pan the image with Point ▲▼◀▶ buttons. When adjusted, the arrows turn red. When reached to the correction limit, the arrows disappear.

✔ **Notes:**

- This Screen Menu, except for "Normal" and "Custom", cannot be operated when 720p(HDTV), 1035i (HDTV), or 1080i (HDTV) is selected in the PC System Menu (p.27).
- The projector cannot display any resolution higher than 1600x1200. If your computer's screen resolution is higher than it, reset the resolution to the lower before connecting to the projector.
- The image data in other than XGA (1024x768) is modified to fit the screen size in initial mode.
- True, Full, and Digital zoom +/– cannot be selected when 480i, 575i, 480p, or 575p is selected in the PC System Menu (p.27).

Wide

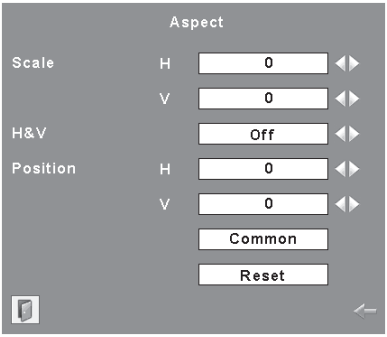
Provide the image to fit wide video aspect ratio (16:9) by expanding the image width uniformly. This function can be used for providing a squeezed video signal at 16:9.

Full

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 the "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 +

When the Digital zoom + is selected, the On-Screen Menu disappears and the message "D. zoom +" is displayed. Press the SELECT button to expand the image size. And press the Point ▲▼◀▶ buttons to pan the image. The Panning function can work only when the image is larger than the screen size.

A projected image can be also expanded by pressing the D.ZOOM ▲ button on the remote control.

Digital zoom –

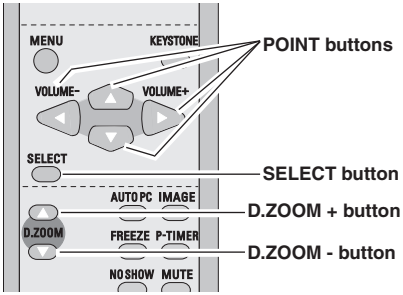
When Digital zoom – is selected, the On-Screen Menu disappears and the message "D. zoom –" is displayed. Press the SELECT button to compress image size.

A projected image can be also compressed by pressing the D.ZOOM ▼ button on the remote control.

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

To return to the previous screen size, select a screen size from the Screen Size Adjustment or select an input source from the Input Source Selection (p.26) again, or adjust the screen size with the D.ZOOM ▲▼ buttons.

Remote Control



✔ **Notes:**

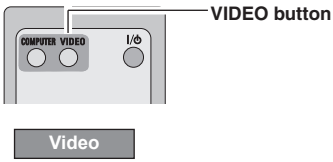
- The panning function may not operate properly if the stored Mode in the PC Adjust Menu is used. (p.30)
- The minimum compression ratio can be limited depending on the input signal or when the Keystone function is working or when the Custom is selected for the screen size.
- True, Full, and Digital zoom +/– cannot be selected when 480i, 575i, 480p, or 575p is selected in the PC System Menu (p.27).
- Digital zoom +/- cannot be selected when Full or True is selected.

Input Source Selection (Video)

Direct Operation

Choose Video by pressing the VIDEO button on the remote control.

Remote Control

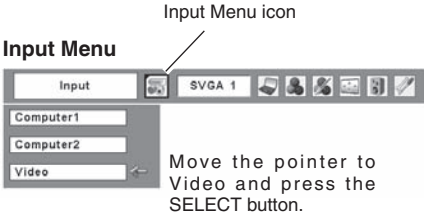


Menu Operation

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

2 Press the Point ▲▼ buttons to move the red arrow pointer to Video and then press the SELECT button.

Input Menu



✔ **Note:**
When the Input Search function is set On1 or On2, the input signal will be searched automatically (p.46)

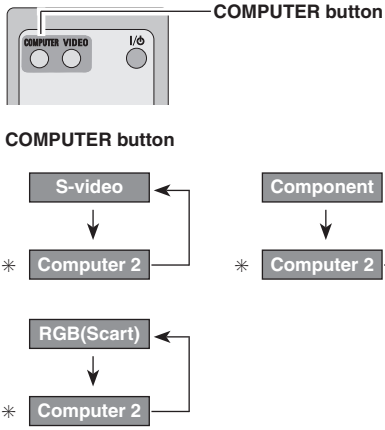
Input Source Selection (S-video, Component, RGB Scart 21-pin)

Direct Operation

Choose S-video, Component or RGB(Scart) by pressing the COMPUTER button on the remote control.
Before using COMPUTER button, correct input source should be selected through Menu operation as described below.

✔ **Note:**
The operations in the figure are processed when the Input Search function is set to "Off".

Remote Control



✳ See Notes at the bottom of this page.

Menu Operation

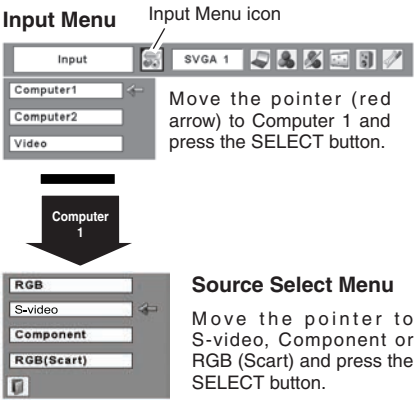
1. Press the MENU button to display the On-Screen Menu. Press the Point ◀▶ buttons to move the red framed pointer to the Input Menu icon.
2. Press the Point ▲▼ buttons to move the red arrow pointer to Computer 1 and then press the SELECT button.
3. After the Source Select Menu appeared for Computer 1, move the pointer to S-video, Component or RGB (Scart) and then press the SELECT button.

S-video — When S-video input signal is connected to the COMPUTER IN 1/S-VIDEO IN/ COMPONENT IN jack with a S-VIDEO-VGA cable, select S-video.

Component — When the input source is coming from video equipment connected to the COMPUTER IN 1/S-VIDEO IN/COMPONENT IN terminal with a Component-VGA Cable, select Component.

RGB (Scart) — When the input source is coming from video equipment connected to the COMPUTER IN 1/S-VIDEO IN/ COMPONENT IN terminal with a Scart-VGA Cable, select RGB (Scart).

Input Menu



Move the pointer (red arrow) to Computer 1 and press the SELECT button.

Source Select Menu

Move the pointer to S-video, Component or RGB (Scart) and press the SELECT button.

✔ **Notes:**
- When the COMPUTER button is pressed while the Input search function is set to "On1" or "On2", the input signal will be searched automatically (p.46)
- When Monitor out is selected in the Terminal function (p.50), Computer 2 is not displayed.

Video System Selection

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

2 Press the Point ▲▼ buttons to move the red arrow pointer to the system that you want to select and then press the SELECT button.

Video or S-video

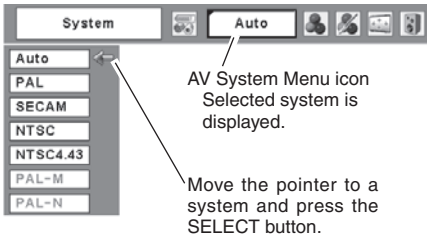
Auto

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

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

If the projector cannot reproduce proper video image, it is necessary to select a specific broadcast signal format among PAL, SECAM, NTSC, NTSC 4.43, PAL-M, and PAL-N.

AV System Menu (Video or S-video)



Component

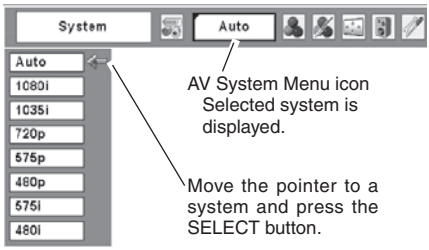
Auto

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

COMPONENT VIDEO SIGNAL FORMAT

If the projector cannot reproduce proper video image, it is necessary to select a specific component video signal format among 480i, 575i, 480p, 575p, 720p, 1035i, and 1080i.

AV System Menu (Component)



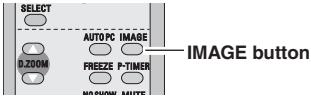
✔ **Note:**
The AV System Menu cannot be selected when selecting RGB (Scart).

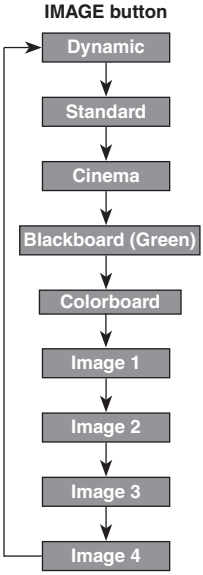
Image Level Selection

Direct Operation

Select an image level among Dynamic, Standard, Cinema, Blackboard (Green), Colorboard, Image 1, Image 2, Image 3, and Image 4 by pressing the IMAGE button on the remote control.

Remote Control





Dynamic

Picture level suitable for viewing picture in a bright room.

Standard

Normal picture level preset on this projector.

Cinema

Picture level adjusted for the picture with fine tone.

Blackboard (Green)

Picture level suitable for the image projected on a blackboard. This is mainly effective on a green colored board, not truly effective on a black colored board.

Colorboard

At the time of simple projection on the colored wall, you can get the close color image to the color image projected on a white screen by selecting the similar color to the wall color from the preset four colors.

Image 1 ~ 4

User preset image in the Image Adjust Menu (p.43).

Menu Operation

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

2 Press the Point ▲▼ buttons to move the red framed pointer to the level that you want to set and then press the SELECT button.

Dynamic

Picture level suitable for viewing picture in a bright room.

Standard

Normal picture level preset on this projector.

Cinema

Picture level with improved halftone for graphics.

Blackboard (Green)

Picture level suitable for the image projected on a blackboard. See above for further description.

Colorboard

At the time of simple projection on the colored wall, you can get the close color image to the color image projected on a white screen by selecting the similar color to the wall color from the preset four colors. Press the SELECT button to choose the color.

Image 1 ~ 4

User preset image in the Image Adjust Menu. (p.43)

Image Select Menu

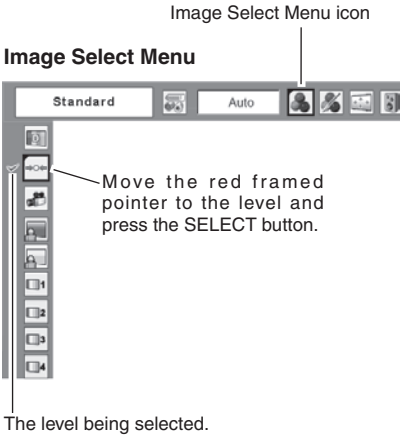
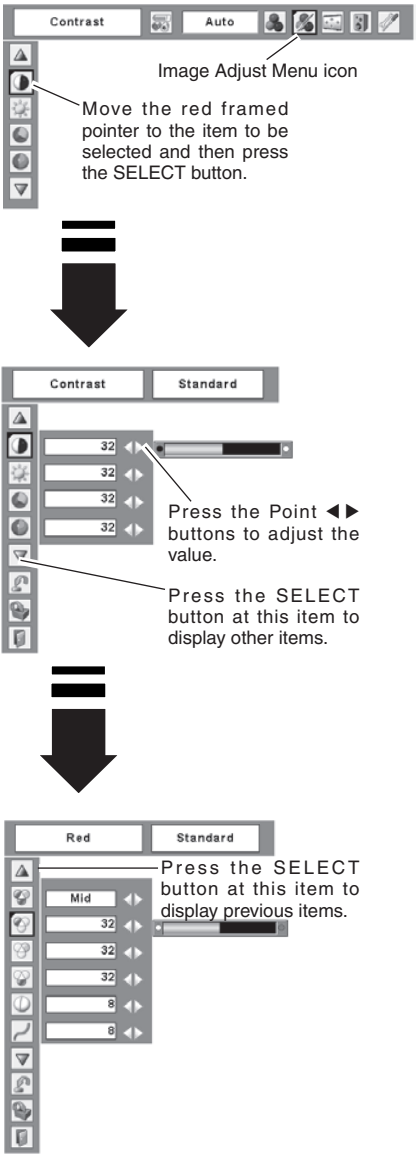


Image Level Adjustment

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

2 Press the Point ▲▼ buttons to move the red framed pointer to the item that you want to adjust, and then press the SELECT button. The level of each item is displayed. Adjust each level by pressing the Point ◀▶ buttons.

Image Adjust Menu



Contrast

Press the Point ◀ button to decrease the contrast and the Point ▶ button to increase contrast. (From 0 to 63.)

Brightness

Press the Point ◀ button to adjust the image darker and the Point ▶ button to adjust the image brighter. (From 0 to 63.)

Color

Press the Point ◀ button to lighten the color and the Point ▶ button to deepen the color. (From 0 to 63.)

Tint

Press the Point ◀▶ buttons to obtain a proper color. (From 0 to 63.)

Color temp.

Press the Point ◀ button or the Point ▶ button for Color temp. level that you want to select. (XLow, Low, Mid, or High)

White balance (Red)

Press the Point ◀ button to lighten the red tone and the Point ▶ button to deepen the red tone. (From 0 to 63.)

White balance (Green)

Press the Point ◀ button to lighten the green tone and the Point ▶ button to deepen the green tone. (From 0 to 63.)

White balance (Blue)

Press the Point ◀ button to lighten the blue tone and the Point ▶ button to deepen the blue tone. (From 0 to 63.)

✔ **Notes:**

- The Tint cannot be selected when the video system is PAL, SECAM, PAL-M, or PAL-N.
- After adjusting any of the White balance Red, Green, or Blue, the Color temp. changes to "Adj.".

Sharpness

Press the Point ◀ button to soften the image and the Point ▶ button to sharpen the image. (From 0 to 15.)

Gamma

Press the Point ◀▶ buttons to obtain better balance of contrast. (From 0 to 15.)

Noise reduction

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

Off . . . . disabled.
L1. . . . . lower reduction
L2. . . . . higher reduction

Progressive

Interlaced video signal can be displayed in a progressive picture. Select one of the following.

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

Reset

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

Store

To store the adjusted data, select Store and press the SELECT button. Select a level from Image 1 to 4 with the Point ▲▼ buttons and press the SELECT button. A confirmation box appears and then select [Yes].
Stored data can be called up by selecting "Image" in the Image Level Selection on page 40.

Quit

Exit the Image Adjust Menu.

✔ **Note:**
Noise reduction and Progressive cannot be selected when 480p, 575p, 720p, 1035i, or 1080i is selected. (p.39)

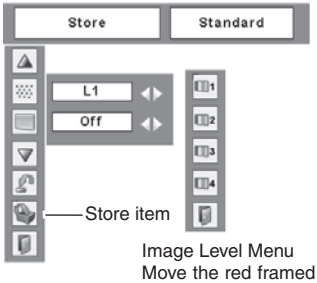


Image Level Menu
Move the red framed pointer to an image item to be set and then press the SELECT button.

The confirmation box appears and then select [Yes].

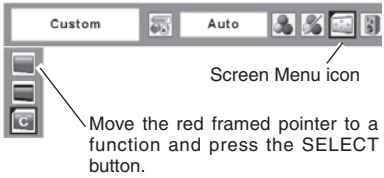
Screen Size Adjustment

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

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

2 Press the Point ▲▼ buttons and move the red framed pointer to the function that you want to select and then press the SELECT button.

Screen Menu



Normal

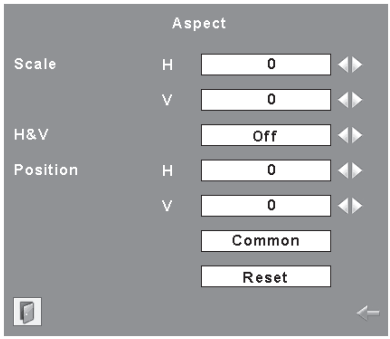
Provide the image at a normal video aspect ratio of 4:3.

Wide

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

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.



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

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 the "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".

✔ **Notes:**

- Wide cannot be operated when 720p, 1035i, or 1080i is selected in the AV System Menu (p.39).
- 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.

Setting

This projector has Setting menu that allows you to set up the other various functions described as follows:

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

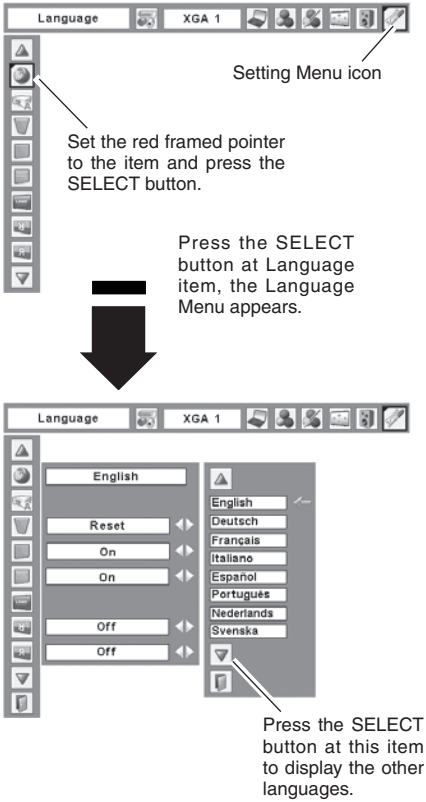
2 Press the Point ▲▼ buttons to move the red framed pointer to the item that you want to set and then press the SELECT button. The Setting dialog box appears.

Language

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

See the next pages for other items.

Setting Menu (Language)



Auto setup

This function enables Input search, Auto Keystone correction and Auto PC adjustment by pressing the AUTO SETUP button on the top control. Settings for those functions can be altered as follows:

Input search ✳

This function detects the input signal automatically. When finding a signal, the search will stop. Use the Point ◀▶ buttons to select one of the following.

Off . . . . Input search does not work.

On1 . . . Input search works under the situation below.
- When pressing the AUTO SETUP button on the top control.
- When pressing the COMPUTER button or VIDEO button on the remote control.

On2 . . . Input search works under the situation below.
- When turning on the projector with pressing the POWER ON/STAND-BY button on the top control or on the remote control.
- When pressing the AUTO SETUP button on the top control.
- When pressing the COMPUTER button or VIDEO button on the remote control.
- When missing the current input signal.

✳
- If the No show or Freeze function is active, cancel it to activate the Input search. It is also unavailable when On-Screen menu is displayed.
- While Input Search is set On1 or On2, the status of Input and Lamp mode are displayed every time the signal is switched.
- The signal input from S-VIDEO can not be detected.
- If any of the COMPUTER or VIDEO button on the remote control, or AUTO SETUP button on the top control is pressed while Input search is on, Input search will stop.

Auto PC Adj.

On . . . . Enables Auto PC Adjustment when pressing the AUTO SETUP button on the top control.

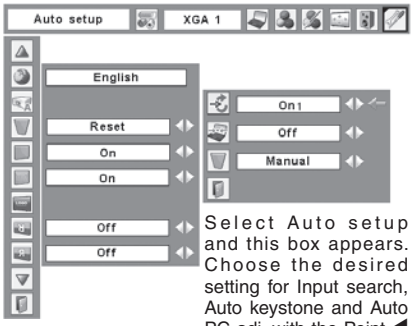
Off . . . . Disables Auto PC Adjustment.

Auto Keystone

Auto . . . Always works and corrects keystone distortion according to the projector's tilt.

Manual . Works only when pressing the AUTO SETUP button on the top control.

Off . . . . Disables Auto Keystone.



Select Auto setup and this box appears. Choose the desired setting for Input search, Auto keystone and Auto PC adj. with the Point ◀ ▶ buttons.

✔Notes:

- Input search, Auto PC Adj. and Auto Keystone cannot be set "Off" at the same time.
- Auto Keystone adjusts automatically by pressing the AUTO SETUP button either it is set on "Auto" or "Manual" in setting menu.
- Auto Keystone corrects vertical distortion only, not correct horizontal distortion.
- The Auto Keystone cannot work when Ceiling feature is set "On" in the Setting menu (p.50).
- Perfect correction of the image distortion cannot be ensured with the Auto setup function. If the distortion is not corrected properly by pressing the AUTO SETUP button, adjust manually by pressing the KEYSTONE button on the remote control or selecting Keystone in the Setting menu (p.23, 47).
- 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 (p.29–30).

Keystone

This function corrects distortion of a projected image. Select either Store or Reset with the Point ◀▶ buttons, and then press the SELECT button. The keystone dialog box appears. Correct keystone with the Point ▲▼ buttons. (p.23)

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

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

Blue back

Press the Point ◀▶ buttons to switch On/Off. When this function is "On", a blue image is displayed while the input signal is not detected.

Display

Press the Point ◀▶ buttons to switch On/Off. This function decides 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. Factory default setting is this mode.

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. . . . . Do not show On-Screen Displays, except;

- On-Screen Menu
- "Power off?" message
- P-Timer
- "No signal" message for Power management item (p.51)
- "Please wait..." message
- Arrows for panning mode in the Screen Menu (p.34)

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 Logo PIN code lock function, Logo select and Capture functions cannot be selected.

Logo select

This function decides the start-up display as follows:

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

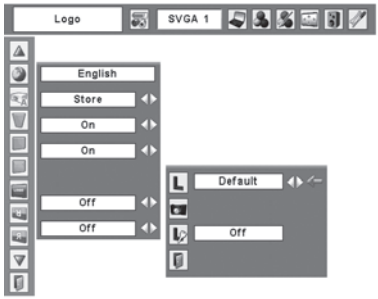
Capture

This function enables you to capture the image being projected and use it for a start-up display or interval of presentations.
After capturing the projected image, go to the Logo select function and set it to "User". Then the captured image is displayed when turning on the projector next time or pressing the NO SHOW button. (p.25)
To capture the image, select [Yes]. To cancel the Capture function, select [No].

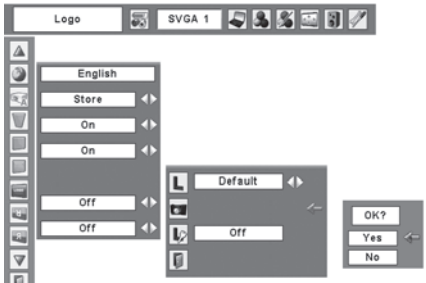
✔ **Notes:**

- Before capturing an image, select Standard in the Image Select Menu to capture a proper image. (p.32, 40.)
- A signal from a computer can be captured up to XGA (1024x768). 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 adjustment data is automatically reset and the projector captures an image without keystone adjustment.
- When the Logo PIN code lock function is "On", Capture menu 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 select



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 select menu. (p.48)
On . . . . . the screen logo cannot be changed without the Logo PIN code.

If you want to change the Logo PIN code lock setting, enter a Logo PIN code along the following steps. The initial Logo PIN code is set "4321" at the factory.

To Enter the Logo PIN code

Select a number by pressing the Point ▲▼ buttons. And then press the Point ▶ button to fix the number and move the pointer. The number changes to "✳". If you fixed an incorrect number, move the pointer to the number you want to correct by pressing the Point ◀ button, and then select the correct number by pressing the Point ▲▼ buttons.

Repeat this step to complete entering a four-digit number.

After entering the four-digit number, move the pointer to "Set" by pressing the Point ▶ button. Press the SELECT button so that you can change the Logo PIN code lock setting.

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

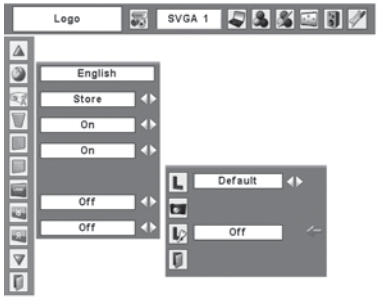
To Change the Logo PIN code

Logo PIN code can be changed to your desired four-digit number. Select "Logo PIN code change" with the Point ▼ button and press the SELECT button. Set a new Logo PIN code.

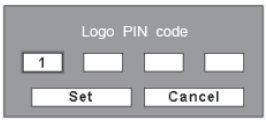
Be sure to note the new Logo PIN code and keep it on hand. If you lost the number, you could no longer change the Logo PIN code setting. For details on PIN code setting, refer to relevant instructions of the PIN code lock function on pages 53 and 54.

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 74, AND KEEP IT SECURELY. SHOULD THE LOGO PIN CODE BE LOST OR FORGOTTEN, THE PROJECTOR CAN NO LONGER BE OPERATED.

Logo PIN code lock



Logo PIN code lock Dialog Box



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

Select On/Off by pressing the Point ◀▶ buttons or change the Logo PIN code.

Ceiling

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

Rear

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

Terminal

The COMPUTER IN 2/MONITOR OUT terminal on the back of the projector is switchable for computer input or monitor output. (See page 9) Select Computer 2 or Monitor Out with the Point ◀▶ buttons.

Computer 2 . . . . . computer input
Monitor Out . . . . . monitor out

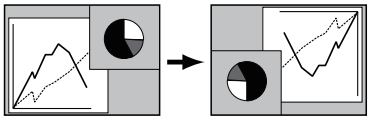
Terminal function is not available when selecting Computer 2 to the input source. Change the input source to the others (Computer1 or Video) so that the Terminal function will be available. (p.26, 37, 38)

Standby mode

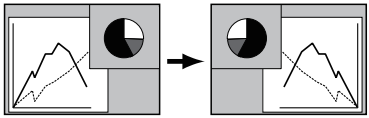
This function is available when the projector is turned off and in Stand-by. It is recommended to use Eco under normal condition.

Normal . . . . . normal power consumption in Stand-by condition.
Eco. . . . . lower power consumption than Normal mode in Stand-by condition.

Ceiling



Rear



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.
When the input signal is interrupted and no button is pressed for more than 30 seconds, the timer display with "No signal" appears. The countdown starts to turn off the lamp.

Select one of the operations:

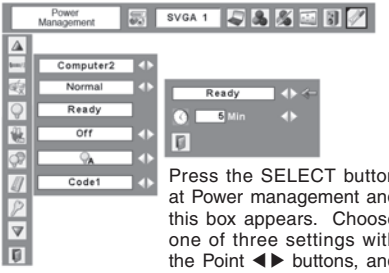
Ready.	When the lamp has been fully cooled down, the POWER indicator changes to green blinking. In this condition, the projection lamp is turned on if the input signal is reconnected or any button on the top control or remote control is pressed.
Shut down	When the lamp has been fully cooled down, the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

Then set the countdown timer with the Point ◀▶ buttons.

✔ **Note:**
Factory default is " Ready, 5 min".

Power management

Time left before Lamp is off.



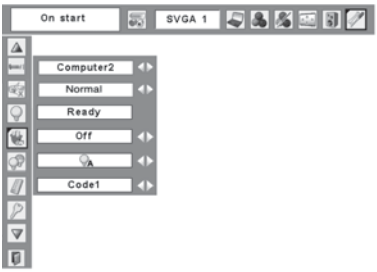
Press the SELECT button at Power management and this box appears. Choose one of three settings with the Point ◀▶ buttons, and go to the timer with the Point ▲▼ buttons and set time with the Point ◀▶ buttons.

On start

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

✔ **Note:**
Be sure to turn the projector off properly (see "Turning Off the Projector" on page 20). If the projector is turned off in the incorrect sequence, the On start function does not operate properly.

On start



Lamp control

This function allows you to change brightness of the screen.

- Normal. . . . . normal brightness
- Auto . . . . . brightness according with the input signal
- Eco . . . . . lower brightness reduces the lamp power consumption and extends the lamp life.

✔ **Note:**
Lamp mode cannot be changed for a while after turning on the projector. Lamp needs some time to stabilize after the power is turned on. Stored lamp mode will be active after the lamp is stabilized.

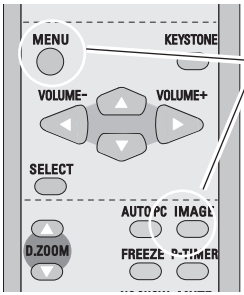
Remote control

This projector provides two different remote control codes: the factory-set initial code (Code 1) and the secondary code (Code 2). This switching function prevents remote control interference when operating several projectors or video equipment at the same time.
When operating the projector in "Code 2", both the projector and the remote control must be switched to "Code 2".

To change the code for the projector:
Select either "Code 1" or "Code 2" in this Setting Menu.

To change the code for the remote control:
Press and hold both the MENU and IMAGE buttons together for 5 seconds or more. After changing the code, make sure the remote control operates properly.

Remote control



Press and hold MENU and IMAGE buttons for more than 5 seconds.

✔ **Note:**
If the batteries are removed from the remote control for a long period of time, the remote control code will be reset.

Security (Key lock and PIN code lock settings)

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

Key lock

This function locks operation of the top control or the remote control.
It is useful to prevent operation by an unauthorized person.

. . . . . not locked.

. . . . . lock the operation of the top control. To unlock, use the remote control.

. . . . . lock the operation of the remote control. To unlock, use the top control.

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

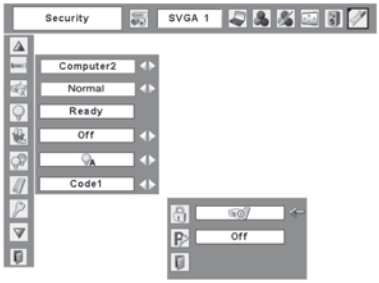
PIN code lock

This function prevents the projector from being operated by an unauthorized person and provides the following settings for security options.

Off . . . . . the projector is not locked with a PIN code.
On1 . . . . require to enter a PIN code every time turning on the projector.
On2 . . . . require to enter a 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.

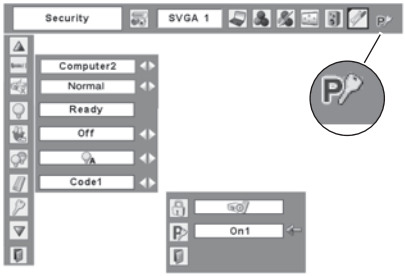
Whenever to change the PIN code lock setting or the PIN code (the four-digit number), you are required to enter the PIN code. The "1234" is set as the initial PIN code at the factory.

Key lock



Select Key lock. Choose one of the alternatives with the Point ▲▼ buttons and select [Yes] to activate it.

PIN code lock



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

To Enter the PIN code

Select a number by pressing the Point ▲▼ buttons. And then press the Point ▶ button to fix the number and move the pointer. The number changes to "✳". If you fixed an incorrect number, move the pointer to the number you want to correct by pressing the Point ◀ button, and then select the correct number by pressing the Point ▲▼ buttons.

Repeat this step to complete entering a four-digit number.

After entering the four-digit number, move the pointer to "Set" by pressing the Point ▶ button. Press the SELECT button so that you can change the following PIN code lock settings.

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

To Change the PIN code lock setting

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

To Change the PIN code

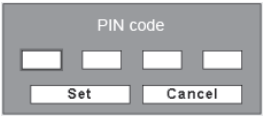
The PIN code can be changed to your desired four-digit number.

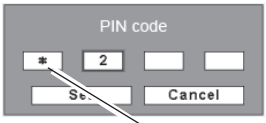
Select "PIN code change" with the Point ▼ button, and press the SELECT button to display the New PIN code input dialog box.

Select a number by pressing the Point ▲▼ buttons. And then press the Point ▶ button to fix the number and move the pointer. Repeat it to complete entering a four-digit number. After entering the four-digit number, move the pointer to "Set" by pressing the Point ▶ button. Then press the SELECT button.

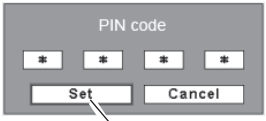
CAUTION:
WHEN YOU HAVE CHANGED THE PIN CODE, WRITE DOWN THE NEW PIN CODE IN COLUMN OF THE PIN CODE NO. MEMO ON PAGE 74, AND KEEP IT SECURELY. IF YOU FORGET YOUR PIN CODE, THE PROJECTOR CAN NO LONGER BE STARTED.

Enter a PIN code





The input numbers change to "✳" for security.



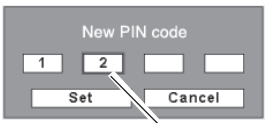
Move the pointer to "Set" by pressing the Point ▶ button. And then press the SELECT button.

Change the PIN code lock setting

Select a desired setting with the Point ◀▶ buttons.

Change the PIN code

Select PIN code change and press the SELECT button. The New PIN code input dialog box appears.



The input numbers are being displayed for confirmation.

Fan

This function provides the following alternatives in the cooling fans' operation after turning off the projector. (p.20)

L1 . . . . . normal operation
L2 . . . . . slower and lower-sound than the normal operation (L1), but it takes longer to cool the projector down.

✔ **Note:**
Setting “Fan control” to On1 or On2 affects L2 operation in “Fan.”

Fan control

This projector provides Fan control function in the Setting menu.
Choose the running speed of cooling fans from the following options according to the ground elevation under which you use the projector.

Off..... Normal speed. Set this function to “Off” when using the projector in non-high altitude environment.
On 1..... Faster than Off mode. Select this mode when using the projector in high altitudes (about 1,200 meters or more above the sea level) where the fans have less cooling effect.
On 2..... Faster than On 1 mode. Select this mode when using the projector in higher altitudes than above where the fans have lesser cooling effect.

✔ **Note:**
- The fan noise becomes louder in On 1 and On2.
- Failure to set the running speed of cooling fans properly may affect the projector life.

Fan control

Closed Caption

Closed Caption is a function that displays the audio portion of a TV program as text on the screen.If the input signal contains closed captions, you can turn on the feature and switch the channels. Press the Point ◀▶ buttons to select CC1, CC2, CC3 or CC4.
If the closed caption is not clear, you can change the text from Color to White.

✔ **Notes:**
The Closed Caption is available only under the situation below.

- When the input signal is NTSC of composite and S-VIDEO, and the system is set according to the signal or set on "Auto".
- The system must be set on NTSC or Auto in Video System Selection. (P.39)
- The icon of Closed Caption is displayed in gray while it is not available.
- The closed caption is unavailable when On-Screen menu and P-Timer are displayed.

Lamp counter

This function is used to reset the lamp replacement counter. When replacing the projection lamp, reset the lamp replacement counter by using this function. See page 62 for operation.

✔ **Note:**
Do not reset the Lamp replacement counter without implementation of lamp replacement. Be sure to reset the Lamp replacement counter only after replacing the lamp.

Factory default

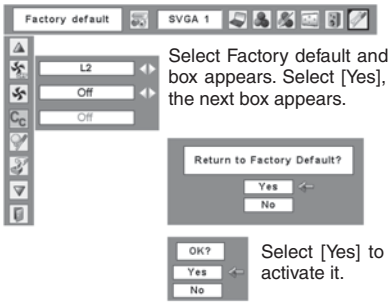
This function returns all setting values except for the user logo, PIN code lock, Logo PIN code lock, and the lamp counter to the factory default settings.

Quit

Exit the Setting Menu.

Closed Caption

Factory default



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

Select [Yes] to activate it.

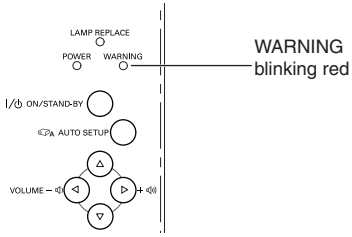
Warning indicator

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

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

When the temperature inside the projector reaches a certain level, the projector is 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 sufficiently (to its normal operating temperature), it can be turned on again by pressing the POWER ON/STAND-BY button.

Top Control



✔ **Note:**
After the temperature inside the projector returns to normal, the WARNING indicator still continues to blink. When the projector is turned on again, the WARNING indicator stops blinking.

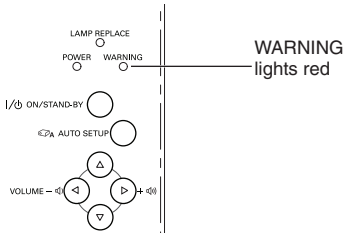
Then check the matters below:

– Did you provide appropriate space for the projector to be ventilated? Check the installing condition to see if ventilation slots are not blocked.
– Is the projector not installed near the ventilation duct of air-conditioning equipment which may be hot? Install the projector away from the ventilation duct of air-conditioning equipment.
– Is the air filter clean? Clean the air filter periodically. (p.58)

The projector is shut down and the WARNING indicator emits a red light.

When the projector detects an abnormal condition, it is automatically shut down to protect the inside and the WARNING indicator becomes red. In this case, disconnect the AC power cord and reconnect it, and then turn the projector on once again for check. If the projector cannot be turned on and the WARNING indicator emits a red light, disconnect the AC power cord and contact the service station for check and repair.

Top Control

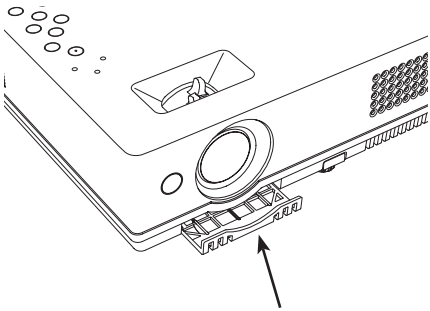


⚠ **CAUTION**
DO NOT LEAVE THE PROJECTOR WITH THE AC POWER CORD CONNECTED UNDER THE ABNORMAL CONDITION. IT MAY RESULT IN FIRE OR ELECTRIC SHOCK.

Cleaning the Air Filter

Air filter prevent dust from accumulating on the optical elements inside the projector. Should the air filter become clogged with dust particles, it will reduce cooling fans' effectiveness and may result in internal heat build up and adversely affect the life of the projector. Clean the air filter following the steps below.

1. Turn off the projector, and disconnect the AC power cord from the AC outlet.
2. Remove the air filter by pulling the latch horizontally.
3. Clean the air filter with a brush or rinse it softly.
4. When cleaning the air filter by rinsing, dry it well. Replace the air filter properly. Make sure that the air filter is fully inserted.



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

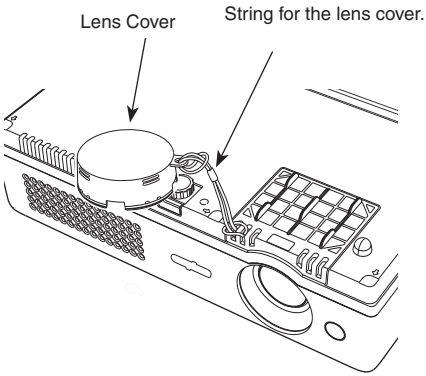
RECOMMENDATION
We recommend avoiding dusty/smoky environments when operating the projector. Usage in these environments may cause a poor image quality.
When using the projector under dusty or smoky conditions, dust may accumulate on a lens, LCD panels, or optical elements inside the projector. This condition may degrade the quality of a projected image. When the symptoms above are noticed, contact your authorized dealer or service station for proper cleaning.

Attaching the Lens Cover

When moving this projector or while not using it over an extended period of time, replace the lens cover.

Attach the lens cover according to the following procedures.

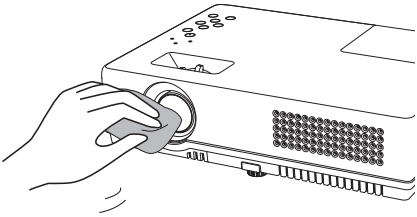
1. Pass the string through a hole of the lens cover.
2. Turn over the projector.
3. Attach the string with lens cover to the filter cover at the bottom of the projector.



Cleaning the Projection Lens

Follow these steps to clean the projection lens.

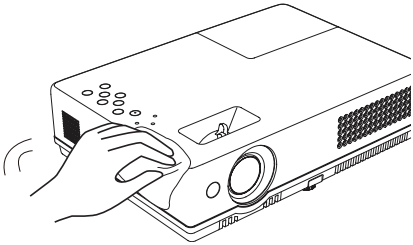
1. Disconnect the AC power cord before cleaning.
2. Softly wipe the projection lens with a cleaning cloth that contains a small amount of non-abrasive camera lens cleaner, or use lens cleaning paper or a commercially available air blower to clean the lens. Avoid using an excessive amount of cleaner. Abrasive cleaners, solvent, or other harsh chemicals might scratch the surface.
3. When the projector is not in use, replace the lens cover.



Cleaning the Projector Cabinet

Follow these steps to clean the projector cabinet.

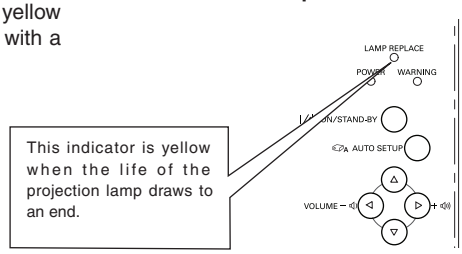
1. Disconnect the AC power cord before cleaning.
2. Softly wipe the projector body with a soft, dry cleaning cloth. When it is heavily soiled, use a small amount of mild detergent and finish with a soft, dry cleaning cloth. Avoid using an excessive amount of cleaner. Abrasive cleaners, solvent, or other harsh chemicals might scratch the surface.
3. When the projector is not in use, put the projector in an appropriate carrying case to protect it from dust and scratches.



Lamp Replacement

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

Top Control



CAUTION

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

CAUTION

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

CAUTION

When replacing the lamp because it has stopped illuminating, there is a possibility that the lamp may be broken.
If replacing the lamp of a projector which has been installed on the ceiling, you should always assume that the lamp is broken, and you should stand to the side of the lamp cover, not underneath it. Remove the lamp cover gently. Small pieces of glass may fall out when the lamp cover is opened. If pieces of glass get into your eyes or mouth, seek medical advice immediately.

Refer to the next page for replacing a lamp.

Follow these steps to replace the lamp.

1 Turn off the projector and disconnect the AC power cord. Allow the projector to cool for at least 45 minutes.

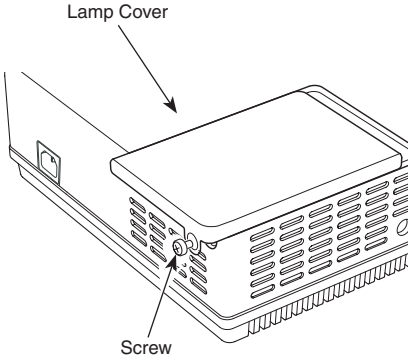
2 Loosen the screw with a screwdriver, slide and open the lamp cover.

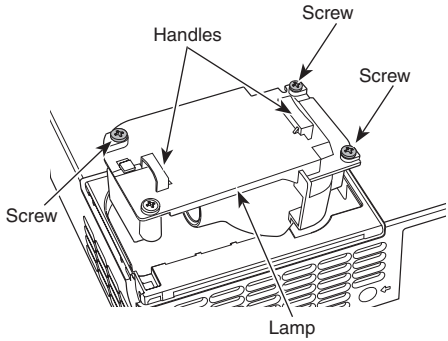
3 Loosen 3 screws of the lamp with a screwdriver and pull out the lamp upwards vertically by grasping the handles.

4 Replace the lamp with a new one and tighten the 3 screws back into position. Make sure that the lamp is set properly. Replace the lamp cover and tighten the screw.

5 Connect the AC power cord to the projector and turn on the projector.

6 **Reset the lamp replacement counter.**
See "Resetting the Lamp Counter" on the next page .





ORDER REPLACEMENT LAMP

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

- Model No. of your projector : PLC-XW65/PLC-XW65K
- Replacement Lamp Type No. : POA-LMP129
  (Service Parts No. 610 341 7493)

Resetting the Lamp Counter

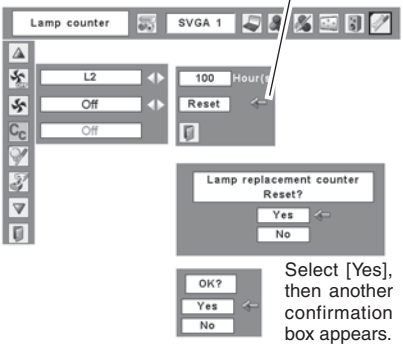
Be sure to reset the Lamp replacement counter after the lamp is replaced. When the Lamp replacement counter is reset, the LAMP REPLACE indicator stops lighting.

1 Turn the projector on, press the MENU button to display the On-Screen Menu. Press the Point ◀▶ buttons to move the red framed pointer to the Setting Menu icon.

2 Press the Point ▲▼ buttons to move the red framed pointer to the Lamp counter function and then press the SELECT button. The first dialog box appears and shows the total accumulated time of the lamp usage and the reset option. If you select "Reset", a "Lamp replacement counter Reset?" message appears. Select [Yes] to continue.

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

To reset the lamp counter, move the pointer to Reset and then press the SELECT button. “Lamp replacement counter Reset?” dialog box is displayed.



Select [Yes], then another confirmation box appears.

Select [Yes] again to reset the lamp counter.

✔ **Note:**
Do not reset the Lamp replacement counter without implementation of lamp replacement. Be sure to reset the Lamp replacement counter only after replacing the lamp.

⚠ 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.

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 pages15-17.
– Make sure all equipment is connected to AC outlet and the power is turned on.
– When you operate the projector with a computer and it does not project an image, restart the computer.

Problem	– Solutions
No power	– Plug the power cord of the projector into the AC outlet. – See if the POWER indicator lights red. – Wait until the POWER indicator stops blinking to turn on the projector again. The projector can be turned on after the POWER indicator turns red. (See page 20) – Check the WARNING indicator. If the WARNING indicator lights red, the projector cannot be turned on. (See page 57) – Check the projection lamp. (See page 60) – Unlock the Key lock function. (See page 53)
The initial display is not shown.	– Make sure "Off" or "Countdown off" are not chosen at display function.(see page 47)
The initial display is not same as the default set.	– Make sure "User" or "Off" are not chosen at Logo (select) as the default set. function. (see page 48)
Input signal switches automatically. (or does not switch automatically)	– Make sure Input search function is adjusted properly. (See page 46)
Image is out of focus	– Adjust the focus of the projector. (See page 23) – Provide proper distance between the projector and the projection screen. (See page 13) – Check the projection lens to see if it needs cleaning. (See page 59) – Moving the projector from a cool to warm place may result in moisture condensation on the projection lens. If this occurs, leave the projector off and wait until condensation evaporates.
No image	– Check the connection between your computer or video equipment and the projector. (See pages 15-17) – See if the input signal is correctly output from your computer. For some laptop computers, you may need to change the setting for the monitor output when connecting to a 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 to your computer or video equipment. (See pages 27 and 39) – Select a correct input source once again through menu operation. (See pages 26, 37 and 38) – Make sure the temperature is not out of the specified operating temperature (41°F ~ 95°F (5°C ~ 35°C)).

Image is Left/Right reversed **Image is Top/Bottom reversed**	– Check the Ceiling/Rear function. (See page 50) – Check the Ceiling function. (See page 50)
No sound	– Check audio cable connections from the audio input source. – Adjust the audio source. – Press the VOLUME + button. (See page 24) – Press the MUTE button. (See page 24) – Is the image projected? You will hear the sound only when the image is projected.
The color is strange.	– Check the Input signal, color system,video system or computer system mode. – Make sure the "Blackboard" or "Colorboard" is not selected on Image select menu. (see pages 31, 32, 40, 41)
Some displays are not seen during operations	– Check the Display item. (See page 47)
Auto PC adjustment function does not work.	– Check the Input signal. Auto PC function can not work when 480p,575p.720p,480i,575i,1035i or 1080i is selected. (see Page 28)
The setting does not remain after turning off power.	– Make sure you selected "Store" after adjusting setting. Some settings can not be stored if not registered with "Store". (see pages 30, 43)
Power management does not work.	– Power management function can not work while "Freeze" or "No Show" function is running. (see pages 24, 25)
Capture function does not work.	– Check the connection and the input signal to see if there is signal.
Auto setup does not work properly.	– Make sure "Off" is not selected at any function of "Auto setup". (see page 46) – Make sure "On" is not selected at the Ceiling function.(see page 50)
Auto keystone does not work properly even when the projector is tipped.	– Make sure the Auto keystone function is not set to "Manual". Press the AUTO SETUP button on the top control.(see page 23, 46)
The image is distorted or runs off.	– Check PC adjustment menu or Screen menu and adjust them. (see pages 29-30, 34-35)
PIN code dialog box appears at the start-up	– PIN code lock is being set. Input a PIN code (1234 or numbers you have set). (See pages 19, 53 and 54)
Computer 2 cannot be selected	– Select Computer 2 at the Terminal function. (See page 50)
The Terminal function cannot be selected	– The Terminal function cannot be selected after Computer 2 is selected. Select other input source such as Computer 1 or Video with the COMPUTER button or the VIDEO button on the remote control so that the Terminal function can be selected.

The Remote Control does not work.	– Check the batteries. – Make sure there is no obstruction 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 the code of the remote control is conformed to that of the projector. (See page 52) – Unlock the Key lock function for the remote control. (See page 53)
Indicator blinks or lights.	– Check the status of the projector with referring to "Indicators and projector Condition". (see page 69)
The exclamation mark appears on the screen.	– Your operation is invalid. Operate correctly.
The Top Control does not work	– Unlock the Key lock function for the top control of the projector. (See page 53)
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. Give the model number and explain about the problem. We will advise you how to obtain service.

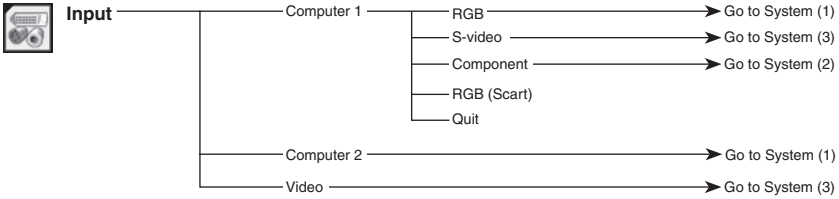
The CE Mark is a Directive conformity mark of the European Community (EC).

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.

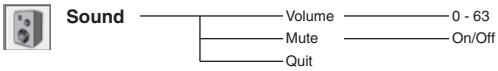
Pixelworks ICs used.

Menu Tree

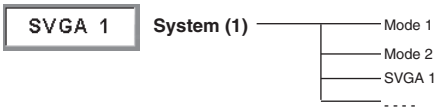
Computer Input/Video Input



Sound



Computer Input



✻ Systems displayed in the System Menu vary depending the input signal.

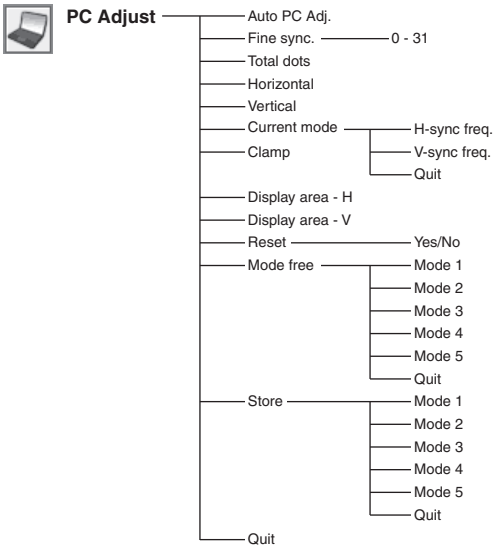


Image Select
- Dynamic
- Standard
- Real
- Blackboard (Green)
- Colorboard — 4 Colors
- Image 1
- Image 2
- Image 3
- Image 4

Image Adjust
- Contrast — 0 - 63
- Brightness — 0 - 63
- Color temp.
  - High
  - Mid
  - Low
  - XLow
  - Adj.
- Red — 0 - 63
- Green — 0 - 63
- Blue — 0 - 63
- Sharpness — 0 - 15
- Gamma — 0 - 15
- Reset — Yes/No
- Store
  - Image 1
  - Image 2
  - Image 3
  - Image 4
  - Quit
- Quit

Screen
- Normal
- True
- Wide
- Full
- Custom
  - Scale — H/V
  - H&V — On/Off
  - Position — H/V
  - Common — Yes/No
  - Reset — Yes/No
  - Quit
- Digital zoom +
- Digital zoom –

Video Input

Auto **System (2)**
- Auto
- 1080i
- 1035i
- 720p
- 575p
- 480p
- 575i
- 480i

Auto **System (3)**
- Auto
- PAL
- SECAM
- NTSC
- NTSC 4.43
- PAL-M
- PAL-N

Image Select
- Dynamic
- Standard
- Cinema
- Blackboard (Green)
- Colorboard — 4 Colors
- 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
  - Adj.
- 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

- **Screen**
  - Normal
  - Wide
  - Custom
    - Scale — H/V
    - H&V — On/Off
    - Position — H/V
    - Common — Yes/No
    - Reset — Yes/No
    - Quit

Setting

- **Setting**
  - Language
    - English
    - German
    - French
    - Italian
    - Spanish
    - Portuguese
    - Dutch
    - Swedish
    - Finnish
    - Polish
    - Hungarian
    - Romanian
    - Russian
    - Chinese
    - Korean
    - Japanese
    - Quit
  - Auto setup
    - Input search
      - Off
      - On 1
      - On 2
    - Auto PC adj.
      - Off
      - On
    - Auto Keystone
      - Off
      - Auto
      - Manual
    - Quit

- **Setting**
  - Keystone — Store/Reset
  - Blue back — On/Off
  - Display — On/Countdown off/Off
  - Logo
    - Logo select
      - Off
      - Default
      - User
    - Capture
      - Yes/No
    - Logo PIN code lock
      - Logo PIN code entry
        - Off
        - On
      - Logo PIN code change
      - Quit
    - Quit
  - Ceiling — On/Off
  - Rear — On/Off
  - Terminal — Computer 2/Monitor out
  - Standby mode — Eco/Normal
  - Power management
    - Off
    - Ready
    - Shut down
    - Timer (1-30 Min.)
    - Quit
  - On start — On/Off
  - Lamp control — Normal/Auto/Eco
  - Remote control — Code 1/Code 2
  - Security
    - Key lock
      - Off
      - Projector
      - Remote Control
      - Quit
    - PIN code lock
      - PIN code lock entry
        - Off
        - On1
        - On2
      - PIN code change
      - Quit
    - Quit
  - Fan — L1/L2
  - Fan control — Off/On1/On2
  - Closed Caption
    - Off/CC1/CC2/CC3/CC4
    - Color/White
    - Quit
  - Lamp counter
    - Hour(s)
    - Reset
    - Quit
  - Factory default — Yes/No
  - Quit

Indicators and Projector Condition

Check the indicators for projector condition.

Indicators			Projector Condition
POWER **red/green**	WARNING **red**	LAMP REPLACE **yellow**	
●	●	●	The projector is off. (The AC power cord is unplugged.)
⊘	●	✻	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 projector is ready to be turned on with the POWER ON/STAND-BY button.
○	●	✻	The projector is operating normally.
○	●	✻	The projector is in the Power management mode.
⊘	⊘	✻	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 lights red and the projector can be turned on. (The WARNING indicator keeps blinking.) Check and clean the air filter.
⊘	⊘	✻	The projector has been cooled down enough and the temperature returns to normal. When turning on the projector, the WARNING indicator stops blinking. Check and clean the air filter.
●	⊘	✻	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, disconnect the AC power cord and contact the dealer or the service center for service and checkup. Do not leave the projector on. It may cause an electric shock or a fire hazard.

○ • • • green　　⊘ • • • red　　● • • • off

○ • • • blinks green　　⊘ • • • blinks red

✻When the life of the projection lamp draws to an end, the LAMP REPLACE indicator lights yellow. When this indicator lights yellow, replace the projection lamp with a new one promptly. Reset the lamp replacement counter after replacing the lamp. See pages 60-62.

Compatible Computer Specifications

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

When selecting these modes, PC adjustment can be limited.

ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)
VGA 1	640 x 480	31.47	59.88
VGA 2	720 x 400	31.47	70.09
VGA 3	640 x 400	31.47	70.09
VGA 4	640 x 480	37.86	74.38
VGA 5	640 x 480	37.86	72.81
VGA 6	640 x 480	37.50	75.00
VGA 7	640 x 480	43.269	85.00
MAC LC13	640 x 480	34.97	66.60
MAC 13	640 x 480	35.00	66.67
480i	————	15.734	60.00 (Interlace)
575i	————	15.625	50.00 (Interlace)
SVGA 1	800 x 600	35.156	56.25
SVGA 2	800 x 600	37.88	60.32
SVGA 3	800 x 600	46.875	75.00
SVGA 4	800 x 600	53.674	85.06
SVGA 5	800 x 600	48.08	72.19
SVGA 6	800 x 600	37.90	61.03
SVGA 7	800 x 600	34.50	55.38
SVGA 8	800 x 600	38.00	60.51
SVGA 9	800 x 600	38.60	60.31
SVGA 10	800 x 600	32.70	51.09
SVGA 11	800 x 600	38.00	60.51
MAC 16	832 x 624	49.72	74.55
XGA 1	1024 x 768	48.36	60.00
XGA 2	1024 x 768	68.677	84.997
XGA 3	1024 x 768	60.023	75.03
XGA 4	1024 x 768	56.476	70.07
XGA 5	1024 x 768	60.31	74.92
XGA 6	1024 x 768	48.50	60.02
XGA 7	1024 x 768	44.00	54.58
XGA 8	1024 x 768	63.48	79.35
XGA 9	1024 x 768	36.00	87.17 (Interlace)
XGA 10	1024 x 768	62.04	77.07
XGA 11	1024 x 768	61.00	75.70
XGA 12	1024 x 768	35.522	86.96 (Interlace)
XGA 13	1024 x 768	46.90	58.20
XGA 14	1024 x 768	47.00	58.30
XGA 15	1024 x 768	58.03	72.00
MAC 19	1024 x 768	60.24	75.08

ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)
SXGA 1	1152 x 864	64.20	70.40
SXGA 2	1280 x 1024	62.50	58.60
SXGA 3	1280 x 1024	63.90	60.00
SXGA 4	1280 x 1024	63.34	59.98
SXGA 5	1280 x 1024	63.74	60.01
SXGA 6	1280 x 1024	71.69	67.19
SXGA 7	1280 x 1024	81.13	76.107
SXGA 8	1280 x 1024	63.98	60.02
SXGA 9	1280 x 1024	79.976	75.025
SXGA 10	1280 x 960	60.00	60.00
SXGA 11	1152 x 900	61.20	65.20
SXGA 12	1152 x 900	71.40	75.60
SXGA 13	1280 x 1024	50.00	86.00 (Interlace)
SXGA 14	1280 x 1024	50.00	94.00 (Interlace)
SXGA 15	1280 x 1024	63.37	60.01
SXGA 16	1280 x 1024	76.97	72.00
SXGA 17	1152 x 900	61.85	66.00
SXGA 18	1280 x 1024	46.43	86.70 (Interlace)
SXGA 19	1280 x 1024	63.79	60.18
SXGA 20	1280 x 1024	91.146	85.024
SXGA +1	1400 x 1050	63.979	60.190
SXGA +2	1400 x 1050	65.346	60.116
SXGA +3	1400 x 1050	65.121	59.902
MAC21	1152 x 870	68.68	75.06
MAC	1280 x 960	75.00	75.08
MAC	1280 x 1024	80.00	75.08
480p	————	31.47	59.88
575p	————	31.25	50.00
720p	————	37.50	50.00
720p	————	45.00	60.00
1035i	————	33.75	60.00 (Interlace)
1080i	————	33.75	60.00 (Interlace)
1080i	————	28.125	50.00 (Interlace)
WXGA 1	1366 x 768	48.36	60.00
WXGA 2	1360 x 768	47.70	60.00
WXGA 3	1376 x 768	48.36	60.00
WXGA 4	1360 x 768	56.16	72.00
WXGA 6	1280 x 768	47.776	59.87
WXGA 7	1280 x 768	60.289	74.893
WXGA 8	1280 x 768	68.633	84.837
WXGA 9	1280 x 800	49.600	60.050
WXGA10	1280 x 800	41.200	50.000
WXGA11	1280 x 800	49.702	59.810
WUXGA 1	1920 x 1200	74.556	59.885
WUXGA 2	1920 x 1200	74.038	59.950
WSXGA+1	1680 x 1050	65.290	59.954
WXGA+1	1440 x 900	55.935	59.887
WXGA+2	1440 x 900	74.918	60.000
UXGA 1	1600 x 1200	75.00	60.00
UXGA 2	1600 x 1200	81.25	65.00
UXGA 3	1600 x 1200	87.5	70.00
UXGA 4	1600 x 1200	93.75	75.00

Technical Specifications

Mechanical Information

Projector Type	Multi-media Projector
Dimensions (W x H x D)	264 mm x 55 mm x 188 mm (Not including protrusion)
Net Weight	3.53lbs (1.6 kg)
Foot Adjustment	0˚ to 10.0˚

Panel Resolution

LCD Panel System	0.63" 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 ~ 100 KHz, V-sync. 50 ~ 100 Hz

Optical Information

Projection Image Size (Diagonal)	Adjustable from 40" to 300"
Projection Lens	F 1.7 lens with f 17.4 mm ~ 21.1 mm with manual zoom and focus
Throw Distance	3.6' ~ 32.8' (1.1 m ~ 10.0 m)
Projection Lamp	175W

Interface

Video Input Jack	RCA Type x 1
Audio Input Jacks	RCA Type x 2
Computer Input 1/S-VIDEO /Component Input Terminal	Analog RGB (Mini D-sub 15 pin) Terminal x 1
Computer Input 2/Monitor Output Terminal	Analog RGB (Mini D-sub 15 pin) Terminal x 1 (In/Out switchable)
Computer/ Component Audio Input Jack	Mini Jack (stereo) x 1
Service Port Connector	Mini DIN 8 pin x 1
Audio Output Jack	Mini Jack (stereo) x 1 (Variable)

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 (2.7A Max. Ampere), 50/60 Hz (The U.S.A and Canada) AC 200 ~ 240 V (1.5A 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	AA or LR6 1.5 V ALKALINE TYPE x 2
Operating Range	16.4' (5 m)/±30˚
Dimensions	1.9" (W) x 0.87" (H) x 5.7" (D) (49 mm x 22 mm x 145.3 mm)
Net Weight	3.53 oz (100 g) (including batteries)

Accessories

Owner's Manual (CD-ROM)
Quick Reference Guide
AC Power Cord
Remote Control and Batteries
VGA Cable
Lens Cover with String
PIN Code Label
Carry bag
Ferrite Core

- 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

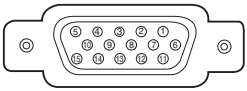
The parts listed below are optionally available. When ordering those parts, specify the item and Model No. to the sales dealer.

	Model No.
COMPONENT-VGA Cable	: POA-CA-COMPVGA
SCART-VGA Cable	: POA-CA-SCART
S-VIDEO-VGA Cable	: POA-CA-VGAS
Laser Pointer Remote Control	: POA-RCKIT03
Presentation Kit	: POA-RCKIT04

Configurations of Terminals

COMPUTER INPUT/COMPONENT INPUT/MONITOR OUTPUT TERMINAL (ANALOG)

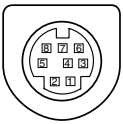
Terminal : Analog RGB (Mini D-sub 15 pin)



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

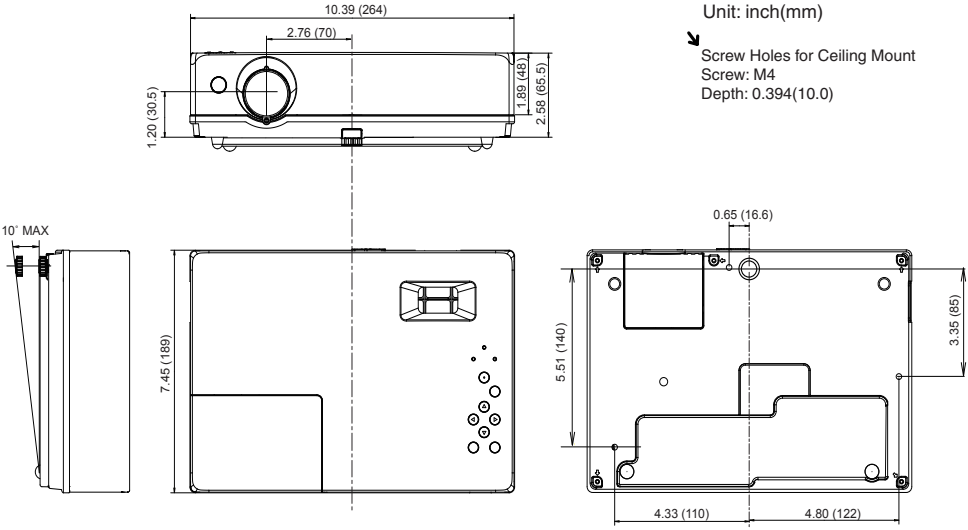
SERVICE PORT CONNECTOR

Terminal: Mini DIN 8-PIN



	Serial
1	R X D
2	PJN_POW
3	PJN_DET
4	GND
5	-----
6	T X D
7	-----
8	-----

Dimensions



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*

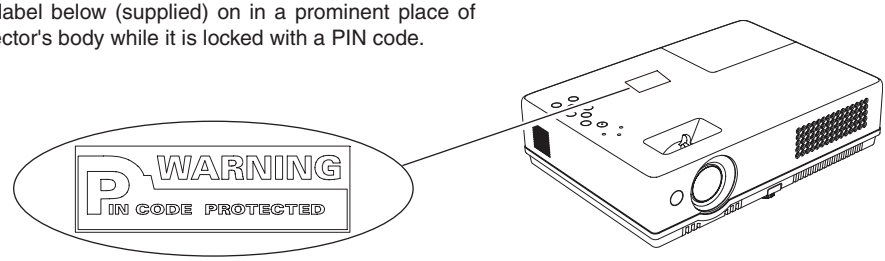
Logo PIN Code Lock No.

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.



KT7AC

SANYO Electric Co., Ltd.