myprojectorlamps.com

The most trusted, dependable name in projector lamp sales.

http://www.myprojectorlamps.com

http://www.myprojectorlamps.ca

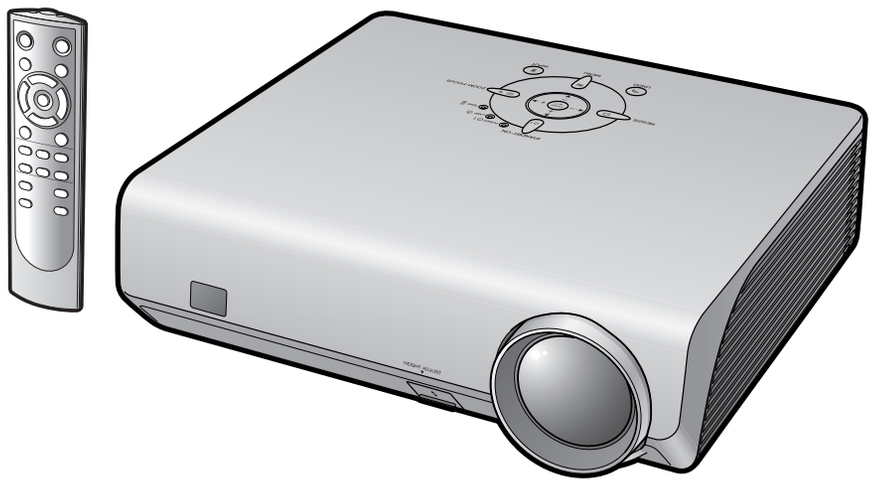
http://www.myprojectorlamps.eu

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

EIKI

DLP™ PROJECTOR

MODEL **EIP-1500T**



PICTURE BY DLP™ A TEXAS INSTRUMENTS TECHNOLOGY

OWNER'S MANUAL

EIKI INDUSTRIAL CO., LTD.

IMPORTANT

For your assistance in reporting the loss or theft of your Projector, please record the Serial Number located on the bottom of the projector and retain this information. Before recycling the packaging, please ensure that you have checked the contents of the carton thoroughly against the list of “Supplied accessories” on page **5**.

Model No.: EIP-1500T

Serial No.:

This apparatus complies with the requirements of Council Directives 89/336/EEC and 73/23/EEC as amended by Council Directive 93/68/EEC.

Dieses Gerät entspricht den Anforderungen der EG-Richtlinien 89/336/EWG und 73/23/EWG mit Änderung 93/68/EWG.

Ce matériel répond aux exigences contenues dans les directives 89/336/CEE et 73/23/CEE modifiées par la directive 93/68/CEE.

Dit apparaat voldoet aan de eisen van de richtlijnen 89/336/EEG en 73/23/EEG, gewijzigd door 93/68/EEG.

Dette udstyr overholder kravene i direktiv nr. 89/336/EEC og 73/23/EEC med tillæg nr. 93/68/EEC.

Quest’ apparecchio è conforme ai requisiti delle direttive 89/336/EEC e 73/23/EEC, come emendata dalla direttiva 93/68/EEC.

Αυτή η συσκευή συμμορφώνεται με τις απαιτήσεις των οδηγιών του Συμβουλίου 89/336/ΕΟΚ και 73/23/ΕΟΚ όπως τροποποιήθηκαν από την οδηγία του Συμβουλίου 93/68/ΕΟΚ.

Este equipamento obedece às exigências das directivas 89/336/CEE e 73/23/CEE, na sua versão corrigida pela directiva 93/68/CEE.

Este aparato satisface las exigencias de las Directivas 89/336/CEE y 73/23/CEE, modificadas por medio de la 93/68/CEE.

Denna utrustning uppfyller kraven enligt riktlinjerna 89/336/EEC och 73/23/EEC så som kompletteras av 93/68/EEC.

Dette produktet oppfyller betingelsene i direktivene 89/336/EEC og 73/23/EEC i endringen 93/68/EEC.

Tämä laite täyttää direktiivien 89/336/EEC ja 73/23/EEC vaatimukset, joita on muutettu direktiivillä 93/68/EEC.

Bu cihaz Konsey Direktifi 93/68/EEC tarafindan düzeltilen 89/336/EEC ve 73/23/EEC Konsey Direktiflerinin gerekliliklerine uygundur.

Tento přístroj je v souladu s požadavky směrnic rady 89/336/EEC a 73/23/EEC, tak jak byly upraveny směrnicí rady 93/68/EEC.

See seade on vastavuses Nõukogu Direktiivis nr 89/336/EEC ja 73/23/EEC esitatud nõuetega, vastavalt Nõukogu Direktiivis nr 93/68/EEC esitatud parandustele

Ez a készülék megfelel a Tanács által kiadott, 89/336/EGK és 73/23/EGK Irányelveknek és az utóbbit módosító 93/68/EGK Irányelvnek

Ši ierice atbilst tehniskam prasibam pec 89/336/EEC un 73/23/EEC direktivam papildinats ar direktivu 93/68/EEC.

Šis prietaisas atitinka ES Tarybos direktyvu 89/336/EEC ir 73/23/EEC patikslintos direktyvos 93/68/EEC reikalavimus.

To urządzenie spełnia wymagania dyrektyw 89/336/EEC i 73/23/EEC wraz z poprawkami dyrektywy 93/68/EEC.

Tento prístroj je v súlade s požiadavkami smerníc rady
89/336/EEC a 73/23/EEC tak ako boli upravené smernicou rady 93/68/EEC.

Ta aparat je v skladu z zahtevami Direktiv Sveta 89/336/EEC in 73/23/EEC kot je navedeno v dopolnilu k Direktivi Sveta 93/68/EEC.

SPECIAL NOTE FOR USERS IN THE U.K.

The mains lead of this product is fitted with a non-rewireable (moulded) plug incorporating a 10A fuse. Should the fuse need to be replaced, a BSI or ASTA approved BS 1362 fuse marked ♆ or ◈ and of the same rating as above, which is also indicated on the pin face of the plug, must be used.

Always refit the fuse cover after replacing the fuse. Never use the plug without the fuse cover fitted.

In the unlikely event of the socket outlet in your home not being compatible with the plug supplied, cut off the mains plug and fit an appropriate type.

DANGER:

The fuse from the cut-off plug should be removed and the cut-off plug destroyed immediately and disposed of in a safe manner.

Under no circumstances should the cut-off plug be inserted elsewhere into a 10A socket outlet, as a serious electric shock may occur.

To fit an appropriate plug to the mains lead, follow the instructions below:

WARNING:

THIS APPARATUS MUST BE EARTHED.

IMPORTANT:

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.

IF YOU HAVE ANY DOUBT, CONSULT A QUALIFIED ELECTRICIAN.

Before using the projector, please read this owner's manual carefully.

Introduction

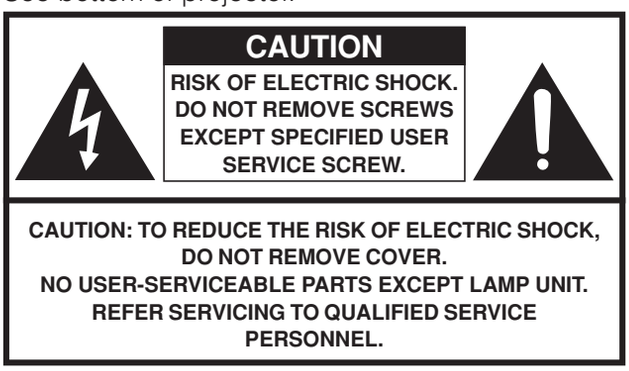
ENGLISH

1. **WARRANTY**
   This is to assure that you immediately receive the full benefit of the parts, service and labor warranty applicable to your purchase.
2. **CONSUMER PRODUCT SAFETY ACT**
   To ensure that you will promptly receive any safety notification of inspection, modification, or recall that EIKI may be required to give under the 1972 Consumer Product Safety Act, PLEASE READ CAREFULLY THE IMPORTANT "LIMITED WARRANTY" CLAUSE. U.S.A. ONLY

WARNING: High brightness light source. Do not stare into the beam of light, or view directly. Be especially careful that children do not stare directly into the beam of light.

WARNING: To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.

See bottom of projector.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk or electric shock to persons.

The exclamation point within a triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

WARNING: FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

U.S.A. ONLY

INFORMATION

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 owner's manual, 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 the 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.

U.S.A. ONLY

Declaration of Conformity

EIKI PROJECTOR, MODEL EIP-1500T

This device complies with Part 15 of the FCC rules. Operation is subject to the following conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Responsible Party:

EIKI INTERNATIONAL, INC.
30251 Esperanza, Rancho Santa Margarita, CA 92688-2132
TEL: (800) 242-3454

U.S.A. ONLY

WARNING:

The cooling fan in this projector continues to run for about 90 seconds after the projector enters the standby mode. During normal operation, when putting the projector into standby mode always use the STANDBY-ON button on the projector or the STANDBY button on the remote control. Ensure the cooling fan has stopped before disconnecting the power cord.
DURING NORMAL OPERATION, NEVER TURN THE PROJECTOR OFF BY DISCONNECTING THE POWER CORD. FAILURE TO OBSERVE THIS WILL RESULT IN PREMATURE LAMP FAILURE.

PRODUCT DISPOSAL

This projector utilizes tin-lead solder, and a pressurized lamp containing a small amount of mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or, if you are located in the United States of America, the Electronic Industries Alliance: www.eiae.org .

Caution Concerning Lamp Replacement

See "Replacing the Lamp" on page **56**.

This EIKI projector uses a DMD panel. This very sophisticated panel contains 921,600 pixels micromirrors. As with any high technology electronic equipment such as large screen TVs, video systems and video cameras, there are certain acceptable tolerances that the equipment must conform to.
This unit has some inactive pixels within acceptable tolerances which may result in inactive dots on the picture screen. This will not affect the picture quality or the life expectancy of the unit.

- DLP™ (Digital Light Processing) and DMD™ (Digital Micromirror Device) are trademarks of Texas Instruments, Inc.
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- PC/AT is a registered trademark of International Business Machines Corporation in the United States.
- Macintosh® is a registered trademark of Apple Computer, Inc. in the United States and/or other countries.
- All other company or product names are trademarks or registered trademarks of their respective companies.
- Some IC chips in this product include confidential and/or trade secret property belonging to Texas Instruments. Therefore you may not copy, modify, adapt, translate, distribute, reverse engineer, reverse assemble or discompile the contents thereof.

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Accessories

Supplied accessories

Remote control

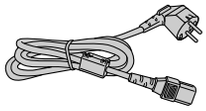
Two R-6 batteries
(“AA” size, UM/SUM-3, HP-7 or similar)

Power cord*

(1)

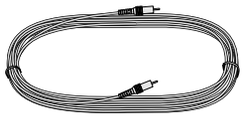
For U.S., Canada, etc.
(6' (1.8 m))
QACCDA007WJPZ

(2)

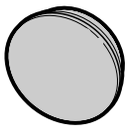


For Europe, except U.K.
(6' (1.8 m))
QACCVA011WJPZ

*Use the power cord that corresponds to the wall outlet in your country.



Video cable
QCNWGA001WJZZ



Lens cap (attached)

QUICK GUIDE

Owner’s manual
(this manual)

Optional accessory

■ Lamp unit	AH-57201

Marks Used in This Owner’s Manual

Info ..... Indicates safeguards when using the projector.

Note ..... Indicates additional information for setting up and operating the projector.

- In this owner’s manual, the illustration and the screen display are simplified for explanation, and may differ slightly from actual display.

IMPORTANT SAFEGUARDS

CAUTION: Please read all of these instructions before you operate this product and save these instructions for later use.

Electrical energy can perform many useful functions. This product has been engineered and manufactured to assure your personal safety. BUT IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARDS. In order not to defeat the safeguards incorporated in this product, observe the following basic rules for its installation, use and servicing.

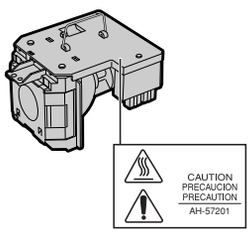
1. **Read Instructions**
   All the safety and operating instructions should be read before the product is operated.
2. **Retain Instructions**
   The safety and operating instructions should be retained for future reference.
3. **Heed Warnings**
   All warnings on the product and in the operating instructions should be adhered to.
4. **Follow Instructions**
   All operating and use instructions should be followed.
5. **Cleaning**
   Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
6. **Attachments**
   Do not use attachments not recommended by the product manufacturer as they may cause hazards.
7. **Water and Moisture**
   Do not use this product near water–for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
8. **Accessories**
   Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
9. **Transportation**
   A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

10. **Ventilation**
    Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
11. **Power Sources**
    This product 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 supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
12. **Grounding or Polarization**
    This product is provided with one of the following types of plugs. If the plug should fail to fit into the power outlet, please contact your electrician.
    Do not defeat the safety purpose of the plug.
    a. Two-wire type (mains) plug.
    b. Three-wire grounding type (mains) plug with a grounding terminal.
       This plug will only fit into a grounding type power outlet.
13. **Power-Cord Protection**
    Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
14. **Lightning**
    For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the product due to lightning and power-line surges.
15. **Overloading**
    Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
16. **Object and Liquid Entry**
    Never push objects of any kind into this product through openings 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 product.
17. **Servicing**
    Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
18. **Damage Requiring Service**
    Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
    a. When the power-supply cord or plug is damaged.
    b. If liquid has been spilled, or objects have fallen into the product.
    c. If the product has been exposed to rain or water.
    d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
    e. If the product has been dropped or damaged in any way.
    f. When the product exhibits a distinct change in performance, this indicates a need for service.
19. **Replacement Parts**
    When replacement parts are required, be sure that the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
20. **Safety Check**
    Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
21. **Wall or Ceiling Mounting**
    This product should be mounted to a wall or ceiling only as recommended by the manufacturer.
22. **Heat**
    This product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Observe that you read the following safeguards when setting up your projector.

Caution concerning the lamp unit

■ Potential hazard of glass particles if lamp ruptures. In case of lamp rupture, contact your nearest EIKI Authorized Dealer or Service Center for a replacement.



See “Replacing the Lamp” on page **56**.

Caution concerning the setup of the projector

■ For minimal servicing and to maintain high image quality, EIKI recommends that this projector be installed in an area free from humidity, dust and cigarette smoke. When the projector is subjected to these environments, the vents and lens must be cleaned more often. As long as the projector is regularly cleaned, use in these environments will not reduce the overall operation life of the unit. Internal cleaning should only be performed by an EIKI Authorized Dealer or Service Center.

Do not set up the projector in places exposed to direct sunlight or bright light.

■ Position the screen so that it is not in direct sunlight or room light. Light falling directly on the screen washes out the colors, making viewing difficult. Close the curtains and dim the lights when setting up the screen in a sunny or bright room.

The projector may be safely tilted to a maximum angle of 12 degrees.

■ Placement should be within ±12 degrees of horizontal.

Warning about placing the projector in a high position

■ When placing the projector in a high position, ensure that it is secured to avoid personal injury caused by the projector falling down.

Do not subject the projector to hard impact and/or vibration.

■ Protect the lens so as not to hit or damage the surface of the lens.

Rest your eyes occasionally.

■ Continuously watching the screen for long hours will cause eye strain. Be sure to occasionally rest your eyes.

Avoid locations with extremes of temperature.

■ The operating temperature of the projector is from 41°F to 95°F (+5°C to +35°C).

■ The storage temperature of the projector is from –4°F to 140°F (–20°C to +60°C).

Do not block the exhaust and intake vents.

■ Allow at least 7 7/8 inches (20 cm) of space between the exhaust vent and the nearest wall or obstruction.

■ Be sure that the intake vent and the exhaust vent are not obstructed.

■ If the cooling fan becomes obstructed, a protection circuit will automatically put the projector into standby mode to prevent overheat damage. This does not indicate a malfunction (See pages **54** and **55**.). Remove the projector power cord from the wall outlet and wait at least 10 minutes. Place the projector where the intake and exhaust vents are not blocked, plug the power cord back in and turn on the projector. This will return the projector to the normal operating condition.

Caution regarding usage of the projector

- When using the projector, be sure not to subject it to hard impact and/or vibration, as this can result in damage. Take extra care with the lens. If you are not to use the projector for a long time, be sure to unplug the power cord from the wall outlet, and disconnect any other cables connected to it.
- Do not use the projector by holding the lens.
- When you are not to use the projector for a long time, or storing the projector, re-attach the lens cap to the projector (See page **9**.).
- Do not expose the projector to direct sunlight or place it near heat sources. Doing so may affect the cabinet color or cause deformation of the plastic cover.

Other connected equipment

- When connecting a computer or other audio-visual equipment to the projector, make the connections AFTER unplugging the power cord of the projector from the AC outlet and turning off the equipment to be connected.
- Please read the owner's manuals of the projector and the equipment to be connected for instructions on how to make the connections.

Using the projector in other countries

- The power supply voltage and the shape of the plug may vary depending on the region or country you are using the projector in. When using the projector overseas, ensure to use an appropriate power cord for the country you are in.

Temperature monitor function

- If the projector starts to overheat due to setup problems or blockage of the air vents, " " and "TEMP." will illuminate in the lower left corner of the picture. If the temperature continues to rise, the lamp will turn off, the temperature warning indicator on the projector will blink, and after a 90-second cooling-off period the projector will enter the standby mode. Refer to "Maintenance Indicators" on page **54** for details.

Info

- The cooling fan regulates the internal temperature, and its performance is automatically controlled. The sound of the fan may change during projector operation due to changes in the fan speed. This does not indicate malfunction.
- Do not unplug the power cord during projection or cooling fan operation. This can cause damage due to rise in internal temperature, as the cooling fan also stops.

Part Names and Functions

Numbers in refer to the main pages in this owner's manual where the topic is explained.

Projector

Top View

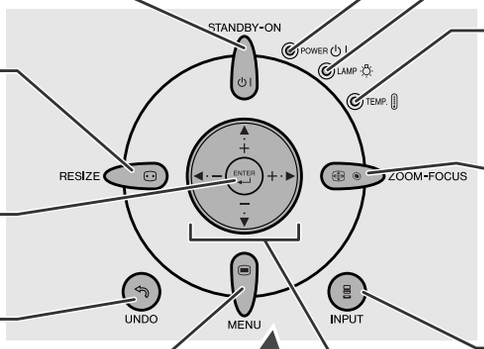
STANDBY-ON button 28
Turn the power on or put the projector into standby mode.

RESIZE button 34
Switch the picture display (STRETCH, SIDE BAR, etc.).

ENTER button 39
Set items selected or adjusted on the menu.

UNDO button 34
Undo an operation or return to the previous display.

MENU button 38
Display adjustment and setting screens.



10 Power indicator

10 54 Lamp indicator

10 54 Temperature warning indicator

30 ZOOM-FOCUS button
Adjust the projected image size or adjust the focus.

29 INPUT button
Switch input mode 1, 2, 3, 4, 5 or DIGITAL.

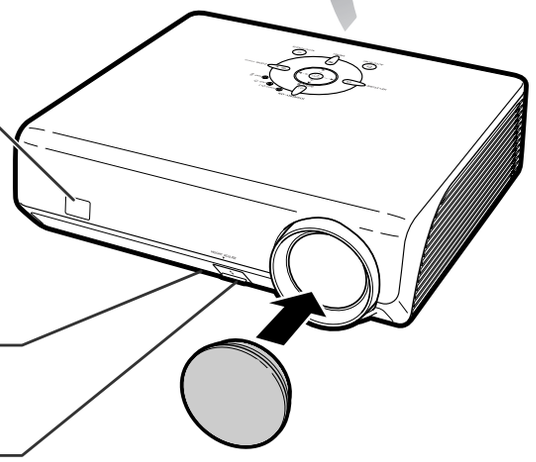
38 Adjustment buttons (▲/▼/◀/▶)
Select menu items and other settings.

Front View

Remote control sensor 13

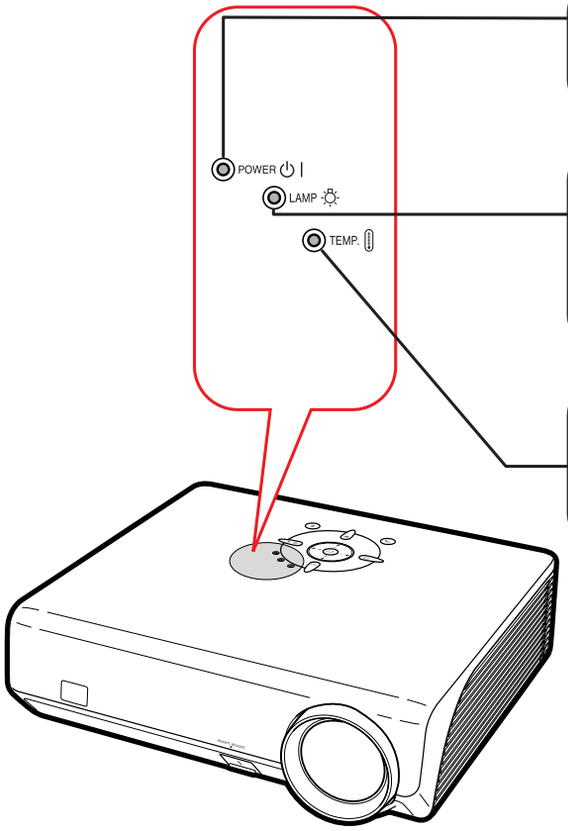
Front adjustment foot (on the bottom of the projector) 31

HEIGHT ADJUST button 31



- **Attaching the lens cap**
  Push the lens cap on until it clicks into position.
- **Removing the lens cap**
  Pull the lens cap directly outward.

About the Indicators on the Projector



Power indicator
Green on ··· Normal (Standby)
Red on ··· Normal (Power on)

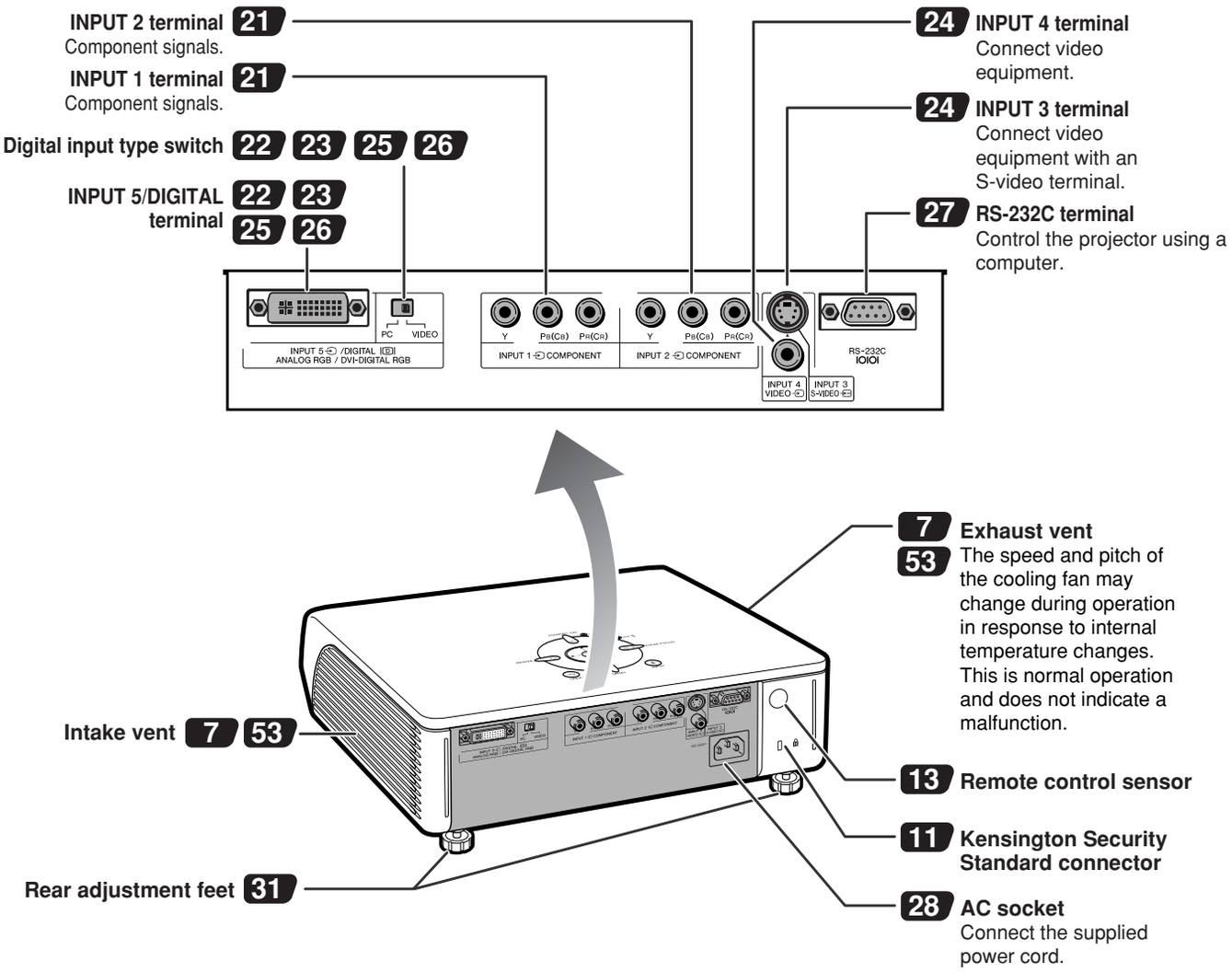
Lamp indicator
Green on ··· Normal
Green blinks ··· The lamp is warming up or shutting down.
Red on ··· The lamp has been shut down abnormally or needs to be changed. (See page **54**.)

Temperature warning indicator
Off ··· Normal
Red on ··· The internal temperature is abnormally high. (See page **54**.)

Numbers in [ ] refer to the main pages in this owner's manual where the topic is explained.

Projector (Rear View)

Terminals **Refer to "INPUT Terminals and Connectable Main Equipment" on page 19.**

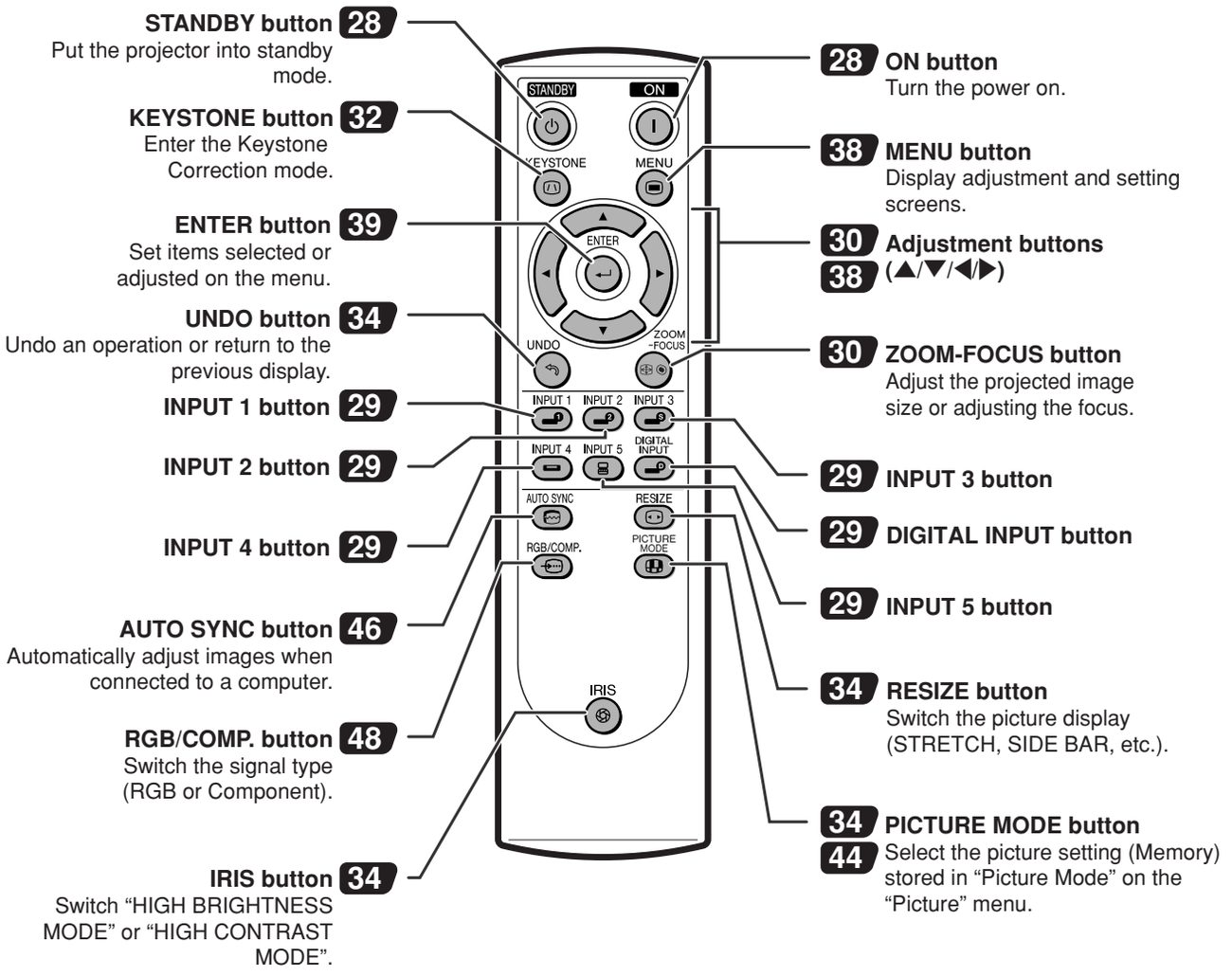


Using the Kensington Lock

- This projector has a Kensington Security Standard connector for use with a Kensington MicroSaver Security System. Refer to the information that came with the system for instructions on how to use it to secure the projector.

Numbers in refer to the main pages in this owner's manual where the topic is explained.

Remote Control



Note

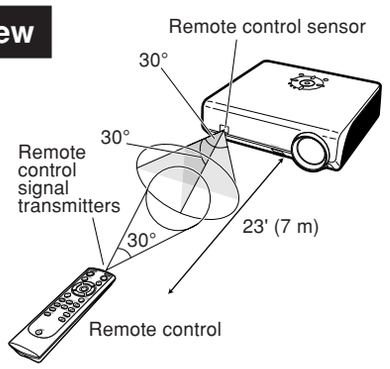
- All the buttons on the remote control are made of luminous material that is visible in the dark. Visibility will diminish over time. Exposure to light will recharge the luminous buttons.

Using the Remote Control

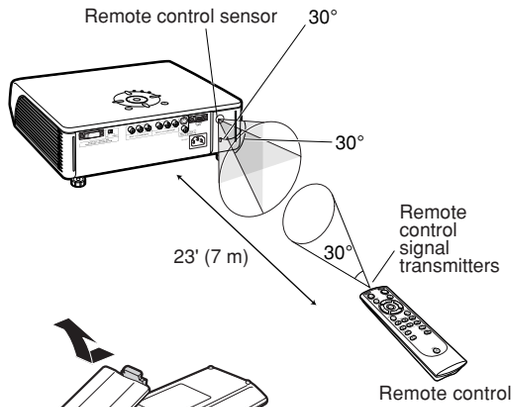
Usable Range

The remote control can be used to control the projector within the ranges shown in the illustration.

Front View



Rear View



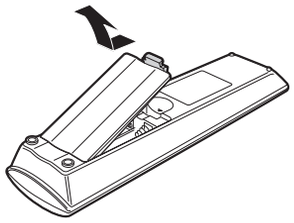
> **Note**
> • The signal from the remote control can be reflected off a screen for easy operation. However, the effective distance of the signal may differ depending on the screen material.

When using the remote control:

- Ensure that you do not drop the remote control or expose it to moisture or high temperature.
- The remote control may malfunction under a fluorescent lamp. In this case, move the projector away from the fluorescent lamp.

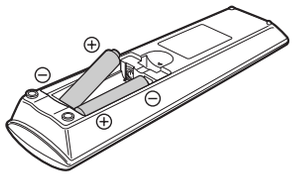
Inserting the Batteries

1 Pull down the tab on the cover and remove the cover towards the direction of the arrow.

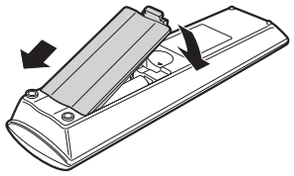


2 Insert the included batteries (two "AA" size).

- Insert the batteries making sure the polarities correctly match the ⊕ and ⊖ marks inside the battery compartment.



3 Insert the lower tab of the cover into the opening, and lower the cover until it clicks in place.



Incorrect use of the batteries may cause them to leak or explode. Please follow the precautions below.

⚠ Caution

- Insert the batteries making sure the polarities correctly match the ⊕ and ⊖ marks inside the battery compartment.
- Batteries of different types have different properties, therefore do not mix batteries of different types.
- Do not mix new and old batteries.
  This may shorten the life of new batteries or may cause old batteries to leak.
- Remove the batteries from the remote control once they have run out, as leaving them in can cause them to leak.
  Battery fluid from leaked batteries is harmful to skin, therefore ensure that you first wipe them and then remove them using a cloth.

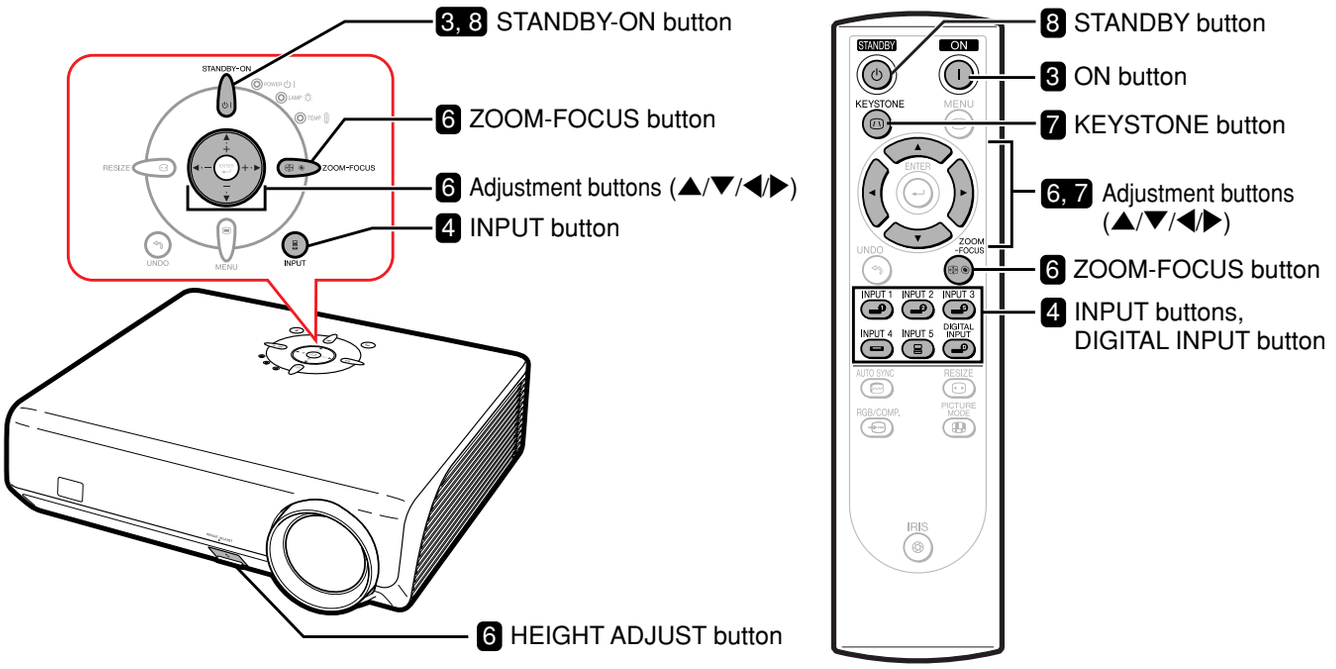
- The batteries included with this projector may run down in a short period, depending on how they are kept. Be sure to replace them as soon as possible with new batteries.

Quick Start

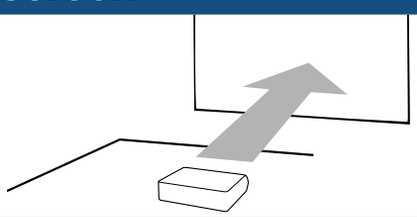
This section shows the basic operation. For details, see the page described below for each step.

Setup and Projection

Connection of the projector and the video equipment with an S-video terminal is explained as an example below.

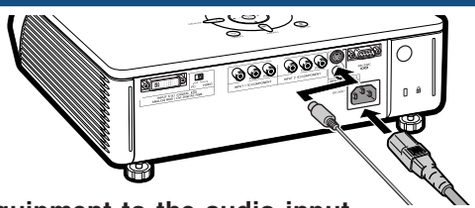


1. Place the projector facing a screen



➡ Page 16

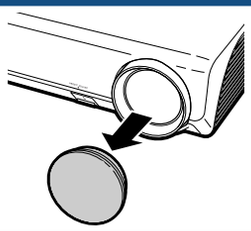
2. Connect the projector to the video equipment and plug the power cord into the AC socket of the projector



Connect the audio output terminal of the video equipment to the audio input terminal of the audio equipment using an audio cable.

➡ Pages 21-28

3. Remove the lens cap and turn the projector on



On the projector

On the remote control

➡ Page 28

4. Select the INPUT mode

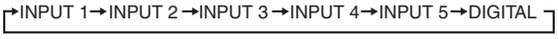
Select the “INPUT 3” using the INPUT button on the projector or the INPUT 3 button on the remote control.

On the projector

On the remote control

▼ On-screen Display

- When pressing on the projector, input mode switches in order of :



- When using the remote control, press to switch the INPUT mode.

➡ Page 29

5. Turn the video equipment on and playback

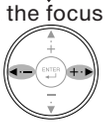
6. Adjust the projector angle, focus and zoom

❶ Adjust the focus.

On the projector

① Press ZOOM-FOCUS.

② Adjust the focus by pressing ◀ or ▶.



On the remote control

① Press ZOOM -FOCUS.

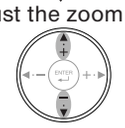
② Adjust the focus by pressing ◀ or ▶.

❷ Adjust the projected image size by adjusting zoom.

On the projector

① Press ZOOM-FOCUS.

② Adjust the zoom by pressing ▲ or ▼.

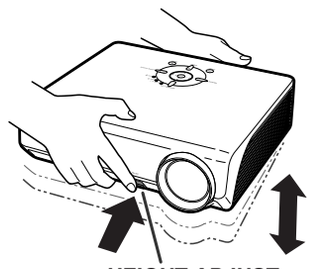


On the remote control

① Press ZOOM -FOCUS.

② Adjust the zoom by pressing ▲ or ▼.

❸ Adjust the projector angle using the HEIGHT ADJUST button.

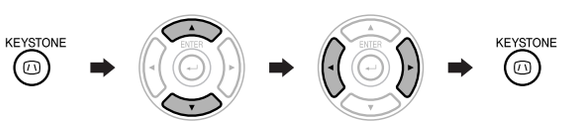


➡ Pages 30, 31

7. Correct trapezoidal distortion

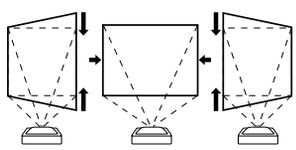
Correcting trapezoidal distortion using the Keystone Correction

On the remote control

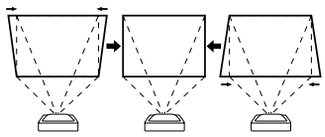


Select “H Keystone” or “V Keystone”. Adjust

Horizontal



Vertical



➡ Pages 32, 33

8. Turn the Power off

Press the STANDBY-ON button on the projector or the STANDBY button on the remote control, then press the same button again while the confirmation message is displayed, to put the projector into standby mode.

On the projector

On the remote control

▼ On-screen Display

- Unplug the power cord from the AC outlet after the cooling fan stops.

➡ Page 28

Setting Up the Projector

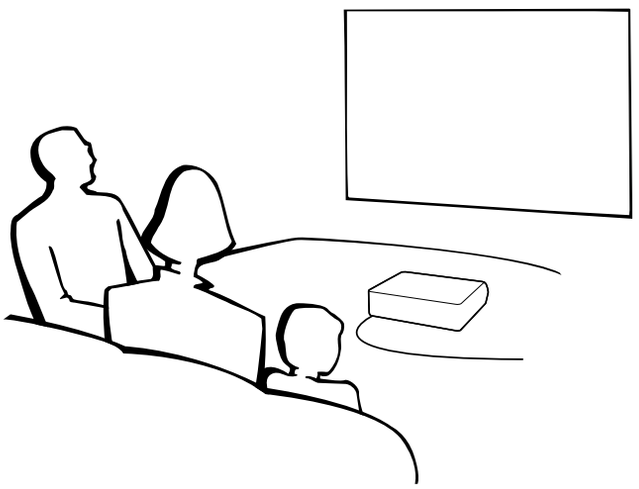
Position the projector perpendicular to the screen to achieve an optimal image.

Note

- The projector lens should be centered in the middle of the screen. If the horizontal line passing through the lens center is not perpendicular to the screen, the image will be distorted, making viewing difficult.
- For an optimal image, position the screen so that it is not in direct sunlight or room light. Light falling directly on the screen washes out the colors, making viewing difficult. Close the curtains and dim the lights when setting up the projector in a sunny or bright room.

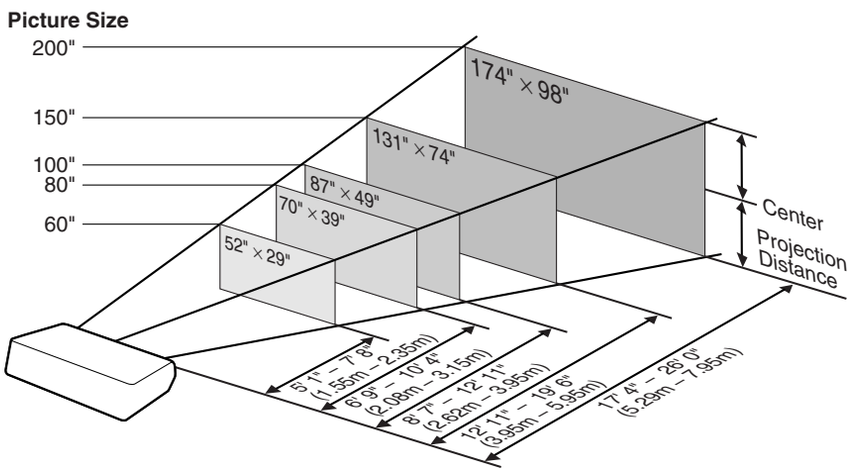
Standard Setup (Front Projection)

■ Place the projector at the required distance from the screen according to the desired picture size. (See page **17**.)



Indication of the Projection Image Size and Projection Distance

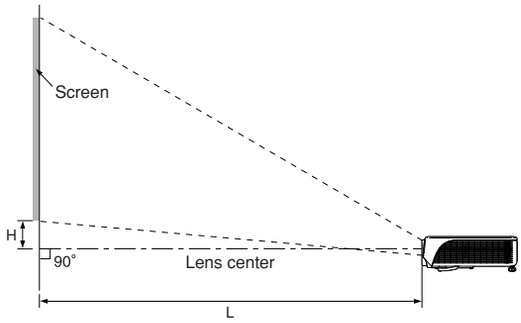
See “Screen Size and Projection Distance” on page 17 for details.
Example : When using a wide screen (16:9)



Screen Size and Projection Distance

The projection screen size varies according to the distance from the lens of the projector to the screen. Install the projector so that projected images are projected onto the screen at the optimum size by referring to the table below. Use the values in the table as a reference when installing the projector.

Side View



When using a wide screen (16:9):

In case of displaying the 16:9 picture on the whole of the 16:9 screen.

Picture (Screen) size			Projection distance [L]		Distance from the bottom of the image to the lens center [H]
Diag. [χ]	Width	Height	Minimum [L1]	Maximum [L2]	
200" (508 cm)	443 cm (174")	249 cm (98")	5.29 m (17' 4")	7.95 m (26' 0")	8.3 cm (3 9/32")
150" (381 cm)	332 cm (131")	187 cm (74")	3.95 m (12' 11")	5.95 m (19' 6")	6.2 cm (2 29/64")
100" (254 cm)	221 cm (87")	125 cm (49")	2.62 m (8' 7")	3.95 m (12' 11")	4.2 cm (1 21/32")
80" (203 cm)	177 cm (70")	100 cm (39")	2.08 m (6' 9")	3.15 m (10' 4")	3.3 cm (1 5/16")
70" (178 cm)	155 cm (61")	87 cm (34")	1.82 m (5' 11")	2.75 m (9' 0")	2.9 cm (1 5/32")
60" (152 cm)	133 cm (52")	75 cm (29")	1.55 m (5' 1")	2.35 m (7' 8")	2.5 cm (63/64")
40" (102 cm)	89 cm (35")	50 cm (20")	1.01 m (3' 3")	1.55 m (5' 1")	1.7 cm (43/64")

χ: Picture size (diag.) (in/cm)
L: Projection distance (m/ft)
L1: Minimum projection distance (m/ft)
L2: Maximum projection distance (m/ft)
H: Distance from the bottom of the image to the lens center (cm/in)

The formula for picture size and projection distance

[m/cm]	**[Feet/inches]**
L1 (m) = 0.02671χ–0.05334	L1 (ft) = (0.02671χ–0.05334) / 0.3048
L2 (m) = 0.03999χ–0.05215	L2 (ft) = (0.03999χ–0.05215) / 0.3048
H (cm) = 0.04151χ	H (in) = 0.04151χ / 2.54

When using a normal screen (4:3):

In case of setting the 16:9 picture to the full horizontal width of the 4:3 screen.

Picture (Screen) size			Projection distance [L]		Distance from the bottom of the image to the lens center [H]
Diag. [χ]	Width	Height	Minimum [L1]	Maximum [L2]	
200" (508 cm)	406 cm (160")	305 cm (120")	4.85 m (15' 10")	7.29 m (23' 11")	7.62 cm (3")
150" (381 cm)	305 cm (120")	229 cm (90")	3.62 m (11' 10")	5.45 m (17' 10")	5.72 cm (2 17/64")
100" (254 cm)	203 cm (80")	152 cm (60")	2.40 m (7' 10")	3.62 m (11' 10")	3.81 cm (1 1/2")
80" (203 cm)	163 cm (64")	122 cm (48")	1.91 m (6' 3")	2.88 m (9' 5")	3.05 cm (1 13/64")
70" (178 cm)	142 cm (56")	107 cm (42")	1.66 m (5' 5")	2.52 m (8' 3")	2.67 cm (1 1/16")
60" (152 cm)	122 cm (48")	91 cm (36")	1.42 m (4' 7")	2.15 m (7' 0")	2.29 cm (57/64")
40" (102 cm)	81 cm (32")	61 cm (24")	0.93 m (3' 0")	1.42 m (4' 7")	1.52 cm (39/64")

χ: Picture size (diag.) (in/cm)
L: Projection distance (m/ft)
L1: Minimum projection distance (m/ft)
L2: Maximum projection distance (m/ft)
H: Distance from the bottom of the image to the lens center (cm/in)

The formula for picture size and projection distance

[m/cm]	**[Feet/inches]**
L1 (m) = 0.02452χ–0.05334	L1 (ft) = (0.02452χ–0.05334) / 0.3048
L2 (m) = 0.03671χ–0.05215	L2 (ft) = (0.03671χ–0.05215) / 0.3048
H (cm) = 0.03810χ	H (in) = 0.03810χ / 2.54

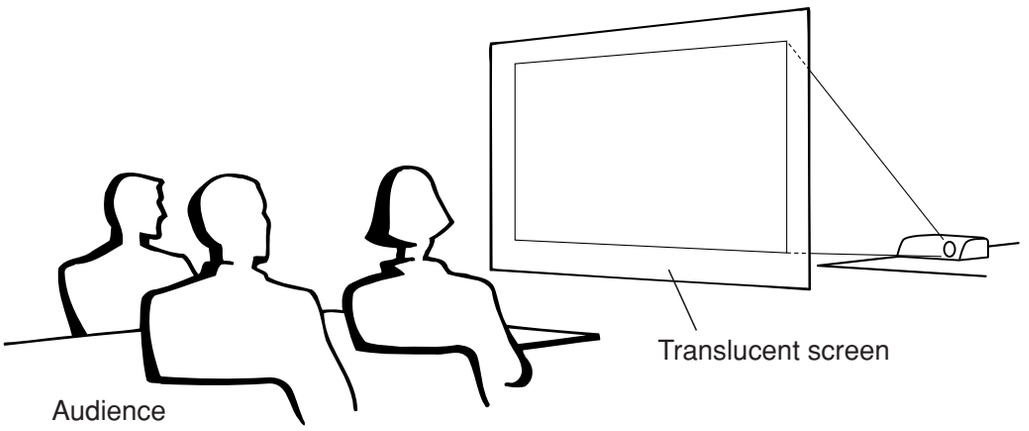
Note

- There may be an error of ± 3% in the above values.

Projecting a Reversed Image

Projection from behind the Screen

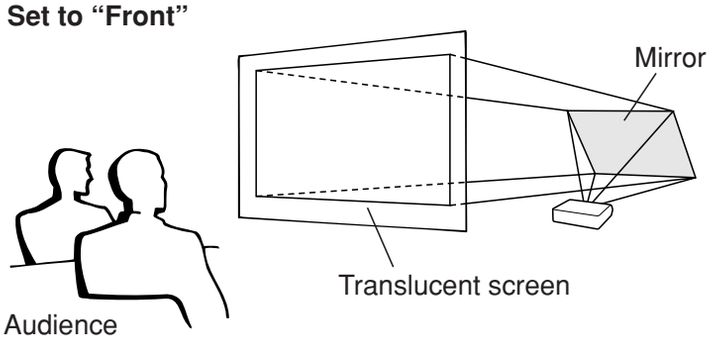
- Place a translucent screen between the projector and the audience.
- Reverse the image by setting “Rear” in the “PRJ Mode” menu. (See page **52**.)



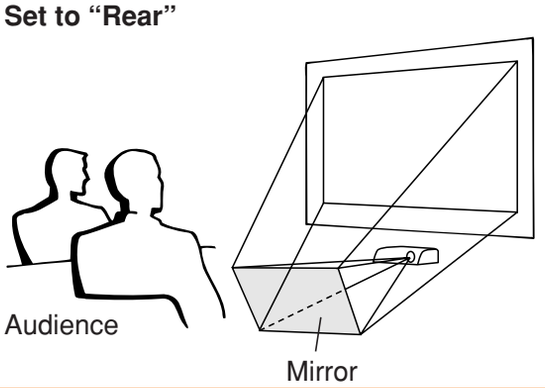
Projection Using a Mirror

- Place a mirror (normal flat type) in front of the lens.
- When the translucent screen is placed between the mirror and audience, set to “Front” in the “PRJ Mode” menu. (See page **52**.)
- When the mirror is placed on the audience side, set to “Rear” in the “PRJ Mode” menu. (See page **52**.)

Set to “Front”



Set to “Rear”

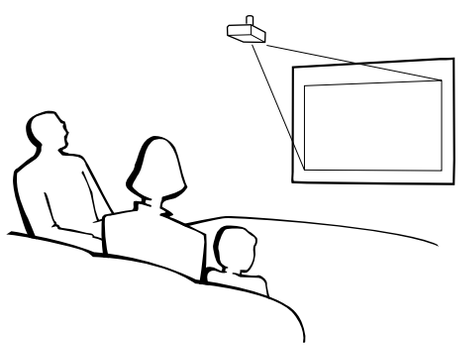


Info

- When using a mirror, ensure to carefully position both the projector and the mirror so the light does not shine into the eyes of the audience.

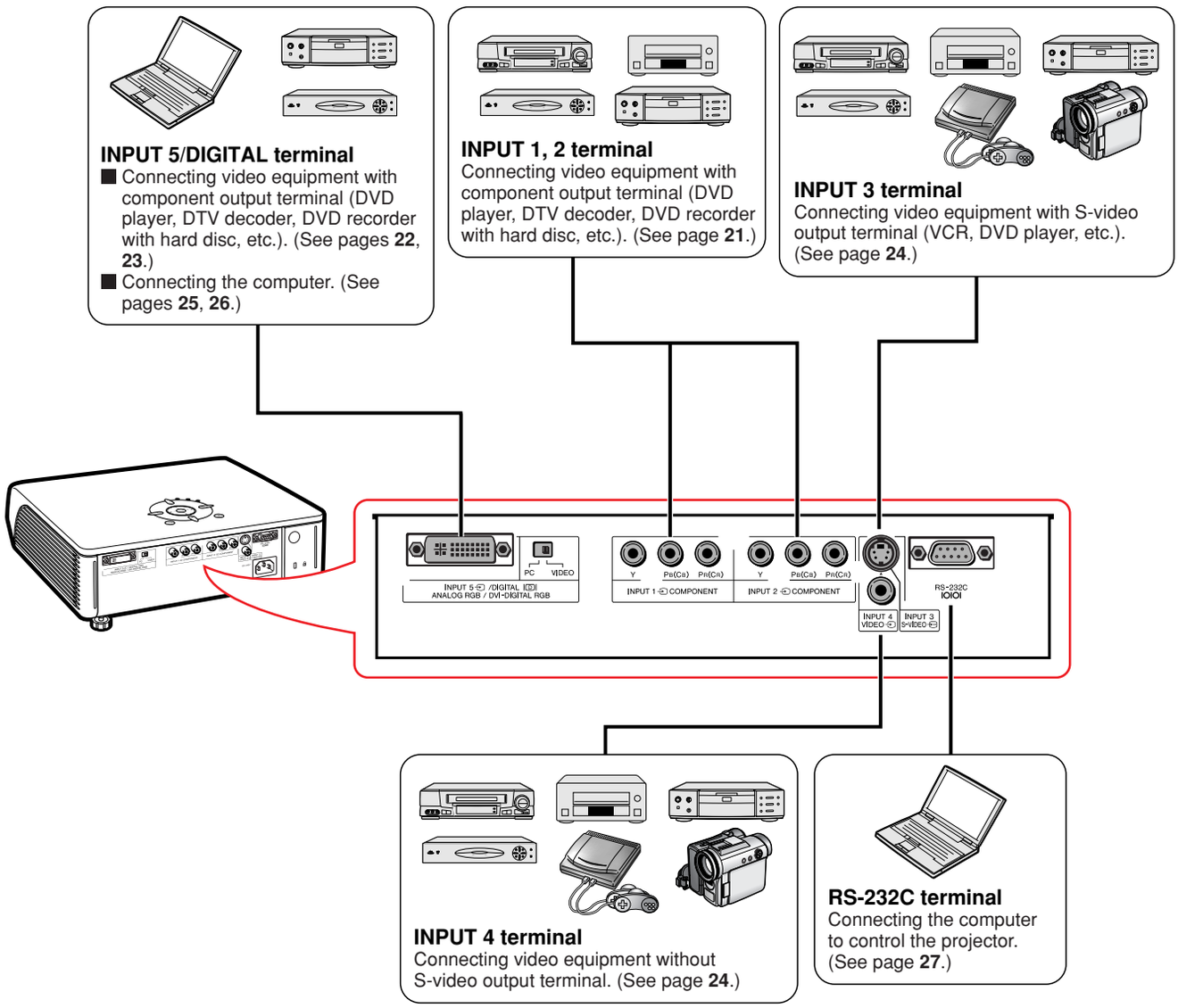
Ceiling-mount Setup

- It is recommended that you use the optional EIKI ceiling-mount bracket for this installation.
- Before mounting the projector, contact your nearest EIKI Authorized Dealer or Service Center to obtain the recommended ceiling-mount bracket (sold separately).
- Invert the image by setting “Ceiling + Front” in “PRJ Mode”. See page **52** for use of this function.



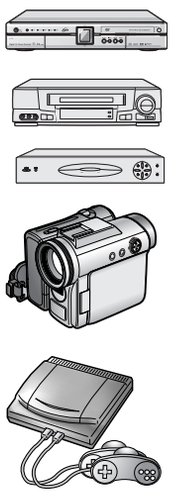
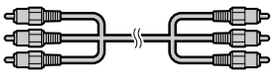
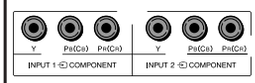
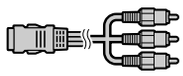
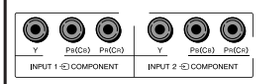
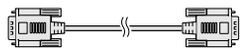
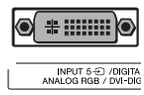
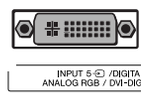
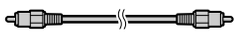
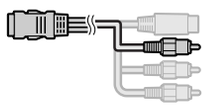
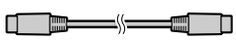
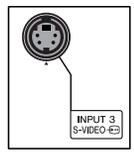
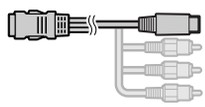
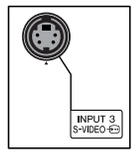
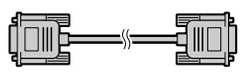
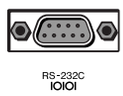
Connections

INPUT Terminals and Connectable Main Equipment



Samples of Cables for Connection

- For more details of connection and cables, refer to the owner's manual of the connecting equipment.
- You may need other cables or connectors not listed below.

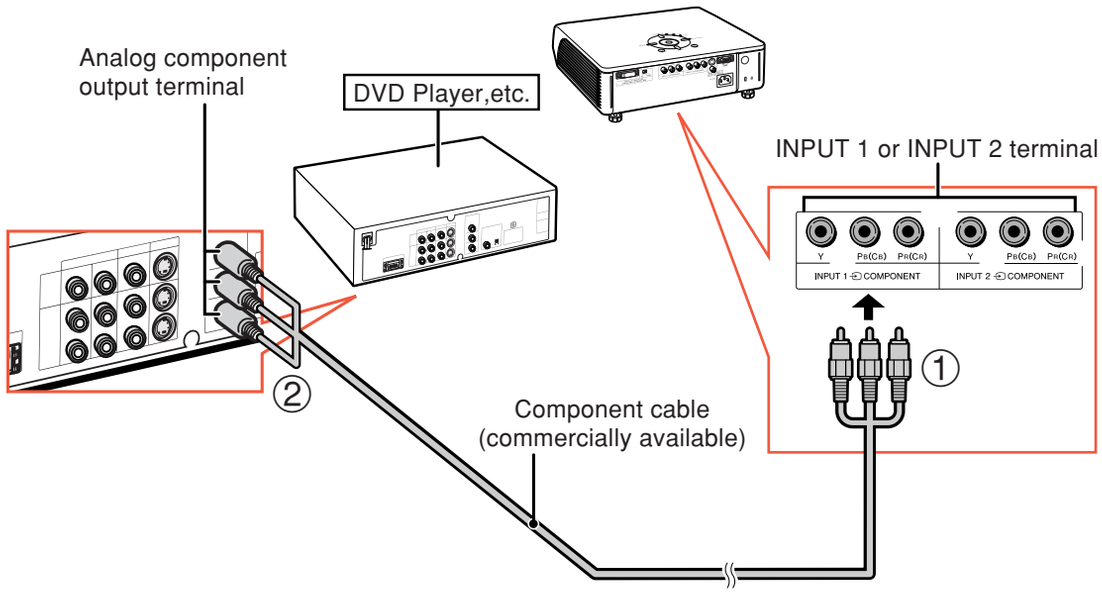
Equipment	Terminal on connected equipment	Cable	Terminal on the projector
Audio-visual equipment 	**Component video output terminal**	**Component cable (commercially available)** 	**INPUT 1, 2** 
	Terminal for using the dedicated cable	**Dedicated cable attached to the connected equipment** 	**INPUT 1, 2** 
	DVI output terminal	**DVI cable (commercially available)** 	**INPUT 5/DIGITAL** 
	RGB output terminal	**RGB cable (commercially available)** **DVI to 15-pin D-sub adaptor (commercially available)**	**INPUT 5/DIGITAL** 
Computer	**Video output terminal**	**Video cable (supplied)** 	**INPUT 4**
	Terminal for using the dedicated cable	**Dedicated cable attached to the connected equipment** 	**INPUT 4**
	S-video output terminal	**S-video cable (commercially available)** 	**INPUT 3** 
	Terminal for using the dedicated cable	**Dedicated cable attached to the connected equipment** 	**INPUT 3** 
Computer	**RS-232C terminal**	**RS-232C cable (commercially available)** 	**RS-232C** 

Connecting to Video Equipment

Before connecting, ensure that you have unplugged the power cord of the projector from the AC outlet and turned off the devices to be connected. After making all connections, turn on the projector and then the other devices.

Ensure that you have read the owner's manuals of the devices to be connected before making connections.

When connecting the component video equipment to the component input terminal on the projector (INPUT 1 or INPUT 2)



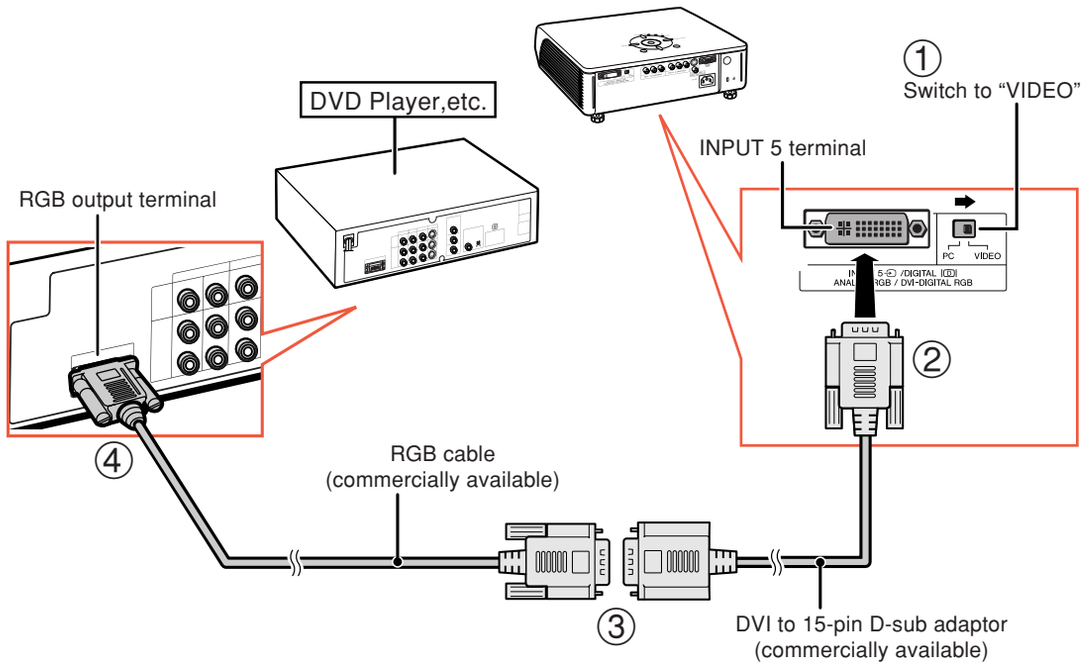
Note

- When you connect video equipment with a 21-pin RGB output (Euro-scart) to the projector, use a commercially available cable that fits in the projector terminal you want to connect.

Connecting to Video Equipment

When connecting the video equipment with RGB output terminal (INPUT 5)

• Before connecting the cable, switch the digital input type switch to “VIDEO”.

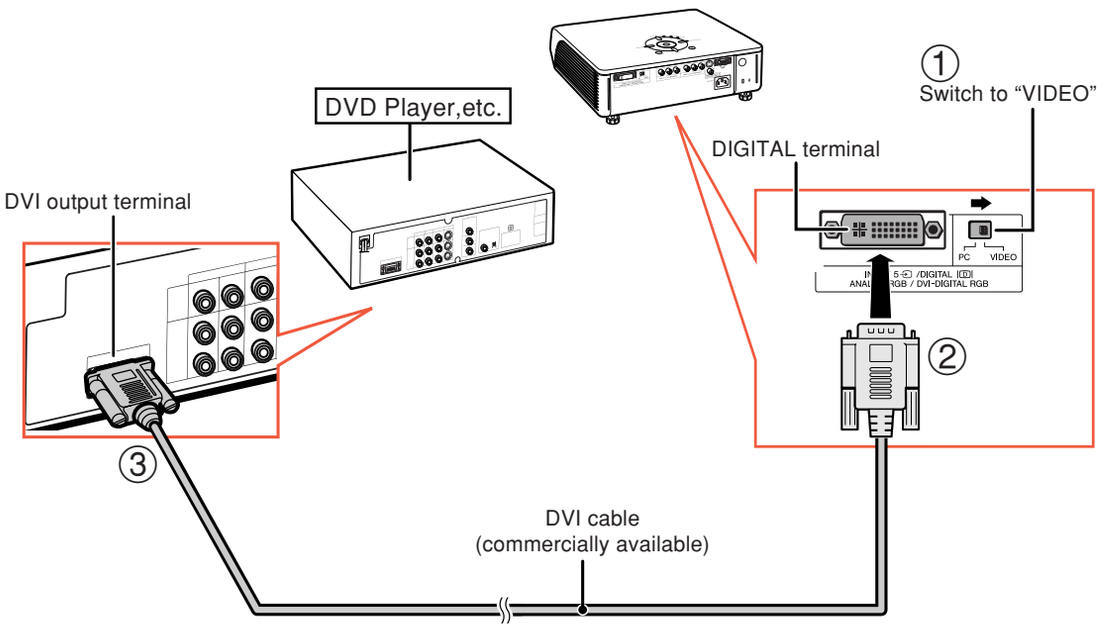


Note

• For this connection, select “RGB” for “Signal Type” on the OSD menu or press RGB/COMP. on the remote control. (See page **48**.)

When connecting the video equipment with DVI output terminal (DIGITAL INPUT)

• Before connecting the cable, switch the digital input type switch to “VIDEO”.

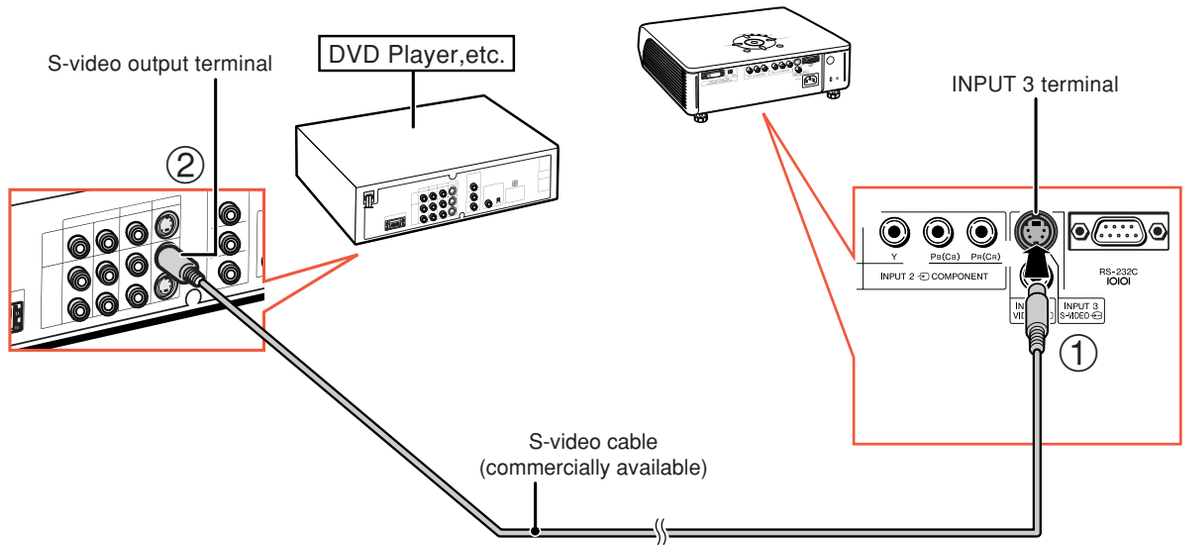


Note

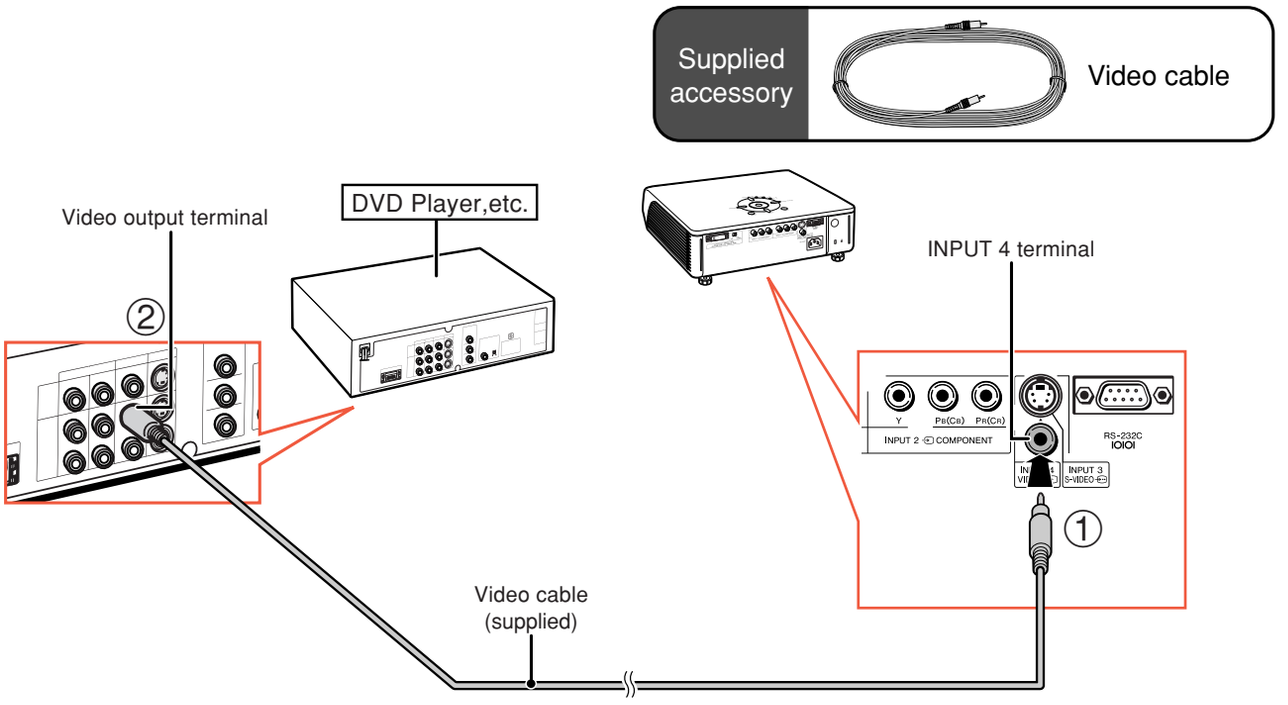
• Select DIGITAL mode when connecting to video equipment with the digital output terminal. (See page **29**.)

Connecting to Video Equipment

When connecting video equipment with S-video output terminal (INPUT 3)



When connecting video equipment with video output terminal (INPUT 4)



Note

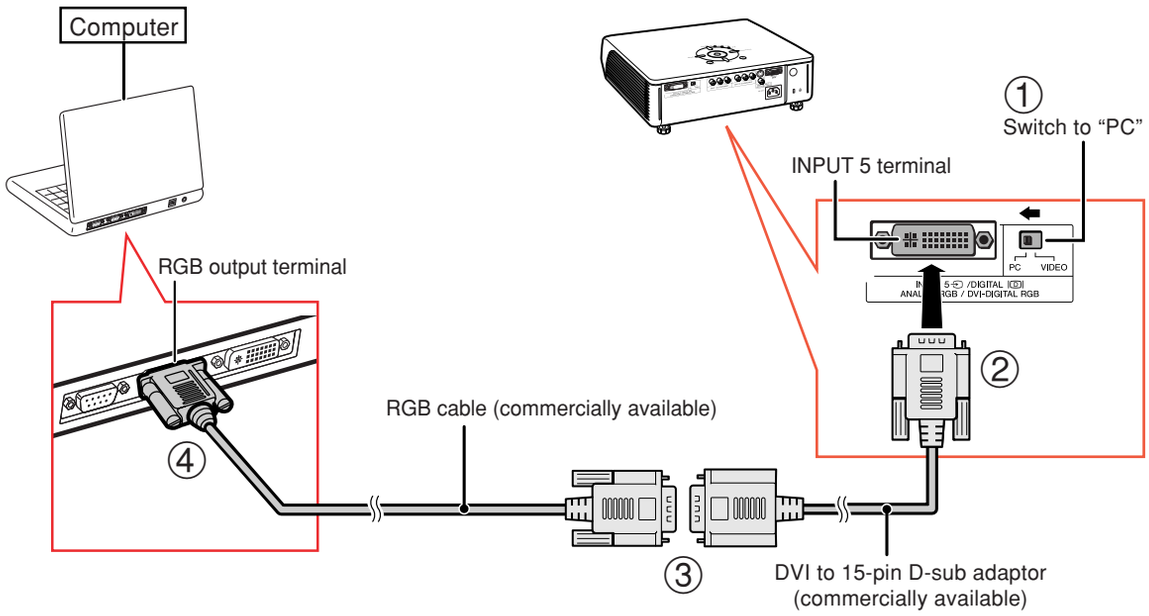
- When you connect video equipment with a 21-pin RGB output (Euro-scart) to the projector, use a commercially available cable that fits in the projector terminal you want to connect.

Connecting to a Computer

When connecting a computer, ensure that it is the last device to be turned on after all the connections are made.

Connecting to a computer (INPUT 5)

• Before connecting the cable, switch the digital input type switch to “PC”.



Note

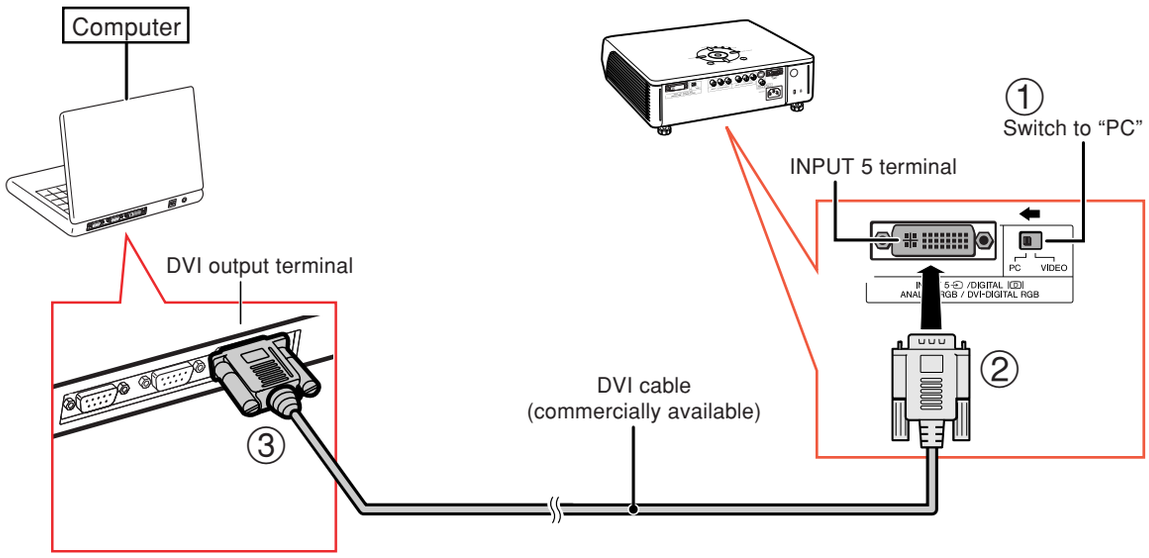
- Refer to “Computer Compatibility Chart” on page **61** for a list of computer signals compatible with the projector. Use with computer signals other than those listed may cause some of the functions not to work.
- When connecting the projector to a computer in this way, select “RGB” for “Signal Type” on the OSD menu or press RGB/COMP. on the remote control. (See page **48**.)
- A Macintosh adaptor may be required for use with some Macintosh computers. Contact your nearest EIKI Authorized Dealer or Service Center.
- Depending on the computer you are using, an image may not be projected unless the signal output setting of the computer is switched to the external output. Refer to the owner’s manual of the computer for switching the computer signal output settings.

Connecting to a Computer

When connecting a computer, ensure that it is the last device to be turned on after all the connections are made.

Connecting to a computer with DIGITAL RGB output Terminal (DIGITAL)

• Before connecting the cable, switch the digital input type switch to “PC”.



Note

- Select DIGITAL mode when connecting to digital output terminal of the computer. (See page **29**.)
- Before switching “Digital input type switch” and connecting, ensure to unplug the power cord of the projector from the AC outlet and turn off the computer to be connected. After making all connections, turn on the projector and then the computer.

“Plug and Play” function

■ This projector is compatible with VESA-standard DDC 1/DDC 2B. The projector and a VESA DDC compatible computer will communicate their setting requirements, allowing for quick and easy setup.

■ Before using the “Plug and Play” function, **be sure to turn on the projector first and the connected computer last.**

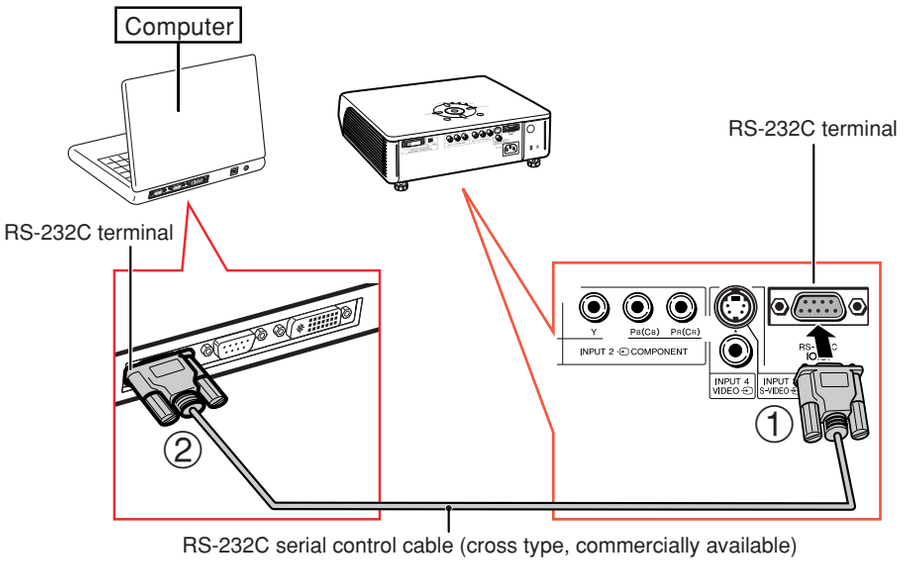
Note

- The DDC “Plug and Play” function of this projector operates only when used in conjunction with a VESA DDC compatible computer.

Controlling the Projector by a Computer

When the RS-232C terminal on the projector is connected to a computer, the computer can be used to control the projector and check the status of the projector.

When connecting to a computer using an RS-232C serial control cable



Note

- The RS-232C function may not operate if your computer terminal is not correctly set up. Refer to the owner's manual of the computer for details.
- **See "RS-232C Specifications and Command Settings" on page 60 for details.**

Info

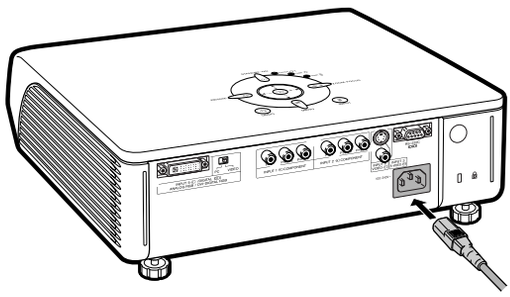
- Do not connect the RS-232C cable to a port other than the RS-232C terminal on the computer. This may damage your computer or projector.
- Do not connect or disconnect an RS-232C serial control cable to or from the computer while it is on. This may damage your computer.

Turning the Projector On/Off

Connecting the Power Cord

Plug the supplied power cord into the AC socket.

Supplied accessory	Power cord



Turning the Projector On

Before performing the steps in this section, connect any equipment that you use with the projector. (See pages 19-27.)

Remove the lens cap and press STANDBY-ON on the projector or ON on the remote control.

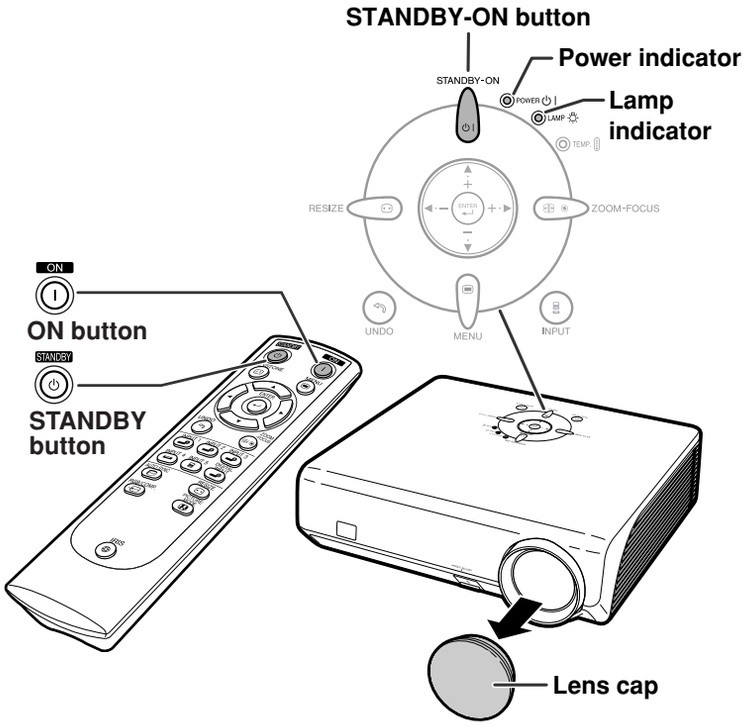
- The power indicator illuminates red.
- After the lamp indicator illuminates, the projector is ready to start operation.

Note

- The lamp indicator illuminates or blinks, indicating the status of the lamp.
  - **Green:** The lamp is ready.
  - **Blinking green:** The lamp is warming up or shutting down.
  - **Red:** The lamp is shut down abnormally or the lamp should be replaced.
- When switching on the projector, a slight flickering of the image may be experienced within the first minute after the lamp has been illuminated. This is normal operation as the lamp's control circuitry is stabilizing the lamp output characteristics. This does not indicate malfunction.
- If the projector is put into standby mode and immediately turned on again, the lamp may take some time to illuminate.

Info

- English is the factory preset language. If you want to change the on-screen display to another language, change the language according to the procedure on page **52**.

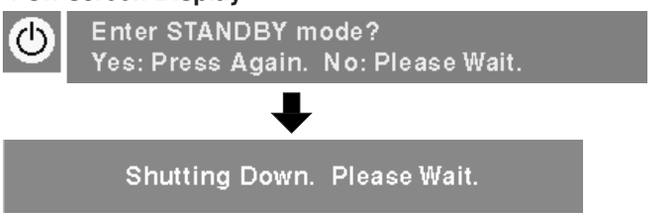


Turning the Power Off (Putting the Projector into Standby Mode)

1. **Press STANDBY-ON on the projector or STANDBY on the remote control, then press that button again while the confirmation message is displayed, to put the projector into standby mode.**

2. **Unplug the power cord from the AC outlet after the cooling fan stops.**

▼On-screen Display



Info

- Do not unplug the power cord during projection or cooling fan operation. The cooling fan in this projector continues to run for about 90 seconds after the projector enters the standby mode. This can cause damage due to rise in internal temperature, as the cooling fan also stops.

Image Projection

Switching the INPUT Mode

Select the appropriate input mode for the connected equipment.

Press INPUT 1, INPUT 2, INPUT 3, INPUT 4, INPUT 5 or DIGITAL INPUT on the remote control to select the input mode.

- **When pressing INPUT on the projector, input mode switches in order of :**

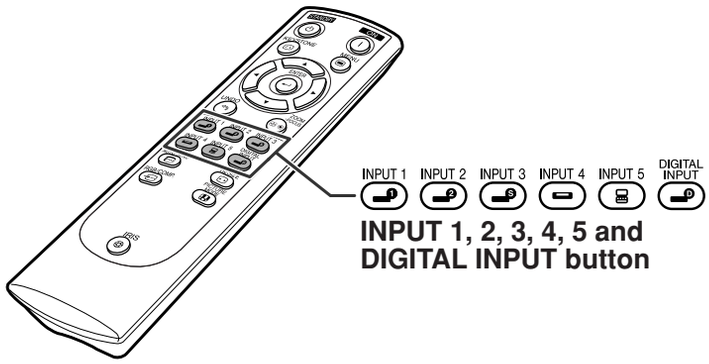
INPUT 1 → INPUT 2 → INPUT 3
DIGITAL ← INPUT 5 ← INPUT 4

Note

- When no signal is received, “NO SIGNAL” will be displayed. When a signal that the projector is not preset to receive is received, “NOT REG.” will be displayed.
- The INPUT mode is not displayed when “OSD Display” of the “Options” menu is set to “ (OFF)”. (See page **47**.)

About the INPUT mode

INPUT 1 (Component)	Used for projecting images from equipment connected to INPUT 1 terminal.
INPUT 2 (Component)	Used for projecting images from equipment connected to INPUT 2 terminal.
INPUT 3 (S-Video)	Used for projecting images from equipment connected to INPUT 3 terminal.
INPUT 4 (Video)	Used for projecting images from equipment connected to INPUT 4 terminal.
INPUT 5 (Component/ RGB)	Used for projecting images from equipment connected to INPUT 5 terminal.
DIGITAL	Used for projecting images from equipment with DVI or RGB output terminal connected to INPUT 5 terminal.



INPUT 1, 2, 3, 4, 5 and DIGITAL INPUT button

▼On-screen Display of INPUT Mode (Example)

INPUT 1 mode
Using Component

INPUT 2 mode
Using Component

INPUT 3 mode
Using S-Video

INPUT 4 mode
Using Video

INPUT 5 mode

Component

RGB

- When switching the component and RGB input mode, press RGB/COMP. on the remote control or select “Signal Type” in the “Options” menu.

DIGITAL mode

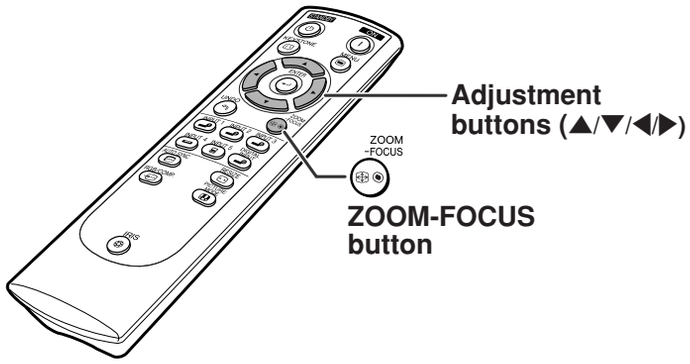
Adjusting the Focus

1 Press ZOOM -FOCUS on the remote control.

2 Press ◀ or ▶ on the remote control to adjust the focus.

Note

- You can also adjust the focus by using ZOOM-FOCUS and ◀ or ▶ on the projector.



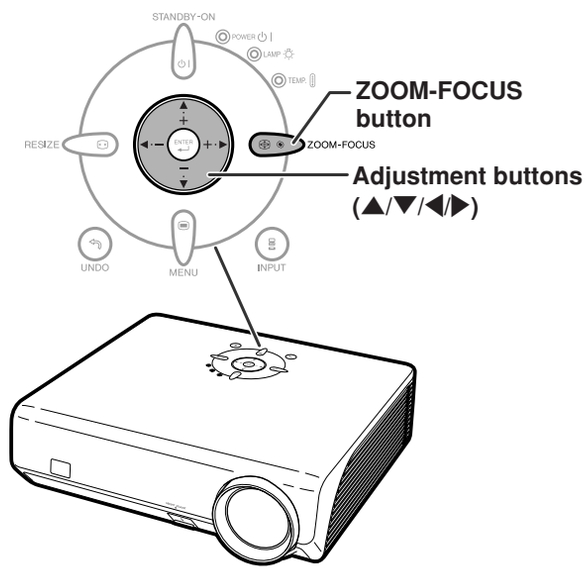
Adjusting the Projected Image Size

1 Press ZOOM -FOCUS on the remote control.

2 Press ▲ or ▼ on the remote control to adjust the zoom.

Note

- You can also adjust the zoom by using ZOOM-FOCUS and ▲ or ▼ on the projector.



Using the Adjustment Feet

The height of the projector can be adjusted using the adjustment feet at the front and rear of the projector when the screen is located higher than the projector, the screen is inclined or when the installation site is slightly inclined. Install the projector so that it is as perpendicular to the screen as possible.

1 Lift the projector to adjust its height while pressing the HEIGHT ADJUST button.

- The projector is adjustable up to approximately 12 degrees (6 steps).
- When lowering the projector, it may be difficult to move the front adjustment foot because the installation surface is difficult to slide. In this case, pull the projector back slightly and adjust its height.

2 Remove your hands from the HEIGHT ADJUST button of the projector after its height has been finely adjusted.

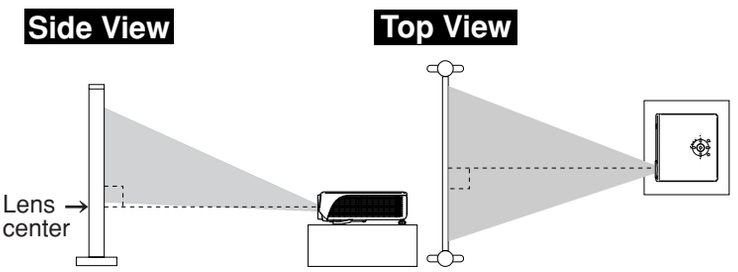
3 Finely adjust the height and inclination by turning the rear adjustment feet.

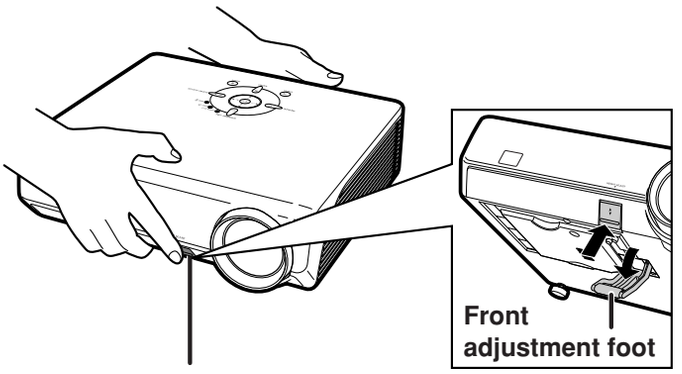
Note

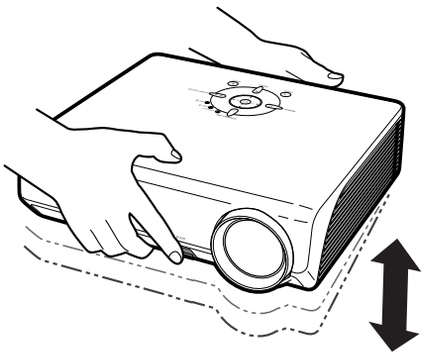
- When adjusting the projected image position, trapezoidal distortion occurs. In this case, see “Keystone Correction” on page **32**.

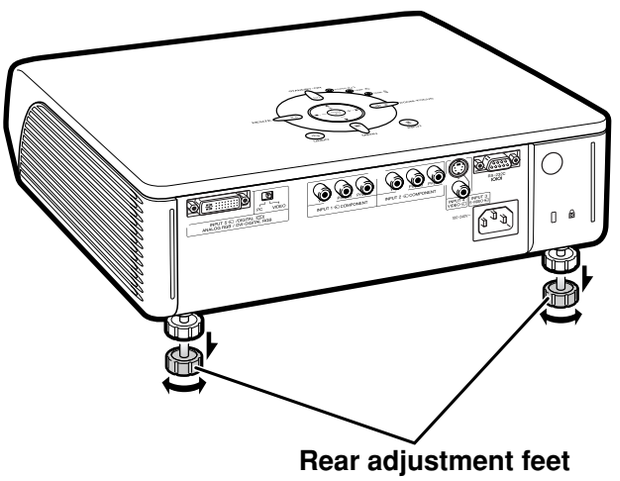
Info

- Do not press the HEIGHT ADJUST button when the front adjustment foot comes out without firmly holding the projector.
- Do not hold the lens when lifting or lowering the projector.
- When lowering the projector, be careful not to get your fingers caught in the area between the adjustment foot and the projector.









Keystone Correction

This function can be used to adjust the Keystone settings.

Note

- When the image is projected from a direction at an angle, the image becomes distorted trapezoidally. The function for correcting trapezoidal distortion is called Keystone Correction.

1 **Press KEYSTONE on the remote control to enter the Keystone Correction mode.**

2 **Press ▲/▼ to select "H Keystone" or "V Keystone".**

Selectable items	Description
H Keystone	Horizontally adjusts the keystone settings.
V Keystone	Vertically adjusts the keystone settings.
Reset	Returns to the factory preset settings.

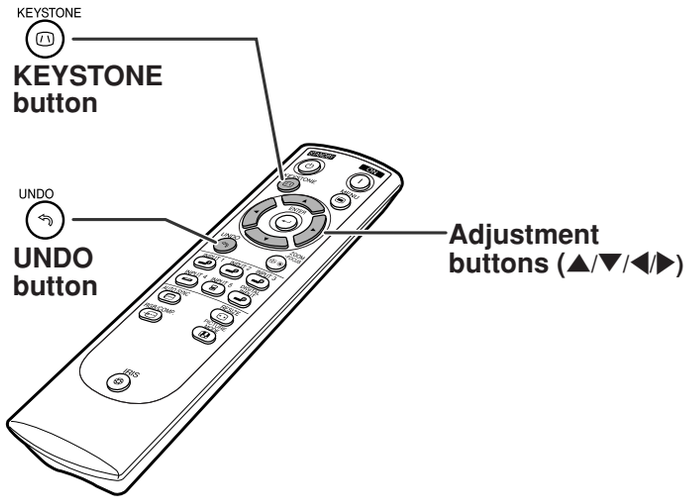
3 **Press ◀/▶ to move the ■ mark on the selected adjustment item to the desired setting.**

Note

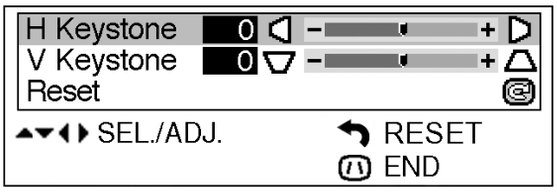
- Straight lines and the edges of the displayed image may appear jagged, when adjusting the Keystone setting.
- When adjusting "H Keystone" and "V Keystone" at the same time, the values of adjustable angles for each setting become smaller.
- The adjustable value of the "V Keystone" becomes extremely small when "H Keystone" is made to be the maximum value.
- Keystone correction is disabled while the picture mode is set to "SMART STRETCH". (See page **35**.)

4 **Press KEYSTONE .**

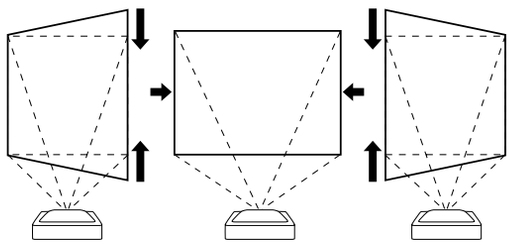
- The on-screen display of the Keystone Correction mode will disappear.



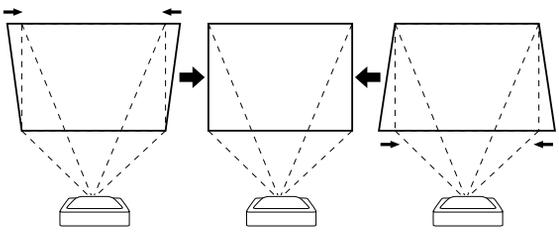
▼On-screen Display (Keystone Correction mode)



Horizontal Keystone Correction



Vertical Keystone Correction

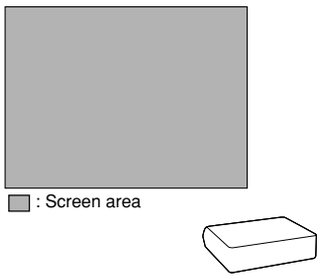


Note

- When adjusting the Keystone setting, the placement range is changed depending on the input signal type.
- Keystone correction cannot be applied to On-screen Display.
- When Keystone correction is applied, the resolution of image can be deteriorated to some extent.
- Keystone Correction is also returned to the factory preset settings by pressing UNDO on the remote control.

Placement of the Projected Image Using the Keystone Correction

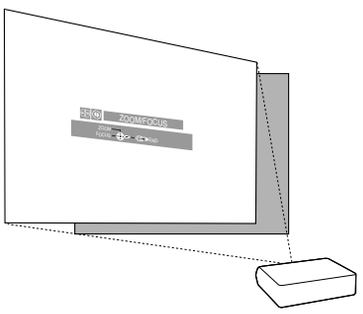
Place the projector at a distance from the screen that allows images to be projected onto the screen by referring to "Screen Size and Projection Distance" on page 17.



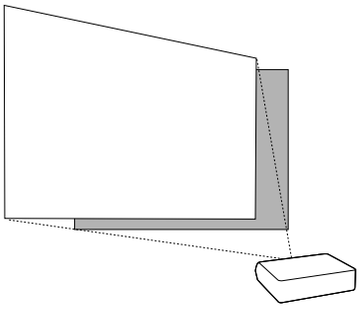
Note

- The aspect ratio of the projected image also shifts slightly when the "H Keystone" and "V Keystone" functions are adjusted simultaneously.
- If you cannot correct trapezoidal distortion with Keystone correction, change the placement position of the projector.

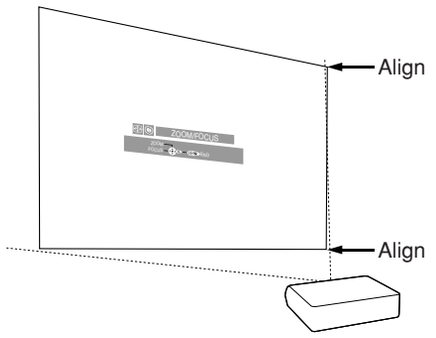
1 **Project an image onto the screen. Adjust the focus until the image on the screen comes into focus. (See page 30.)**



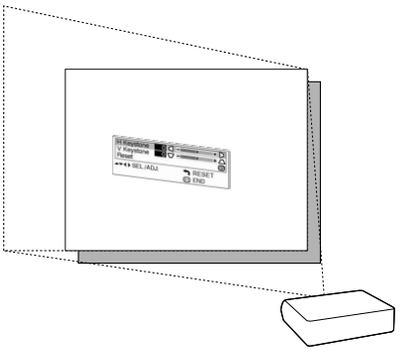
2 **Change the projection angle moving the projector or using the adjuster to properly project images onto the screen. (See page 31).**



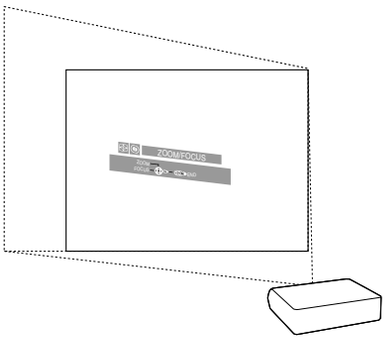
3 **Align the edge of the screen closest to the projector with the image by adjusting the zoom and the adjuster. (See pages 30 and 31.)**



4 **Adjust the Keystone function so that the size of the projected image matches the screen size. (See page 32.)**



5 **Align the image on the screen by adjusting the zoom function and the adjuster.**



6 **Adjust the focus so that the projected image is in focus at the center of the screen. (See page 30.)**

Selecting the Picture Mode

You can select the picture setting (Memory) directly stored in "Picture Mode" on the "Picture" menu.

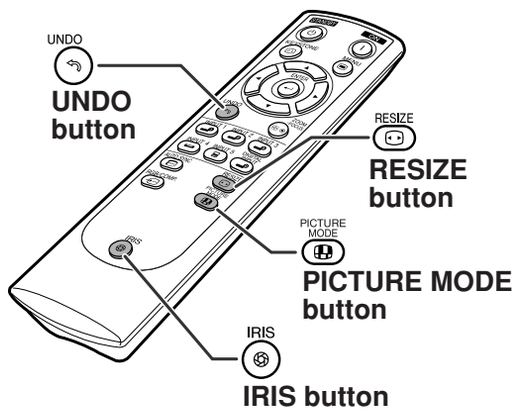
Press PICTURE MODE on the remote control.

- Each time the button is pressed while the display is on, the picture mode changes in order of:

Memory OFF → Memory 1 → Memory 2 → Memory 3 → Memory 4 → Memory 5 → Memory OFF

Note

- This function can also be accessed from the OSD menu (see page **44**).



Switching the High Brightness / High Contrast Mode

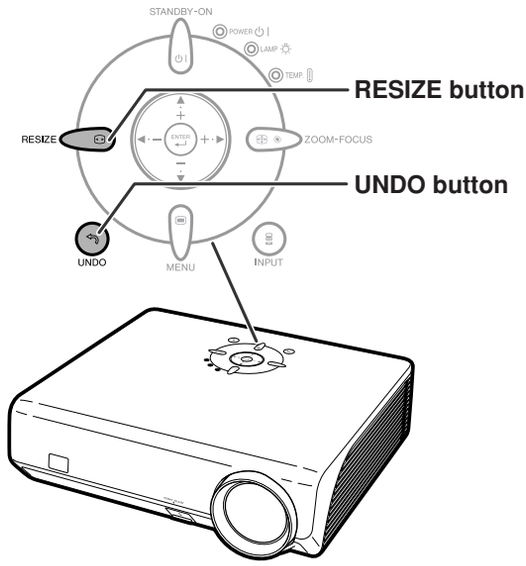
This function controls the quantity of the projected light and the contrast of the image.

Press IRIS on the remote control.

- Each time the button is pressed while the display is on, the mode is switched between "HIGH BRIGHTNESS MODE" and "HIGH CONTRAST MODE".

Note

- This function can also be accessed from the OSD menu (see page **44**).

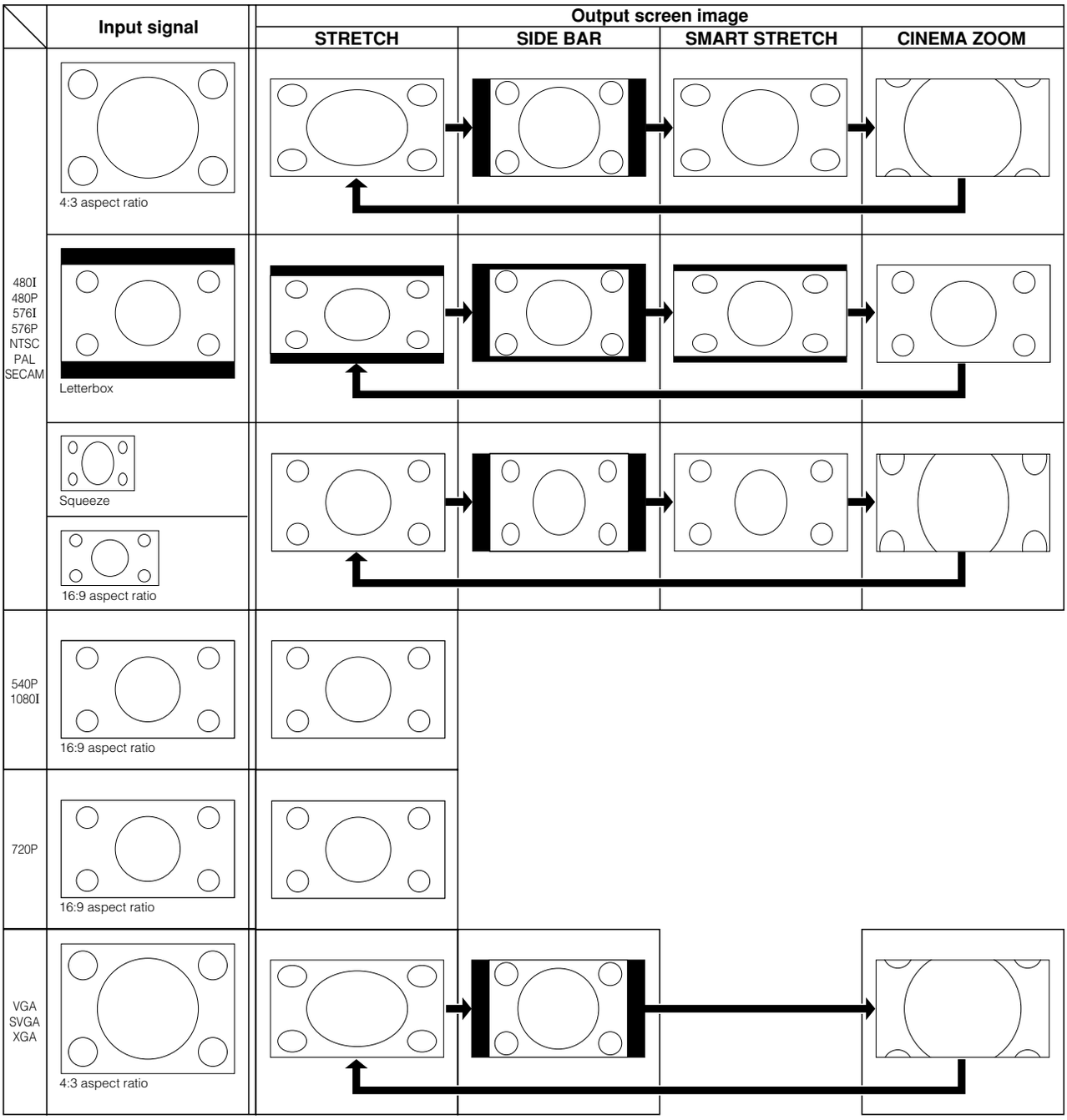


Adjusting the Picture Aspect Ratio

This function allows you to modify or customize the picture display mode to enhance the input image. Depending on the input signal, you can choose STRETCH, SIDE BAR, SMART STRETCH or CINEMA ZOOM image.

Press RESIZE on the remote control.

- Each time RESIZE is pressed, the picture mode changes as shown on the next page.
- To return to the standard image ("STRETCH"), press UNDO while "RESIZE" is displayed on the screen.
- You can also change the picture display mode by pressing RESIZE on the projector.



Note

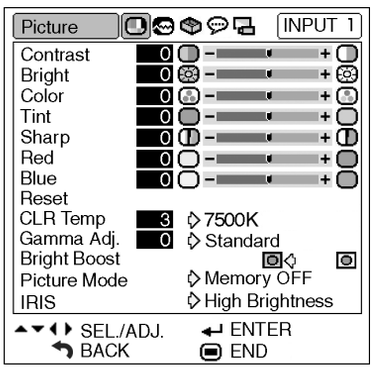
- "SMART STRETCH" cannot be selected while the Keystone correction (page **32**) is being adjusted.
- Keystone correction (page **32**) is disabled while the picture mode is set to "SMART STRETCH".
- 580I/580P is displayed on the screen when signal 576I/576P is input.
- "STRETCH" is fixed when 540P, 720P or 1080I signal is entered.
- "SMART STRETCH" cannot be selected while input signal from a computer (VGA, SVGA or XGA) is entered.

Menu Items

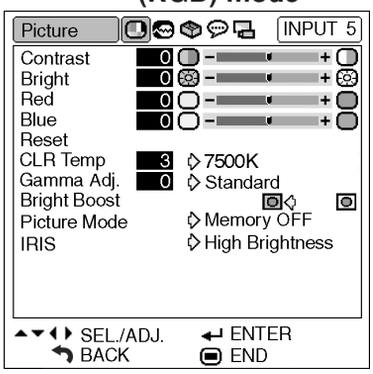
The following shows the items that can be set in the projector.

"Picture" menu

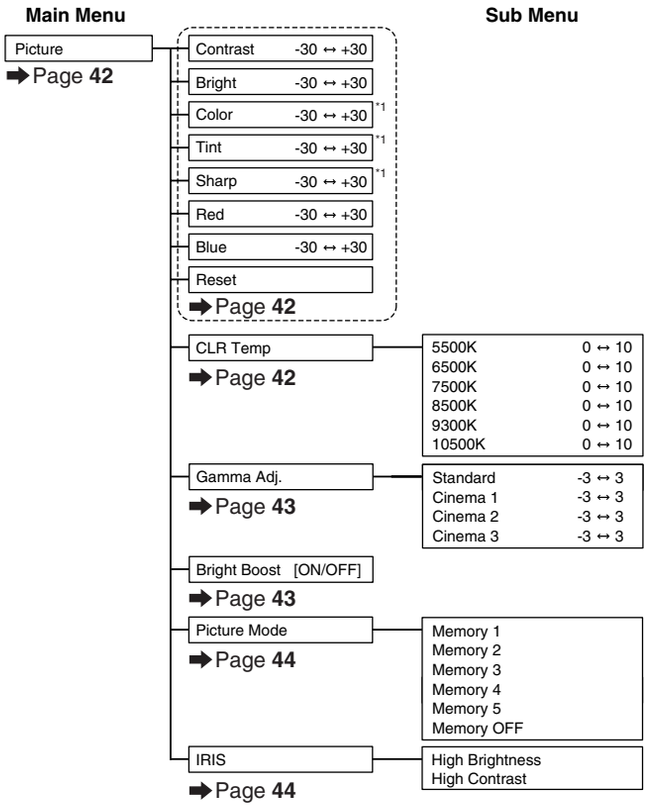
Example: Screen for INPUT 1 mode



Example: Screen for INPUT 5 (RGB) mode



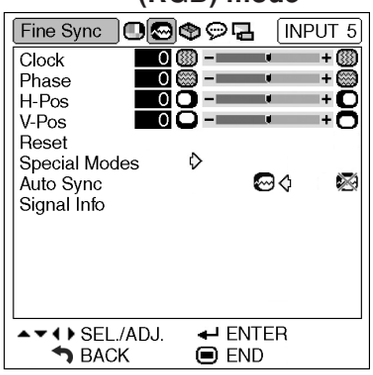
Main Menu **Sub Menu**



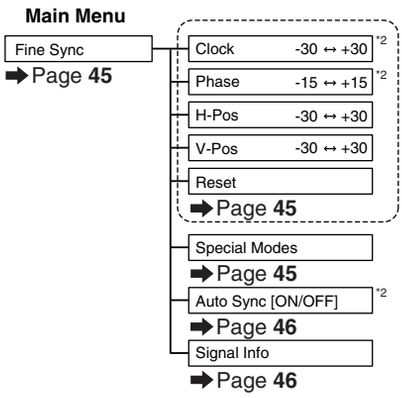
*1: Items when selecting INPUT 1, 2, 3, 4 or when inputting component signal through INPUT 5

"Fine Sync" menu

Example: Screen for INPUT 5 (RGB) mode



Main Menu



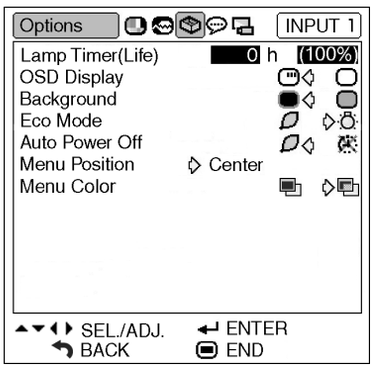
*2: Item when inputting RGB signal through INPUT 5

Note

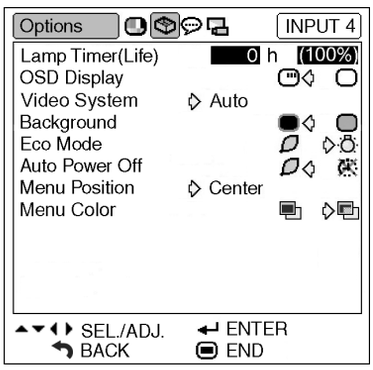
- "Tint" cannot be used with PAL, SECAM, PAL-M, PAL-N or PAL-60.
- "Color", "Tint", "Sharp", "Clock", "Phase", "H-Pos", "V-Pos" and "Auto Sync" cannot be used in the DIGITAL mode.
- "Fine Sync" menu cannot be displayed in the INPUT 3 and INPUT 4 modes.

“Options” menu

Example: Screen for INPUT 1 mode



Example: Screen for INPUT 4 mode



Main Menu **Sub Menu**

- Options ➡ Page **47**
  - Lamp Timer (Life) ➡ Page **47**
  - OSD Display [ON/OFF] ➡ Page **47**
  - Video System ➡ Page **48** *1
    - Auto
    - PAL
    - NTSC3.58
    - SECAM
    - NTSC4.43
    - PAL-M
    - PAL-N
    - PAL-60
  - Signal Type ➡ Page **48** *2
    - RGB
    - Component
  - Background [Blue/None] ➡ Page **49**
  - Eco Mode [Eco/Standard] ➡ Page **49**
  - Auto Power Off [ON/OFF] ➡ Page **50**
  - Menu Position ➡ Page **50**
    - Center
    - Upper Right
    - Lower Right
    - Upper Left
    - Lower Left
  - Menu Color [Opaque/Translucent] ➡ Page **51**

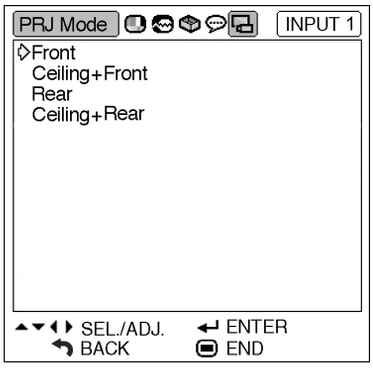
*1: Item when selecting INPUT 3 or INPUT 4
*2: Item when selecting INPUT 5

“Language” menu

Main Menu

- Language ➡ Page **52**
  - English
  - Deutsch
  - Español
  - Nederlands
  - Français
  - Italiano
  - Svenska
  - Português
  - 汉语
  - 한국어
  - 日本語

“PRJ Mode” menu

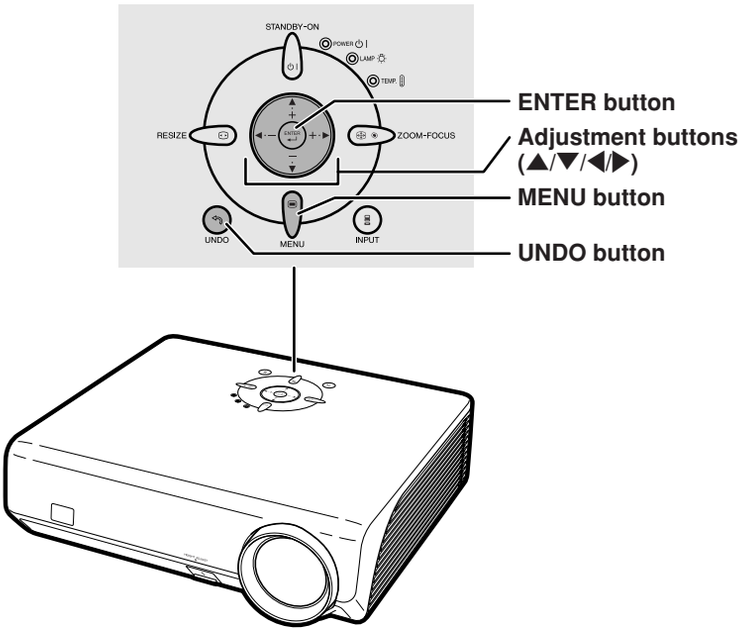


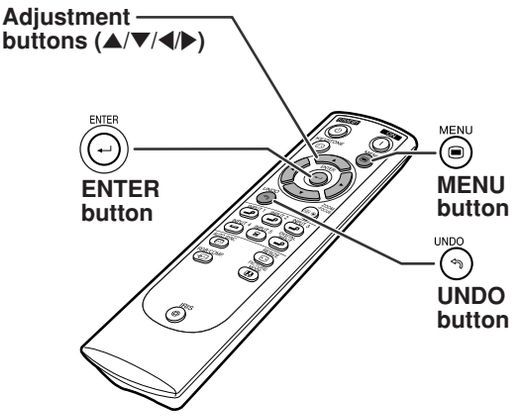
Main Menu

- PRJ Mode ➡ Page **52**
  - Front
  - Ceiling+Front
  - Rear
  - Ceiling+Rear

Using the Menu Screen

The menu can be operated to achieve two functions, adjustments and settings. (For setting the menu items, see pages 40 and 41.)





Menu Selections (Adjustments)

• This operation can also be performed by using the buttons on the projector.

1 **Press MENU.**

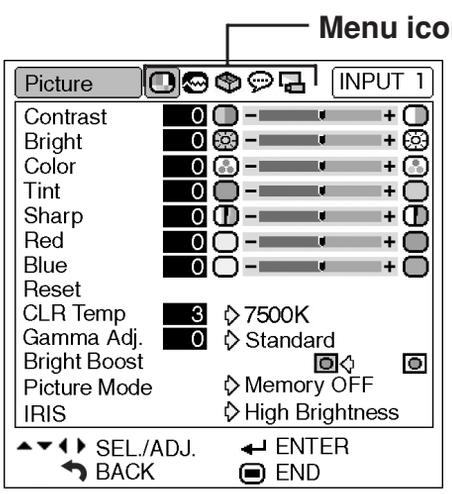
• The “Picture” menu screen for the selected input mode is displayed.

2 **Press ▶ or ◀ to display the other menu screens.**

• The menu icon for the selected menu screen is highlighted.

Menu icon	Menu screen
	Picture
	Fine Sync
	Options
	Language
	PRJ Mode

Example: “Picture” menu screen for INPUT 1 mode



Note

• The “Fine Sync” menu is not available for selecting INPUT 3 or 4.

3 Press ▲ or ▼ to select the item you want to adjust.

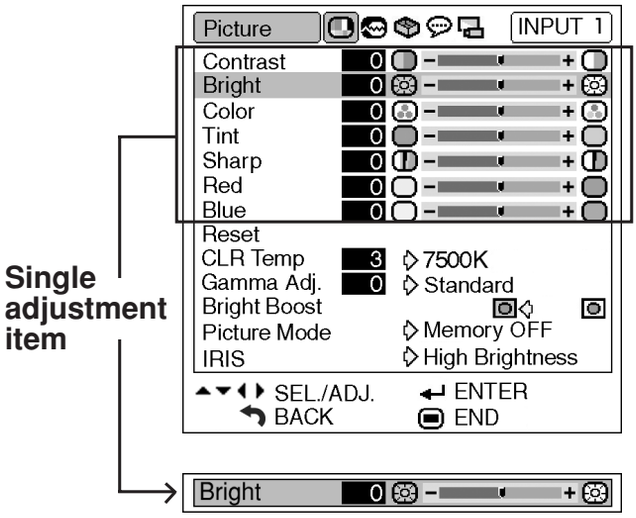
- The selected item is highlighted. (Example: Selecting “Bright”)

To adjust the projected image while viewing it

Press ENTER.

- The selected single adjustment item (e.g. “Bright”) appears on the lower part of the screen.
- When pressing ▲ or ▼, the next item will be displayed. (e.g. “Bright” is replaced with “Color” by pressing ▼.)

Single adjustment item

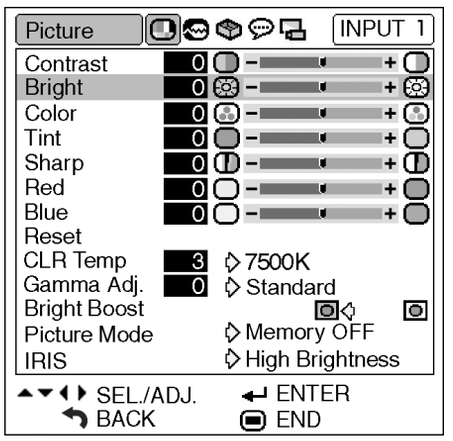


Note

- Press UNDO to return to the previous screen.

4 Press ▶ or ◀ to adjust the item selected.

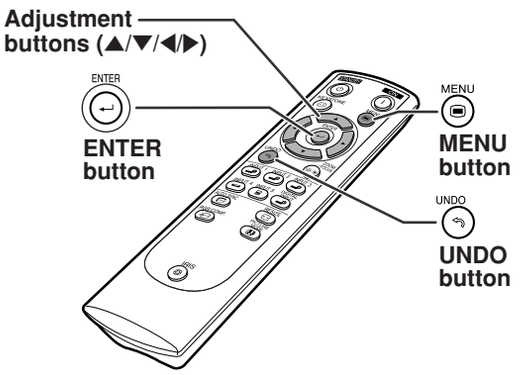
- The adjustment is stored.



5 Press MENU.

- The menu screen will disappear.

The menu can be operated to achieve two functions, adjustments and settings. The "setting" item is displayed by ◁ or ▷ on the menu screen. (For adjusting the menu items, see pages 38 and 39.)



Menu Selections (Settings)

• This operation can also be performed by using the buttons on the projector.

1 Press MENU.

• The "Picture" menu screen for the selected input mode is displayed.

2 Press ▶ or ◀ to display the other menu screens.

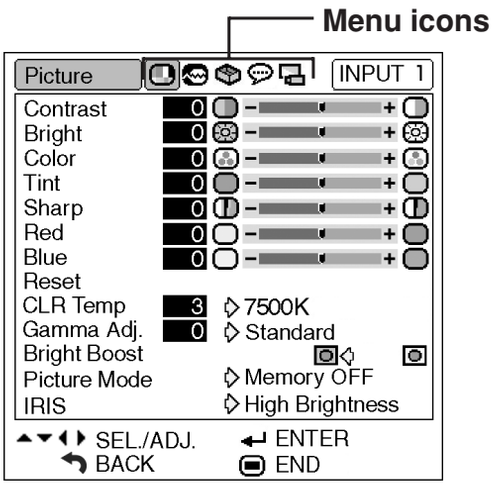
• The menu icon for the selected menu screen is highlighted.

Menu icon	Menu screen
	Picture
	Fine Sync
	Options
	Language
	PRJ Mode

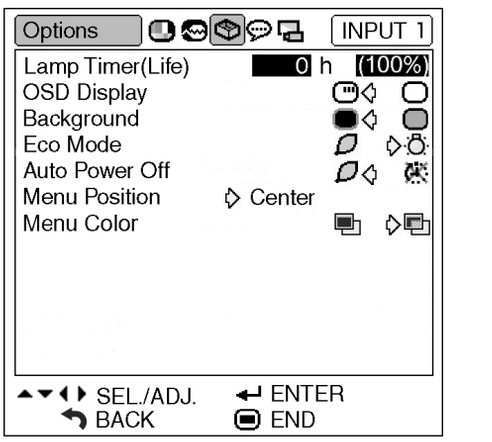
Note

• The "Fine Sync" menu is not available for selecting INPUT 3 or 4.

Example: "Picture" menu screen for INPUT 1 mode

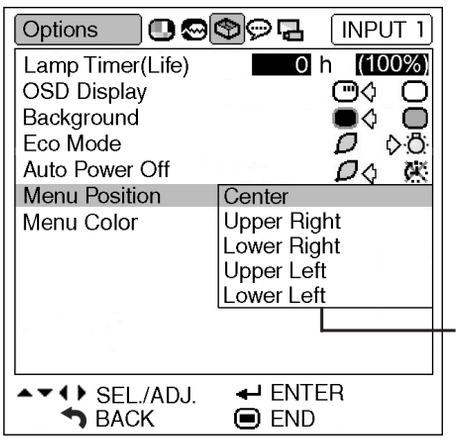


Example: "Options" menu screen



3 **Press ▲ or ▼ to select the item you want to set, and then press ▶ to display the sub menu.**

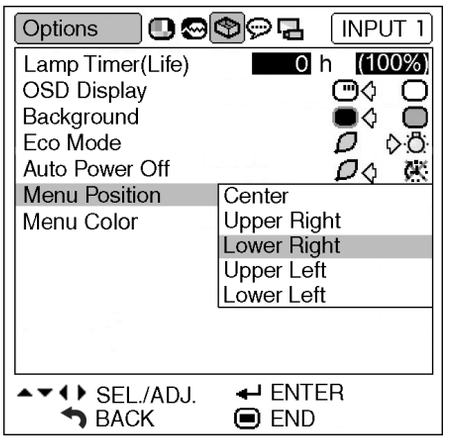
- The selected item is highlighted.
  (Example: Selecting “Menu Position”)



Sub menu

> **Note**
>
> - Press UNDO or ◀ to return to the previous screen.
> - For some items, press ◀ or ▶ to select the icon using “⇨”.

4 **Press ▲ or ▼ to select the setting of the item displayed in the sub menu.**



5 **Press ENTER.**

- The selected item is set.

6 **Press MENU.**

- The menu screen will disappear.

Picture Adjustment (“Picture” menu)

You can adjust the projector’s picture to your preferences using the “Picture” menu.

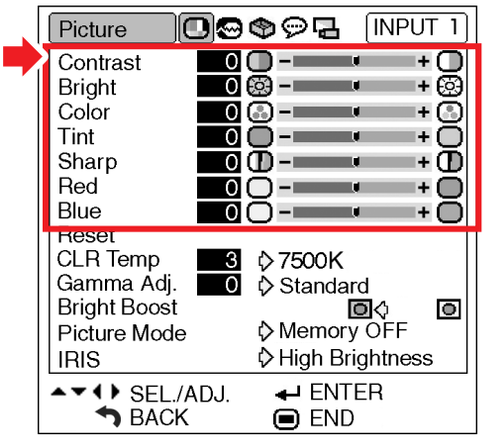
Adjusting the Image

Menu operation ➡ Page 38

Note

- First select “Memory 1-5” or “Memory OFF” when you want to save the “Picture” menu settings. See page **44** for details.

Example: “Picture” menu screen for INPUT 1 mode



Description of Adjustment Items

Selectable items	Press ◀	Press ▶
Contrast	For less contrast	For more contrast
Bright	For less brightness	For more brightness
Color	For less color intensity	For more color intensity
Tint	For making skin tones purplish	For making skin tones greenish
Sharp	For less sharpness	For more sharpness
Red	For weaker red	For stronger red
Blue	For weaker blue	For stronger blue

Note

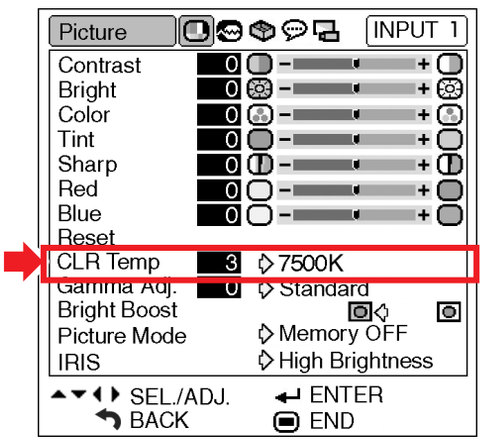
- “Color”, “Tint” and “Sharp” do not appear for RGB input in INPUT 5 mode.
- To reset all adjustment items, select “Reset” on the “Picture” menu screen and press ENTER.
- “Tint” cannot be used with PAL, SECAM, PAL-M, PAL-N or PAL-60.
- “Color”, “Tint” and “Sharp” cannot be used in the DIGITAL mode.

Adjusting the Color Temperature

This function allows for selecting the desired color temperature. With the lower value selected, the projected image becomes warmer, reddish and incandescent-like while with the higher value, the image becomes cooler, bluish and fluorescent-like.

Menu operation ➡ Page 40

Example: “Picture” menu screen for INPUT 1 mode



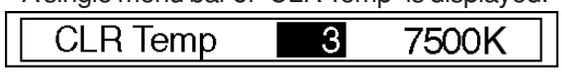
Description of Color Temperature Settings

CLR Temp	Description
5500K	The less the value is set to, the warmer, reddish, incandescent-like the image becomes.
6500K	
7500K	
8500K	
9300K	The more the value is set to, the cooler, bluish, fluorescent-like the image becomes.
10500K	

“CLR Temp” is fine adjusted by following the procedure below.

1 Select “CLR Temp” in the “Picture” menu on the menu screen and press ENTER.

- A single menu bar of “CLR Temp” is displayed.



2 Press ▲ or ▼ to fine adjust the color temperature.

- With the lower value selected, the projected image becomes magenta-tinged. With the higher value selected, the projected image becomes green-tinged.
- Pressing ◀ or ▶ changes the value of the color temperature in the sub menu.

Note

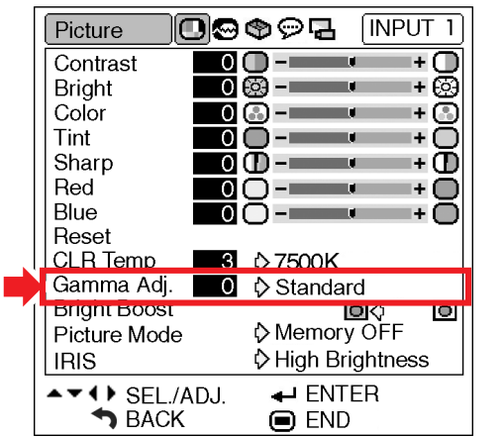
- Values on “CLR Temp” are only for general standard purposes.

Gamma Correction Function

Gamma is an image quality enhancement function. Four gamma settings are available to allow for differences in the brightness of the room.

Menu operation ➡ Page 40

Example: "Picture" menu screen for INPUT 1 mode



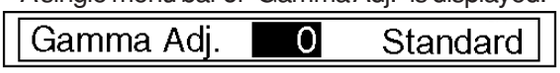
Description of Gamma Modes

Selectable Items	Description
Standard	Standard picture without gamma correction
Cinema 1	Gives greater depth to darker portions of images.
Cinema 2	Brightness is toned down and the image becomes more balanced.
Cinema 3	Brighten the darker portions of images for easier viewing in a dimly lit room.

"Gamma Adj." is fine adjusted by following the procedure below.

1 Select "Gamma Adj." in the "Picture" menu on the menu screen and press ENTER.

- A single menu bar of "Gamma Adj." is displayed.



2 Press ▲ or ▼ to fine adjust the gamma correction.

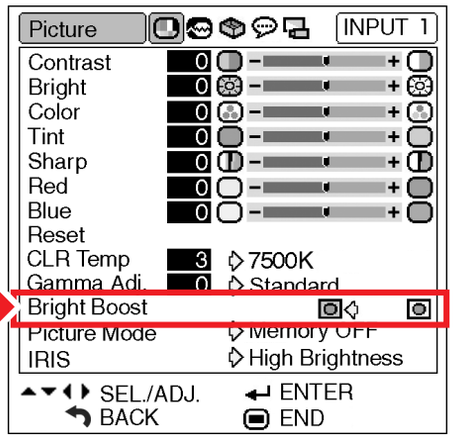
- With the lower value selected, the projected image becomes darker. With the higher value selected, the projected image becomes brighter.
- Pressing ◀ or ▶ changes the value of the Gamma in the sub menu.

Emphasizing the Contrast

This function emphasizes the bright portions of images to obtain a higher contrast image.

Menu operation ➡ Page 40

Example: "Picture" menu screen for INPUT 1 mode



Description of Bright Boost settings

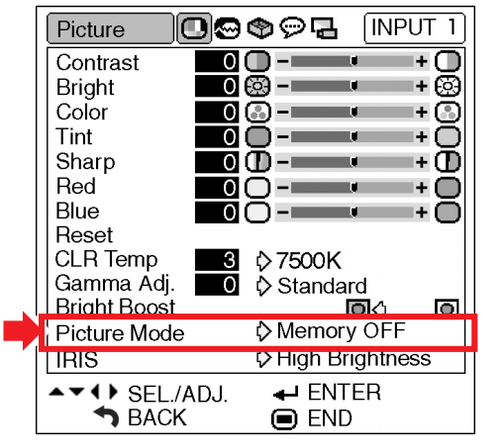
Selectable Items	Description
(ON)	For emphasizing the bright portions of images
(OFF)	For disabling "Bright Boost"

Picture Mode Function

This function stores all items set in “Picture”. Five settings can be stored separately in “Memory 1” to “Memory 5”. Each stored setting is reassigned to each input mode (INPUT 1 to INPUT 5). Even when the input mode or signal is changed, you can easily select optimal settings from the stored settings.

Menu operation ➡ Page 40

Example: “Picture” menu screen for INPUT 1 mode



Select “Picture Mode” on the “Picture” menu and the memory location where you want to store the settings. Then adjust the setting items on the “Picture” menu.

Picture Mode	Description
Memory 1-5	Settings of all items in “Picture” can be stored for the respective input modes. The stored settings (Memory 1 to 5) can be selected in any input modes.
Memory OFF	Besides “Memory 1” to “Memory 5”, other settings on the “Picture” menu can be stored for each input mode. The settings stored in “Memory OFF” cannot be applied when another input mode is selected.

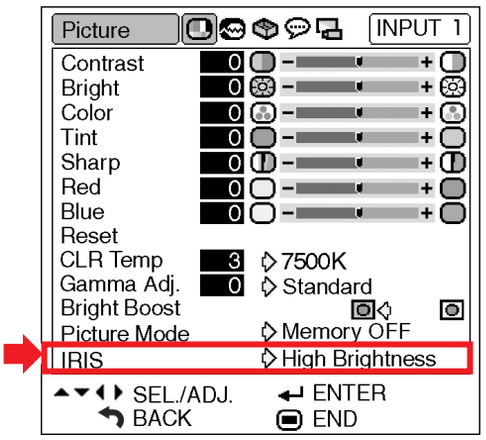
If you want to apply the stored settings on the “Picture” menu, select input mode and then press PICTURE MODE, or select “Picture Mode” in the “Picture” menu. If you want to change the stored settings, select the memory location for those settings and make settings on the “Picture” menu.

Switching the High Brightness/High Contrast Mode

This function changes the brightness and contrast of the projected image. It can be operated using the IRIS button on the remote control.

Menu operation ➡ Page 40

Example: “Picture” menu screen for INPUT 1 mode



Description of IRIS Settings

Selectable items	Description
High Brightness	High brightness is given priority over high contrast.
High Contrast	High contrast is given priority over high brightness.

Computer Image Adjustment (“Fine Sync” menu)

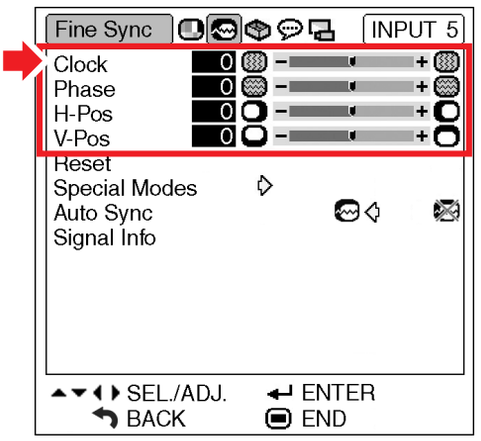
You can adjust the computer image, match the computer display mode, and confirm the input signal using the “Fine Sync” menu.

Adjusting the Computer Image

Use the Fine Sync function in case of irregularities such as vertical stripes or flickering in portions of the screen.

Menu operation ➡ Page 38

Example: “Fine Sync” menu screen for INPUT 5 (RGB) mode



Description of Adjustment Items

Selectable items	Description
Clock	Adjusts vertical noise.
Phase	Adjusts horizontal noise (similar to tracking on your VCR).
H-Pos	Centers the on-screen image by moving it to the left or right.
V-Pos	Centers the on-screen image by moving it up or down.

Note

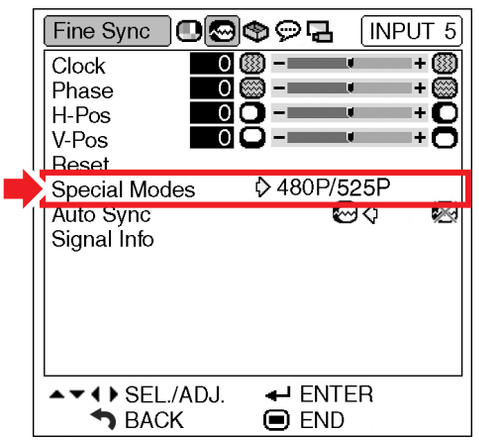
- You can automatically adjust the computer image by setting “Auto Sync” on the “Fine Sync” menu to “” (ON) or pressing AUTO SYNC on the remote control. See page **46**.
- “Clock”, “Phase”, “H-Pos” and “V-Pos” cannot be used in the DIGITAL mode.
- “Clock” and “Phase” cannot be used in the Component mode.
- The adjustable area of each item may be changed according to the input signal.
- To reset all adjustment items, select “Reset” and press ENTER.

Special Modes Setting

Ordinarily, the type of input signal is detected and the correct resolution mode is automatically selected. However, for some signals, the optimal resolution mode in “Special Modes” on the “Fine Sync” menu may need to be selected to match the computer display mode.

Menu operation ➡ Page 40

Example: “Fine Sync” menu screen for INPUT 5 (Component) mode



Note

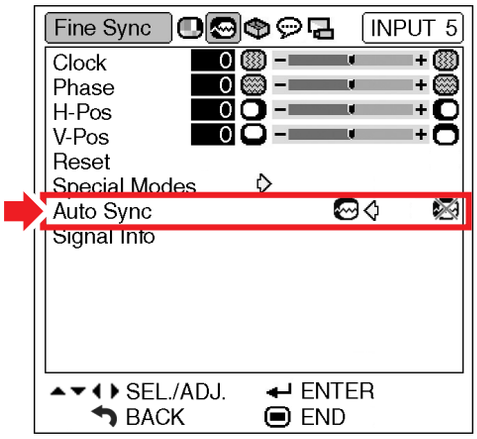
- If your computer displays patterns which repeat every other line (horizontal stripes), flickering may occur which makes the image hard to see.
- When inputting DTV 1080I signal, select the corresponding type of signal.
- See “Checking the Input Signal” on the next page for information on the currently selected input signal.

Auto Sync Adjustment

Select whether the image is to be synchronized automatically when switching the signal with “ON” or “OFF”.

Menu operation ➡ Page 40

Example: “Fine Sync” menu screen for INPUT 5 (RGB) mode



Description of Auto Sync Adjustment

Selectable items	Description
(ON)	Auto Sync adjustment will occur when the projector is turned on or when the input signals are switched, when connected to a computer.
(OFF)	Auto Sync adjustment is not automatically performed.

Note

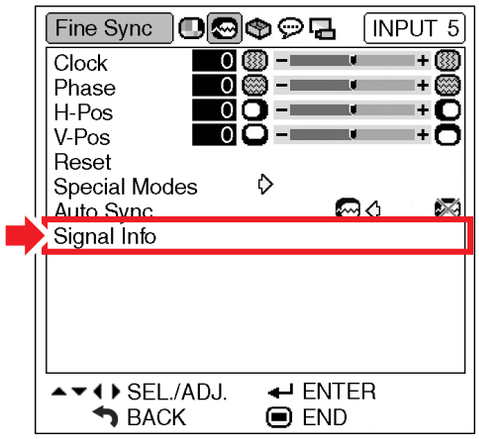
- Auto Sync adjustment is also performed by pressing AUTO SYNC on the remote control.
- The Auto Sync adjustment may take some time to complete, depending on the image of the computer connected to the projector.
- When the optimum image cannot be achieved with Auto Sync adjustment, use manual adjustments. (See page **45**.)
- “Auto Sync” cannot be used in the DIGITAL mode.

Checking the Input Signal

This function allows you to check the current input signal information.

Menu operation ➡ Page 40

Example: “Fine Sync” menu screen for INPUT 5 (RGB) mode



Using the “Options” Menu

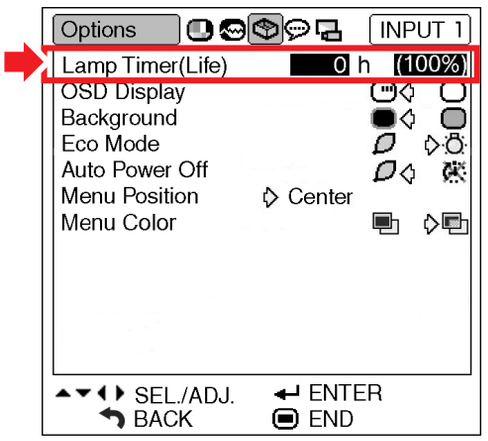
You can use the “Options” menu to enhance the usage for the projector.

Checking the Lamp Life Status

You can confirm the cumulative lamp usage time and the remaining lamp life (percentage).

Menu operation ➡ Page 40

Example: “Options” menu screen for INPUT 1 mode



Description of Lamp Life

Lamp usage condition “Life”	Remaining lamp life 100%	5%
Operated exclusively in Eco mode ( )	Approx. 3,000 hours	Approx. 150 hours
Operated exclusively in Standard mode ( )	Approx. 2,000 hours	Approx. 100 hours

Note

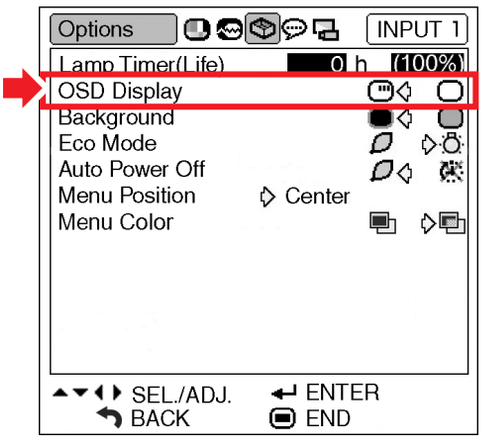
- It is recommended that the lamp be changed when the remaining lamp life becomes 5%. (See page **56**.)
- The table above indicates rough estimates in the case of using only in each mode shown.
- Remaining lamp life changes within the range of the values shown depending on the frequency at which “Eco Mode” is switched to “ ” (Eco mode) and “ ” (Standard mode). (See page **49**.)
- The lamp life may vary depending on the usage condition.

Setting On-screen Display

This function allows you to turn off the on-screen messages that appear during input select.

Menu operation ➡ Page 40

Example: “Options” menu screen for INPUT 1 mode



Description of “OSD Display” Settings

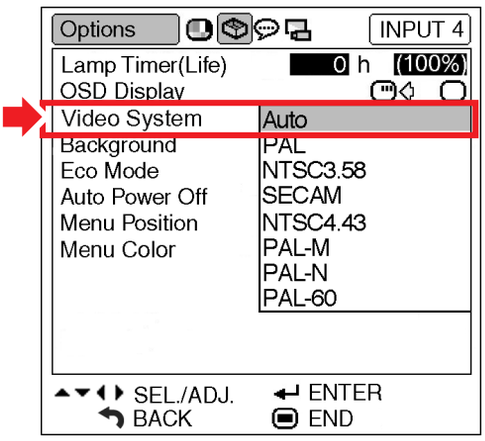
Selectable items	Description
(ON)	All On-screen Displays are displayed.
(OFF)	INPUT/AUTO SYNC/ “An invalid button has been pressed.” are not displayed.

Setting the Video System

The video input system mode is factory preset to “Auto”; however, a clear picture from the connected audio-visual equipment may not be received, depending on the video signal difference. In that case, switch the video signal.

Menu operation ➡ Page 40

Example: “Options” menu screen for INPUT 4 mode



Description of Video Systems

Selectable items	Description
PAL	When connected to PAL video equipment.
NTSC3.58	When connected to NTSC video equipment.
SECAM	When connected to SECAM video equipment.
NTSC4.43	When reproducing NTSC signals in PAL video equipment.

Note

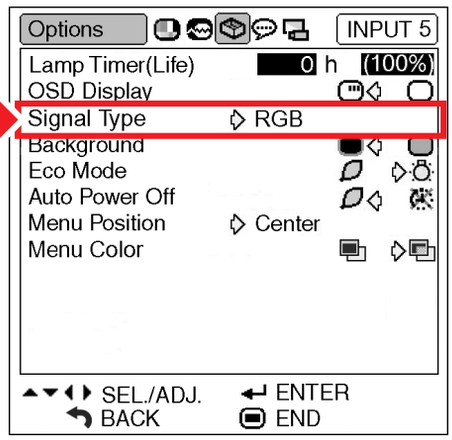
- The video signal can only be set in INPUT 3, INPUT 4 mode.
- “Auto” cannot be set for PAL-M and PAL-N input signals. Select “PAL-M” or “PAL-N” in “Video System” menu for PAL-M and PAL-N input signals.

Signal Type Setting

This function allows you to select the input signal type RGB or Component for INPUT 5.

Menu operation ➡ Page 40

Example: “Options” menu screen for INPUT 5 (RGB) mode



Description of Signal Type Settings

Selectable items	Description
RGB	Set when RGB signals are received.
Component	Set when Component signals are received.

Note

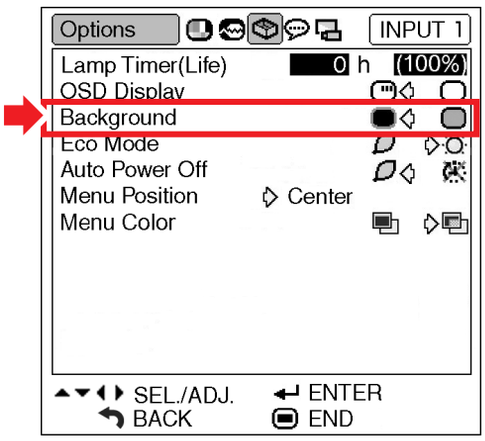
- You can also select “Signal Type” using RGB/COMP. on the remote control (only INPUT 5).

Selecting a Background Image

This function allows you to select the image displayed when no signal is being sent to the projector.

Menu operation ➡ Page 40

Example: "Options" menu screen for INPUT 1 mode



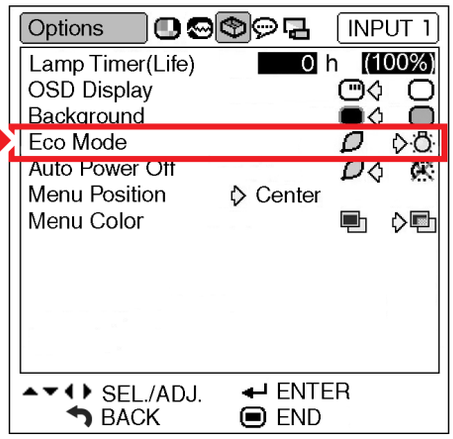
Description of Background Images

Selectable items	Description
(Blue)	Blue screen
(None)	Black screen

Eco Mode

Menu operation ➡ Page 40

Example: "Options" menu screen for INPUT 1 mode



Description of Eco Mode

Selectable items	Brightness	Power consumption (When using AC 100V)	Lamp life
(Eco mode)	85%	315 W	Approx. 3,000 hours
(Standard mode)	100%	360 W	Approx. 2,000 hours

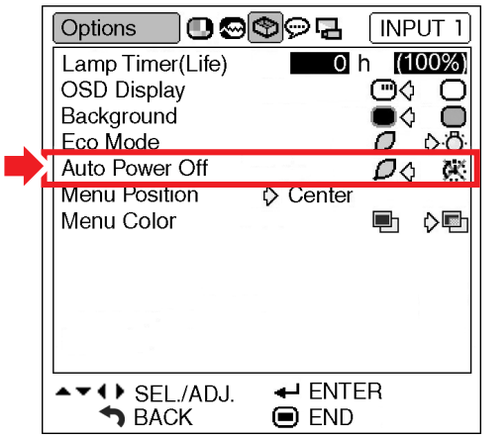
Note

- When "Eco Mode" is set to "" (Eco mode), the power consumption will decrease and the lamp life will extend. (Projection brightness decreases 15%.)

Auto Power Off Function

Menu operation ➡ Page 40

Example: “Options” menu screen for INPUT 1 mode



Description of Auto Power Off

Selectable items	Description
(ON)	The projector automatically enters the standby mode when no input signal is detected for 15 minutes or longer.
(OFF)	The Auto Power Off function will be disabled.

Note

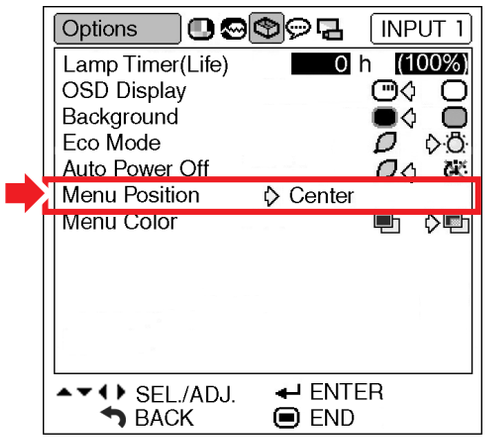
- When the Auto Power Off function is set to “ ” (ON), 5 minutes before the projector enters the standby mode, the message “Enter STANDBY mode in X min.” will appear on the screen to indicate the remaining minutes.

Selecting the Menu Screen Position

This function allows you to select the desired position of the menu screen.

Menu operation ➡ Page 40

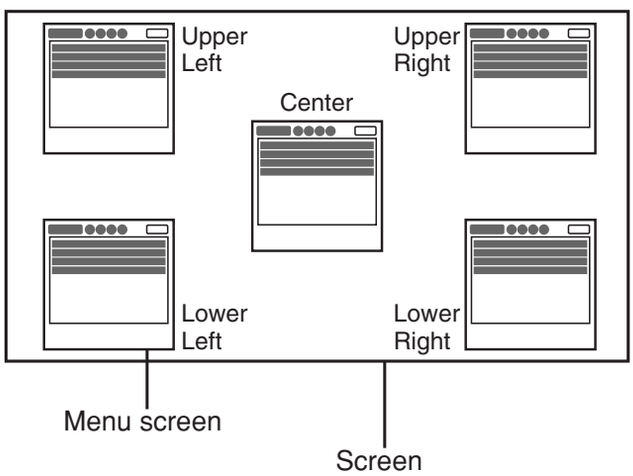
Example: “Options” menu screen for INPUT 1 mode



Description of Menu Positions

Selectable items	Description
Center	Displayed on the center of the image.
Upper Right	Displayed on the upper right of the image.
Lower Right	Displayed on the lower right of the image.
Upper Left	Displayed on the upper left of the image.
Lower Left	Displayed on the lower left of the image.

Position of the Menu Screen which Is Displayed on the Screen

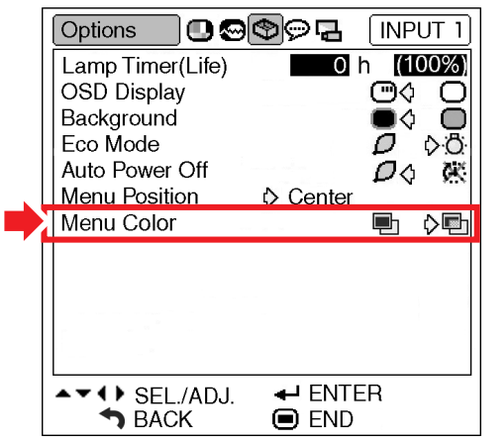


Selecting the Menu Color

This function allows you to select the color of the menu screen.

Menu operation ➡ Page 40

Example: “Options” menu screen for INPUT 1 mode



Description of Menu Colors

Selectable Items	Description
(Opaque)	The menu is displayed opaquely.
(Translucent)	The menu is displayed translucently. The part of the menu on the image becomes transparent.

Selecting the On-screen Display Language and the Projection Mode

Selecting the On-screen Display Language

The projector can switch the on-screen display language among 11 languages: English, German, Spanish, Dutch, French, Italian, Swedish, Portuguese, Chinese, Korean or Japanese.

Example: "Language" menu screen for INPUT 1 mode

1 Press MENU on the remote control.

- The "Picture" menu will be displayed.

2 Press ◀ or ▶ to select the "Language" menu icon (💬).

- The "Language" menu will be displayed.

3 Press ▲ or ▼ to select the desired language, and then press ENTER.

- The language you selected will be set as the on-screen display.

4 Press MENU.

- The "Language" menu will disappear.

Note

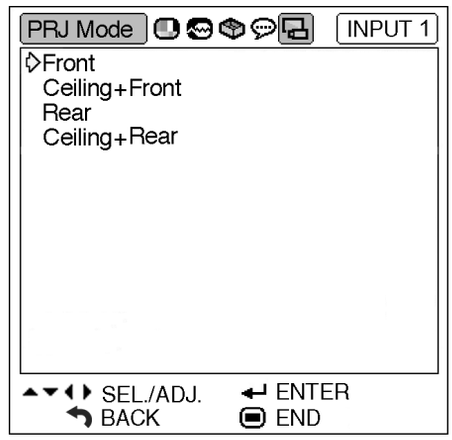
- This procedure can also be performed by using the buttons on the projector.

Setting the Projection Mode

This projector is equipped with a reverse/invert image function that allows you to reverse or invert the projected image for various applications.

Menu operation ➡ Page 40

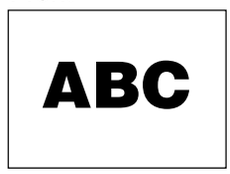
Example: "PRJ Mode" menu screen



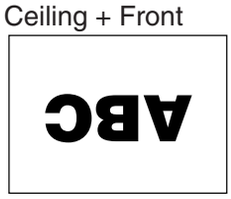
Description of PRJ Modes

Selectable items	Description
Front	Normal image
Ceiling + Front	Inverted image
Rear	Reversed image
Ceiling + Rear	Reversed and inverted image

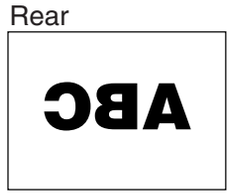
Front



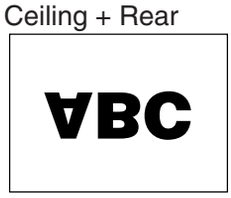
Ceiling + Front



Rear



Ceiling + Rear



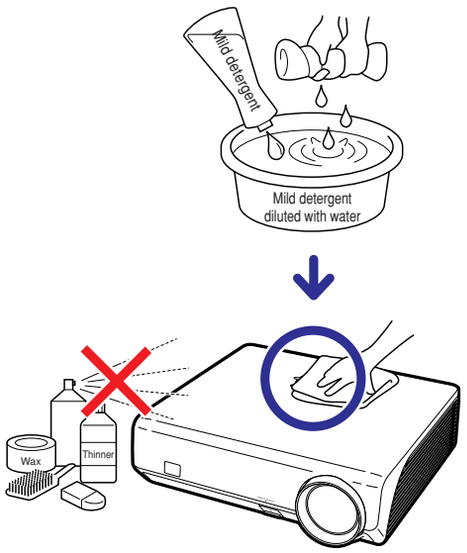
Note

- This function is used for the reversed image and ceiling-mount setups. (See page **18**.)

Maintenance

Cleaning the projector

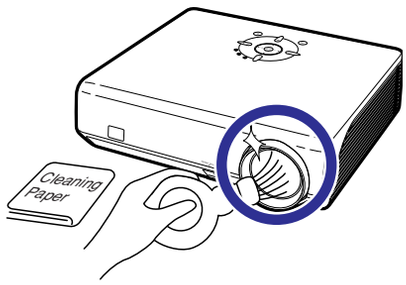
- Ensure that you have unplugged the power cord before cleaning the projector.
- The cabinet as well as the operation panel is made of plastic. Avoid using benzene or thinner, as these can damage the finish on the cabinet.
- Do not use volatile agents such as insecticides on the projector.
  Do not attach rubber or plastic items to the projector for long periods.
  The effects of some of the agents in the plastic may cause damage to the quality or finish of the projector.



- Wipe off dirt gently with a soft flannel cloth.
- When the dirt is hard to remove, soak a cloth in a mild detergent diluted with water, wring the cloth well and then wipe the projector.
  Strong cleaning detergents may discolor, warp or damage the coating on the projector. Make sure to test on a small, inconspicuous area on the projector before use.

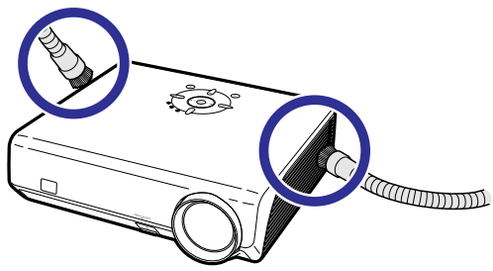
Cleaning the lens

- Use a commercially available blower or lens cleaning paper (for glasses and camera lenses) for cleaning the lens. Do not use any liquid type cleaning agents, as they may wear off the coating film on the surface of the lens.
- As the surface of the lens can easily get damaged, be sure not to scrape or hit the lens.



Cleaning the exhaust and intake vents

- Use a vacuum cleaner to clean dust from the exhaust vent and the intake vent.

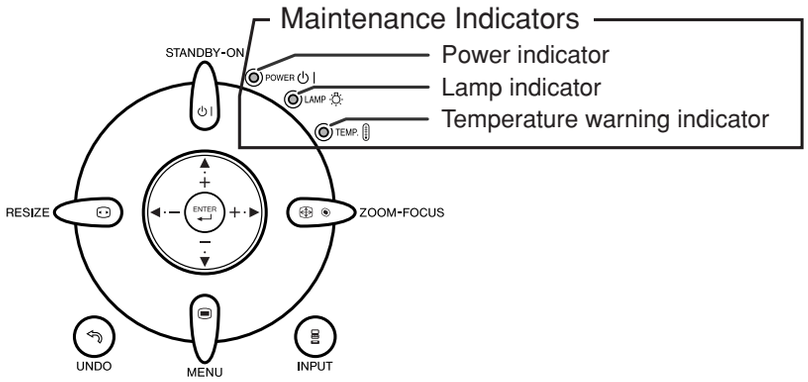


Info

- If you want to clean the air vents during projector operation, press STANDBY-ON on the projector or STANDBY on the remote control and put the projector into standby mode. After the cooling fan has stopped, unplug the power cord from the AC socket and clean the vents.

Maintenance Indicators

- **The warning lights on the projector indicate problems inside the projector.**
- **If a problem occurs, either the temperature indicator or the lamp indicator will illuminate red, and the projector will enter the standby mode. After the projector has entered the standby mode, follow the procedures given below.**



About the temperature warning indicator

If the temperature inside the projector increases, due to blockage of the air vents, or the setting location, "TEMP." will illuminate in the lower left corner of the picture. If the temperature keeps on rising, the lamp will turn off and the temperature warning indicator will blink, the cooling fan will run for a further 90 seconds, and then the projector will enter the standby mode. After "TEMP." appears, be sure to perform the measures described on page **55**.

About the lamp indicator

- When the remaining lamp life becomes 5% or less, "" (yellow) and "Change The Lamp." will be displayed on the screen. When the percentage becomes 0%, it will change to "" (red), the lamp will automatically turn off and then the projector will automatically enter the standby mode. At this time, the lamp indicator will illuminate in red.
- **If you try to turn on the projector a fourth time without replacing the lamp, the projector will not turn on.**

Maintenance indicator			Problem	Cause	Possible solution
	Normal	Abnormal			
Temperature warning indicator	Off	Red on (Standby)	The internal temperature is abnormally high.	• Blocked air intake	• Relocate the projector to an area with proper ventilation. (See page **7**.)
				• Cooling fan break-down • Internal circuit failure • Clogged air intake	• Take the projector to your nearest EIKI Authorized Dealer or Service Center for repair. • Clean the exhaust and intake vents. (See page **53**.)
Lamp indicator	Green on (Green blinks when the lamp is warming up or shutting down.)	Red on	The lamp does not illuminate.	—	• Disconnect the power cord from the AC outlet, and then connect it again.
			Time to change the lamp.	• Remaining lamp life becomes 5% or less.	• Carefully replace the lamp. (See page **57**.) • Take the projector to your nearest EIKI Authorized Dealer or Service Center for repair. • Please exercise care when replacing the lamp.
		Red on (Standby)	The lamp does not illuminate.	• Burnt-out lamp • Lamp circuit failure	

Info

- If the temperature warning indicator illuminates and the projector enters the standby mode, check whether any of the ventilation holes are blocked (page **7**) and then try turning the power back on. Wait until the projector has cooled down completely before plugging in the power cord and turning the power back on. (At least 10 minutes.)
- If the power is turned off for a brief moment due to power outage or some other cause while using the projector, and the power supply recovers immediately after that, the lamp indicator will illuminate in red and the lamp may not be lit. In this case, unplug the power cord from the AC outlet, replace the power cord in the AC outlet and then turn the power on again.
- Do not unplug the power cord after the projector has entered the standby mode and while the cooling fan is running. The cooling fan runs for about 90 seconds.

Regarding the Lamp

Lamp

- **It is recommended that the lamp (optional: AH-57201) be replaced when the remaining lamp life becomes 5% or less, or when you notice a significant deterioration in the picture and color quality. The lamp life (percentage) can be checked with the on-screen display. See page 47.**
- **Purchase a replacement lamp of type AH-57201 from your place of purchase, nearest EIKI Authorized Dealer or Service Center.**

Caution Concerning the Lamp

- **This projector utilizes a pressurized mercury lamp. A loud sound may indicate lamp failure. Lamp failure can be attributed to numerous sources such as: excessive shock, improper cooling, surface scratches or deterioration of the lamp due to a lapse of usage time.**
  The period of time up to failure largely varies depending on the individual lamp and/or the condition and the frequency of use. It is important to note that failure can often result in the bulb cracking.
- **When the lamp replacement indicator and on-screen display icon are illuminated, it is recommended that the lamp be replaced with a new one immediately, even if the lamp appears to be operating normally.**
- **Should the lamp break, the glass particles may spread inside the lamp cage or gas contained in the lamp may be vented into the room from the exhaust vent. Because the gas in this lamp includes mercury, ventilate the room well if the lamp breaks and avoid all exposure to the released gas. In case of exposure to the gas, consult a doctor as soon as possible.**
- **Should the lamp break, there is also a possibility that glass particles may spread inside of the projector. In such a case, it is recommended you contact your nearest EIKI Authorized Dealer or Service Center to assure safe operation.**

Replacing the Lamp

Caution

- Do not remove the lamp unit from the projector right after use. The lamp will be very hot and may cause burn or injury.
- Wait at least **one hour** after the power cord is disconnected to allow the surface of the lamp unit to fully cool before removing the lamp unit.

- **Carefully change the lamp by following the instructions described in this section. *If you wish, you may have the lamp replaced at your nearest EIKI Authorized Dealer or Service Center.**

* If the new lamp does not light after replacement, take your projector to the nearest EIKI Authorized Dealer or Service Center for repair.

Removing and Installing the Lamp Unit

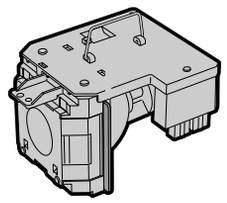
⚠Warning!

- During projector operation, the lamp unit is very hot. Do not remove the lamp unit from the projector right after use. The lamp and parts around the lamp will be very hot and may cause burn or injury.

Info

- Make sure that you remove the lamp unit by the handle. Do not touch the glass surface of the lamp unit or the inside of the projector.
- To avoid injury to yourself and damage to the lamp, be sure to carefully follow the steps below.
- Do not loosen other screws except for the lamp unit cover and lamp unit.

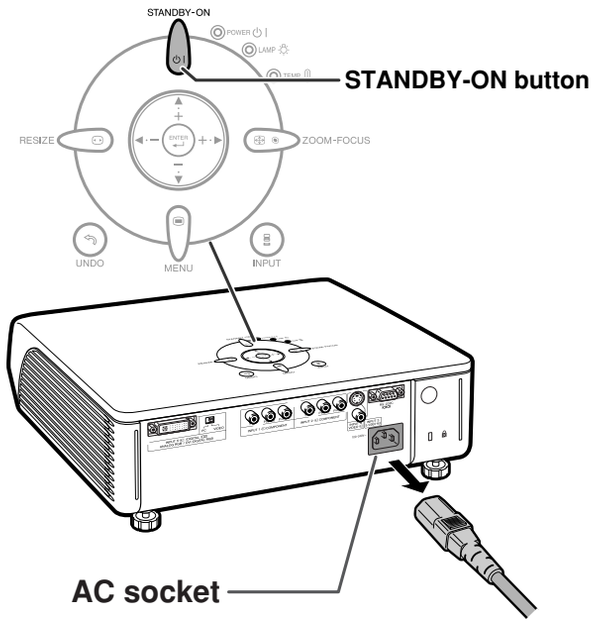
Optional accessory



Lamp unit
AH-57201

1 Press STANDBY-ON on the projector or STANDBY on the remote control to put the projector into standby mode.

- Wait until the cooling fan stops.

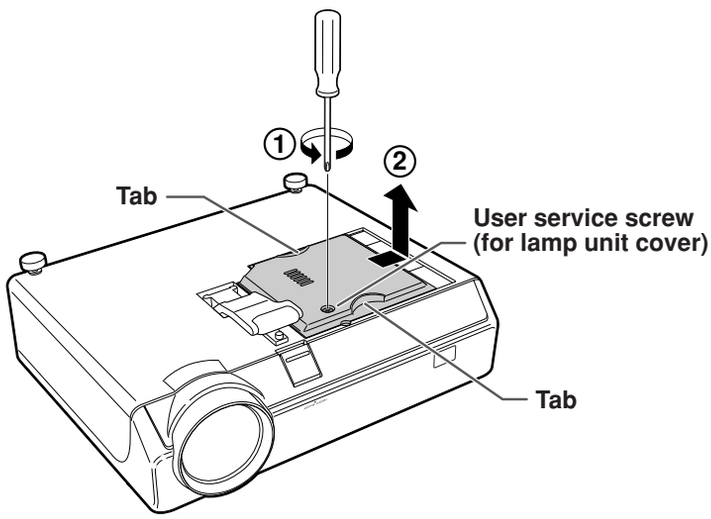


2 Disconnect the power cord.

- Unplug the power cord from the AC socket.
- Leave the lamp until it has fully cooled down (about 1 hour).

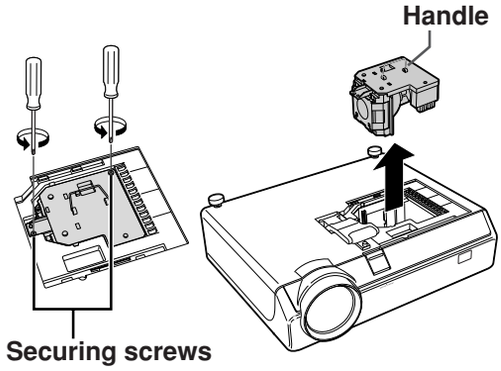
3 Remove the lamp unit cover.

- Turn the projector over. Loosen the user service screw (①) that secures the lamp unit cover. Hold the tab and slide towards the direction of the arrow to remove the lamp unit cover (②).



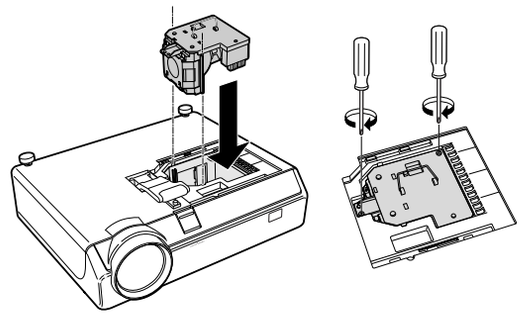
4 Remove the lamp unit.

- Loosen the two securing screws from the lamp unit. Hold the lamp unit by the handle and pull it in the direction of the arrow. At this time, keep the lamp unit horizontal and do not tilt it.



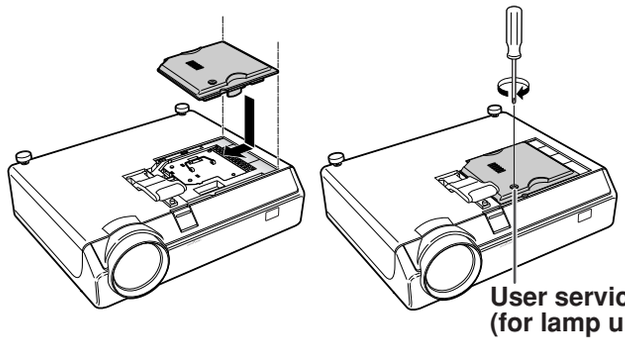
5 Insert the new lamp unit.

- Press the lamp unit firmly into the lamp unit compartment. Fasten the securing screws.



6 Replace the lamp unit cover.

- Align the lamp unit cover and slide it to close. Then tighten the user service screw to secure the lamp unit cover.



Info

- If the lamp unit and lamp unit cover are not correctly installed, the power will not turn on, even if the power cord is connected to the projector.

Resetting the Lamp Timer

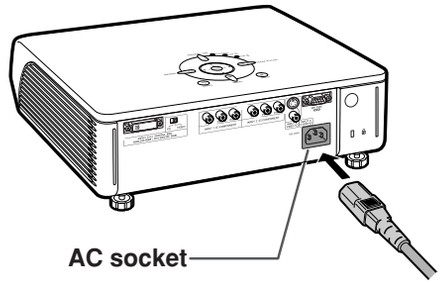
Reset the lamp timer after replacing the lamp.

Info

- Make sure to reset the lamp timer only when replacing the lamp. If you reset the lamp timer and continue to use the same lamp, this may cause the lamp to become damaged or explode.

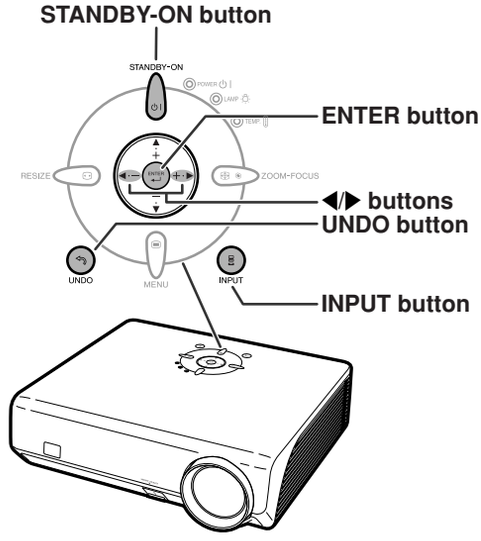
1 Connect the power cord.

- Plug the power cord into the AC socket of the projector.



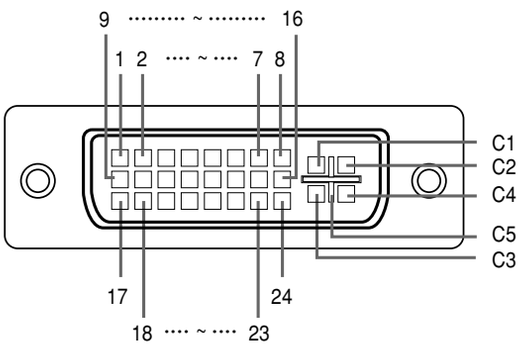
2 Reset the lamp timer.

- Press STANDBY-ON, INPUT, UNDO, ◀, ENTER and ▶ on the projector in order, and then press STANDBY-ON on the projector.
- "LAMP 0000H" is displayed on the lower left of the screen, indicating that the lamp timer is reset.



Connecting Pin Assignments

DVI-I (INPUT 5) port : 29-pin connector



• DVI Digital INPUT

Pin No.	Signal	Pin No.	Signal
1	T.M.D.S data 2–	16	Hot plug detection
2	T.M.D.S data 2+	17	T.M.D.S data 0–
3	T.M.D.S data 2 shield	18	T.M.D.S data 0+
4	Not connected	19	T.M.D.S data 0 shield
5	Not connected	20	Not connected
6	DDC clock	21	Not connected
7	DDC data	22	T.M.D.S clock shield
8	Not connected	23	T.M.D.S clock+
9	T.M.D.S data 1–	24	T.M.D.S clock–
10	T.M.D.S data 1+	C1	Not connected
11	T.M.D.S data 1 shield	C2	Not connected
12	Not connected	C3	Not connected
13	Not connected	C4	Not connected
14	+5V power	C5	Ground
15	Ground		

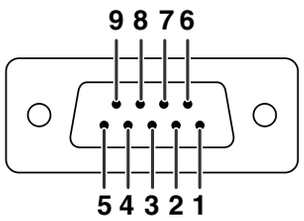
• DVI Analog RGB Input

Pin No.	Signal	Pin No.	Signal
1	Not connected	16	Hot plug detection
2	Not connected	17	Not connected
3	Not connected	18	Not connected
4	Not connected	19	Not connected
5	Not connected	20	Not connected
6	DDC clock	21	Not connected
7	DDC data	22	Not connected
8	Vertical sync	23	Not connected
9	Not connected	24	Not connected
10	Not connected	C1	Analog input Red
11	Not connected	C2	Analog input Green
12	Not connected	C3	Analog input Blue
13	Not connected	C4	Horizontal sync
14	+5V power	C5	Ground
15	Ground		

• DVI Analog Component Input

Pin No.	Signal	Pin No.	Signal
1	Not connected	16	Not connected
2	Not connected	17	Not connected
3	Not connected	18	Not connected
4	Not connected	19	Not connected
5	Not connected	20	Not connected
6	Not connected	21	Not connected
7	Not connected	22	Not connected
8	Not connected	23	Not connected
9	Not connected	24	Not connected
10	Not connected	C1	Analog input P_R/C_R
11	Not connected	C2	Analog input Y
12	Not connected	C3	Analog input P_B/C_B
13	Not connected	C4	Not connected
14	Not connected	C5	Ground
15	Ground		

RS-232C Port: 9-pin D-sub male connector



Pin No.	Signal	Name	I/O	Reference
1				Not connected
2	RD	Receive Data	Input	Connected to internal circuit
3	SD	Send Data	Output	Connected to internal circuit
4		Reserved		Connected to internal circuit
5	SG	Signal Ground		Connected to internal circuit
6		Reserved		Connected to internal circuit
7		Reserved		Connected to internal circuit
8		Reserved		Connected to internal circuit
9				Not connected

RS-232C Specifications and Command Settings

PC control

A computer can be used to control the projector by connecting an RS-232C cable (null modem, cross type, commercially available) to the projector. (See page 27 for connection.)

Communication conditions

Set the serial port settings of the computer to match that of the table.
Signal format: Conforms to RS-232C standard.
Baud rate: 9,600 bps
Data length: 8 bits
Parity bit: None
Stop bit: 1 bit
Flow control: None

Basic format

Commands from the computer are sent in the following order: command, parameter, and return code. After the projector processes the command from the computer, it sends a response code to the computer.

Command format

C1	C2	C3	C4	P1	P2	P3	P4

Command 4-digit　　Parameter 4-digit

Return code (0DH)

Response code format

Normal response

O	K

Return code (0DH)

Problem response (communication error or incorrect command)

E	R	R

Return code (0DH)

Info

- When more than one code is being sent, send each command only after the OK response code for the previous command from the projector is verified.
- When using the computer control function of the projector, the projector's operating status cannot be read by the computer.

Commands

Example:

- When power on.

Computer

P	O	W	R	_	_	_	1	⏎

→
←

Projector

O	K	⏎

	CONTROL CONTENTS	COMMAND	PARAMETER	RETURN
BUTTONS & REMOTE CONTROL BUTTONS	POWER ON	**P O W R**	_ _ _ **1**	OK OR ERR
	STANDBY	**P O W R**	_ _ _ **0**	OK OR ERR
	INPUT 1 (COMPONENT 1)	**I V E D**	_ _ _ **1**	OK OR ERR
	INPUT 2 (COMPONENT 2)	**I V E D**	_ _ _ **2**	OK OR ERR
	INPUT 3 (S-VIDEO)	**I V E D**	_ _ _ **3**	OK OR ERR
	INPUT 4 (VIDEO)	**I V E D**	_ _ _ **4**	OK OR ERR
	INPUT 5 (RGB/COMPONENT)	**I V E D**	_ _ _ **5**	OK OR ERR
	DIGITAL MODE	**I V E D**	_ _ _ **6**	OK OR ERR

Note

- If an underbar (_) appears in the parameter column, enter a space.

Computer Compatibility Chart

The table below lists signal codes that are compatible with the projector. When the images are distorted or cannot be projected, adjust the output signal of your computer and so forth while referring to the table below.

Computer

- Horizontal Frequency: 15–70 kHz
  Vertical Frequency: 43–75 Hz
  Pixel Clock: 12–80 MHz
  Compatible with sync on green
  XGA compatible in intelligent compression

PC/ MAC	Resolution		Horizontal Frequency (kHz)	Vertical Frequency (Hz)	VESA Standard	DVI Support	Display
PC	VGA	640 × 350	27.0	60			Upscale
			31.5	70			
		720 × 350	27.0	60			
			31.5	70			
		640 × 400	27.0	60			
			31.5	70			
		720 × 400	27.0	60			
			31.5	70			
		640 × 480	26.2	50		✔	
			31.5	60	✔	✔	
			34.7	70		✔	
			37.9	72	✔	✔	
			37.5	75	✔	✔	
	SVGA	800 × 600	31.4	50		✔	
			35.1	56	✔	✔	
			37.9	60	✔	✔	
			44.5	70		✔	
			48.1	72	✔	✔	
			46.9	75	✔	✔	
	XGA	1,024 × 768	35.5	43	✔		Intelligent Compression
			40.3	50		✔	
			56.5	70	✔	✔	
			58.1	72		✔	
	—	1,280 × 720	45.0	60		✔	
PC/ MAC 13"	VGA	640 × 480	34.9	67			Upscale
MAC 16"	SVGA	832 × 624	46.8	75			
			49.6	75			
PC/ MAC 19"	XGA	1,024 × 768	48.4	60	✔		Intelligent Compression
			60.0	75	✔		

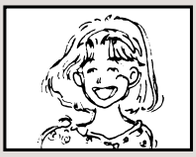
Note

- This projector may not be able to display images from notebook computers in simultaneous (CRT/LCD) mode. Should this occur, turn off the LCD display on the notebook computer and output the display data in “CRT only” mode. Details on how to change display modes can be found in your notebook computer’s owner’s manual.

DTV

Signal	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	DVI Support
480I	15.7	60	
480P	31.5	60	✔
540P	33.8	60	
576I	15.6	50	
576P	31.3	50	✔
720P	45.0	60	✔
720P	37.5	50	✔
1035I	28.1	50	
1035I	33.8	60	
1080I	28.1	50	✔
1080I	33.8	60	✔

Troubleshooting

Problem	Check	Page
No picture	• Projector power cord is not plugged into the wall outlet.	28
	• Power to the external connected devices is off.	—
	• The selected input mode is wrong.	29
	• Cables are incorrectly connected to the rear panel of the projector.	19-27
	• External output has not been set when connecting notebook computer.	—
	• “Contrast” and “Bright” are set to minimum position.	42
Color is faded or poor.	• Image adjustments are incorrectly set.	42
	(Video Input only) • Video input system is incorrectly set. (INPUT 5) • Input signal type (RGB/Component) is incorrectly set.	 48 48
On-screen display does not appear.	• “OSD Display” is set to “🖵 (OFF)”.	47
 Picture is blurred; noise appears.	• Adjust the focus.	30
	• The projection distance exceeds the focus range.	17
	(Computer Input only) • Perform “Fine Sync” Adjustments. (“Clock” Adjustment) • Perform “Fine Sync” Adjustments. (“Phase” Adjustment) • Noise may appear depending on the computer.	 45 45 —
An unusual sound is occasionally heard from the cabinet.	• If the picture is normal, the sound is due to cabinet shrinkage caused by room temperature changes. This will not affect operation or performance.	—
Maintenance indicator illuminates or blinks in red.	• See “Maintenance Indicators”.	54
The cooling fan becomes noisy.	• When temperature inside the projector increases, the cooling fan runs faster.	—
The lamp takes a long time to turn on.	• The lamp will eventually need to be changed. The lamp has reached the end of its life. Replace the lamp.	57
Picture is dark.		
Image is green on INPUT 5 Component. Image is pink (no green) on INPUT 5 RGB.	• Change the input signal type.	48

This projector is equipped with a microprocessor. Its performance could be adversely affected by incorrect operation or interference. If this should happen, unplug the projector and plug it in again after more than 5 minutes.

Specifications

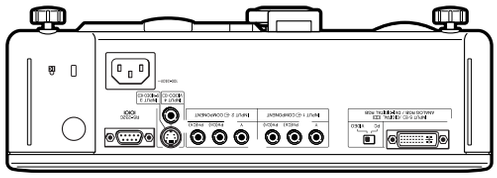
Product type	DLP™ Projector
Model	EIP-1500T
Video system	PAL/PAL 60/PAL-M/PAL-N/SECAM/NTSC 3.58/NTSC 4.43 DTV 480I/480P/720P/1080I
Display method	Single Panel Digital Micromirror Device (DMD™) by Texas Instruments
DLP panel	Panel size: 0.8" Drive method: Digital Light Processing (DLP™) No. of dots: 921,600 dots (1,280 [H] × 720 [V])
Lens	1–1.5 × zoom lens, F2.0–2.5, f=21.3–31.6 mm
Projection lamp	275 W DC lamp
Video input signal	RCA Connector: VIDEO (INPUT 4), composite video, 1.0 Vp-p, sync negative, 75 Ω terminated
S-video input signal	4-pin Mini DIN connector (INPUT 3) Y (luminance signal): 1.0 Vp-p, sync negative, 75 Ω terminated C (chrominance signal): Burst 0.286 Vp-p, 75 Ω terminated
Component input signal (INPUT 1, 2)	RCA Connector Y: 1.0 Vp-p, sync negative, 75 Ω terminated P_B (C_B): 0.7 Vp-p, 75 Ω terminated P_R (C_R): 0.7 Vp-p, 75 Ω terminated
Analog RGB/Digital (INPUT 5/DIGITAL)	29-pin DVI-I terminal <Digital> Input impedance 50 Ω Input level 250-1000 mV <Analog> Input impedance 75 Ω Input level 0.7 Vp-p Y: 1.0 Vp-p, sync negative, 75 Ω terminated P_B (C_B): 0.7 Vp-p, 75 Ω terminated P_R (C_R): 0.7 Vp-p, 75 Ω terminated <Synchronization signal> • Separate sync/Composite sync Input level TTL level Input impedance 1 KΩ • Green on sync Input level (Synchronizing input) 0.286 Vp-p Input impedance 75 Ω
Horizontal resolution	720 TV lines (DTV 720P input)
Pixel clock	12–80 MHz
Vertical frequency	43–75 Hz
Horizontal frequency	15–70 kHz
Computer control signal	9-pin D-sub connector (RS-232C Port)
Rated voltage	AC 100–240 V
Input current	3.65 A (When using AC 100 V)
Rated frequency	50/60 Hz
Power consumption	360 W (When using AC 100 V)
Power consumption (standby)	6 W (When using AC 100 V)
Heat dissipation	1,350 BTU/hour
Operating temperature	41°F to 95°F (+5°C to +35°C)
Storage temperature	–4°F to 140°F (–20°C to +60°C)
Cabinet	Plastic
I/R carrier frequency	38 kHz
Dimensions (approx.)	12 7/32" × 3 33/64" × 11 7/64" (310 (W) × 89 (H) × 282 (D) mm) (main body only) 12 7/32" × 4 7/64" × 11 5/16" (310 (W) × 104 (H) × 287 (D) mm) (including adjustment foot and projecting parts)
Weight (approx.)	9.3 lbs. (4.2 kg)
Replacement parts	Remote control, Power cord for U.S., Canada, etc., Power cord for Europe, except U.K., Video cable, Lens cap, QUICK GUIDE, Owner's manual

As a part of policy of continuous improvement, EIKI reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

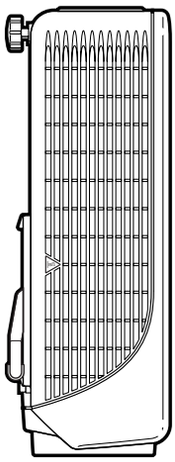
Dimensions

Units: inches (mm)

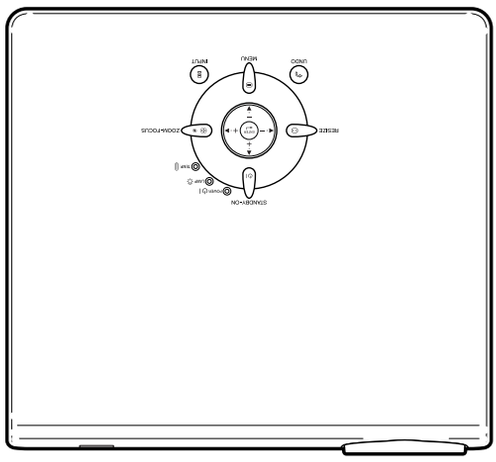
Rear View



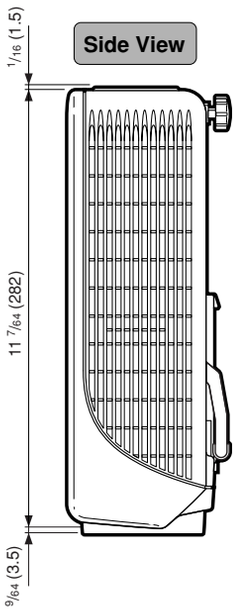
Side View



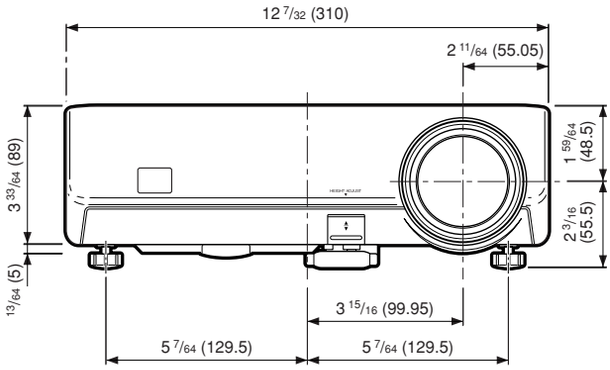
Top View



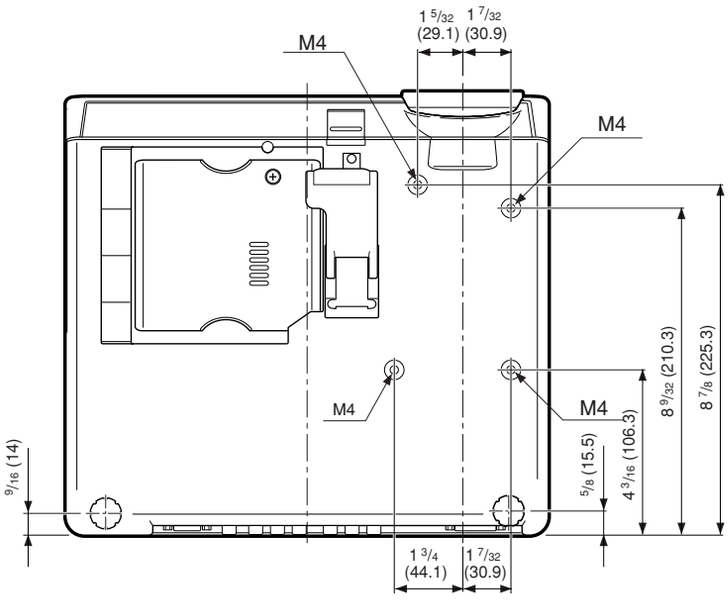
Side View



Front View



Bottom View



Glossary

Aspect Ratio
Width and height ratio of an image. The normal aspect ratio of a computer and video image is 4:3. There are also wide images with an aspect ratio of 16:9 and 21:9.

Auto Sync
Optimizes projected computer images by automatically adjusting certain characteristics.

Background
Initial setting image projected when no signal is being output.

Clock
Clock adjustment is used to adjust vertical noise when clock level is incorrect.

CLR Temp (Color temperature)
Function that can be used to adjust the color temperature to suit the type of image input to the projector. Decrease the color temperature to create warmer, reddish images for natural flesh tones, or increase to create cooler, bluish images for a brighter picture.

Composite sync
Signal combining horizontal and vertical sync pulses.

DVI (Digital Visual Interface)
Display digital interface that also supports analog interfaces.

Gamma
Image quality enhancement function that offers a richer image by brightening the darker portions of the image without altering the brightness of the brighter portions. You can select from four different modes: Standard, Cinema 1, Cinema 2 and Cinema 3.

Intelligent compression and expansion
High quality resizing of lower and higher resolution images to fit the projector's native resolution.

Keystone Correction
Function to digitally correct a distorted image when the projector is set up at an angle, smoothes out jaggies on keystone images and compresses the image not only horizontally but vertically keeping the 16 : 9 aspect ratio.

Phase
Phase shift is a timing shift between isomorphic signals with the same resolution. When phase level is incorrect, the projected image typically displays horizontal flicker.

Resize
Allows you to modify or customize the picture display mode to enhance the input image. You can select from four different modes: STRETCH, SIDE BAR, SMART STRETCH and CINEMA ZOOM.

RS-232C
Function to control the projector from the computer by using the RS-232C ports on the projector and computer.

Stretch
Projects the 16:9 image or the squeezed image (*1) fully in a 16:9 screen.
*1...16:9 image that is squeezed horizontally into 4:3 image

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