EIKI

DLP™ PROJECTOR

MODEL **EIP-1600T**

OWNER'S MANUAL

EIKI INDUSTRIAL CO., LTD.

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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 **10**.

Model No.: EIP-1600T

Serial No.:

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 13A 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.

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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.

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

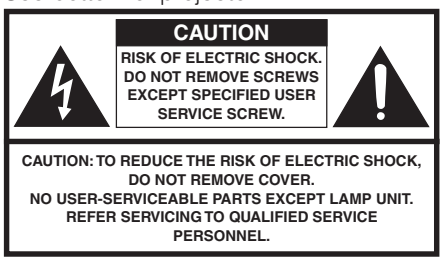
Introduction ENGLISH

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

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WARNING:

The cooling fan in this projector continues to run for about 90 seconds after the projector enters 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.

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-1600T
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

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 **54**.

This EIKI projector uses a DMD panel. This very sophisticated panel contains 983,040 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.

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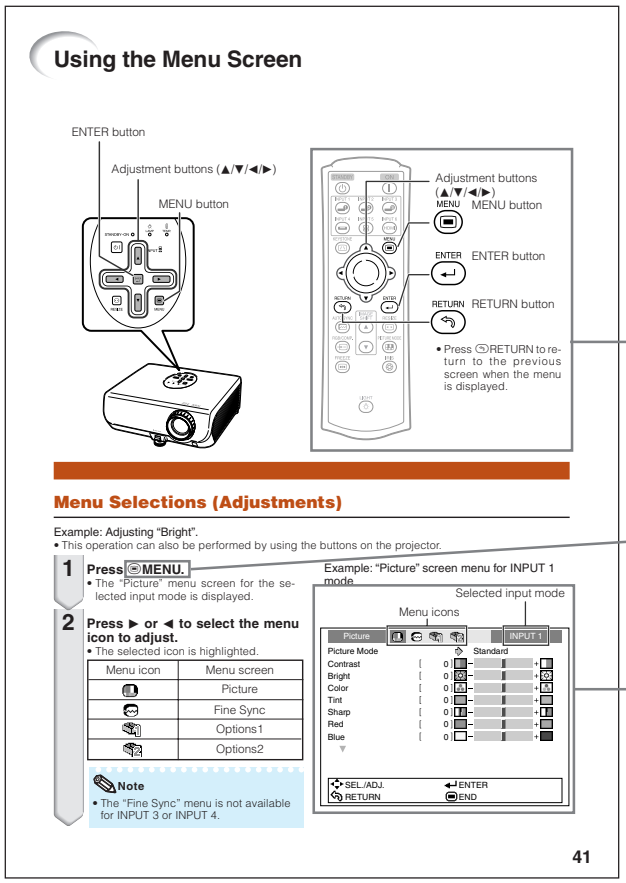
How to Read this Owner's Manual

■ The specifications are slightly different, depending on the model. However, you can connect and operate all models in the same manner.

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



Info .....Indicates safeguards for using the projector.

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

For Future Reference

Maintenance	Troubleshooting	Index
➡ P. 51	➡ PP. 60 and 61	➡ P. 64

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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.

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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 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.

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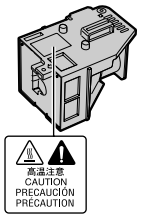
Observe the following safeguards when setting up your projector.

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 replacement.
  See “Replacing the Lamp” on page **54**.



Caution concerning the setup of the projector

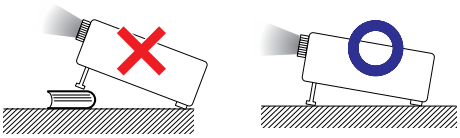
- For minimal servicing and to maintain high image quality, EIKI recommends that this projector be installed in an area free from humidity, dust and cigarette smoke. When the projector is subjected to these environments, the vents and lens must be cleaned more often. As long as the projector is regularly 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.

Caution regarding placing of the projector

- Place the projector on a level site within the adjustment range (8 degrees) of the adjustment foot.



- After the projector is purchased, a faint smell from the vent may appear when the power is first turned on. This is normal and is not a malfunction. It will disappear after the projector is used for a while.

When using the projector in high-altitude areas such as mountains (at altitudes of approximately 4,900 feet (1,500 meters) or more)

- When you use the projector in high-altitude areas with thin air, set “Fan Mode” to “High”. Neglecting this can affect the longevity of the optical system.

Warning about placing the projector in a high position

- When placing the projector in a high position, ensure that it is secured carefully 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 11 $^{13}/_{16}$ inches (30 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 **52** and **53**.) 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.

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■ When turning off the projector, the cooling fan runs to decrease the internal temperature for a while. Unplug the power cord after the cooling fan stops. The period the cooling fan runs will vary, depending on the circumstances and the internal temperature.

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. Before moving the projector, be sure to unplug the power cord from the wall outlet, and disconnect any other cables connected to it.
■ Do not carry the projector by holding the lens.
■ When storing the projector, re-attach the lens cap. (See page **11**).
■ Do not expose the projector to direct sunlight or place next to heat sources. Doing so may affect the cabinet color or cause deformation of the plastic cover.

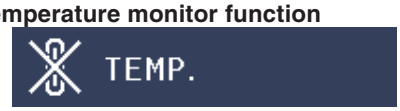
Other connected equipment

■ 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, be sure 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 standby mode. Refer to "Maintenance Indicators" on page **52** 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.

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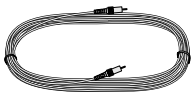
Accessories

Supplied accessories

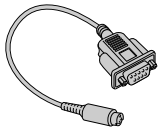
Remote control

Two R-03 batteries
("AAA" size, UM/SUM-4,
HP-16 or similar)

Lens cap (attached)



Video cable
(10′ (3.0 m))
QCNWGA097WJPZ

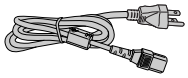


DIN-D-sub
RS-232C adaptor
(5 $^{57}/_{64}$″ (15 cm))
QCNWGA015WJPZ

- Owner's manual
- Quick Guide

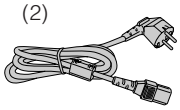
Power cord*

(1)



For U.S. and
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.

Optional accessory

■ Lamp unit	AH-11201

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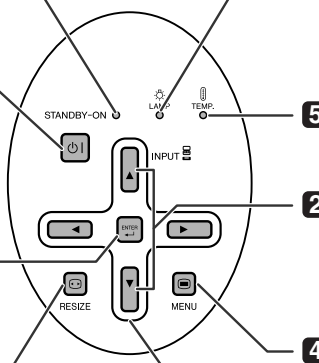
Part Names and Functions

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

Projector

Top View



Power indicator **28, 52**

28, 52 Lamp indicator

STANDBY-ON button **28**
For turning the power on and putting the projector into standby mode.

52 Temperature warning indicator

29 INPUT buttons (▲/▼)
For switching input mode 1, 2, 3, 4, 5 or 6.

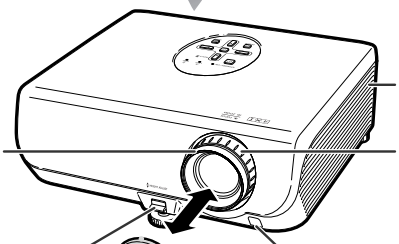
ENTER button **41**
For setting items selected or adjusted on the menu.

RESIZE button **36**
For switching the screen size.

41 MENU button
For displaying adjustment and setting screens.

41 Adjustment buttons (▲/▼/◄/►)
For selecting menu items.

Front View



51 Intake vent

Focus ring **30**
For adjusting the focus.

30 Zoom ring
For enlarging/ reducing the picture.

HEIGHT ADJUST lever **30**

15 Remote control sensor (front)

Push both sides of the lens cap to attach or remove.

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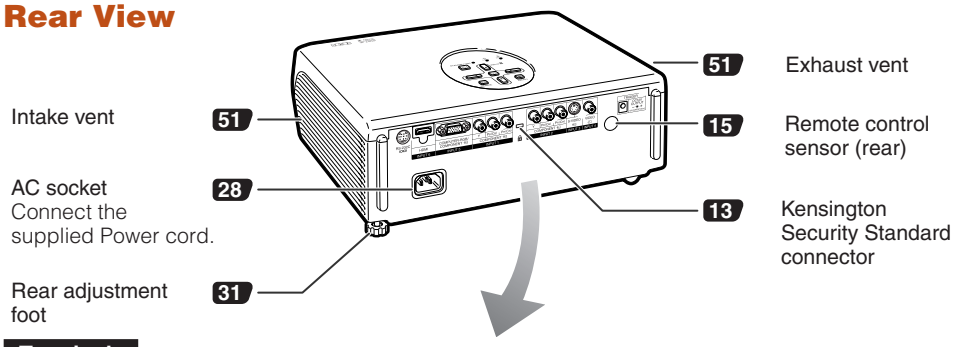
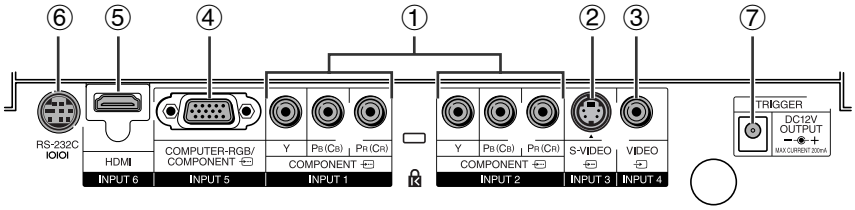
Part Names and Functions (Continued)

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

Rear View



Terminals



Terminal	Description	Page
①	INPUT 1, 2 terminal Connecting video equipment with component output terminal (DVD player, DTV decoder, DVD recorder with hard disc, etc.).	23
②	INPUT 3 terminal Connecting video equipment with S-video output terminal (VCR, DVD player, etc.).	24
③	INPUT 4 terminal Connecting video equipment without S-video output terminal.	24
④	INPUT 5 terminal ■ Connecting the computer. ■ Connecting video equipment with component output terminal (DVD player, DTV decoder, DVD recorder with hard disc, etc.).	26
⑤	INPUT 6 terminal Connecting video equipment with HDMI output terminal.	25
⑥	RS-232C terminal Connecting the computer to control the projector.	27
⑦	TRIGGER terminal When the projector is turned on, a control signal (DC 12V) outputs from this terminal. If an electric screen or other compatible device is connected, it can be turned on when the projector is turned on.	—

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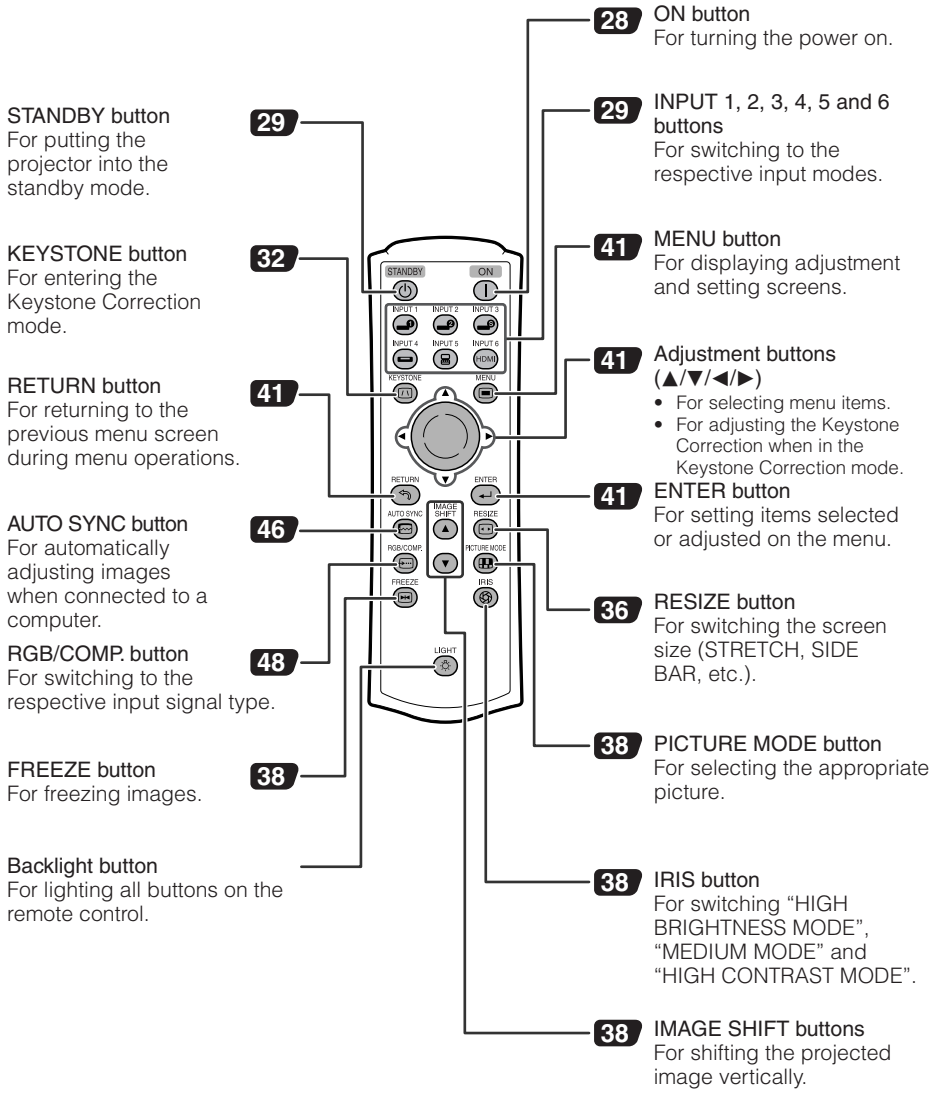
Numbers in ▬ refer to the main pages in this owner's manual where the topic is explained.



Using the Kensington Lock on the projector

- 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.

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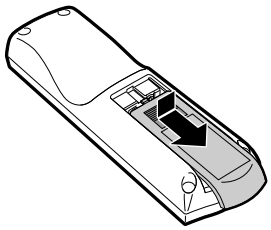
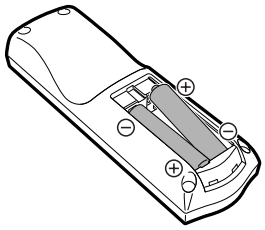
Part Names and Functions (Continued)

Inserting the Batteries

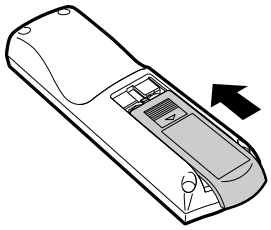
1 **Press the ▲ mark on the cover and slide it in the direction of the arrow.**



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



3 **Attach the cover and slide it until it clicks into place.**



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

⚠ Caution

- Danger of explosion if battery is incorrectly replaced.
  Replace only with the same or equivalent type.
- 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.
- Remove the batteries from the remote control if you will not be using the remote control for a long time.
- Comply with the rules (ordinance) of each local government when disposing of worn-out batteries.

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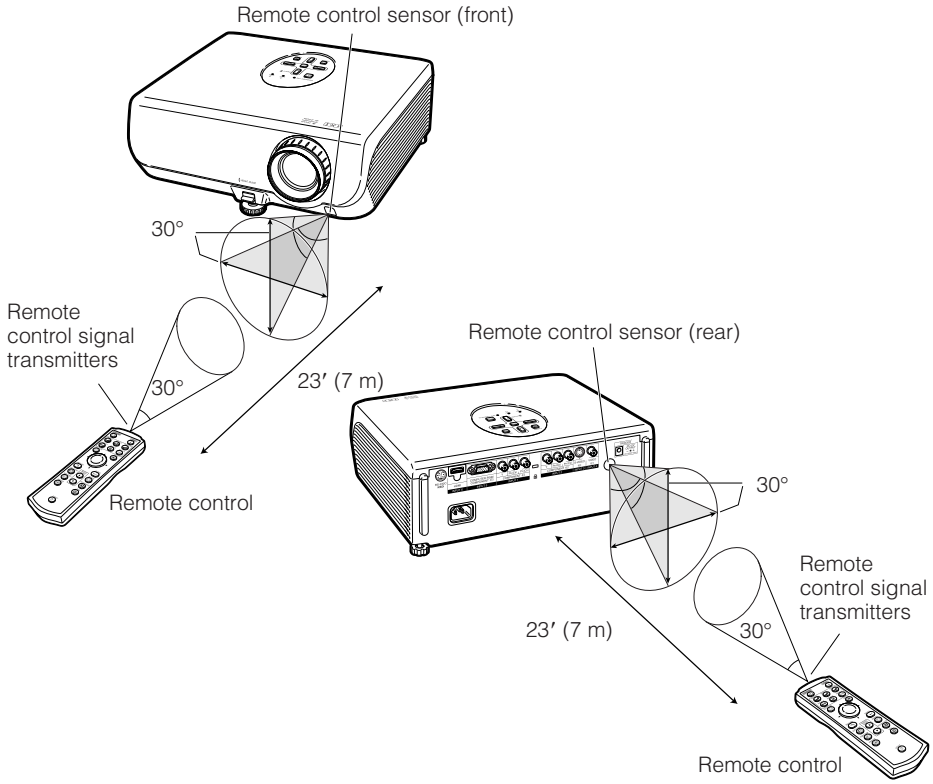
Usable Range

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



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, expose 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.

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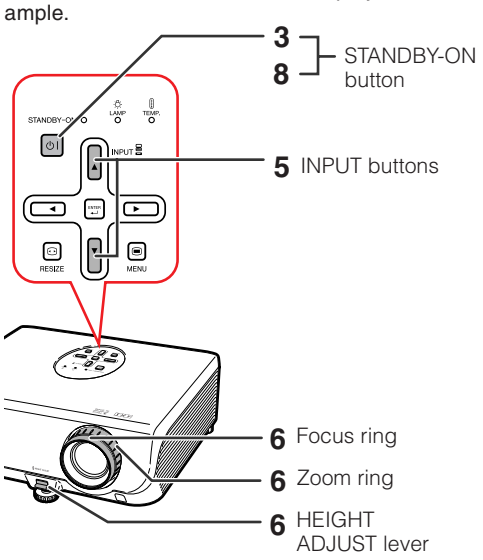
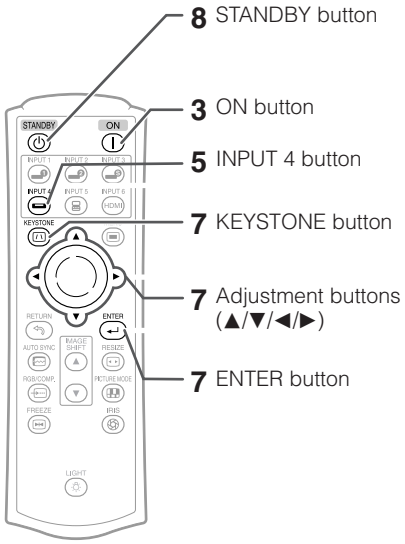
Quick Start

This section shows the basic operation (projector connecting with the video equipment).
For details, see the page described below for each step.

Setup and Projection

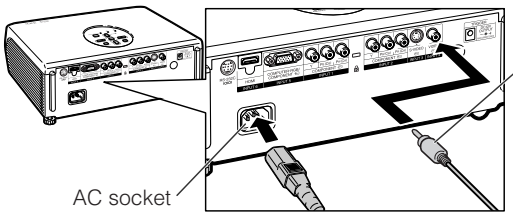
In this section, connection of the projector and the video equipment is explained using one example.



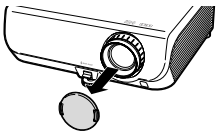


1. Place the projector facing a wall or a screen ➡P. 18

2. Connect the projector to the video equipment and plug the power cord into the AC socket of the projector ➡PP. 22–28



3. Remove the lens cap and turn the projector on ➡P. 28



On the projector
STANDBY-ON

On the remote control
ON

EIP-1600T_EN_e 16 06.1.24, 1:03 PM

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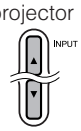
4. Turn the video equipment on and start playback

5. Select the INPUT mode ➡P. 29

Select the “INPUT 4” using the INPUT buttons on the projector or the INPUT 4 button on the remote control.

On the projector



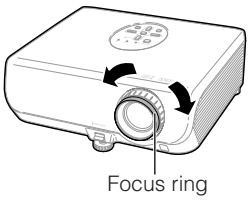
On the remote control

On-screen display

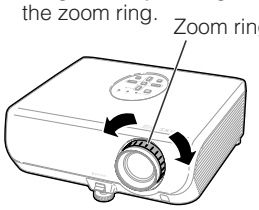
- When pressing the INPUT buttons on the projector, input mode switches in the following order: ↱INPUT1↔INPUT2↔INPUT3↔INPUT4↔INPUT5↔INPUT6↰
- Pressing the INPUT buttons on the remote control also allows you to switch the input mode.

6. Adjust the focus, image size, and projector angle ➡PP. 30, 31

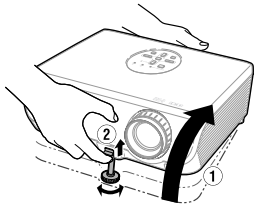
1. Adjust the focus by turning the focus ring.



2. Adjust the projection image size by turning the zoom ring.



3. Adjust the projector angle using the HEIGHT ADJUST lever.



7. Correct trapezoidal distortion (GEOMETRIC ADJUSTMENT) ➡PP. 32–35

1. Press KEYSTONE on the remote control.
2. Press ▲/▼/◄/► on the remote control to set the upper-left position of the projected image.
3. Press ENTER on the remote control to set the position.
4. Follow steps 2 and 3 to also set the upper-right, lower-right, and lower-left positions of the projected image.
   - When you confirm the lower left position, the screen adjustments will be set and setup will end.

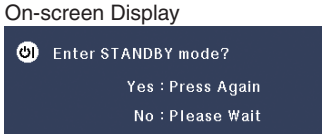
8. Turn the Power off ➡P. 29

Press the STANDBY-ON button on the projector or the STANDBY button on the remote control, and then press the 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.

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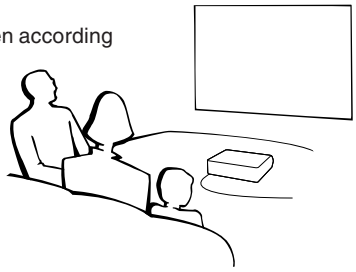
Setting up the Projector

Setting up the Projector

For optimal image quality, position the projector perpendicular to the screen with the projector's feet flat and level. Doing so will eliminate the need for Keystone correction and provide the best image quality.

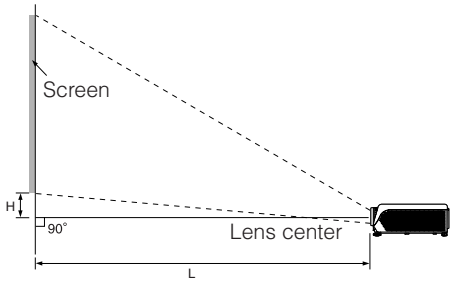
Standard Setup (Front Projection)

■ Place the projector at the required distance from the screen according to the desired picture size. (See page **20**.)



Example of standard setup

Side View



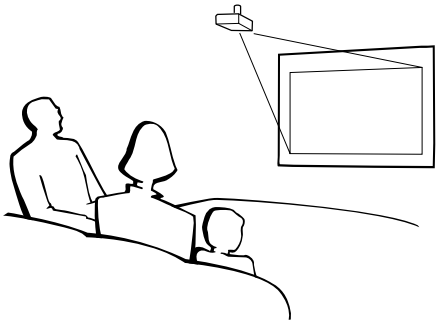
Note

• Refer to page **20** for additional information concerning "Picture (Screen) Size and Projection Distance".

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 **49** for use of this function.



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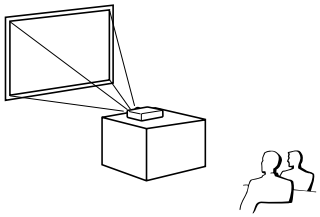
Projection (PRJ) Mode

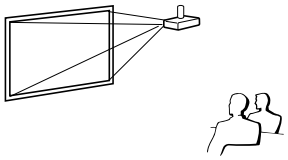
The projector can use any of the 4 projection modes, shown in the diagram below. Select the mode most appropriate for the projection setting in use. (You can set the PRJ Mode in “Options2” menu. See page **49**.)

■ Table mounted, front projection



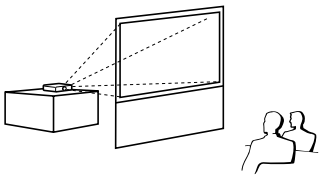
Menu item → “Front”

■ Ceiling mounted, front projection



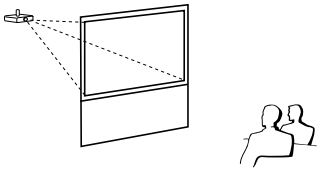
Menu item → “Ceiling + Front”

■ Table mounted, rear projection (with a translucent screen)



Menu item → “Rear”

■ Ceiling mounted, rear projection (with a translucent screen)

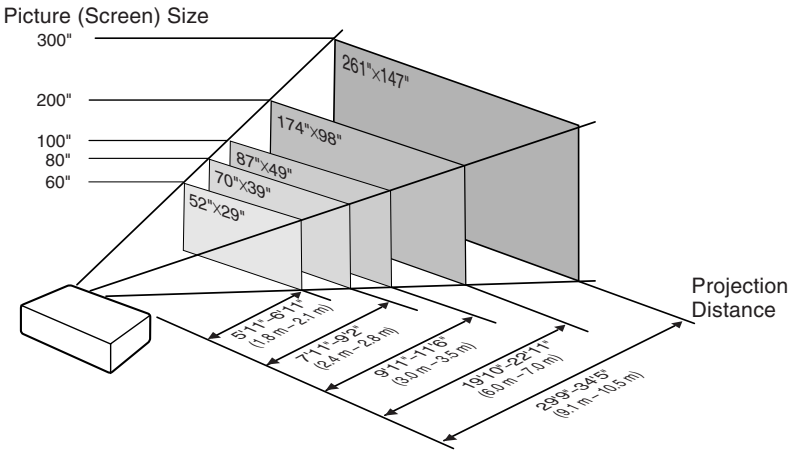


Menu item → “Ceiling + Rear”

Indication of the Projection Image Size and Projection Distance

Refer to page **20** for additional information concerning “Picture (Screen) Size and Projection Distance”.

Example: When using a wide screen (16:9)



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Picture (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.

When using a wide screen (16:9) and projecting 16:9 image

Picture (Screen) size			Projection distance [L]		Distance from the lens center to the bottom of the image [H]	Adjustable range of image position [S]
Diag. [χ]	Width	Height	Minimum [L1]	Maximum [L2]		
300″ (762 cm)	261″ (664 cm)	147″ (374 cm)	29′ 9″ (9.1 m)	34′ 5″ (10.5 m)	−21 1/32″ (−53 cm)	±4 29/32″ (±12.5 cm)
270″ (686 cm)	235″ (598 cm)	132″ (336 cm)	26′ 9″ (8.2 m)	30′11″ (9.4 m)	−18 15/16″ (−48 cm)	±4 13/32″ (±11.2 cm)
250″ (635 cm)	218″ (553 cm)	123″ (311 cm)	24′ 9″ (7.5 m)	28′ 8″ (8.7 m)	−17 17/32″ (−45 cm)	±4 5/64″ (±10.4 cm)
200″ (508 cm)	174″ (443 cm)	98″ (249 cm)	19′10″ (6.0 m)	22′11″ (7.0 m)	−14 1/64″ (−36 cm)	±3 17/64″ (±8.3 cm)
150″ (381 cm)	131″ (332 cm)	74″ (187 cm)	14′10″ (4.5 m)	17′ 2″ (5.2 m)	−10 33/64″ (−27 cm)	±2 29/64″ (±6.2 cm)
100″ (254 cm)	87″ (221 cm)	49″ (125 cm)	9′11″ (3.0 m)	11′ 6″ (3.5 m)	−7 1/64″ (−18 cm)	±1 41/64″ (±4.2 cm)
80″ (203 cm)	70″ (177 cm)	39″ (100 cm)	7′11″ (2.4 m)	9′ 2″ (2.8 m)	−5 39/64″ (−14 cm)	±1 5/16″ (±3.3 cm)
70″ (178 cm)	61″ (155 cm)	34″ (87 cm)	6′11″ (2.1 m)	8′ 0″ (2.4 m)	−4 29/32″ (−12 cm)	±1 9/64″ (±2.9 cm)
60″ (152 cm)	52″ (133 cm)	29″ (75 cm)	5′11″ (1.8 m)	6′11″ (2.1 m)	−4 13/64″ (−11 cm)	± 63/64″ (±2.5 cm)
40″ (102 cm)	35″ (89 cm)	20″ (50 cm)	4′ 0″ (1.2 m)	4′ 7″ (1.4 m)	−2 51/64″ (− 7 cm)	± 21/32″ (±1.7 cm)

χ: Picture (Screen) size (diag.) (in/cm)
L: Projection distance (ft/m)
L1: Minimum projection distance (ft/m)
L2: Maximum projection distance (ft/m)
H: Distance from the lens center to the bottom of the image (in/cm)
S: Adjustable range of image position (in/cm) See page **47**.

The formula for picture size and projection distance

[Feet/inches]	**[m/cm]**
L1 (ft) = 0.03019χ / 0.3048	L1 (m) = 0.03019χ
L2 (ft) = 0.03493χ / 0.3048	L2 (m) = 0.03493χ
H (in) = - 0.17808χ / 2.54	H (cm) = - 0.17808χ
S (in) = ±0.04151χ / 2.54	S (cm) = ±0.04151χ

When using a normal screen (4:3) and projecting 4:3 image (SIDE BAR Mode)

Picture (Screen) size			Projection distance [L]		Distance from the lens center to the bottom of the image [H]	Adjustable range of image position [S]
Diag. [χ]	Width	Height	Minimum [L1]	Maximum [L2]		
300″ (762 cm)	240″ (610 cm)	180″ (457 cm)	36′ 4″ (11.1 m)	42′ 1″ (12.8 m)	−25 47/64″ (−65 cm)	±6″ (±15.2 cm)
270″ (686 cm)	216″ (549 cm)	162″ (411 cm)	32′ 9″ (10.0 m)	37′ 10″ (11.5 m)	−23 11/64″ (−59 cm)	±5 13/32″ (±13.7 cm)
250″ (635 cm)	200″ (508 cm)	150″ (381 cm)	30′ 4″ (9.2 m)	35′ 1″ (10.7 m)	−21 29/64″ (−54 cm)	±5″ (±12.7 cm)
200″ (508 cm)	160″ (406 cm)	120″ (305 cm)	24′ 3″ (7.4 m)	28′ 1″ (8.6 m)	−17 5/32″ (−44 cm)	±4 (±10.2 cm)
150″ (381 cm)	120″ (305 cm)	90″ (229 cm)	18′ 2″ (5.5 m)	21′ 0″ (6.4 m)	−12 7/8″ (−33 cm)	±3″ (±7.6 cm)
100″ (254 cm)	80″ (203 cm)	60″ (152 cm)	12′ 1″ (3.7 m)	14′ 0″ (4.3 m)	−8 37/64″ (−22 cm)	±2″ (±5.1 cm)
80″ (203 cm)	64″ (163 cm)	48″ (122 cm)	9′ 8″ (3.0 m)	11′ 3″ (3.4 m)	−6 55/64″ (−17 cm)	±1 19/32″ (±4.1 cm)
70″ (178 cm)	56″ (142 cm)	42″ (107 cm)	8′ 6″ (2.6 m)	9′ 10″ (3.0 m)	−6″ (−15 cm)	±1 13/32″ (±3.6 cm)
60″ (152 cm)	48″ (122 cm)	36″ (91 cm)	7′ 3″ (2.2 m)	8′ 5″ (2.6 m)	−5 9/64″ (−13 cm)	±1 13/64″ (±3.0 cm)
40″ (102 cm)	32″ (81 cm)	24″ (61 cm)	4′ 10″ (1.5 m)	5′ 7″ (1.7 m)	−3 7/16″ (−9 cm)	± 51/64″ (±2.0 cm)

χ: Picture (Screen) size (diag.) (in/cm)
L: Projection distance (ft/m)
L1: Minimum projection distance (ft/m)
L2: Maximum projection distance (ft/m)
H: Distance from the lens center to the bottom of the image (in/cm)
S: Adjustable range of image position (in/cm) See page **47**.

The formula for picture size and projection distance

[Feet/inches]	**[m/cm]**
L1 (ft) = 0.03694χ / 0.3048	L1 (m) = 0.03694χ
L2 (ft) = 0.04275χ / 0.3048	L2 (m) = 0.04275χ
H (in) = - 0.21794χ / 2.54	H (cm) = - 0.21794χ
S (in) = ±0.0508χ / 2.54	S (cm) = ±0.0508χ

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When using a normal screen (4:3) and projecting 16:9 image

Picture (Screen) size			Projection distance [L]		Distance from the lens center to the bottom of the image [H]	Adjustable range of image position [S]
Diag. [χ]	Width	Height	Minimum [L1]	Maximum [L2]		
300″ (762 cm)	240″ (610 cm)	180″ (457 cm)	27′ 3″ (8.3 m)	31′ 7″ (9.6 m)	−19 5/16″ (−49 cm)	±4 1/2″ (±11.4 cm)
270″ (686 cm)	216″ (549 cm)	162″ (411 cm)	24′ 7″ (7.5 m)	28′ 5″ (8.7 m)	−17 3/8″ (−44 cm)	±4 3/64″ (±10.3 cm)
250″ (635 cm)	200″ (508 cm)	150″ (381 cm)	22′ 9″ (6.9 m)	26′ 4″ (8.0 m)	−16 3/32″ (−41 cm)	±3 3/4″ (±9.5 cm)
200″ (508 cm)	160″ (406 cm)	120″ (305 cm)	18′ 2″ (5.5 m)	21′ 0″ (6.4 m)	−12 7/8″ (−33 cm)	±3 (±7.6 cm)
150″ (381 cm)	120″ (305 cm)	90″ (229 cm)	13′ 8″ (4.2 m)	15′ 9″ (4.8 m)	−9 21/32″ (−25 cm)	±2 1/4″ (±5.7 cm)
100″ (254 cm)	80″ (203 cm)	60″ (152 cm)	9′ 1″ (2.8 m)	10′ 6″ (3.2 m)	−6 7/16″ (−16 cm)	±1 1/2″ (±3.8 cm)
80″ (203 cm)	64″ (163 cm)	48″ (122 cm)	7′ 3″ (2.2 m)	8′ 5″ (2.6 m)	−5 9/64″ (−13 cm)	±1 13/64″ (±3.0 cm)
70″ (178 cm)	56″ (142 cm)	42″ (107 cm)	6′ 4″ (1.9 m)	7′ 4″ (2.2 m)	−4 1/2″ (−11 cm)	±1 3/64″ (±2.7 cm)
60″ (152 cm)	48″ (122 cm)	36″ (91 cm)	5′ 5″ (1.7 m)	6′ 4″ (1.9 m)	−3 55/64″ (−10 cm)	± 29/32″ (±2.3 cm)
40″ (102 cm)	32″ (81 cm)	24″ (61 cm)	3′ 8″ (1.1 m)	4′ 2″ (1.3 m)	−2 37/64″ (−7 cm)	± 19/32″ (±1.5 cm)

χ: Picture (Screen) size (diag.) (in/cm)
L: Projection distance (ft/m)
L1: Minimum projection distance (ft/m)
L2: Maximum projection distance (ft/m)
H: Distance from the lens center to the bottom of the image (in/cm)
S: Adjustable range of image position (in/cm) See page **47**.

The formula for picture size and projection distance

[Feet/inches]	**[m/cm]**
L1 (ft) = 0.02771χ / 0.3048	L1 (m) = 0.02771χ
L2 (ft) = 0.03206χ / 0.3048	L2 (m) = 0.03206χ
H (in) = - 0.16346χ / 2.54	H (cm) = - 0.16346χ
S (in) = ±0.0381χ / 2.54	S (cm) = ±0.0381χ

Note

- Refer to page **18** concerning “Projection distance [L]” and “Distance from the lens center to the bottom of the image [H]”.
- Allow a margin of error in the values in the diagrams.
- Values with a minus (-) sign indicate the distance from the lens center below the bottom of the image.

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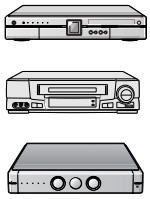
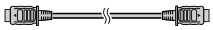
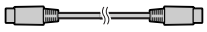
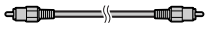
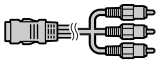
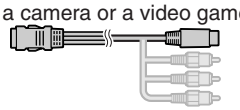
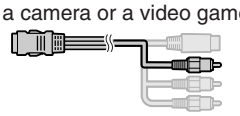
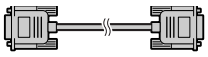
Samples of Cables for Connection

- 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	Input Signal	Cable	Terminal on the projector
Audio-visual equipment 	HDMI video	HDMI cable (commercially available) 	INPUT6
	Compo-nent video	Component cable (commercially available)	INPUT1, 2
	S-video	S-video cable (commercially available) 	INPUT3
	Video	Video cable (supplied) 	INPUT4
Camera/ video game	Compo-nent video	Cables for a camera or a video game 	INPUT1, 2
	S-video	Cables for a camera or a video game 	INPUT3
	Video	Cables for a camera or a video game 	INPUT4
Computer	RGB video	RGB cable (commercially available) 	INPUT5

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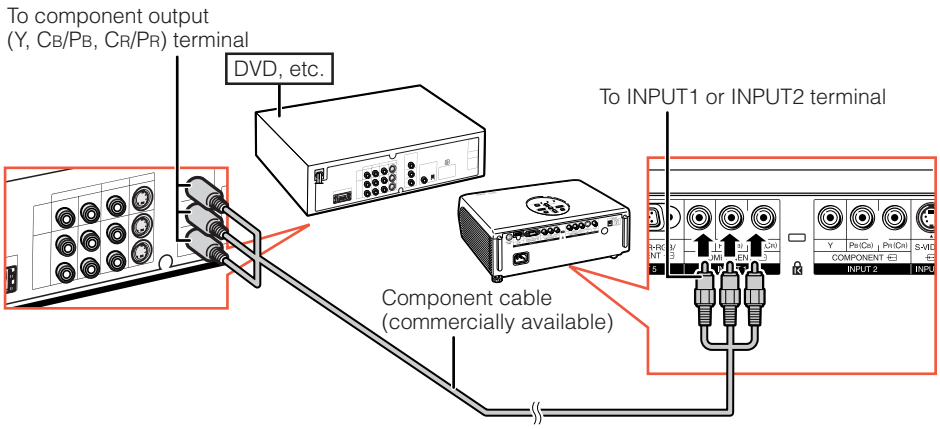
Connecting to Video Equipment

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

When connecting the component video equipment to the component input terminal on the projector (INPUT1 or INPUT2)



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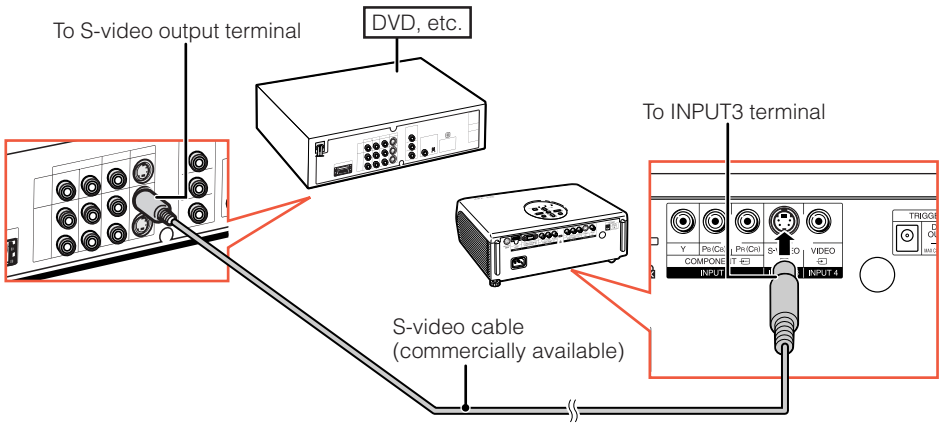
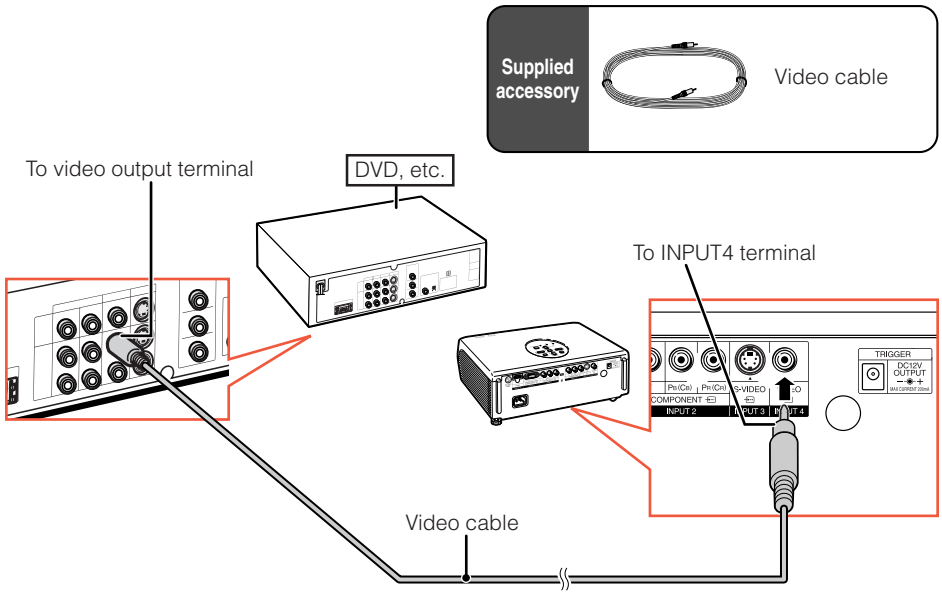
Connecting to Video Equipment (Continued)

When connecting to equipment with S-video output terminal (INPUT3)



When connecting to equipment with video output terminal (INPUT4)



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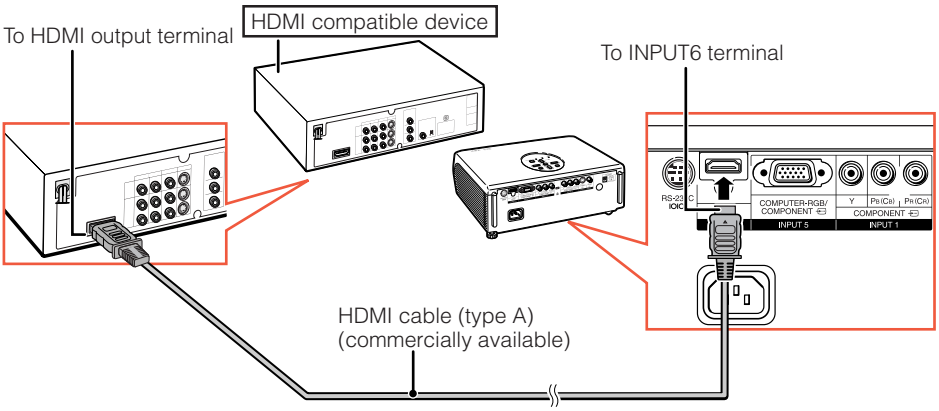
When connecting to equipment with HDMI output teminal (INPUT6)

HDMI is a new specialized interface capable of delivering a video and audio signal to the terminal using just one cable. Since this projector does not support an audio signal by itself, use an amplifier or other audio device.
For video connection, use a cable that conforms to HDMI standards. Using cables that do not conform to HDMI standards may result in a malfunction.



Note

- HDMI (High Definition Multimedia Interface) is a digital AV interface that can deliver a high-definition video signal, multi-channel audio signal, and bi-directional control signal all in just one cable.
- Because it is compatible with the HDCP (High-bandwidth Digital Content Protection) system, the digital video signal does not degrade when transmitted, and a high-quality image with a simple connection can be enjoyed.
- When a DVI to HDMI conversion cable is connected to the HDMI terminal, a proper picture may not be displayable.

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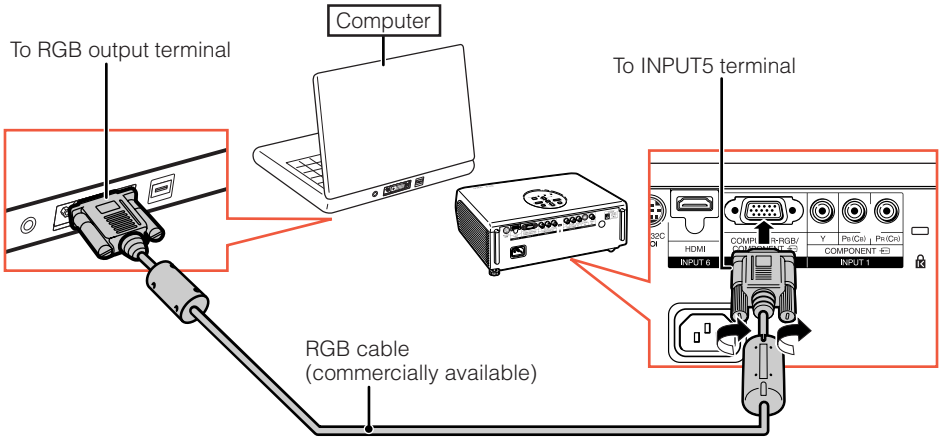
Connecting to a Computer

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

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



Note

- See page **59** "Computer Compatibility Chart" for a list of computer signals compatible with the projector. Use with computer signals other than those listed may cause some of the functions to not work.
- A Macintosh adaptor may be required for use with some Macintosh computers. Contact your nearest Macintosh Dealer.
- **Depending on the computer you are using, an image may not be projected unless the computer's external output port is switched on.** Refer to the specific instructions in the owner's manual of your computer to enable your computer's external output port.
- The INPUT5 terminal is also compatible with a component video signal so that you can connect the projector to a DVD player with a component output terminal. For details, contact your nearest EIKI Authorized Dealer or Service Center.

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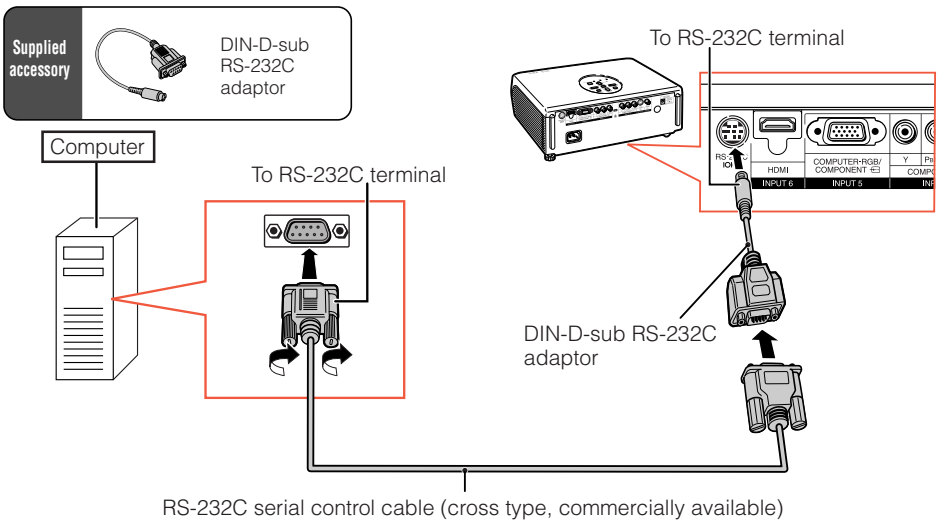
Controlling the Projector by a Computer

When the RS-232C terminal on the projector is connected to a computer with a DIN-D-sub RS-232C adaptor and an RS-232C serial control cable (cross type, commercially available), the computer can be used to control the projector and check the status of the projector. See page **58** for detail.

When connecting to a computer using an RS-232C serial control cable and a DIN-D-sub RS-232C adaptor



Note

- The RS-232C function may not operate if your computer terminal is not correctly set up. Refer to the operation manual of the computer for details.
- See page **58** for connection of an RS-232C serial control cable.

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.

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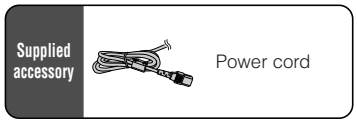
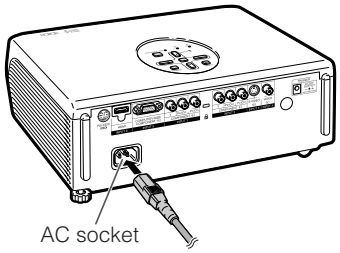
Turning the Projector On/Off

Connecting the Power Cord

Plug the supplied power cord into the AC socket on the rear of the projector.





Turning the Projector on

Note that the connections to external equipment and power outlet should be done before performing the operations written below. (See pages **23** to **28**.)

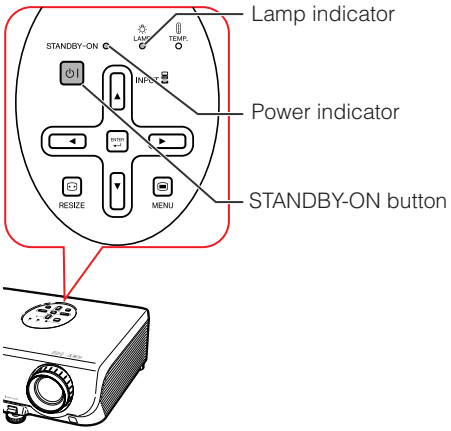
Remove the lens cap and press ⏻ STANDBY-ON on the projector or ⏻ ON on the remote control.

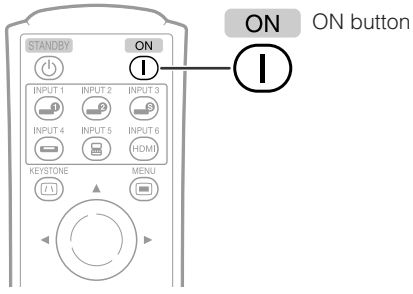
Note

- **About the Lamp Indicator**
  The lamp indicator illuminates to indicate the status of the lamp.
  Green: The lamp is on.
  Blinking in 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 stabilising the lamp output characteristics. It should not be regarded as faulty operation.
- If the projector is put into standby mode and immediately turned on again, the lamp may take some time to start projection.

Info

- English is the factory default language. If you want to change the on-screen display to another language, change the language according to the procedure on page **50**.





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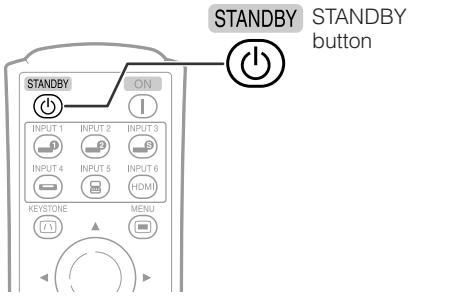
Turning the Power off (Putting the Projector into Standby Mode)

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.**
- The power indicator on the projector blinks in red while cooling.
- The power indicator changes to green when the projector finishes cooling.

Info
- 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.



On-screen Display (confirmation message)

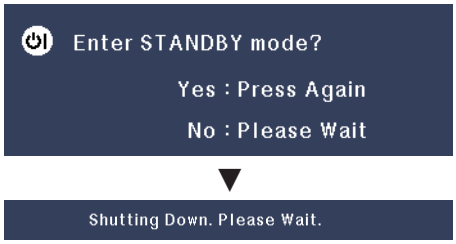


Image Projection

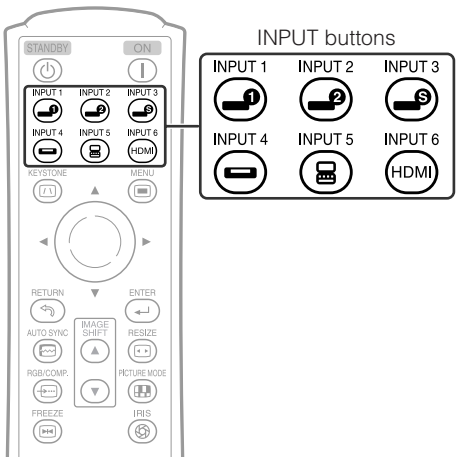
Switching the Input Mode

Select the appropriate input mode for the connected equipment.

Press the appropriate INPUT button on the remote control to select the desired input mode.

- When pressing INPUT (▲/▼) on the projector, input mode switches in the following order:

INPUT1 ⟷ INPUT2 ⟷ INPUT3
↕ ↕
INPUT6 ⟷ INPUT5 ⟷ INPUT4



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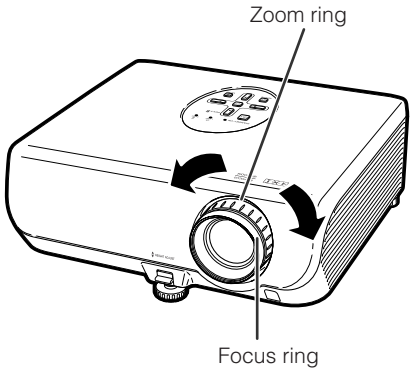
Adjusting the Projected Image

1 Adjusting the Focus

You can adjust the focus with the focus ring on the projector.

Rotate the focus ring to adjust the focus while watching the projected image.



2 Adjusting the Screen Size

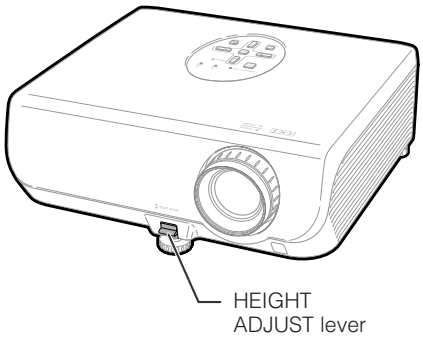
You can adjust the screen size using the zoom ring on the projector.

Rotate the zoom ring to enlarge or shrink the screen size.

3 Adjusting the Height

The height of the projector can be adjusted using the adjustment feet at the front and rear of the projector.

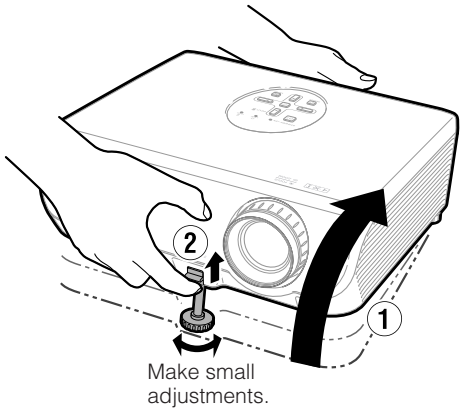
When the screen is above the projector, the projection image can be made higher by adjusting the projector.



1 **Lift the projector to adjust its height while lifting the HEIGHT ADJUST lever.**

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

- The angle of projection is adjustable up to 8 degrees from the surface on which the projector is placed.



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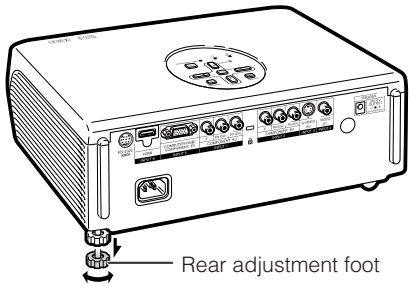
3 **Use the rear adjustment foot to make the projector level.**

- The projector is adjustable ±1 degree from the standard position.



Note

- When adjusting the height of the projector, trapezoidal distortion occurs. Follow the procedures in Keystone Correction to correct the distortion. (See page **32**.)

Info

- Do not apply too much pressure on the projector when the front adjustment foot comes out.
- When lowering the projector, be careful not to get your fingers caught in the area between the adjustment foot and the projector.
- Hold the projector firmly while lifting or carrying.
- Do not hold by the lens area.

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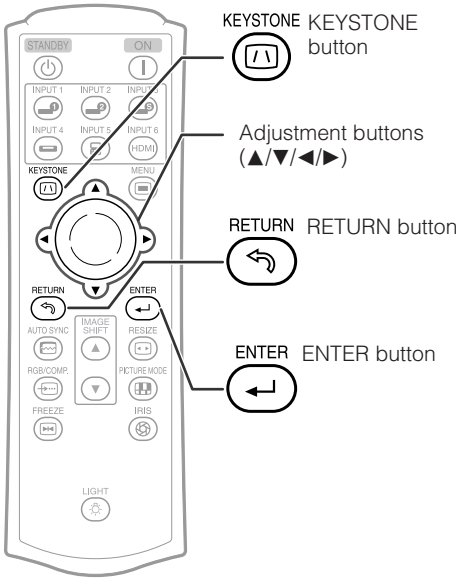
Correcting Trapezoidal Distortion

When the image is projected either from the top or from the bottom towards the screen at an angle, the image becomes distorted trapezoidally. The function for correcting trapezoidal distortion is called Keystone Correction.

There are the two types of the Keystone Correction.

1) **The "GEOMETRIC ADJUSTMENT" method corrects trapezoidal distortion by specifying 4 marks on the screen.**
2) **The "H & V KEYSTONE" method features corrections to 2 axes (horizontal and vertical) based on numerical values.**



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Selecting the Type of Correction

Select the Keystone correction method.

Press ⓜ KEYSTONE on the remote control.

- "GEOMETRIC ADJUSTMENT" will be displayed.
- Each time ⓜ KEYSTONE is pressed, the display toggles as follows:

GEOMETRIC ADJUSTMENT → H & V KEYSTONE

↳ The display disappears. ↵

GEOMETRIC ADJUSTMENT	For correcting an image by designating the corner of the projected image. (See page **34**.)
H & V KEYSTONE	For correcting an image by designating the horizontal or vertical axes. (See page **35**.)

Note

- When corrections are made with Keystone correction, the changes are saved even if the power cord is unplugged.
- Since Keystone correction digitally corrects the signal, resolution may slightly decrease when it is used. Moiré patterns and line distortions may also be visible in detailed images. However, this is not a malfunction.
- If you cannot correct trapezoidal distortion with Keystone correction, change the placement position of the projector.
- Straight lines and the edges of the displayed image may appear jagged, when adjusting the Keystone setting.
- Also read "About Copyrights" on page **37**.

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GEOMETRIC ADJUSTMENT

Note

- To use the "GEOMETRIC ADJUSTMENT", set RESIZE to "STRETCH". (See page **36**.)

1 **Press KEYSTONE on the remote control repeatedly until "GEOMETRIC ADJUSTMENT" is displayed.**

2 **Adjust the focus, size, and projection angle so that the screen edges line up into the blue area.**

- Line up the screen edges into the blue area as closely as possible.

3 **Press ▲, ▼, ◄ or ► to move the position for the upper left of the image.**

- Adjust the screen until the displayed red arrows line up in the upper left.

4 **Press ENTER to set the position.**

- The arrow in the upper right turns red.

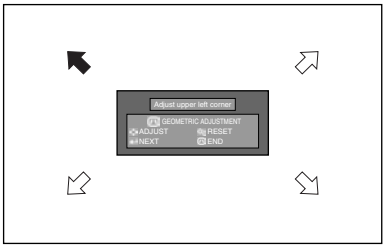
5 **Repeat the same procedure with the positions for the upper right, lower right and lower left of the image.**

- When you press RETURN at this point, you will return to the previous screen.
- If you press RETURN before adjusting the upper left corner, the Reset Confirmation screen displays.
- **When you confirm the lower left position, the screen adjustments will be set and the "GEOMETRIC ADJUSTMENT" mode will end.**

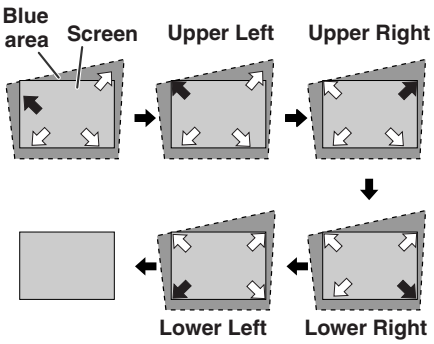
Note

- The placement of the screen and the projector may result in the image aspect ratio becoming slightly distorted.

▼ On-screen display



Geometric Adjustment



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H & V KEYSTONE

1 **Project the image and adjust the focus, image size, and projection angle.**

2 **Press KEYSTONE on the remote control repeatedly until "H & V KEYSTONE" is displayed.**

- When the "GEOMETRIC ADJUSTMENT" mode has been used to adjust the image, a confirmation screen displays before the "H & V KEYSTONE" screen, asking if you want to reset the adjustments or not. Then select RESET.

3 **Press ▲ or ▼ on the remote control to align the left and right sides of the projected image.**

4 **Press ◄ or ► on the remote control to align the upper and lower sides of the projected image.**

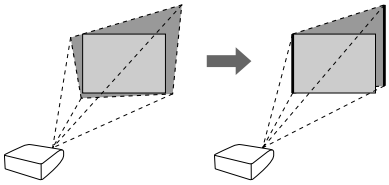
5 **Press KEYSTONE or ENTER on the remote control and the "H&V KEYSTONE" mode ends.**

Note

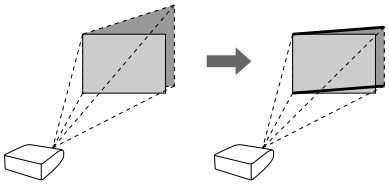
- If adjustments are made using both "H KEYSTONE" and "V KEYSTONE" at the same time, the image aspect ratio may become slightly distorted.
- When adjusting "H KEYSTONE" and "V KEYSTONE" at the same time, the values of adjustable angles for each setting become smaller.
- The adjustable value of the "V KEYSTONE" becomes extremely small when "H KEYSTONE" is made to be the maximum value.

▼ On-screen display

Vertical Keystone Correction (Adjustment with ▲ / ▼)



Horizontal Keystone Correction (Adjustment with ◄ / ►)



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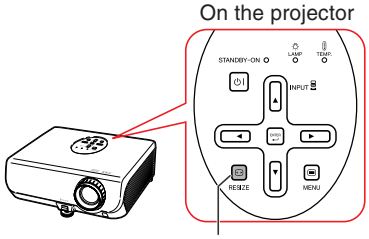
Resize Mode

This function allows you to modify or customize the resize mode to enhance the input image. Depending on the input signal, you can choose “STRETCH”, “SIDE BAR”, “CINEMA ZOOM” or “DOT BY DOT (Computer input only)” image.

Press ⊡ RESIZE on the projector or ⊡RESIZE on the remote control.

On the projector



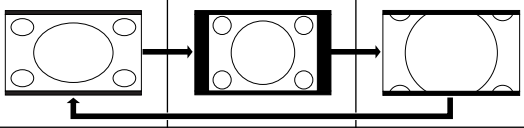
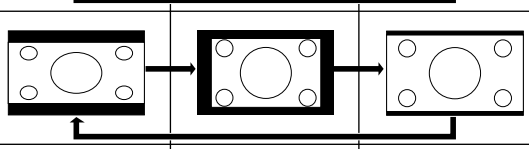
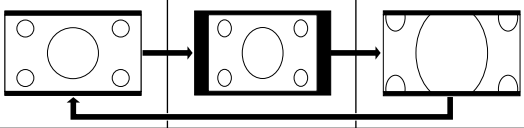
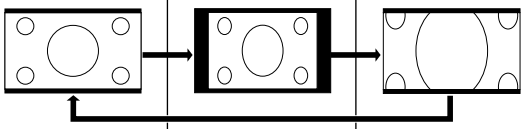
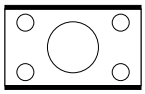
RESIZE button

On the remote control

RESIZE RESIZE button

VIDEO

• “STRETCH” is fixed when 540P, 720P or 1080I signals are entered.

Input Signal		Output screen image		
DVD / Video	Image type	STRETCH	SIDE BAR	CINEMA ZOOM
480I, 480P, 576I, 576P, NTSC, PAL, SECAM	4:3 aspect ratio			
	Letter box			
	Squeezed			
	16:9 aspect ratio			
540P, 720P, 1080I	16:9 aspect ratio		—	—

■ : Cutout area on which images cannot be projected.

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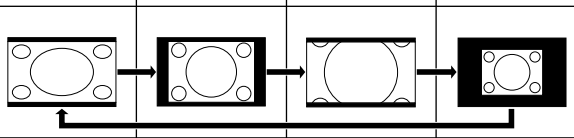
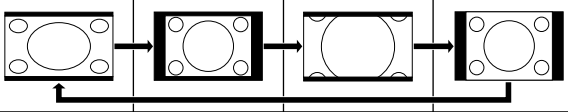
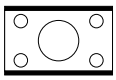
Computer

Input Signal		Output screen image			
Computer	Image type	STRETCH	SIDE BAR	CINEMA ZOOM	DOT BY DOT
Resolution lower than XGA	4:3 aspect ratio				
XGA (1024×768)	4:3 aspect ratio				
1280×720	16:9 aspect ratio		———	———	———

■ : Cutout area on which images cannot be projected.

About Copyrights

- When using the RESIZE function to select an image size with a different aspect ratio to a TV program or video image, the image will look different from its original appearance. Keep this in mind while choosing an image size.
- The use of the Resize, Keystone Correction, Subtitle, or Overscan function to compress or stretch the image for commercial purposes/public displays in a café, hotel, etc. may be an infringement of copyright protected by law for copyright holders. Please use caution.
- While watching non-widescreen images (4:3), if you use the RESIZE function to fill the screen or use the Overscan function to change the aspect ratio of a fixed-ratio input signal, parts of the outer edge of the image will be cut off or distorted. To watch original images as the producers intended, set RESIZE to “SIDE BAR” and Overscan to its default setting.

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Operating with the Remote Control

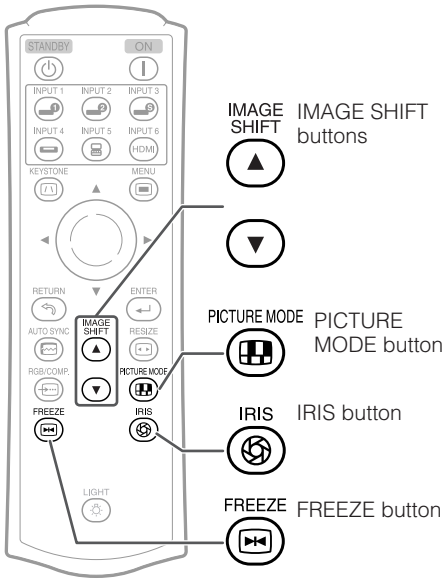
Shifting the Projected Image Vertically (Image Shift)

For easier viewing, this function shifts the entire image projected on the screen up or down when projecting 16:9 images from DVD players or other connected devices.

Press ▲IMAGE SHIFT.
• The image moves up.

Press ▼IMAGE SHIFT.
• The image moves down.

Note
• The Image Shift function operates when "Resize" is not set to "DOT BY DOT".
• For details on Image Shift, see page **47**.



Switching the Iris Setting

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

Press ⊛IRIS.
• Each time the button is pressed while the display is on, the mode is switched in the following order:

HIGH BRIGHTNESS MODE → MEDIUM MODE → HIGH CONTRAST MODE →

Note
• For details on Iris, see page **45**.

Freezing a Moving Image

1 **Press ⊛FREEZE.**
• The projected image is frozen.

2 **Press ⊛FREEZE again to return to the moving image from the currently connected device.**

Selecting the Picture Mode

You can select the appropriate picture mode to best match the projected image you are watching.

Press ⊛PICTURE MODE.
• When pressing ⊛PICTURE MODE, the picture mode changes in the following order:

Standard → Natural → Dynamic → Movie1 → Movie2 → Memory →

Note
• See page **43** for details on the picture mode.

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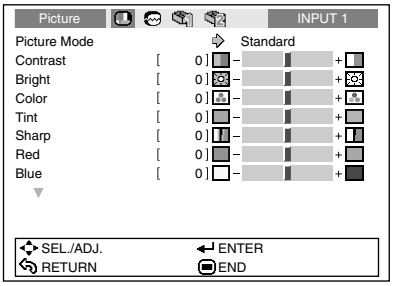
Menu Items

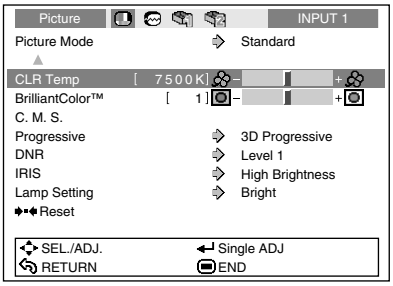
The following shows the items that can be set in the projector.
The selectable items vary depending on the selected input, input signals, or adjustment values. Items that cannot be selected will be greyed out.

"Picture" menu

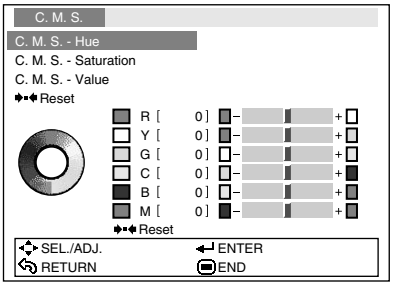
PAGE 1

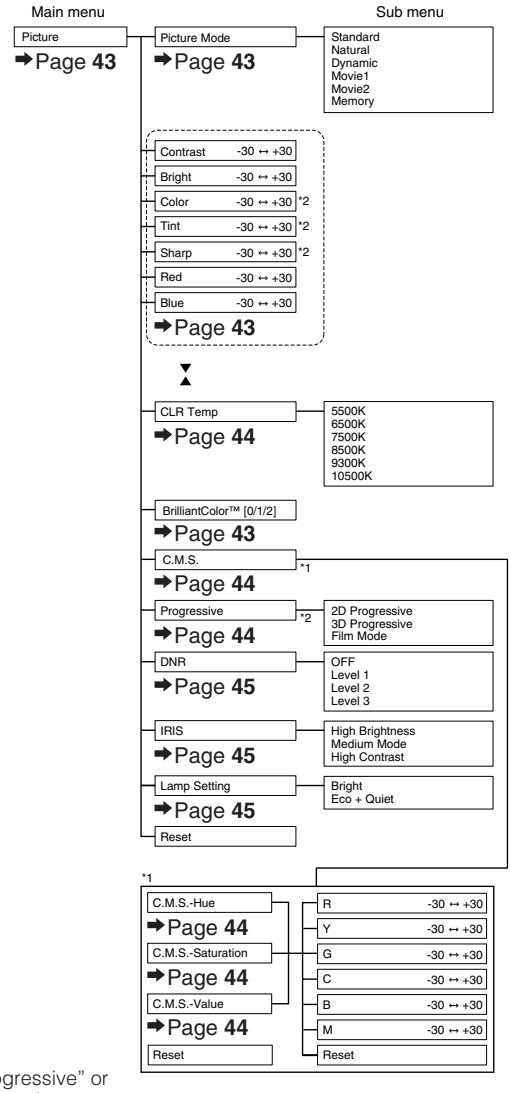


PAGE 2



"C.M.S."





*1 When the Progressive mode is set to "3D Progressive" or "Film Mode", the C.M.S. function cannot be used.
*2 Item that cannot be set when inputting an RGB signal through INPUT 5 or INPUT 6.

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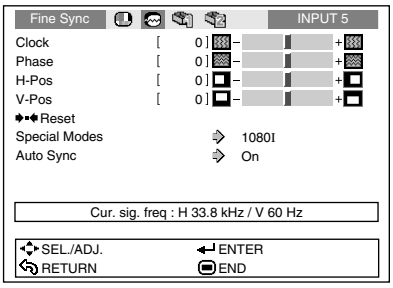
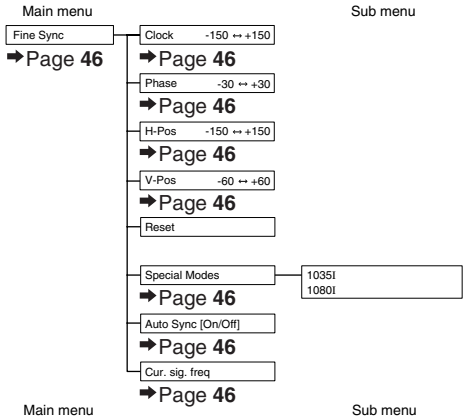
Menu Items (Continued)

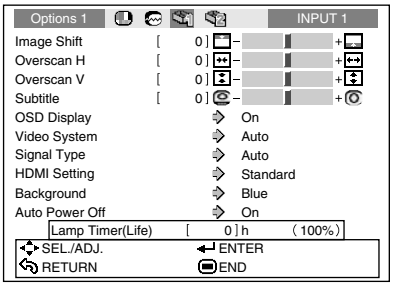
"Fine Sync" menu



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

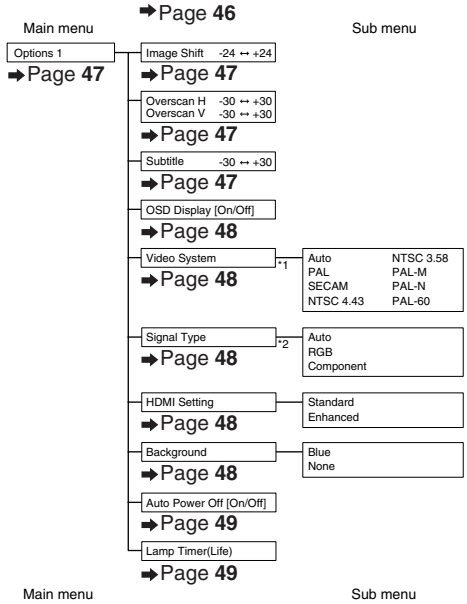


"Options1" menu

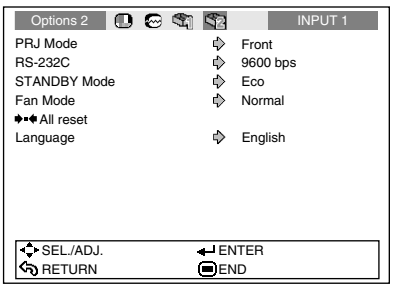


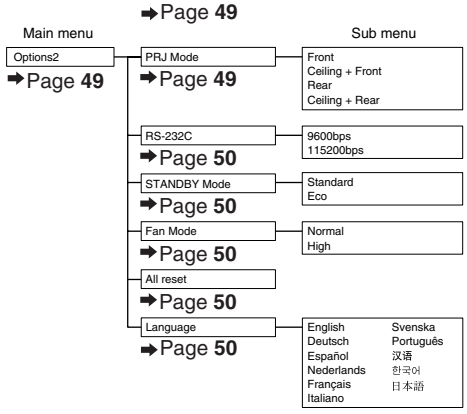
*1 Item that can be set when using INPUT 3 or INPUT 4.

*2 Item that can be set when using IINPUT 5 or INPUT 6.



"Options2" menu





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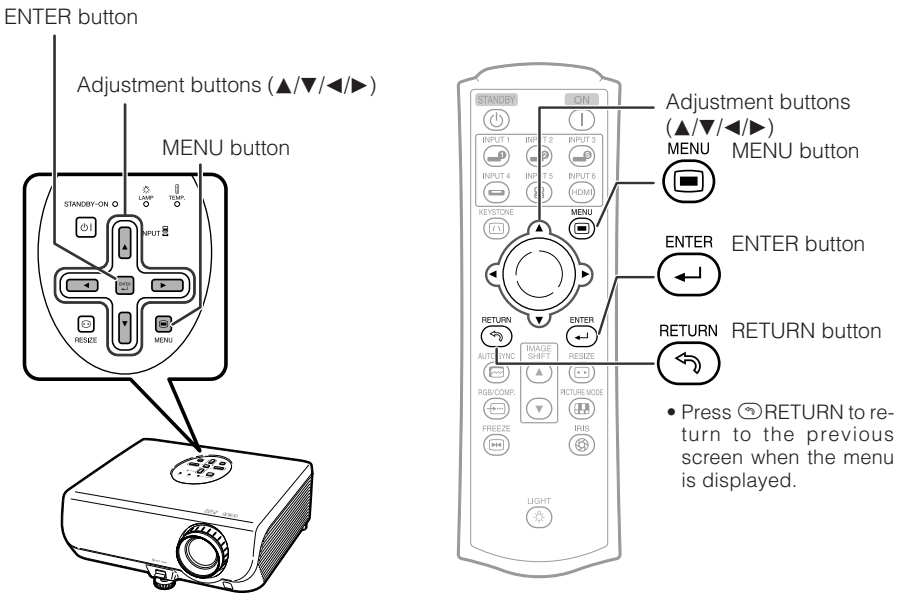
Using the Menu Screen



Menu Selections (Adjustments)

Example: Adjusting “Bright”.

• 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 select the menu icon to adjust.**

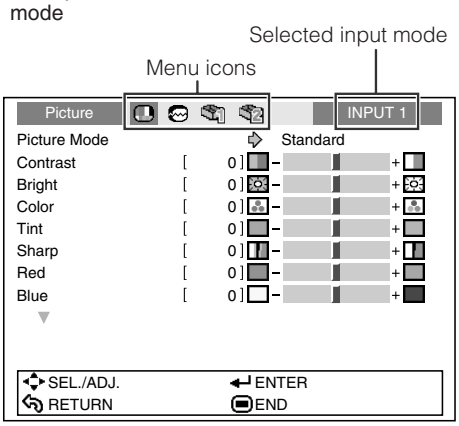
• The selected icon is highlighted.

Menu icon	Menu screen
	Picture
	Fine Sync
	Options1
	Options2

Note

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

Example: “Picture” screen menu for INPUT 1 mode



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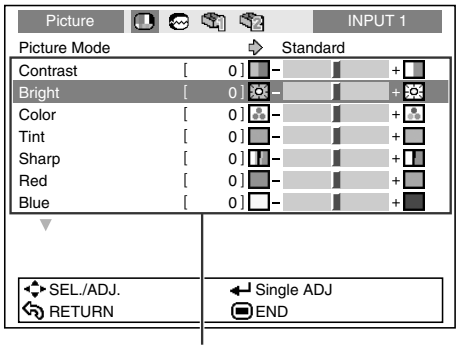
Using the Menu Screen (Continued)

3 **Press ▲ or ▼ to select the item to adjust.**

• The selected item is highlighted.



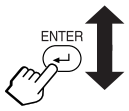
Items to be adjusted

To adjust the projected image while watching it

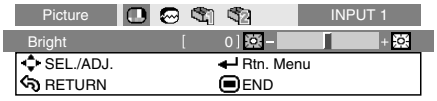
Press ↵ENTER.

• The selected item (e.g. "Bright") is displayed by itself at the bottom of the screen.

• When pressing ▲ or ▼, the following item ("Color" after "Bright") will be displayed.



The item displayed by itself

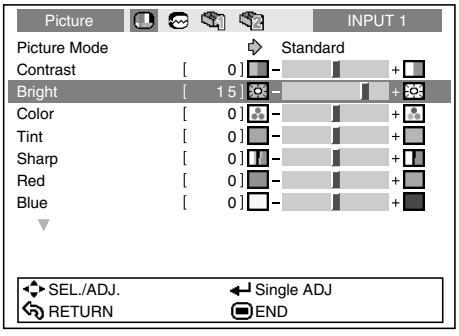


Note

• Press ↵ENTER again 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.

Note

• The ▭ MENU button does not function while the projector is operating the "Auto Sync" or "FREEZE" functions.

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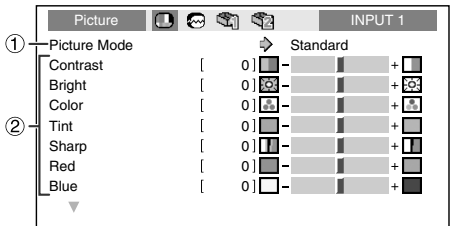
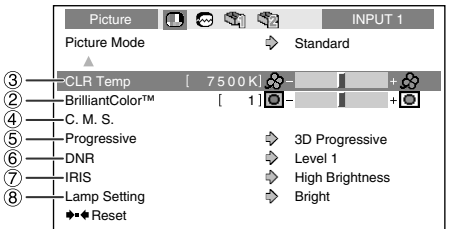
Picture Adjustment (“Picture” menu)

Menu operation ➔ Page **41**

► PAGE 1



► PAGE 2



① Selecting the Picture Mode

Selectable items	Description	The default settings of each item when selecting Picture Mode			
		CLR Temp	BrilliantColor™	IRIS	Lamp Setting
Standard	For standard image	7500K	0	High Brightness	Bright
Natural	A balanced color image is obtained.	7500K	0	High Brightness	Bright
Dynamic	A vivid image is obtained.	7500K	2	High Brightness	Bright
Movie1	Makes the black levels of the dark portions of the screen more pronounced and vivid.	6500K	0	High Brightness	Eco + Quiet
Movie2	Reduces glare and creates a subdued tone.	6500K	0	Medium Mode	Eco + Quiet
Memory	Allows you to store your picture adjustment settings. The settings stored effect each input mode.	7500K	0	High Brightness	Bright

• You can set or adjust each item in the “Picture” menu to your preference. Any changes you make are retained in memory.

Note • You can also press ⓜ PICTURE MODE on the remote control to select the picture mode. (See page **38**.)

② Adjusting the Image

Adjustment items	◄ button	► button
Contrast	For less contrast.	For more contrast.
Bright	For less brightness.	For more brightness.
Color*1	For less color intensity.	For more color intensity.
Tint*1	For making skin tones purplish.	For making skin tones greenish.
Sharp*1	For less sharpness.	For more sharpness.
Red	For weaker red.	For stronger red.
Blue	For weaker blue.	For stronger blue.
BrilliantColor™*2	For making the effect weaker.	For making the effect stronger.

*1 Item that cannot be adjusted in RGB mode.
*2 BrilliantColor™ uses Texas Instruments‘ BrilliantColor™ technology. As the BrilliantColor™ level is increased, the image becomes brighter while the color reproduction is kept at a high level.

Note • To reset all adjustment items, select “Reset” and press ↵ENTER. The Picture Mode settings of the selected input return to the default settings.

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Menu operation ➔ Page 41

③ Adjusting the Color Temperature

Selectable items	Description
5500K 6500K 7500K 8500K 9300K 10500K	For lower color temperature for warmer, reddish incandescent-like images. ▲ ▼ For higher color temperature for cooler, bluish, fluorescent-like images.

Note

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

④ Adjusting the Colors

Select “C.M.S.” (Color Management System) in the “Picture” menu and then press ↵ ENTER.

This function adjusts each of the six main colors that comprise the color wheel, altering their “Hue”, “Saturation”, or “Value”.

Selectable items	Description
C.M.S.-Hue	Sets the hue of the main colors.
C.M.S.-Saturation	Sets the saturation of the main colors
C.M.S.-Value	Sets the brightness of the main colors.
Reset	The adjustments of “Hue”, “Saturation” and “Value” of all colors are reset to the default setting.

Adjusting “Hue”, “Saturation”, or “Value”.

1 Press ▲ or ▼ to select either “Hue”, “Saturation”, or “Value” and then press ↵ ENTER.

2 Select the color to be adjusted with ▲ or ▼ and adjust it with ◄ or ►.

Example of adjusting the “Hue”

Main colors	◄ button	► button
R (Red)	Closer to magenta	Closer to yellow
Y (Yellow)	Closer to red	Closer to green
G (Green)	Closer to yellow	Closer to cyan
C (Cyan)	Closer to green	Closer to blue
B (Blue)	Closer to cyan	Closer to magenta
M (Magenta)	Closer to blue	Closer to red

- When “Saturation” is selected, the selected color becomes
  ◄: lighter. ►: thicker.
- When “Value” is selected, the selected color becomes
  ◄: darker. ►: brighter.
- To reset the adjustment values of each color to the default settings, select “Reset” and press ↵ ENTER.

Info

- When the Progressive mode is set to “3D Progressive” or “Film Mode”, the C.M.S. function cannot be used.

⑤ Progressive

Selectable items	Description
2D Progressive	Useful to display fast-moving images such as sports.
3D Progressive	Useful to display relatively slow-moving images such as drama and documentary more clearly.
Film Mode	Reproduces the image of film source* clearly. Displays the optimized image of film transformed with three-two pull down (NTSC and PAL60Hz) or two-two pull down (PAL50Hz and SECAM) enhancement to progressive mode images.

* The film source is a digital video recording with the original encoded as is at 24 frames/second. The projector can convert this film source to progressive video at 60 frames/second with NTSC and PAL60Hz or at 50 frames/second with PAL50Hz and SECAM to play back a high-definition image.

Note

- In NTSC or PAL60Hz, even if the 3D Progressive mode has been set, the three-two pull down enhancement will be enabled automatically when the film source has been entered.
- When the image is blurred or noisy, switch to the optimal mode.
- When using progressive inputs, inputs are directly displayed so that 2D Progressive, 3D Progressive and Film Mode cannot be selected.

Info

- The settings can be made either when INPUT3 or INPUT4 are selected or when INPUT1, 2, INPUT5, or INPUT6 are selected and the input signal is 480I, 576I, or 1080I.

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⑥ Reducing Image Noise (DNR)

Video digital noise reduction (DNR) provides high quality images with minimal dot crawl and cross color noise.

Selectable items	Description
OFF	DNR does not function.
Level 1-3	Sets the DNR level for viewing a clearer picture.

Note

Set "DNR" to "OFF" in the following cases:

- When the image is blurry.
- When the contours and colors of moving images drag.
- When TV broadcasts with weak signals are projected.

Info

- This function is available for 480I, 480P, 576I, and 576P signals using INPUT 1, 2, 5 or 6.

⑦ Switching the Iris Setting

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

Selectable items	Description
High Brightness	High brightness is given priority over high contrast.
Medium Mode	Intermediate mode between high contrast and high brightness.
High Contrast	High contrast is given priority over high brightness.

Note

- You can also use ⑱ IRIS on the remote control to change the Iris. (See page **38**.)

⑧ Lamp Setting

Selectable items	Brightness	Fan sound	Power consumption (When using AC 100V)	Lamp Life
Eco + Quiet	Approx. 87%	Low	310W	Approx. 3,000 hours
Bright	100%	Normal	355W	Approx. 2,000 hours

Note

- When "Lamp Setting" is set to "Eco+Quiet", the power consumption will decrease and the lamp life will extend. (Projection brightness decreases approximately 13%.)

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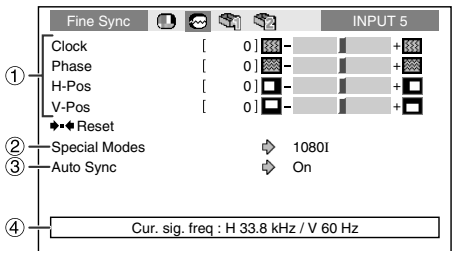
Computer Image Adjustment ("Fine Sync" menu)

Menu operation ➔ Page **41**



① Adjusting the Computer Image

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

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" in the "Fine Sync" menu to "On" or pressing AUTO SYNC on the remote control.
- "Clock", "Phase", "H-Pos" and "V-Pos" cannot be adjusted when INPUT 6 is selected.
- The adjustable area of each item may be changed according to the input signal.
- To reset all adjustment items, select "Reset" and press ENTER.

② 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" in the "Fine Sync" menu may need to be selected to match the computer display mode.

Note

- Avoid displaying computer patterns which repeat every other line (horizontal stripes). (Flickering may occur, making the image hard to see.)
- Information on the currently selected input signal can be confirmed in item ④.

③ Auto Sync (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.

④ Checking the Input Signal

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

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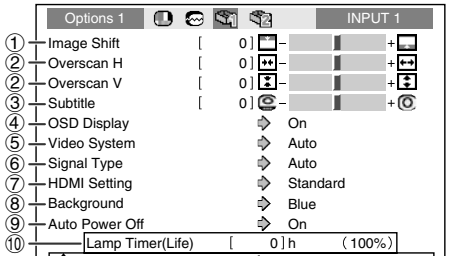
Using the “Options” Menu

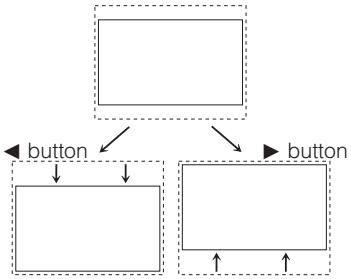
Menu operation ➔ Page **41**



Settings on the Options 1 menu

① Adjusting the Image Position

You can move the projected image vertically.



Note

- The Image Shift function cannot be selected when “Resize” is set to “DOT BY DOT”.
- You can also use the IMAGE SHIFT buttons on the remote control to adjust the image position.

② Adjusting the Overscan

This function allows you to adjust the Overscan area ratio (display area ratio).

Orientation	◀ button	▶ button
Overscan H (Horizontal)	Reduces the image. (The display area ratio becomes larger.)	Enlarges the image. (The display area ratio becomes smaller.)
Overscan V (Vertical)		

Note

- This function can only be adjusted when a video, S-video, or Component signal is input.
- If the display area ratio is set too large, noise may appear at the screen edges. If this happens, set the display area ratio to a smaller value.
- The adjustment area changes according to the input signal when “Resize” is set to “CINEMA ZOOM”.
- Also read “About Copyrights” on page **37**.

③ Adjusting the Vertical Size of the Display (Subtitle Setting)

With this function, you can adjust the vertical size of the display to allow for subtitles.

◀ button	The image is compressed by adjusting the vertical size of the display.
▶ button	The image is enlarged by adjusting the vertical size of the display.

Note

- When changing the screen with the Subtitle setting, not only the bottom of the screen rises, but also the upper part is changed to a certain point.
- The Subtitle setting can be adjusted more effectively with the Overscan and Image Shift functions.
- The Subtitle setting only works when “Resize” is set to “CINEMA ZOOM”.
- The adjustment area changes according to the input signal.

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Menu operation ➔ Page **41**

④ Setting On-screen Display

Selectable items	Description
On	All On-screen Displays are displayed.
Off	INPUT/FREEZE/AUTO SYNC/RESIZE/ PICTURE MODE are not displayed.

⑤ Setting the Video System

This function can only be set in INPUT 3 or INPUT 4.

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.

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

⑥ Signal Type Setting

This function allows you to select the input signal type (RGB or Component) for INPUT 5 or INPUT 6.

Selectable items	Description
Auto	Automatically selects the appropriate input signal between RGB and Component.
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 (INPUT 5 or INPUT 6).

⑦ Selecting the HDMI Setting

When there is an HDMI-capable device connected to INPUT 6, an optimum picture may not be displayed if the device’s output signal type and the projector’s input signal type do not match. If this should occur, switch the HDMI Setting.

Selectable items	Description
Standard	When the black levels of the image show banding or appear faded, select the option that results in the best picture quality. (In most circumstances, “Standard” should be selected.)
Enhanced	

Note

- The HDMI Setting can be selected only when INPUT 6 is selected.

⑧ Selecting the Background Image

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

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Menu operation ➔ Page **41**

⑨ Auto Power Off Function

Selectable items	Description
On	When no input signal is detected for more than 15 minutes, the projector will automatically enter standby mode.
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 standby mode, the message "Enter STANDBY mode in X min." will appear on the screen to indicate the remaining minutes.

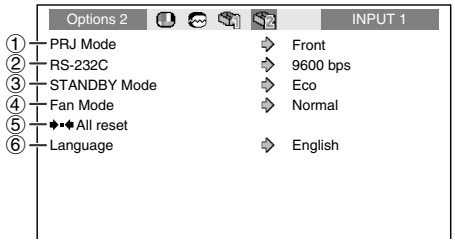
⑩ Checking the Lamp Life Status

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

Lamp usage condition	Remaining lamp life	
"Life"	100%	5%
Operated exclusively with Lamp Setting set to "Eco + Quiet"	Approx. 3,000 hours	Approx. 150 hours
Operated exclusively with Lamp Setting set to "Bright"	Approx. 2,000 hours	Approx. 100 hours

Note

- It is recommended that the lamp be changed when the remaining lamp life becomes 5%.
- The lamp life may vary depending on the usage condition.



Settings on the Options 2 menu

① Reversing/Inverting Projected Images

Selectable items	Description
Front	Normal image (Projected from the front of the screen)
Ceiling + Front	Inverted image (Projected from the front of the screen with an inverted projector)
Rear	Reversed image (Projected from the rear of the screen or with a mirror)
Ceiling + Rear	Reversed and inverted image (Projected with a mirror)

See page **19** for details of Projection (PRJ) Mode.

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Menu operation ➔ Page **41**

② Selecting the Transmission Speed (RS-232C)

Make sure that both the projector and computer are set for the same baud rate.

Selectable items	Description
9600bps	Transmission speed is slow. ↕
115200bps	Transmission speed is rapid.

③ Reducing the Power Consumption When the Power Is in Standby Mode

When “STANDBY Mode” has been set to “Standard”, the RS-232C function is activated and power is consumed even in standby mode. It is recommended that “STANDBY Mode” be set to “Eco” when it is not being used. This reduces power consumption when the projector is in standby mode.

Selectable items	Description
Standard	The RS-232C function is activated even if the projector is in standby mode.
Eco	The RS-232C function is switched off when the projector is in standby mode.

Note

- When you want to control the projector using the RS-232C function, set to “Standard”.

④ Fan Mode Setting

This function changes the fan rotation speed.

Selectable items	Description
Normal	Suitable for normal environments.
High	Select this when using the projector at altitudes of approximately 4,900 feet (1,500 meters) or more.

When “Fan Mode” is set to “High”, the fan rotation speeds up, and the fan noise becomes louder.

⑤ Returning to the Default Settings

Use “All reset” to initialize all the adjustments you have made to the default settings.

Note

The following items cannot be initialized.

- “Fine Sync” menu
  – Special Modes
- “Options1” menu
  – Lamp Timer (Life)
  – Language

⑥ Selecting the On-screen Display Language

The projector can switch the on-screen display language among 11 languages.

English	Svenska
Deutsch	Português
Español	汉语
Nederlands	한국어
Français	日本語
Italiano	

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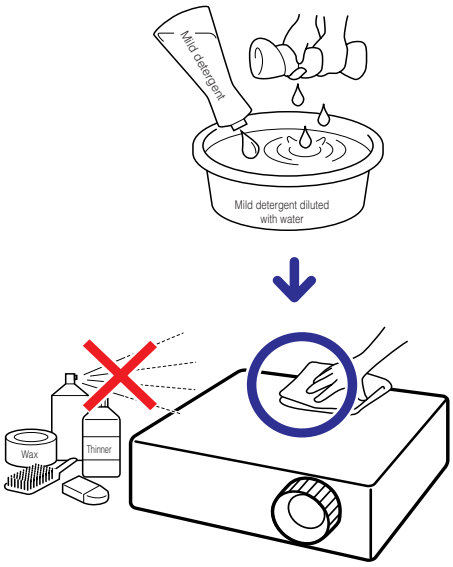
Maintenance

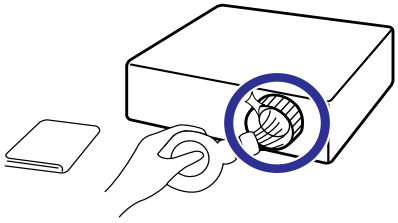
Cleaning the projector

- 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.



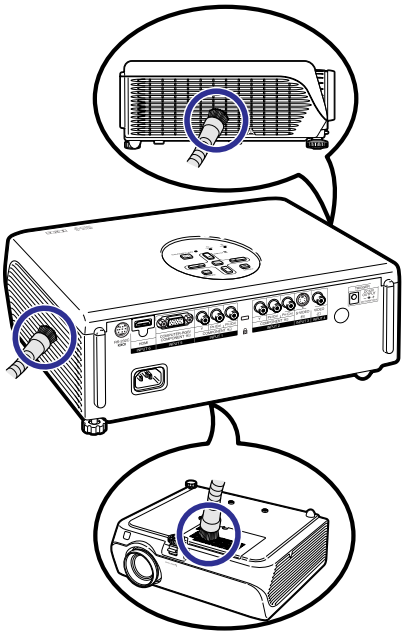
Cleaning the lens

- 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, be sure to 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, clean the vents.

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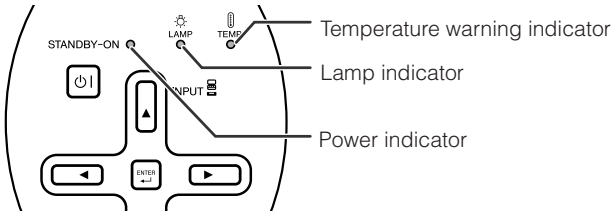
Maintenance Indicators

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

Top View



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, and then the projector will enter standby mode. After "TEMP." appears, be sure to perform the measures described on page **53**.

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 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.**

Indicators on the Projector

Power indicator	Green on	Normal (Standby)
	Red on	Normal (Power on)
	Green blinks	Abnormal (See page **53**.)
	Red blinks	Normal (Cooling)
Lamp indicator	Green on	Normal
	Green blinks	The lamp is warming up or shutting down.
	Red on	The lamp is shut down abnormally or requires to be changed. (See page **53**.)
Temperature warning indicator	Off	Normal
	Red on	The internal temperature is abnormally high. (See page **53**.)

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Maintenance indicator			Problem	Cause	Possible Solution
	Normal	Abnormal			
Tempera-ture 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 **8**)
				• Cooling fan breakdown • Internal circuit failure • Clogged air intake	• Take the projector to your nearest EIKI Authorized Dealer or Service Center for repair.
Lamp indicator	Green on (Green blinks when the lamp is warming up or turning off.)	Red on	The lamp does not illuminate.	• The lamp is shut down abnormally.	• 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 **55**.) • Take the projector to your nearest EIKI Authorized Dealer or Service Center for repair. • Please exercise care when replacing the lamp. • Securely install the cover.
		Red on (Standby)	The lamp does not illuminate.	• Burnt-out lamp • Lamp circuit failure	
Power indicator	Green on/ Red on Red blinks (Cooling)	Green blinks	The power indicator blinks in green when the projector is on.	• The lamp unit cover is open.	• If the power indicator blinks in green even when the lamp unit cover is securely installed, contact your nearest EIKI Authorized Dealer or Service Center for advice.

Info

- If the temperature warning indicator illuminates, and the projector enters standby mode, follow the possible solutions above and then 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.
- The cooling fan keeps the internal temperature of the projector constant and this function is controlled automatically. The sound of the cooling fan may change during operation because the fan speed may change and this is not a malfunction.
- Do not unplug the power cord after the projector has entered standby mode and while the cooling fan is running. The cooling fan runs for about 90 seconds.

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Regarding the Lamp

Lamp

■ It is recommended that the lamp (sold separately) 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 **49**)
■ Purchase a replacement lamp of type AH-11201 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, 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.
■ 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.

Replacing the Lamp

• Do not remove the lamp unit from the projector right after use. The lamp will be very hot and may cause burn or injury.

■ **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.

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Removing and Installing the Lamp Unit

Warning!

- The lamp unit becomes very hot while the projector is operating. 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 burns 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.

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.

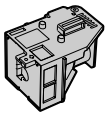
2 Disconnect the power cord.

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

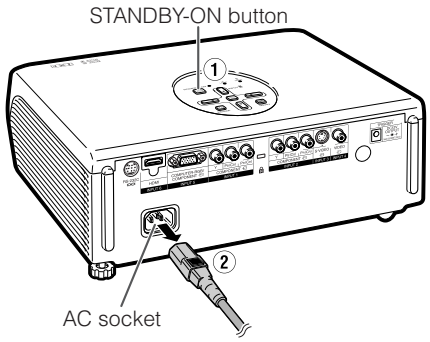
3 Remove the lamp unit cover.

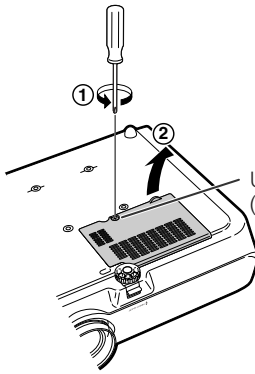
- Turn the projector over. Loosen the user service screw (①) that secures the lamp unit cover. Remove the lamp unit cover (②).

Optional accessory



Lamp unit
AH-11201





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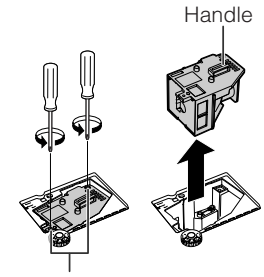
Regarding the Lamp (Continued)

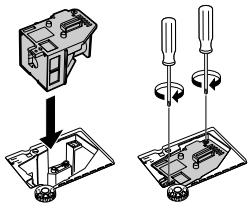
4 Remove the lamp unit.

- Loosen the 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.



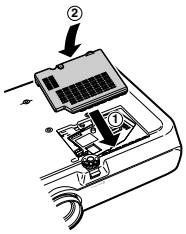
5 Insert the new lamp unit.

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



6 Replace the lamp unit cover.

- Align the tab on the lamp unit cover (①) and place it while pressing the tab (②) to close it. Then tighten the user service screw to secure the lamp unit cover.



Info

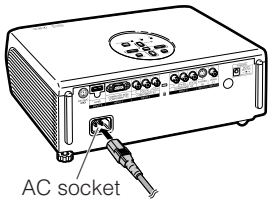
- If the lamp unit and lamp unit cover are not correctly installed, the power will not turn on, even if the power cord is connected to the projector.

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.

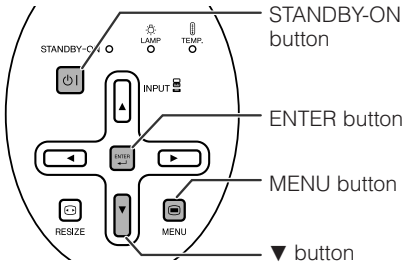


1 Connect the power cord.

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

2 Reset the lamp timer.

- While simultaneously holding down MENU, ENTER and ▼ on the projector, press STANDBY-ON on the projector.
- "LAMP 0000H" is displayed, indicating that the lamp timer is reset.



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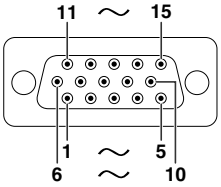
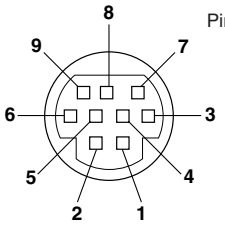
Connecting Pin Assignments

COMPUTER-RGB/COMPONENT INPUT5 Terminal: 15-pin Mini D-sub female connector



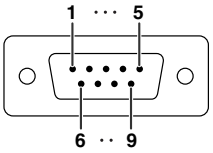
	COMPUTER-RGB Input	Component Input
1.	Video input (red)	P_R (C_R)
2.	Video input (green/sync on green)	Y
3.	Video input (blue)	P_B (C_B)
4.	Not connected	Not connected
5.	Not connected	Not connected
6.	Earth (red)	Earth (P_R)
7.	Earth (green/sync on green)	Earth (Y)
8.	Earth (blue)	Earth (P_B)
9.	Not connected	Not connected
10.	GND	Not connected
11.	Not connected	Not connected
12.	Bi-directional data	Not connected
13.	Horizontal sync signal: TTL level	Not connected
14.	Vertical sync signal: TTL level	Not connected
15.	Data clock	Not connected

RS-232C Terminal: 9-pin Mini DIN female connector



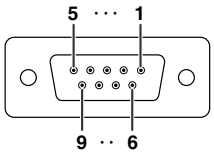
Pin No.	Signal	Name	I/O	Reference
1.				Not connected
2.	RD	Receive Data	Input	Connected to internal circuit
3.	SD	Send Data	Output	Connected to internal circuit
4.				Not connected
5.	SG	Signal Ground		Connected to internal circuit
6.				Not connected
7.	RS	Request to Send		Connected to CS in internal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

RS-232C Terminal: 9-pin D-sub male connector of the DIN-D-sub RS-232C adaptor



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.				Not connected
5.	SG	Signal Ground		Connected to internal circuit
6.				Not connected
7.	RS	Request to Send		Connected to CS in internal circuit
8.	CS	Clear to Send		Connected to RS in internal circuit
9.				Not connected

RS-232C Cable recommended connection: 9-pin D-sub female connector



Pin No.	Signal	Pin No.	Signal
1.	CD	1.	CD
2.	RD	2.	RD
3.	SD	3.	SD
4.	ER	4.	ER
5.	SG	5.	SG
6.	DR	6.	DR
7.	RS	7.	RS
8.	CS	8.	CS
9.	CI	9.	CI

Note

- Depending on the controlling device used, it may be necessary to connect Pin 4 and Pin 6 on the controlling device (e.g. computer).

Projector Pin No.	Computer Pin No.
4	4
5	5
6	6

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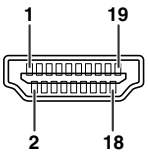
Connecting Pin Assignments (Continued)

HDMI Terminal



Pin No.	Name	Pin No.	Name	Pin No.	Name
1.	TMDS Data2+	8.	TMDS Data0 Shield	14.	Reserved
2.	TMDS Data2 Shield	9.	TMDS Data0-	15.	SCL
3.	TMDS Data2-	10.	TMDS Clock+	16.	SDA
4.	TMDS Data1+	11.	TMDS Clock Shield	17.	DDC/CEC Ground
5.	TMDS Data1 Shield	12.	TMDS Clock-	18.	+5V Power
6.	TMDS Data1-	13.	CEC	19.	Hot Plug Detect
7.	TMDS Data0+				

RS-232C Specifications and Command Settings

Computer control

A computer can be used to control the projector by connecting an RS-232C serial control cable (cross type, sold separately) 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/115,200 bps
Data length: 8 bits
Parity bit: None
Stop bit: 1 bit
Flow control: None
*** Set the projector's baud rate to the same rate as used by the computer.**

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 controlling the projector using RS-232C commands from a computer, wait for at least 30 seconds after the power has been turned on, and then transmit the commands.
- When more than one code is being sent, send each command only after the response code for the previous command from the projector is verified.

Commands

Example: When turning on the projector, make the following setting.

Computer → Projector

P	O	W	R	_	_	_	1	↵

O	K	↵

CONTROL CONTENTS	COMMAND				PARAMETER				RETURN
Power Off	P	O	W	R	_	_	_	0	OK or ERR
Power On	P	O	W	R	_	_	_	1	OK or ERR
INPUT 1 (Video1 : Component1)	I	V	E	D	_	_	_	1	OK or ERR
INPUT 2 (Video2 : Component2)	I	V	E	D	_	_	_	2	OK or ERR
INPUT 3 (Video3 : S-Video)	I	V	E	D	_	_	_	3	OK or ERR
INPUT 4 (Video4 : Video)	I	V	E	D	_	_	_	4	OK or ERR
INPUT 5 (RGB1 : RGB/Component)	I	R	G	B	_	_	_	1	OK or ERR
INPUT 6 (RGB2 : RGB/Component)	I	R	G	B	_	_	_	2	OK or ERR

Note

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

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Computer Compatibility Chart

Computer

- Multiple signal support
  Horizontal Frequency: 15-70 kHz,
  Vertical Frequency: 45-85 Hz,
  Pixel Clock: 12-85 MHz
  Sync signal: Compatible with TTL level
- Compatible with sync on green signal
- Expansion System resizing technology

The following is a list of modes that conform to VESA. However, this projector supports other signals that are not VESA standards.

PC/MAC	Resolution		Horizontal Frequency (kHz)	Vertical Frequency (Hz)	VESA Standard	HDMI Support	Display
PC	VGA	640 × 350	27.0	60			Upscale
			31.5	70			
			37.5	85	✔		
		640 × 400	27.0	60			
			31.5	70			
			37.9	85	✔		
		720 × 350	27.0	60			
			31.5	70			
		720 × 400	27.0	60			
			31.5	70			
			37.9	85	✔		
		640 × 480	26.2	50			
			31.5	60	✔	✔	
			34.7	70			
			37.9	72	✔		
			37.5	75	✔		
			43.3	85	✔		
	SVGA	800 × 600	31.4	50			
			35.1	56	✔		
			37.9	60	✔		
			46.6	70			
			48.1	72	✔		
			46.9	75	✔		
			53.7	85	✔		
	XGA	1,024 × 768	40.3	50			True
			48.4	60	✔		
			56.5	70	✔		
			60.0	75	✔		
	—	1,280 × 720	45.0	60			
		1,280 × 768	47.8	60			
MAC 13"	VGA	640 × 480	34.9	67			Upscale
MAC 16"	SVGA	800 × 600	37.8	60			
		832 × 624	49.7	75			
MAC 19"	XGA	1,024 × 768	60.2	75			True

Note

- When this projector receives 640 × 350 VESA format VGA signals, “640 × 400” appears on the screen.

DTV

Signal	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	HDMI 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	✓
1035I	28.1	50	
1035I	33.8	60	
1080I	28.1	50	✓
1080I	33.8	60	✓

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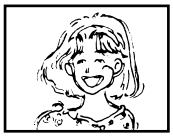
Troubleshooting

Problem	Check	Page
Picure does not appear or projector does not start.	• 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 incorrectly connected to the projector.	**23–27**
	• Remote control battery has run out.	**14**
	• External output has not been set when connecting notebook computer.	**26**
	• The lamp unit cover is not installed correctly.	**55, 56**
No picture appears (or picture is dark).	• Cables incorrectly connected to the projector.	**23–27**
	• “Bright” is set to minimum position.	**43**
	• 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 how to switch its signal output settings.	–
Color is faded or poor.	• Image adjustments are incorrectly set. • Make adjustments to “Color”, “Tint” and “BrilliantColor™” in “Picture Mode”.	**43**
	(Video Input only) • Video input system is incorrectly set.	**48**
 Picture is blurred; noise appears.	• Adjust the focus.	**30**
	• The projection distance exceeds the focus range.	**20**
	• There is fog on the lens. If the projector is carried from a cold room into a warm room, or if it is suddenly heated, condensation may form on the surface of the lens and the image will become blurred. Please set up the projector at least one hour before it is to be used. If condensation should form, remove the power cord from the wall outlet and wait for it to clear.	–
	(Computer Input only) • Perform “Fine Sync” Adjustments (“Clock” Adjustment) • Perform “Fine Sync” Adjustments (“Phase” Adjustment) • Noise may appear depending on the computer.	 **46** **46** –
Picture is green on INPUT 5 (Component)/ INPUT 6 (Component). Picture is pink (no green) on INPUT 5 (RGB)/INPUT 6 (RGB).	• Select “Signal Type” in the “Options1” menu and change the input signal type.	**48**
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 on the projector illuminates.	• See “Maintenance Indicators”.	**52**

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Problem	Check	Page
Picture is too bright and whitish.	• Image adjustments are incorrectly set.	**43**
The black levels of the image show banding or appear faded when INPUT 6 is selected.	• Select the HDMI Setting (“Standard” or “Enhanced”) that results in the best picture quality.	**48**
The cooling fan becomes noisy.	• When temperature inside the projector increases, the cooling fan runs faster.	–
The lamp does not light up even after the projector turns on.	• The lamp indicator is illuminating in red. Replace the lamp.	**52, 55**
The lamp suddenly turns off during projection.		
The image sometimes flickers.	• Cables incorrectly connected to the projector or the connected equipment works improperly. • If this happens frequently, replace the lamp.	**23-27** **55**
The lamp needs much time to turn on.	• The lamp will eventually need to be changed. While the remaining lamp life draws to a close, replace the lamp.	**55**
Picture is dark.		
The remote control cannot be used.	• Operate the remote control while pointing it at the projector’s remote control sensor. • The remote control may be too far away from the projector. • If direct sunlight or a strong fluorescent light is shining on the projector’s remote control sensor, place the projector where it will not be affected by strong light.	**15**
	• The batteries may be depleted or inserted incorrectly. Make sure the batteries are inserted correctly or insert new ones.	**14**

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

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Specifications

Product type	Projector
Model	EIP-1600T
Video system	NTSC3.58/NTSC4.43/PAL/PAL-M/PAL-N/PAL-60/SECAM/DTV480I/DTV480P/DTV540P/DTV576I/DTV576P/DTV720P/DTV1035I/DTV1080I/DTV1080I-50
Display method	Single Chip Digital Micromirror Device™ (DMD™) by Texas Instruments
DMD panel	Panel size: 0.65″, 1chip DMD Drive method: Digital Light Processing (DLP™) No. of dots: 983,040 dots (1280 [H] × 768 [V])
Lens	1–1.15 × zoom lens, F2.4–2.6, f = 19.0–21.9 mm
Projection lamp	275 W DC lamp
Component input signal (INPUT1/2)	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
S-video input signal (INPUT 3)	4-pin mini DIN connector Y (luminance signal): 1.0 Vp-p, sync negative, 75 Ω terminated C (chrominance signal): Burst 0.286 Vp-p, 75 Ω terminated
Video input signal (INPUT 4)	RCA connector: VIDEO, composite video, 1.0 Vp-p, sync negative, 75 Ω terminated
Computer RGB/ Component input signal (INPUT 5)	15-pin mini D-sub connector RGB separate/sync on green type analog input: 0–0.7 Vp-p, positive, 75 Ω terminated HORIZONTAL SYNC. SIGNAL: TTL level (positive/negative) VERTICAL SYNC. SIGNAL: Same as above
HDMI input signal (INPUT 6)	HDMI terminal (video signal only)
Horizontal resolution	720 TV lines (DTV720P)
Vertical frequency	45–85 Hz
Horizontal frequency	15–70 kHz
Pixel clock	12–85 MHz
RS-232C terminal	9-pin mini DIN connector
TRIGGER terminal	Power jack: DC 12V output
Rated voltage	AC 100–240 V
Input current	3.7 A
Rated frequency	50/60 Hz
Power consumption	355 W (Lamp Setting “Bright”)/ 310 W (Lamp Setting “Eco + Quiet”) with AC 100 V 340 W (Lamp Setting “Bright”)/ 300 W (Lamp Setting “Eco + Quiet”) with AC 240 V
Power consumption (standby)	4 W (AC 100 V) – 5 W (AC 240 V)*1
Heat dissipation	1,335 BTU/hour (Lamp Setting “Bright”)/ 1,165 BTU/hour (Lamp Setting “Eco + Quiet”) with AC 100 V 1,280 BTU/hour (Lamp Setting “Bright”)/ 1,130 BTU/hour (Lamp Setting “Eco + Quiet”) with AC 240 V
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 $^{13}/_{32}$″ × 4 $^{19}/_{64}$″ × 11 $^{1}/_{32}$″ (315 (W) × 109 (H) × 280 (D) mm) (main body only) 12 $^{13}/_{32}$″ × 4 $^{47}/_{64}$″ × 11 $^{37}/_{64}$″ (315 (W) × 120 (H) × 294 (D) mm) (including adjustment foot and projecting parts)
Weight (approx.)	8.8 lbs. (4.0 kg)
Replacement parts	Remote control, Power cord for U.S. and Canada, etc., Power cord for Europe, except U.K., Video cable, DIN-D-sub RS-232C adaptor, Quick Guide, Owner’s manual

*1 When STANDBY Mode is set to “Eco”

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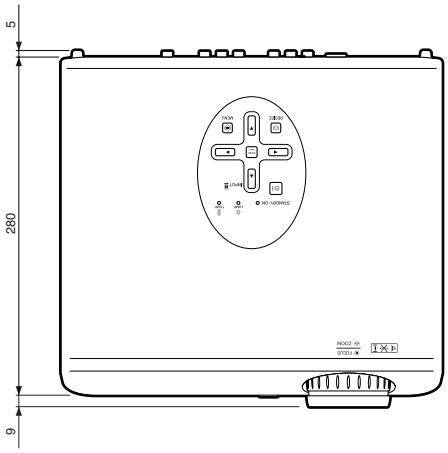
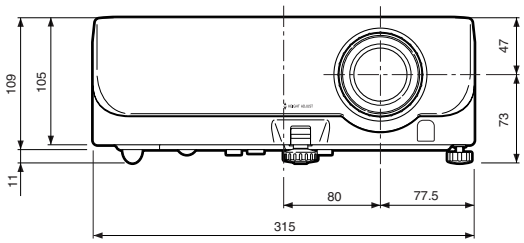
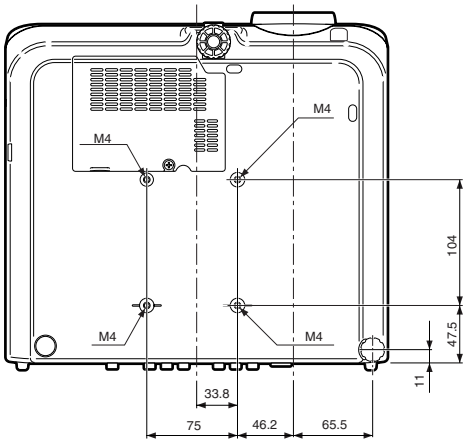
Dimensions

Units: inches (mm)







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