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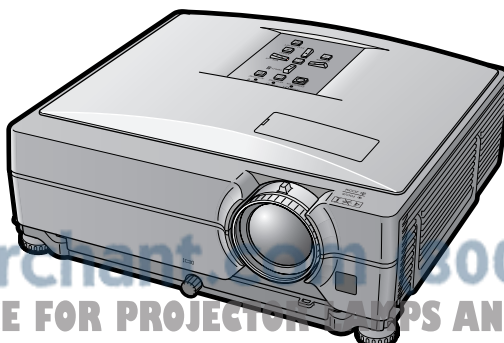
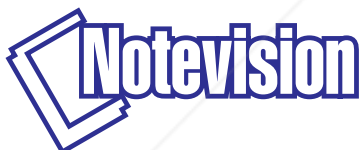
DATA PROJECTOR

MODEL

XG-C455W

PG-C355W

OPERATION MANUAL



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THE TRUSTED SOURCE FOR PROJECTOR SLIDES AND ACCESSORIES

 PLink™

Introduction

Quick Start

Setup

Connections

Basic Operation

Useful Features

Appendix



IMPORTANT

- For your assistance in reporting the loss or theft of your Projector, please record the Model and Serial Numbers 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.:

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 10A socket outlet, as a serious electric shock may occur.

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

WARNING:


THIS APPARATUS MUST BE EARTHED.

IMPORTANT:

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

Green-and-yellow : Earth / Blue : Neutral / Brown : Live

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

- The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol  or coloured green or green-and-yellow.
- The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
- The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF YOU HAVE ANY DOUBT, CONSULT A QUALIFIED ELECTRICIAN.

The supplied CD-ROM contains operation instructions in English, German, French, Spanish, Italian, Dutch, Swedish, Portuguese, Chinese and Korean. Carefully read through the operation instructions before operating the projector.

Die mitgelieferte CD-ROM enthält Bedienungsanleitungen in Englisch, Deutsch, Französisch, Spanisch, Italienisch, Niederländisch, Schwedisch, Portugiesisch, Chinesisch und Koreanisch. Bitte lesen Sie die Bedienungsanleitung vor der Verwendung des Projektors sorgfältig durch.

Le CD-ROM fourni contient les instructions de fonctionnement en anglais, allemand, français, espagnol, italien, néerlandais, suédois, portugais, chinois et coréen. Veuillez lire attentivement ces instructions avant de faire fonctionner le projecteur.

El CD-ROM suministrado contiene instrucciones de operación en inglés, alemán, francés, español, italiano, holandés, sueco, portugués, chino y coreano. Lea cuidadosamente las instrucciones de operación antes de utilizar el proyector.

Il CD-ROM in dotazione contiene istruzioni per l'uso in inglese, tedesco, francese, spagnolo, italiano, olandese, svedese, portoghese, cinese e coreano. Leggere attentamente le istruzioni per l'uso prima di usare il proiettore.

De meegeleverde CD-ROM bevat handleidingen in het Engels, Duits, Frans, Spaans, Italiaans, Nederlands, Zweeds, Portugees, Chinees en Koreaans. Lees de handleiding zorgvuldig door voor u de projector in gebruik neemt.

Den medföljande CD-ROM-skivan innehåller bruksanvisningar på engelska, tyska, franska, spanska, italienska, holländska, svenska, portugisiska, kinesiska och koreanska. Läs noga igenom bruksanvisningen innan projektorn tas i bruk.

O CD-ROM fornecido contém instruções de operação em Inglês, Alemão, Francês, Espanhol, Italiano, Holandês, Sueco, Português, Chinês e Coreano. Leia cuidadosamente todas as instruções de operação antes de operar o projetor.

附送之CD-ROM光碟中，有用英文、德文、法文、西班牙文、意大利文、荷蘭文、瑞典文、葡萄牙文、中文和韓國文所寫的使用說明書。在操作本投影機之前，請務必仔細閱讀整本使用說明書。

제공된 CD-ROM에는 영어, 독일어, 프랑스어, 스페인어, 이탈리아어, 네덜란드어, 스웨덴어, 포르투갈어, 중국어, 그리고 한국어로 작성된 조작 설명서가 포함되어 있습니다. 프로젝터를 조작하기 전에 조작 지침을 상세하게 숙지하십시오.

Before using the projector, please read this operation manual carefully.

Introduction

ENGLISH

There are two important reasons for prompt warranty registration of your new SHARP Projector, using the REGISTRATION CARD packed with the projector.

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 SHARP 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.

	CAUTION RISK OF ELECTRIC SHOCK. DO NOT REMOVE SCREWS EXCEPT SPECIFIED USER SERVICE SCREW.	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS EXCEPT LAMP UNIT. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		



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



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

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

U.S.A. ONLY

INFORMATION

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the operation manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

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The enclosed computer cable must be used with the device. The cable is provided to ensure that the device complies with FCC Class A verification.

U.S.A. ONLY

WARNING: BEST SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

PRODUCT DISPOSAL

This product utilizes tin-lead solder, and 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, the Electronics Industries Alliance: www.eiae.org, the lamp recycling organization www.lamprecycle.org, or Sharp at 1-800-BE-SHARP.

U.S.A. ONLY

Caution Concerning Lamp Replacement

See "Replacing the Lamp" on page **61**.

This SHARP projector uses an LCD (Liquid Crystal Display) panel. This very sophisticated panel contains 1,024,000 pixels (x RGB) TFT's (Thin Film Transistors). 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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- All other company or product names are trademarks or registered trademarks of their respective companies.

Authorized representative responsible for the European Union Community Market

SHARP ELECTRONICS (Europe) GmbH
Sonninstraße 3, D-20097 Hamburg

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How to Read this Operation Manual

- In this operation manual, the illustrations and on-screen displays are simplified for explanation. This may differ from the actual on-screen display.

Using the Menu Screen

Adjustment buttons (▲/▼/◀/▶)
ENTER button
MENU button
RETURN button

MOUSE/Adjustment buttons (▲/▼/◀/▶)
ENTER button
MENU button
RETURN button

• Press RETURN to return to previous screen when the menu is displayed

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 **◀** and select "Picture" to adjust.

Example: "Picture" screen menu

Picture Mode	SIG	SCR	PRJ	Net.
Picture Mode		Standard		
Contrast		0	100	
Bright		0	100	
Color		0	100	
Tint		0	100	
Sharp		0	100	
Red		0	100	
Blue		0	100	
CLR Temp	◊	7500K		
Progressive	◊	3D Progressive		
Film Mode	◊	Auto		
DNR	◊	Off		
MNR	◊	Off		
Eco-Quiet Mode	◊	Off		
◆◆◆Reset				
◊SEL/ADJ.			ENTER	
◊RETURN			END	

Useful Features

©B-43

Buttons used in this operation

Buttons used in this operation

Button used in this step

On-screen display

InfoIndicates safeguards when using the projector.

NoteIndicates additional information for setting up and operating the projector.

For Future Reference

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Refer to the “SETUP MANUAL” contained on the supplied CD-ROM for details.

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How to Access the PDF Operation Manuals

PDF operation manuals in several languages are included in the CD-ROM, so that you can work with the projector. To utilize these manuals, you need to install Adobe® Reader® on your computer (Windows® or Macintosh®).

Please download Adobe® Reader® from the Internet (<http://www.adobe.com>).

Accessing the PDF Manuals

For Windows®:

- ① Insert the CD-ROM in the CD-ROM drive.
- ② Double click the “My Computer” icon.
- ③ Double click the “CD-ROM” drive.
- ④ **When you want to view the operation manual**
 - 1) Double click the “MANUALS” folder.
 - 2) Double click the language (name of the folder) that you want to view.
 - 3) Double click the pdf file to access the projector manuals.**When you want to view the setup manual**
 - 1) Double click the “SETUP” folder.
 - 2) Double click the language (name of the folder) that you want to view.
 - 3) Double click the pdf file to access the setup manual.

For Macintosh®:

- ① Insert the CD-ROM in the CD-ROM drive.
- ② Double click the “CD-ROM” icon.
- ③ **When you want to view the operation manual**
 - 1) Double click the “MANUALS” folder.
 - 2) Double click the language (name of the folder) that you want to view.
 - 3) Double click the pdf file to access the projector manuals.**When you want to view the setup manual**
 - 1) Double click the “SETUP” folder.
 - 2) Double click the language (name of the folder) that you want to view.
 - 3) Double click the pdf file to access the setup manual.

Info

- If the desired pdf file cannot be opened by double clicking the mouse, start Adobe® Reader® first, then specify the desired file using the “File”, “Open” menu.

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.

- Two-wire type (mains) plug.
- Three-wire grounding type (mains) plug with a grounding terminal.
This plug will only fit into a grounding type power outlet.

13. Power-Cord Protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

14. Lightning

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

15. Overloading

Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

16. Object and Liquid Entry

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

17. Servicing

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

18. Damage Requiring Service

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

- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- 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.
- If the product has been dropped or damaged in any way.
- When the product exhibits a distinct change in performance, this indicates a need for service.

19. Replacement Parts

When replacement parts are required, ensure that the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

20. Safety Check

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

21. Wall or Ceiling Mounting

This product should be mounted to a wall or ceiling only as recommended by the manufacturer.

22. Heat

This product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

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

Caution concerning the lamp unit

- Potential hazard of glass particles if lamp ruptures. In case of lamp rupture, contact your nearest Sharp Authorized Projector Dealer or Service Center for replacement. See “Regarding the Lamp” on page 61.



Caution concerning the setup of the projector

- For minimal servicing and to maintain high image quality, SHARP 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 a Sharp Authorized Projector Dealer or Service Center.

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

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

The projector may be safely tilted to a maximum angle of 9 degrees.

- Placement should be within ± 9 degrees of horizontal.



When using the projector in high-altitude areas such as mountains (at altitudes of approximately 1,500 meters (4,900 feet) 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, make certain it is carefully secured to avoid personal injury caused by the projector falling down.

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

- Take care with 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. Take regular breaks to 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 intake and exhaust vents.

- Allow at least 7 ⁷/₈ inches (20 cm) of space between the exhaust vent and the nearest wall or obstruction.
- Ensure 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 59 and 60). Remove the projector power cord from the wall outlet and wait at least 10 minutes. Place the projector where the intake and exhaust vents are not blocked, plug the power cord back in and turn on the projector. This will return the projector to the normal operating condition.

Caution regarding usage of the projector

- When using the projector, take care not to subject it to hard impact and/or vibration, as this can result in damage. Take extra care with the lens. If you are not to use the projector for a long time, make certain you 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, ensure you attach the lens cap to the projector. (See page 12.)
- Do not expose the storage case or projector to direct sunlight or near heat sources. The storage case or projector may change color or become deformed.


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 operation 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, make sure you use an appropriate power cord for the country you are in.

Temperature monitor function

- If the projector starts to over-heat due to setup problems or blockage of the air vents, “” and “TEMP.” will illuminate in the lower left corner of the picture. If the temperature continues to rise, the lamp will turn off, the temperature warning indicator on the projector will blink, and after a 90-second cooling-off period the projector will enter the standby mode. Refer to “Maintenance Indicators” on page 59 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.

Accessories

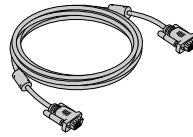
Supplied accessories



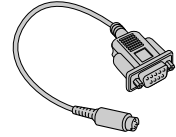
Remote control
<RRMCGA623WJSA>



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

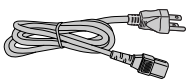


RGB cable
(10' (3.0 m))
<QCNWGA045WJPZ>



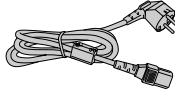
DIN-D-sub RS-232C
adaptor
(5 ⁵⁷/₆₄" (15 cm))
<QCNWGA091WJPZ>

Power cord*
(1)



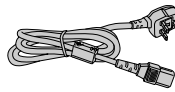
For U.S., Canada, etc.
(6' (1.8 m))
<QACCDAA007WJPZ>

(2)



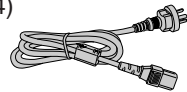
For Europe, except U.K.
(6' (1.8 m))
<QACCVA011WJPZ>

(3)



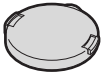
For U.K., Hong Kong
and Singapore
(6' (1.8 m))
<QACCBAA036WJPZ>

(4)



For Australia, New
Zealand and Oceania
(6' (1.8 m))
<QACCLA018WJPZ>

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



Lens cap (attached)
<PCAPHA026WJSA>



Lens cap strap
<UBNDDTA017WJZZ>



Storage case
<GCASNA020WJSA>

• Operation manual (this manual <TINS-D563WJZZ> and CD-ROM <UDSKAA102WJZZ>)



Note

• Codes in "< >" are Replacement parts codes.

Optional accessories

- Lamp unit
- Ceiling-mount adaptor

AN-C430LP
AN-60KT
AN-XGCM55 (for U.S.A. only)
AN-JT200 (for U.S.A. only)
AN-TK201 <for AN-60KT>
AN-TK202 <for AN-60KT>

- Universal bracket
- Ceiling-mount unit

AN-EP101B <for AN-XGCM55 and AN-JT200>
(for U.S.A. only)

- Remote receiver
- 3 RCA to 15-pin D-sub cable (10' (3.0 m))

AN-MR2
AN-C3CP2



Note

• Some of the optional accessories may not be available depending on the region. Please check with your nearest Sharp Authorized Projector Dealer or Service Center.

Optional lenses

■ Lens		Projection distance for 100" screen size
Wide-zoom lens (× 1.5 – 1.9)	AN-C12MZ	10' 5" – 13' 1" (3.2 m – 4.0 m)
Tele-zoom lens (× 2.2 – 2.8)	AN-C18MZ	15' 7" – 19' 10" (4.8 m – 6.0 m)
Tele-zoom lens (× 3.3 – 5.1)	AN-C27MZ	23' 2" – 35' 8" (7.1 m – 10.9 m)
Tele-zoom lens (× 5.1 – 7.2)	AN-C41MZ	36' 2" – 50' 10" (11.0 m – 15.5 m)

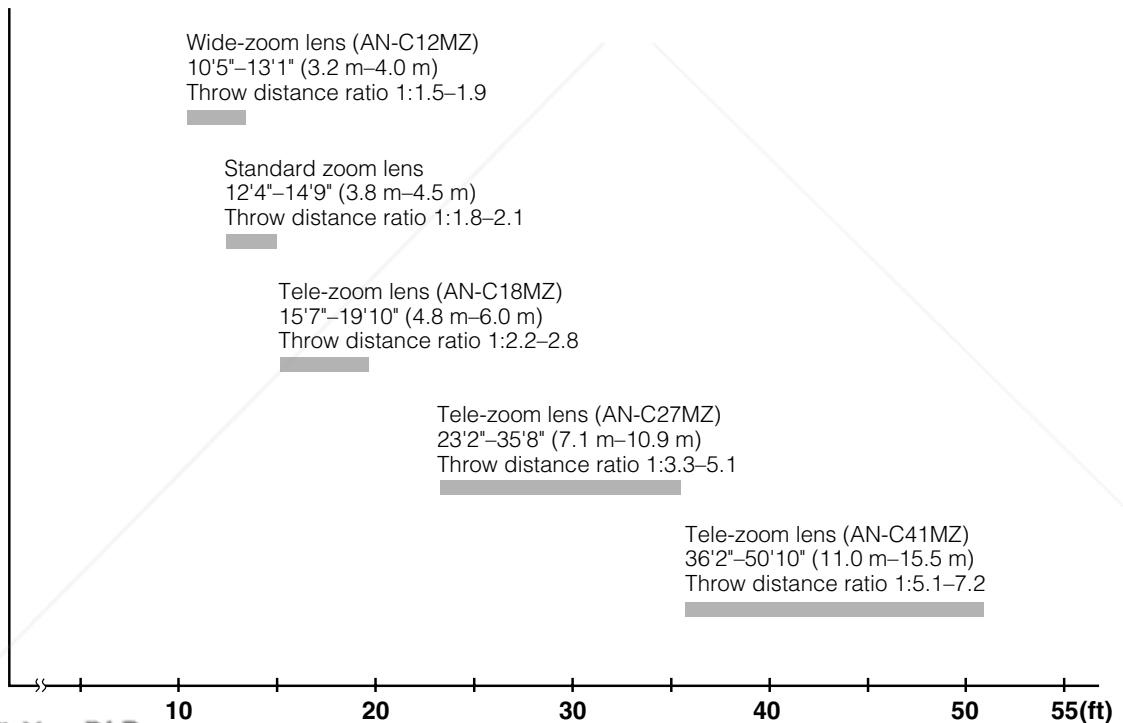
The standard zoom lens is attached to the projector.

The optional lenses from Sharp are also available for specialized application. Please see your nearest Sharp Authorized Projector Dealer for details on all the lenses. (Refer to the SETUP MANUAL on the supplied CD-ROM for details.) Also, be sure to have service personnel install the optional lenses.

Throw Distance

The graph below is for 100 inches (254 cm) screen with 16:10 Signal Input (Normal Mode).

Screen



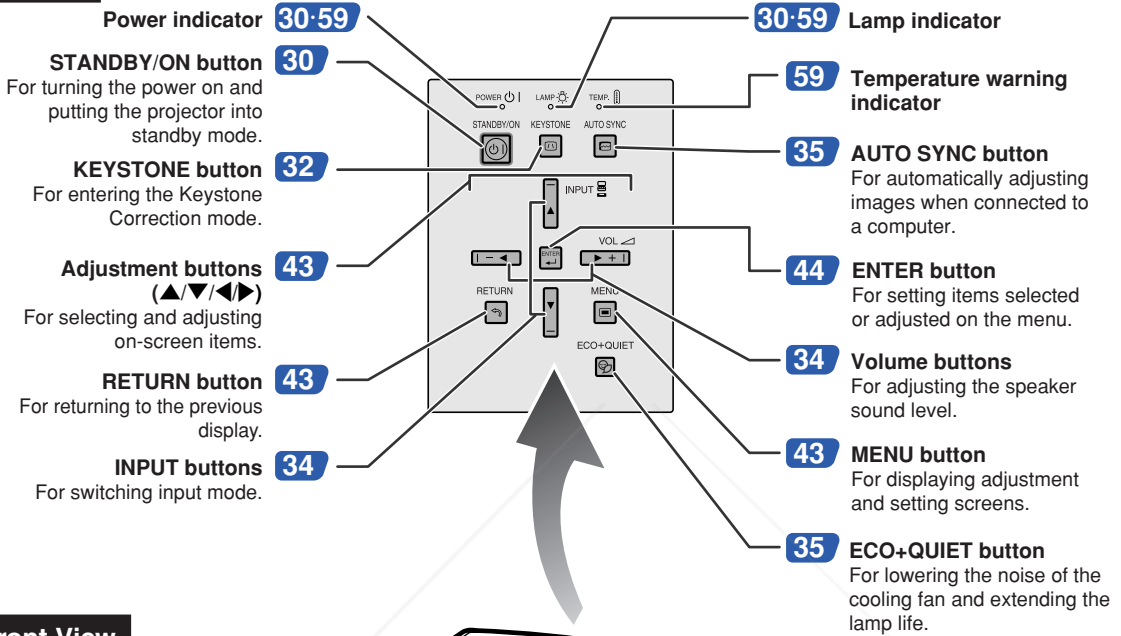
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 THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Part Names and Functions

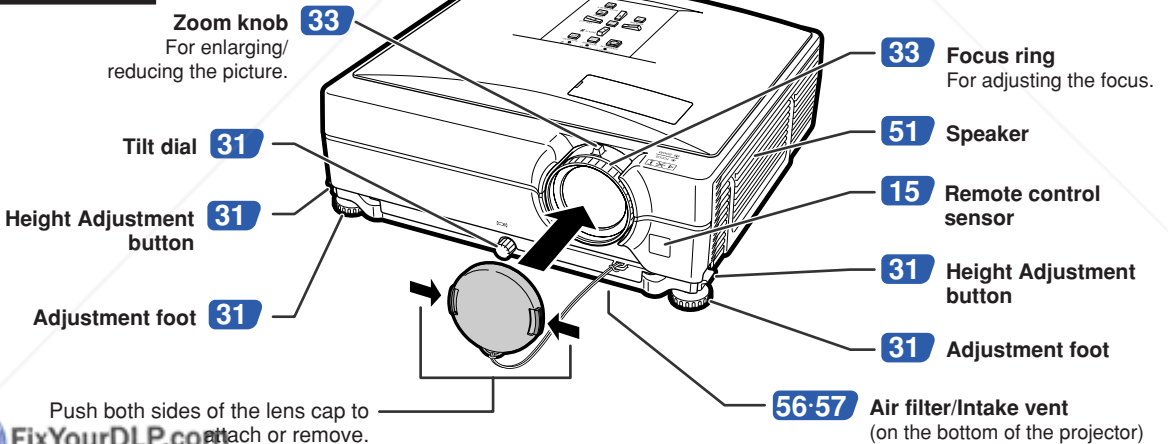
Numbers in refer to the main pages in this operation manual where the topic is explained.

Projector

Top View

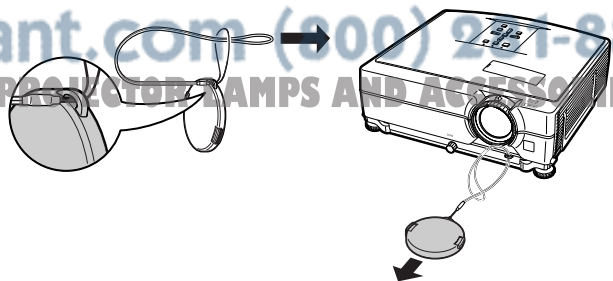


Front View



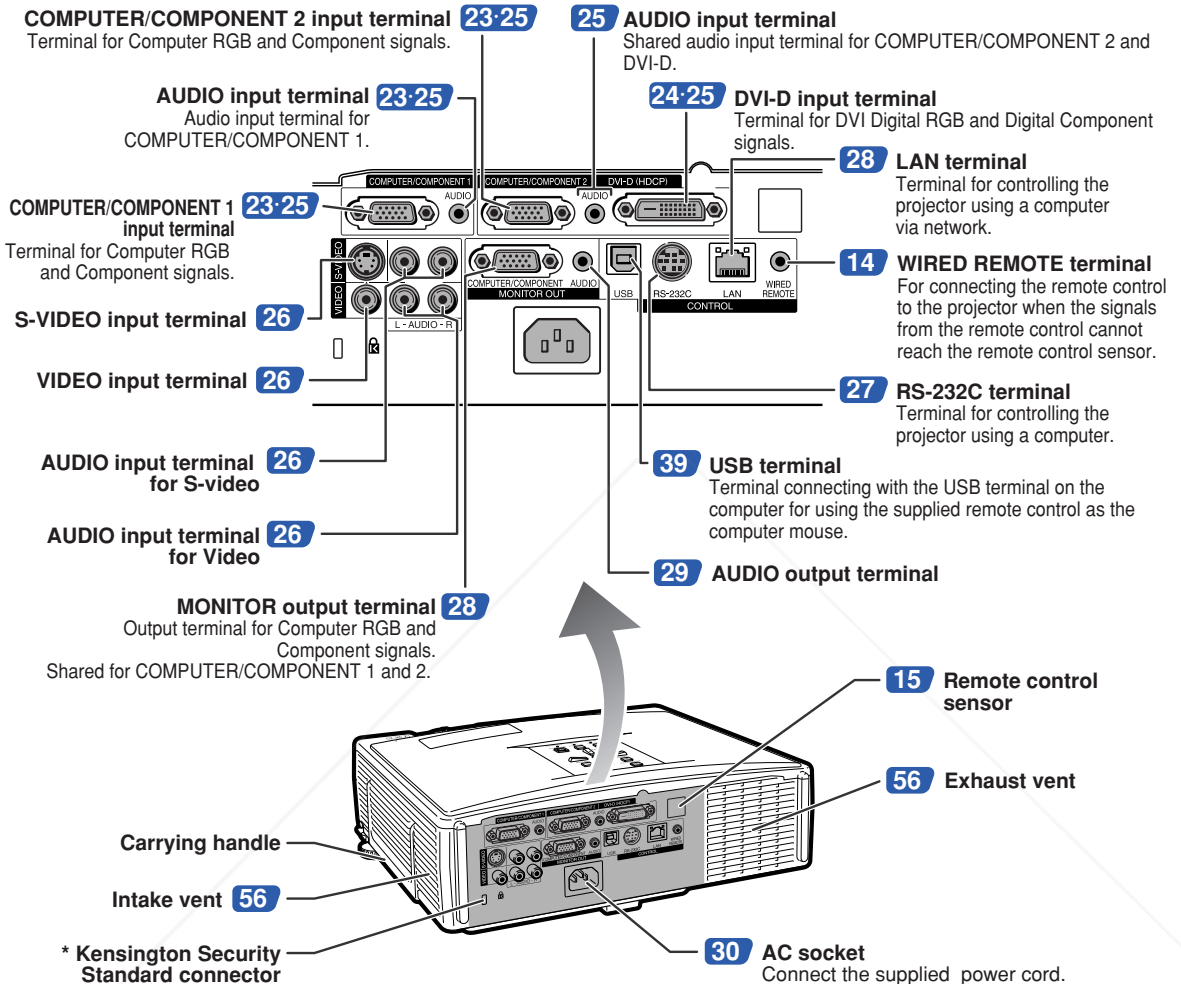
Attaching the lens cap

After putting the lens cap strap on the lens cap, pass the other end of the strap through the hole on the front side of the projector, next to the lens, as shown in the illustration.



Projector (Rear View)

Terminals



Using the Carrying Handle

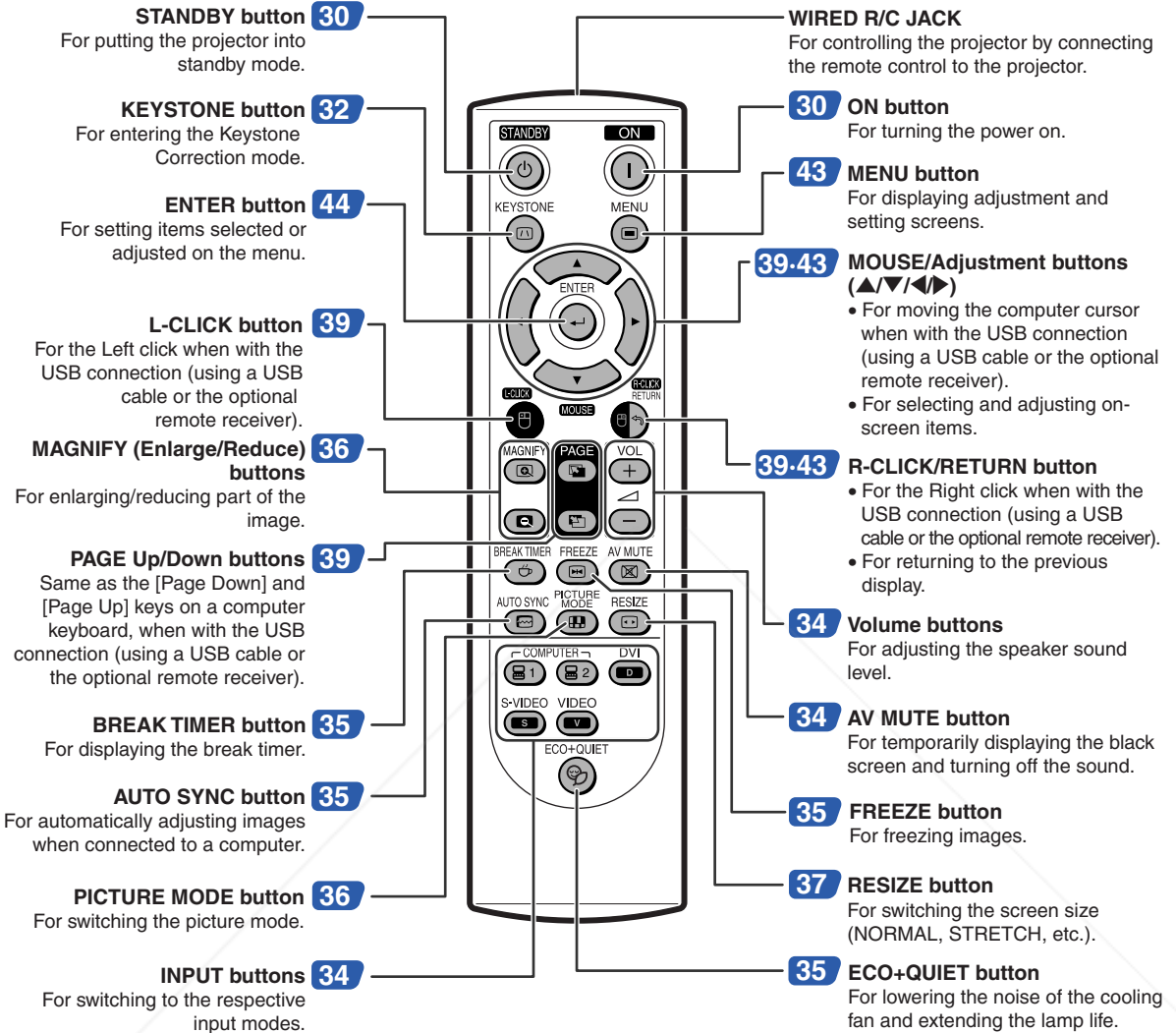
When transporting the projector, carry it by the carrying handle on the side.

- Always put on the lens cap to prevent damage to the lens when transporting the projector.
- Do not lift or carry the projector by the lens or the lens cap as this may damage the lens.

* Using the Kensington Lock

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

Remote Control



Using the Remote Control with a Signal Cable

When the signals from the remote control cannot be reached due to the positioning of the projector, use a $\phi 3.5$ mm minijack cable to connect the remote control to the projector. Now you can control the projector with the remote control.



Note

- The wireless remote function is not possible when the $\phi 3.5$ mm minijack cable is connected to the projector. Should the wireless remote operation be required, the $\phi 3.5$ mm minijack cable should be disconnected from the projector.

Using the Remote Control

Usable Range

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

Note

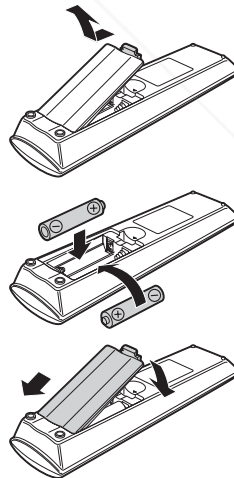
- The signal from the remote control can be reflected off a screen for easy operation. However, the effective distance of the signal may differ depending on the screen material.

When using the remote control:

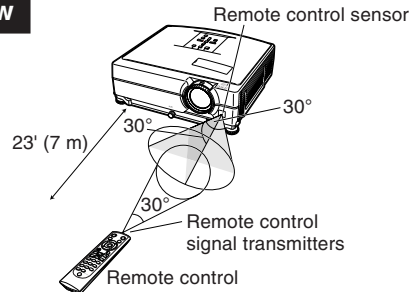
- Take care not to drop, expose to moisture or high temperature.
- The remote control may malfunction under a fluorescent lamp. In this case, move the projector away from the fluorescent lamp.

Inserting the Batteries

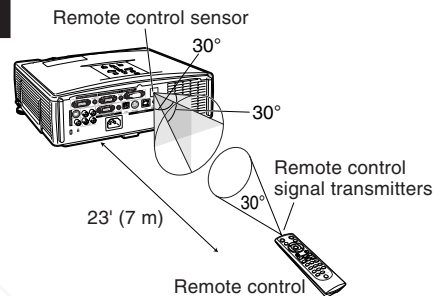
- 1 Pull down the tab on the cover and remove the cover towards the direction of the arrow.**
- 2 Insert the included batteries.**
 - Insert the batteries making sure the polarities correctly match the \oplus and \ominus marks inside the battery compartment.
- 3 Insert the lower tab of the cover into the opening, and lower the cover until it clicks in place.**



Front View



Rear View



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

Caution

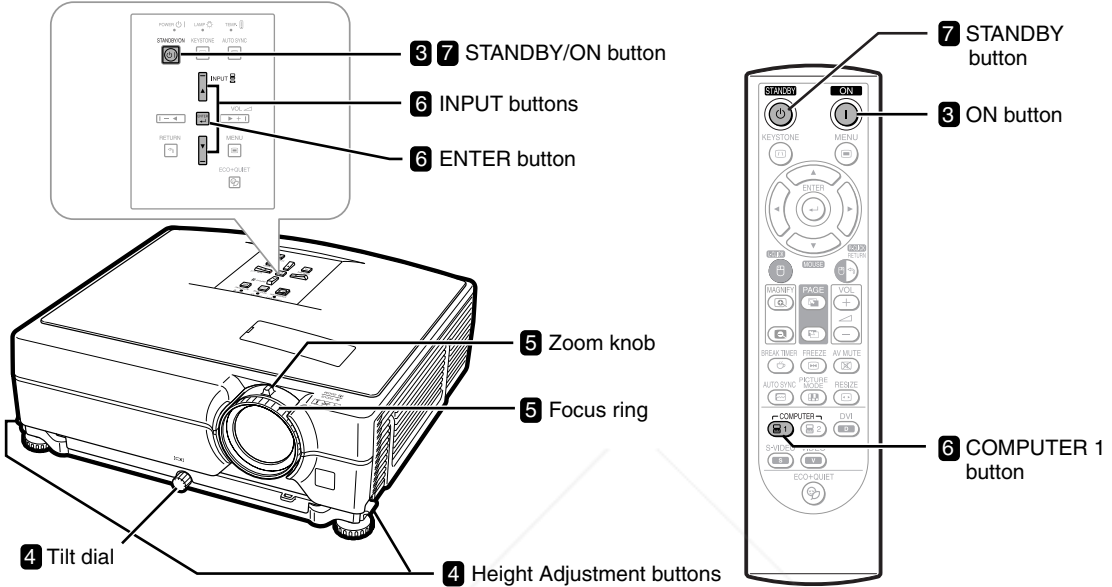
- Danger of explosion if battery is incorrectly replaced. Replace only with alkaline or manganese batteries.
- Insert the batteries making sure the polarities correctly match the \oplus and \ominus marks inside the battery compartment.
- Batteries of different types have different properties, therefore 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 you wipe them first 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.

Quick Start

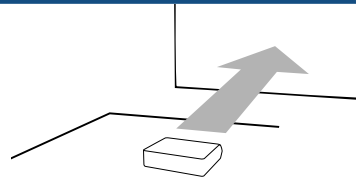
This section shows the basic operation (projector connecting with the computer). For details, see the page described below for each step.

Setup and Projection

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

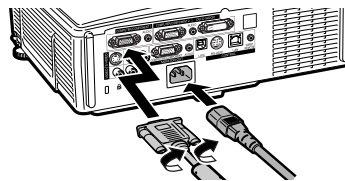


1. Place the projector facing a screen



➔ Page 18

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

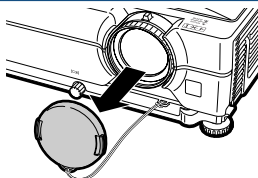


FixYourDLP.com

When connecting equipment other than the computer, see pages 25, 28 and 29.

➔ Pages 23, 30

3. Remove the lens cap and turn the projector on



On the projector

STANDBY/ON



On the remote control

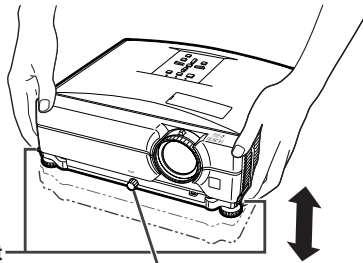


➔ Page 30

4. Adjust the angle

Adjust the projector angle

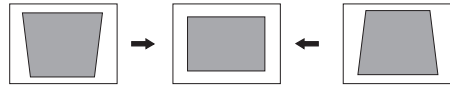
- Adjust the projector angle using the Height Adjustment buttons.
- Rotate the Tilt dial to adjust the horizontal tilt of the projector.



Height Adjustment buttons

Tilt dial

- This projector is equipped with an “Auto V-Keystone Correction” function that automatically corrects any trapezoidal distortion within the projected image.

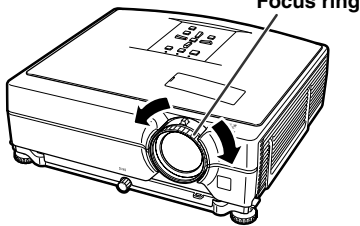


→ Pages 31, 32

5. Adjust the focus and the zoom

Bring the projected image into focus

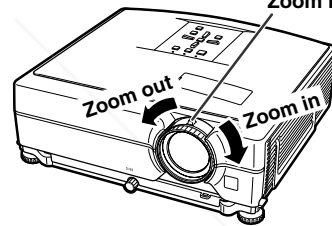
- Bring the projected image into focus by rotating the focus ring.



Focus ring

Adjust the projected image size

- Adjust the projected image size by moving the zoom knob.



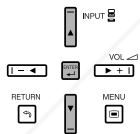
Zoom knob

→ Page 33

6. Select the INPUT mode

Select the “COMPUTER 1” using the INPUT buttons on the projector or the COMPUTER 1 button on the remote control.

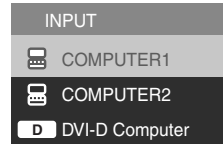
On the projector



On the remote control



▼ INPUT list



▼ On-screen Display (RGB)



- When you press the INPUT buttons on the projector, the INPUT list appears. Press ▲/▼ to select an item on the list, and press **ENTER** to switch to the selected INPUT mode.
- When using the remote control, press **COMPUTER1/2**, **DVI**, **S-VIDEO** or **VIDEO** to switch the INPUT mode.

→ Page 34

7. Turn the Power off

Press the STANDBY button, then press that button again while the confirmation message is displayed, to put the projector into standby mode.

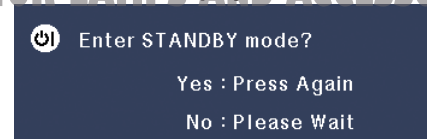
On the projector



On the remote control



▼ On-screen Display



- Even if you unplug the power cord from the AC outlet, the cooling fan continues to run for a while.

→ Page 30

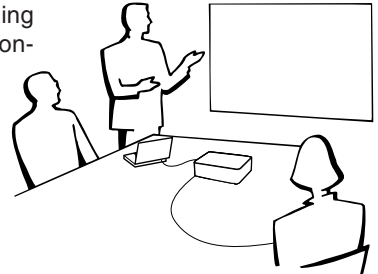
Setting Up the Projector

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. (See page 32.)

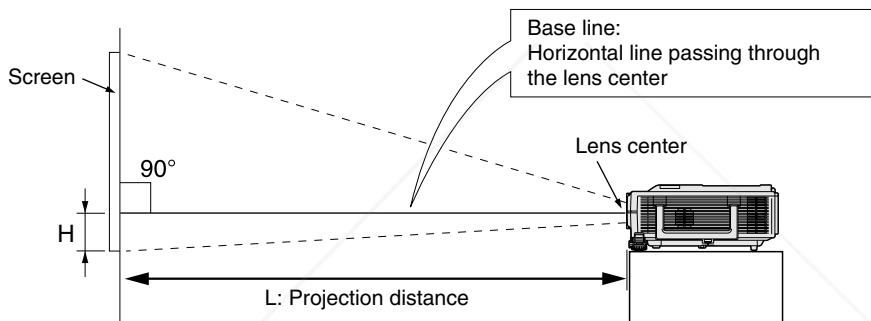
Standard Setup (Front Projection)

- Place the projector at the required distance from the screen according to the desired picture size. (For details, refer to the "SETUP MANUAL" contained on the supplied CD-ROM.)



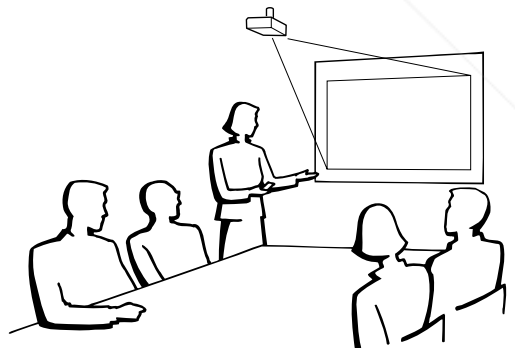
Example of standard setup

Side View



Ceiling-mount Setup

- It is recommended that you use the optional Sharp ceiling-mount adaptor and unit for this installation. Before mounting the projector, contact your nearest Sharp Authorized Projector Dealer or Service Center to obtain the recommended ceiling-mount adaptor and unit (sold separately).

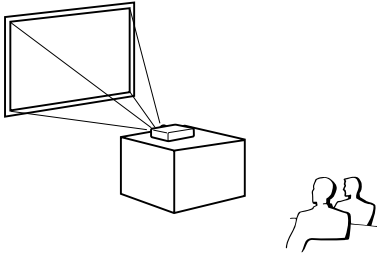


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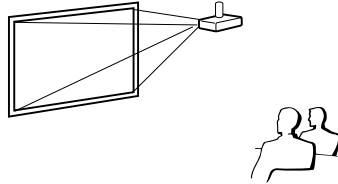
Projection (PRJ) Mode

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 "SCR-ADJ" menu. See page 50.)

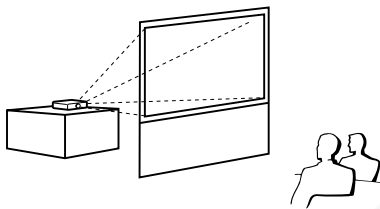
- Table mounted, front projection
[Menu item → "Front"]



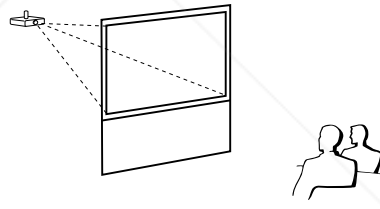
- Ceiling mounted, front projection
[Menu item → "Ceiling + Front"]



- Table mounted, rear projection
(with a translucent screen)
[Menu item → "Rear"]

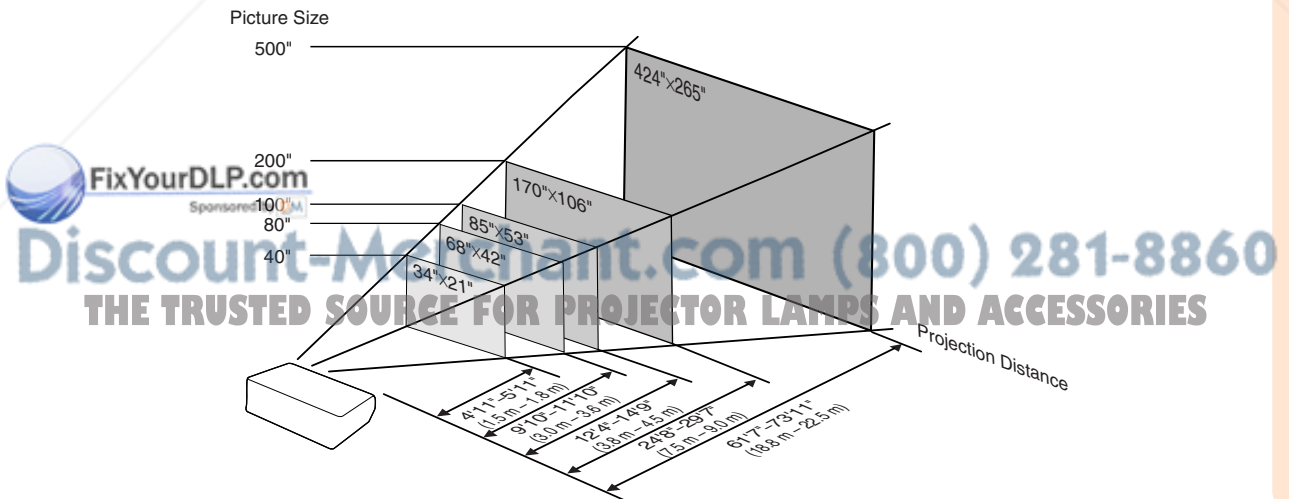


- Ceiling mounted, rear projection
(with a translucent screen)
[Menu item → "Ceiling + Rear"]



Indication of the Projection Image Size and Projection Distance

For details, refer to the "SETUP MANUAL" contained on the supplied CD-ROM.
Example: 16:10 Signal Input (Normal Mode) for standard lens



Standard Zoom Lens

F1.7-F1.9, f=28.0-33.6 mm

16:10 Signal Input (Normal Mode)

Picture (Screen) size			Projection distance [L]		Distance from the lens center to the bottom of the image [H]
Diag. [x]	Width	Height	Minimum [L1]	Maximum [L2]	
500" (1270 cm)	1077 cm (424")	673 cm (265")	18.8 m (61' 7")	22.5 m (73' 11")	-16 cm (-6 5/16")
400" (1016 cm)	862 cm (339")	538 cm (212")	15.0 m (49' 3")	18.0 m (59' 2")	-13 cm (-5 3/64")
300" (762 cm)	646 cm (254")	404 cm (159")	11.3 m (37' 0")	13.5 m (44' 4")	-10 cm (-3 51/64")
250" (635 cm)	538 cm (212")	337 cm (132")	9.4 m (30' 10")	11.3 m (37' 0")	-8 cm (-3 5/32")
200" (508 cm)	431 cm (170")	269 cm (106")	7.5 m (24' 8")	9.0 m (29' 7")	-6 cm (-2 17/32")
150" (381 cm)	323 cm (127")	202 cm (79")	5.6 m (18' 6")	6.8 m (22' 2")	-5 cm (-1 57/64")
120" (305 cm)	258 cm (102")	162 cm (64")	4.5 m (14' 9")	5.4 m (17' 9")	-4 cm (-1 39/64")
100" (254 cm)	215 cm (85")	135 cm (53")	3.8 m (12' 4")	4.5 m (14' 9")	-3 cm (-1 17/64")
80" (203 cm)	172 cm (68")	108 cm (42")	3.0 m (9' 10")	3.6 m (11' 10")	-3 cm (-1 1/64")
60" (152 cm)	129 cm (51")	81 cm (32")	2.3 m (7' 5")	2.7 m (8' 10")	-2 cm (-49/64")
40" (102 cm)	86 cm (34")	54 cm (21")	1.5 m (4' 11")	1.8 m (5' 11")	-1 cm (-1/2")

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

The formula for picture size and projection distance
[m/cm]
 $L1 (m) = 0.03755X$
 $L2 (m) = 0.04507X$
 $H (cm) = -0.03209X$
[Feet/inches]
 $L1 (ft) = 0.03755X / 0.3048$
 $L2 (ft) = 0.04507X / 0.3048$
 $H (in) = -0.03209X / 2.54$

4:3 Signal Input (Normal Mode)

Picture (Screen) size			Projection distance [L]		Distance from the lens center to the bottom of the image [H]
Diag. [x]	Width	Height	Minimum [L1]	Maximum [L2]	
400" (1016 cm)	813 cm (320")	610 cm (240")	17.0 m (55' 9")	20.4 m (66' 11")	-15 cm (-5 23/32")
300" (762 cm)	610 cm (240")	457 cm (180")	12.8 m (41' 10")	15.3 m (50' 3")	-11 cm (-4 19/64")
250" (635 cm)	508 cm (200")	381 cm (150")	10.6 m (34' 10")	12.8 m (41' 10")	-9 cm (-3 37/64")
200" (508 cm)	406 cm (160")	305 cm (120")	8.5 m (27' 11")	10.2 m (33' 6")	-7 cm (-2 55/64")
150" (381 cm)	305 cm (120")	229 cm (90")	6.4 m (20' 11")	7.7 m (25' 1")	-5 cm (-2 9/64")
120" (305 cm)	244 cm (96")	183 cm (72")	5.1 m (16' 9")	6.1 m (20' 1")	-4 cm (-1 23/32")
100" (254 cm)	203 cm (80")	152 cm (60")	4.3 m (13' 11")	5.1 m (16' 9")	-4 cm (-1 7/16")
80" (203 cm)	163 cm (64")	122 cm (48")	3.4 m (11' 2")	4.1 m (13' 5")	-3 cm (-1 9/64")
70" (178 cm)	142 cm (56")	107 cm (42")	3.0 m (9' 9")	3.6 m (11' 9")	-3 cm (-1")
60" (152 cm)	122 cm (48")	91 cm (36")	2.6 m (8' 4")	3.1 m (10' 1")	-2 cm (-55/64")
40" (102 cm)	81 cm (32")	61 cm (24")	1.7 m (5' 7")	2.0 m (6' 8")	-1 cm (-37/64")

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


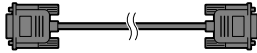
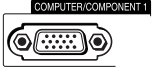
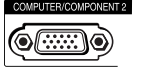
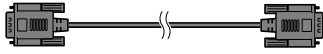
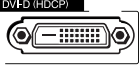
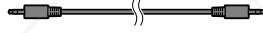
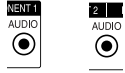





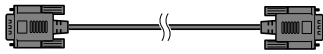
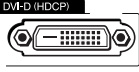
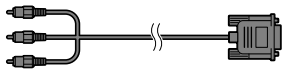
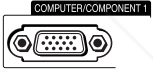
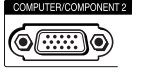
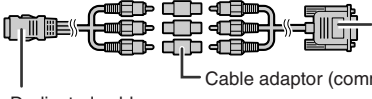
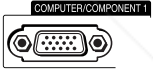
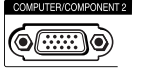
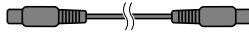



The formula for picture size and projection distance
[m/cm]
 $L1 (m) = 0.04251X$
 $L2 (m) = 0.05102X$
 $H (cm) = -0.03633X$
[Feet/inches]
 $L1 (ft) = 0.04251X / 0.3048$
 $L2 (ft) = 0.05102X / 0.3048$
 $H (in) = -0.03633X / 2.54$



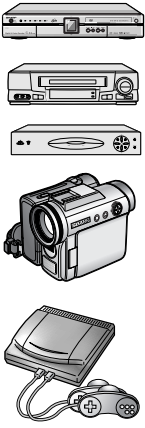
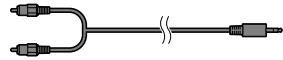
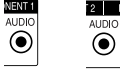
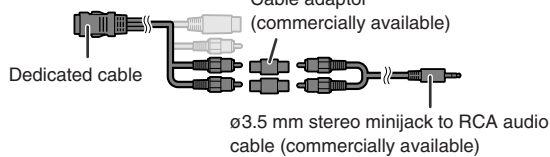
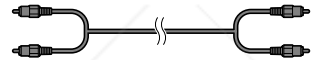

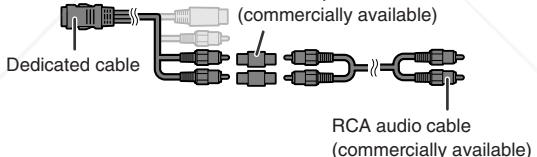

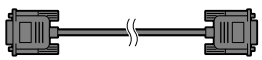

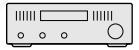
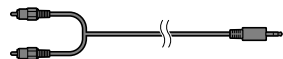

- Allow a margin of error in the value in the diagrams above.
- When the distance from the lens center to the bottom of the image [H] is a negative number, this indicates that the bottom of the image is below the lens center.
- See page 18 about projection distance [L] and distance from the lens center to the bottom of the image [H].

Samples of Cables for Connection

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

Equipment	Terminal on connected equipment	Cable	Terminal on the projector
	RGB output terminal	RGB cable (supplied) 	COMPUTER/ COMPONENT 1, 2  
	DVI digital video output terminal	DVI Digital cable (commercially available) 	DVI-D 
	Audio output terminal	ø3.5 mm stereo or mono audio cable (commercially available or available as Sharp service part QCNWGA038WJPZ) 	AUDIO (for COMPUTER/ COMPONENT 1, 2, DVI-D) 
Audio-visual equipment     	DVI digital video output terminal	DVI Digital cable (commercially available) 	DVI-D 
	Component video output terminal	3 RCA to 15-pin D-sub cable (optional: AN-C3CP2) 	COMPUTER/ COMPONENT 1, 2  
	Terminal for using the dedicated cable	Connect with the cable adaptor, etc.  3 RCA to 15-pin D-sub cable (optional: AN-C3CP2) Cable adaptor (commercially available) Dedicated cable	COMPUTER/ COMPONENT 1, 2  
	S-video output terminal	S-video cable (commercially available) 	S-VIDEO 
	Video output terminal	Video cable (commercially available) 	VIDEO 

Samples of Cables for Connection

Equipment	Terminal on connected equipment	Cable	Terminal on the projector
Audio-visual equipment 	Audio output terminal	ø3.5 mm stereo minijack to RCA audio cable (commercially available) 	AUDIO (for COMPUTER/ COMPONENT 1, 2, DVI-D) 
	Terminal for using the dedicated cable	Connect with the cable adaptor, etc. 	
	Audio output terminal	RCA audio cable (commercially available) 	AUDIO (for VIDEO, S-VIDEO) 
	Terminal for using the dedicated cable	Connect with the cable adaptor, etc. 	
Monitor 	RGB input terminal	RGB cable (supplied or commercially available) 	MONITOR OUTPUT 
Amplifier 	Audio input terminal	ø3.5 mm stereo minijack to RCA audio cable (commercially available) 	AUDIO (MONITOR OUT) 

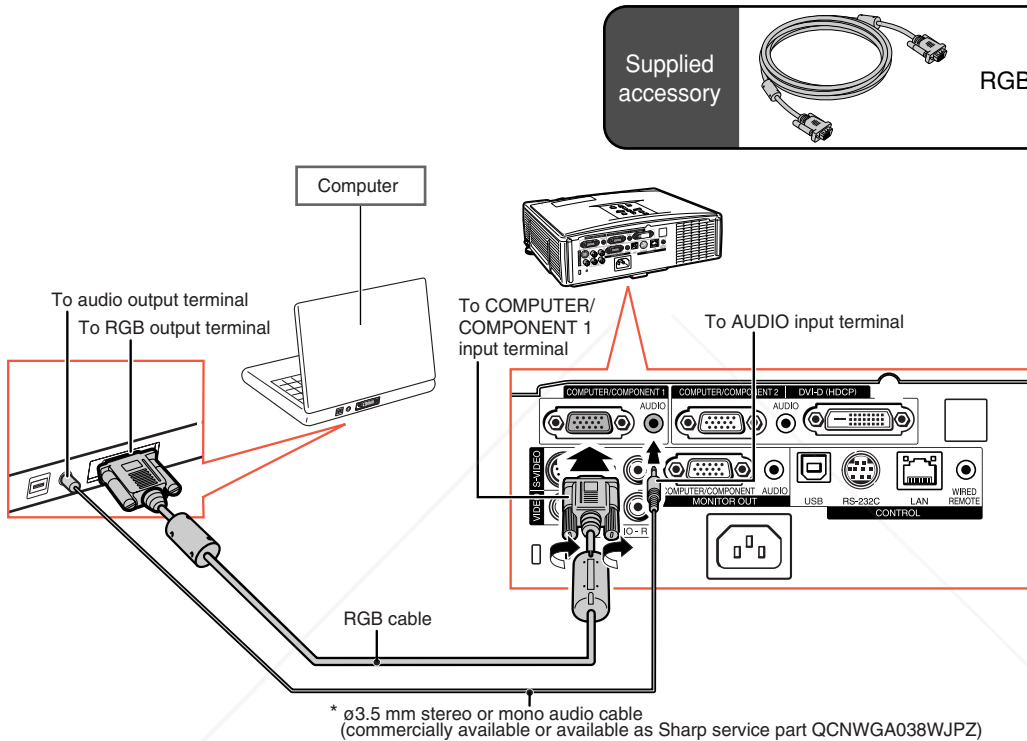
Connecting to a Computer

Before connecting, ensure the power cord of the projector from the AC outlet is unplugged, and that the devices to be connected are turned off. After making all connections, turn on the projector and then the other devices. When connecting a computer, ensure that it is the last device to be turned on after all the connections are made.

Ensure the operation manuals of the devices to be connected have been read before making connections.

When connecting with the RGB cable

(Connecting to COMPUTER/COMPONENT 1 or 2: The illustration shown below is for the former.)



* When using the ø3.5 mm mono audio cable, the volume level will be half of when using the ø3.5 mm stereo audio cable.

Note

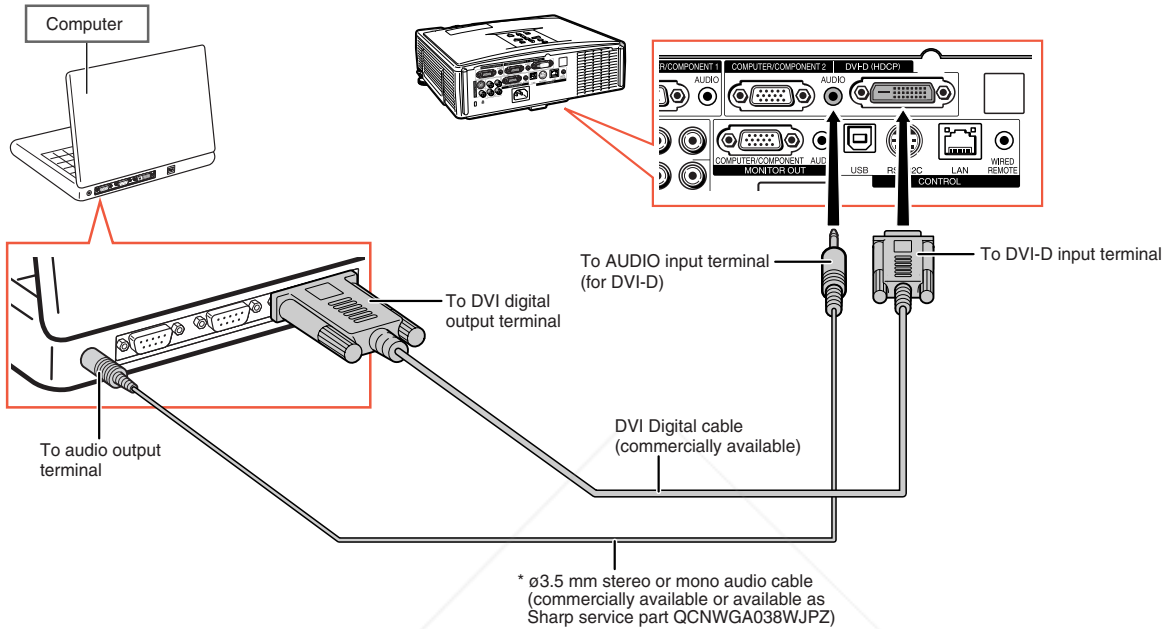
- See page 65 "Computer Compatibility Chart" for a list of computer signals compatible with the projector. Use with computer signals other than those listed may cause some of the functions to not work.
- A Macintosh adaptor may be required for use with some Macintosh computers. Contact your nearest Macintosh Dealer.
- Depending on the computer you are using, an image may not be projected unless the computer's external output port is switched on. (e.g. Press "Fn" and "F5" keys simultaneously when using a SHARP notebook computer). Refer to the specific instructions in your computer's operation manual to enable your computer's external output port.

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Connecting to a Computer

When connecting with a DVI digital cable

The projector employs the DVI digital input terminal for direct input of Digital Video signals from a computer.

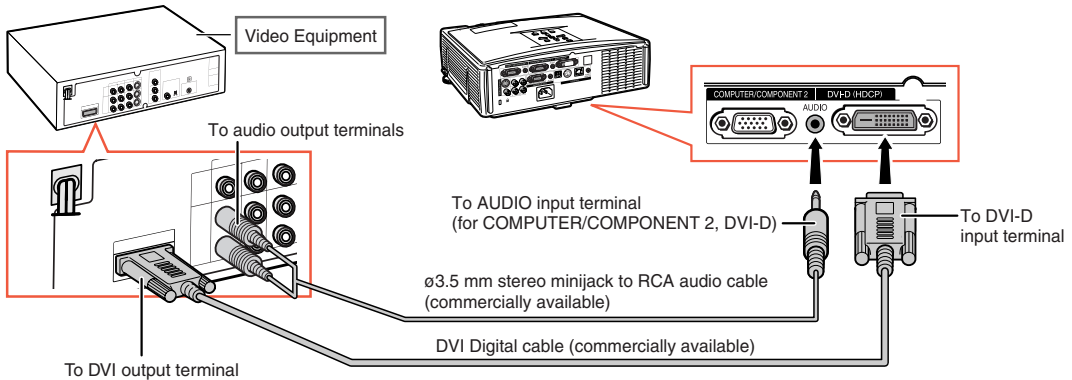


* When using the $\varnothing 3.5$ mm mono audio cable, the volume level will be half of when using the $\varnothing 3.5$ mm stereo audio cable.

Connecting to Video Equipment

The image quality is highest in order of the Component signal, the RGB signal, the S-video signal and the Video signal. If your audio-visual equipment has a component output terminal or RGB output terminal, use the COMPUTER/COMPONENT terminal 1 or 2 on the projector for video connection.

When connecting video equipment with a DVI output terminal

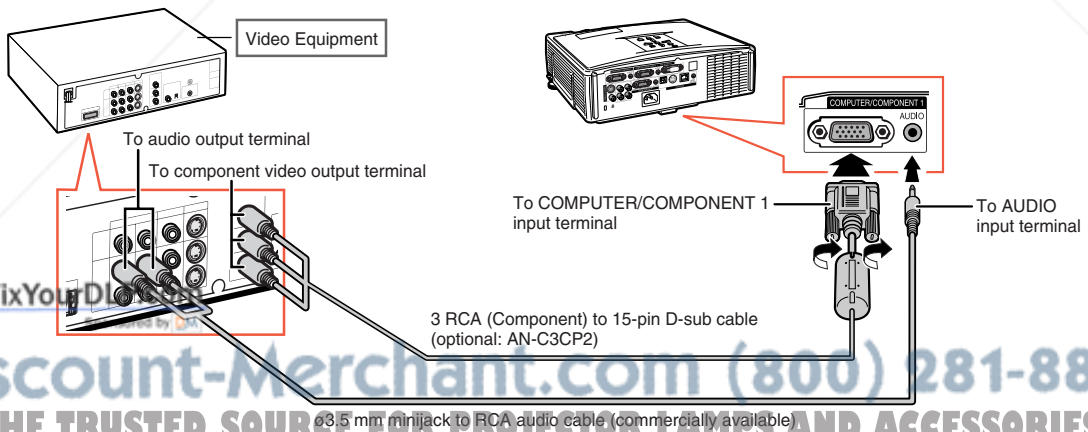


Note

- Select the input signal type of the video equipment. See page 47.
- While the projector is connected to video equipment that has an HDMI output terminal, only the video signal can be input to the projector. (Connect the AUDIO input terminal for audio input.)
- Depending on specifications of video equipment or HDMI to DVI digital cable, the signal transmission may not work properly. (The HDMI specification does not support all connections to video equipment that has HDMI digital output terminal using HDMI to DVI digital cable.)
- For details on compatibility for connection, see support information on DVI connection provided by the video equipment manufacturer.

When connecting video equipment with component video output terminal

(Connecting to COMPUTER/COMPONENT 1 or 2: The illustration shown below is for the former.)

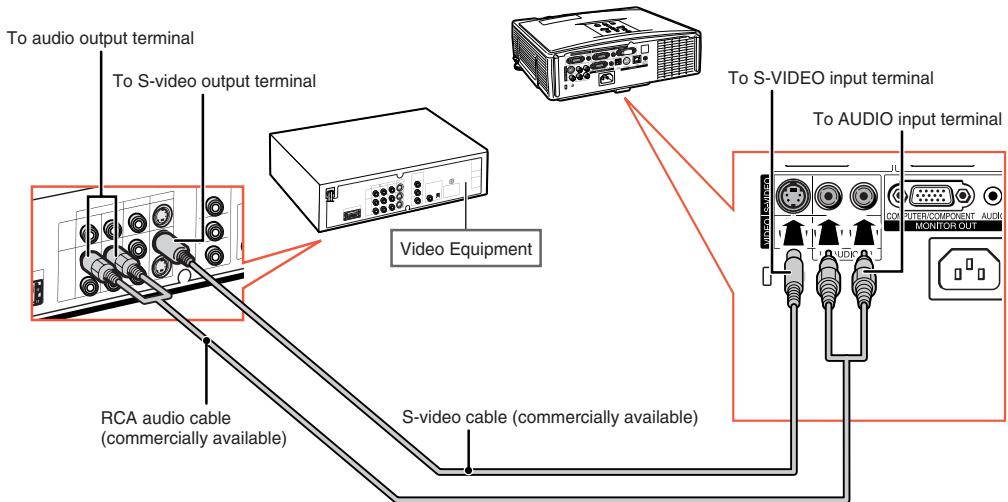


Note

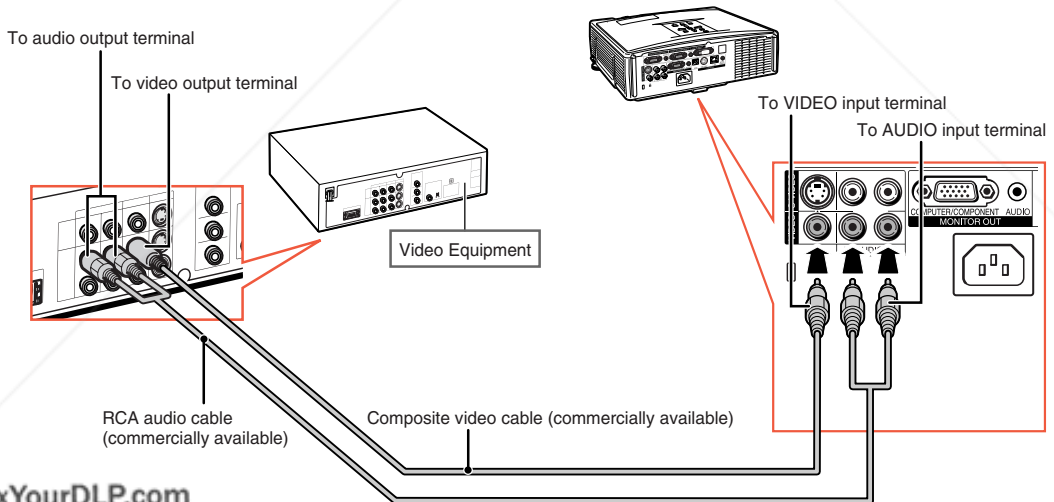
- When you connect video equipment with a 21-pin RGB output (Euro-scart) to the projector, use a commercially available cable that fits in the projector terminal you want to connect.
- The projector does not support RGBC signals via the Euro-scart.

Connecting to Video Equipment

When connecting video equipment with S-video output terminal



When connecting video equipment with video output terminal



Note

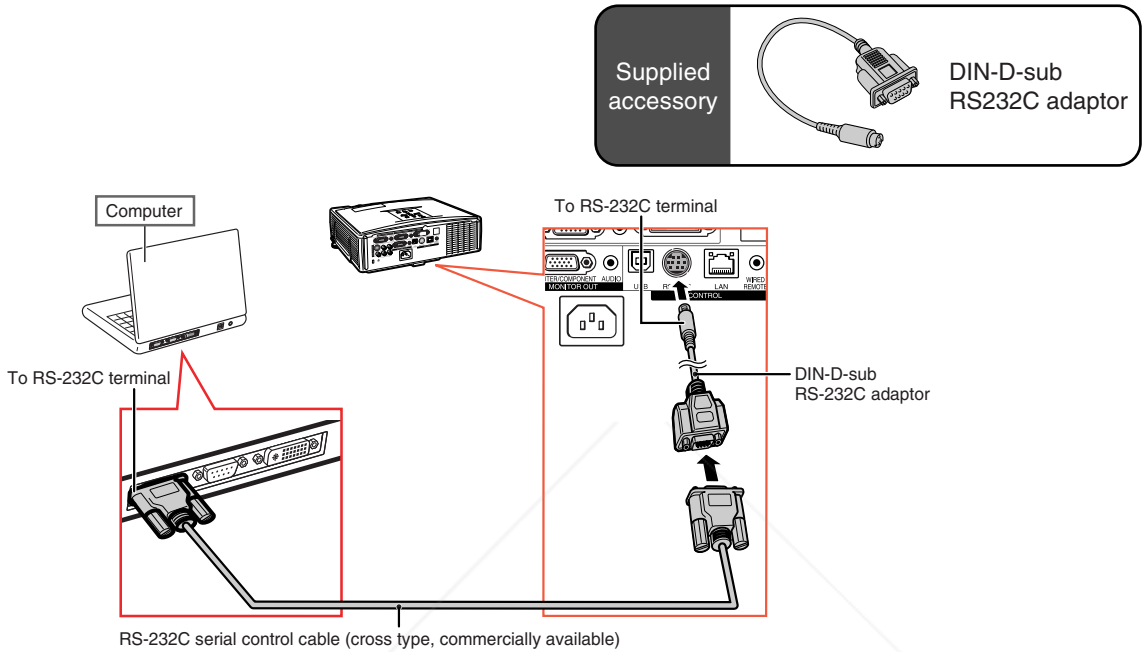
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

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

Controlling the Projector by a Computer

When the RS-232C terminal on the projector is connected to a computer, the computer can be used to control the projector and check the status of the projector. Refer to the "SETUP MANUAL" contained on the supplied CD-ROM for "RS-232C Specifications and Commands".

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.

Info

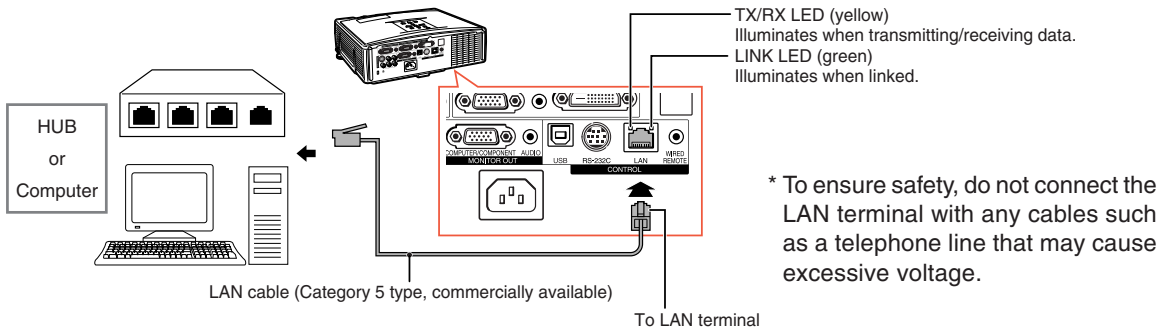
- Do not connect the RS-232C cable to a port other than the RS-232C terminal on the computer. This may damage your computer or projector.
- Do not connect or disconnect an RS-232C serial control cable to or from the computer while it is on. This may damage your computer.

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Controlling the Projector by a Computer

When connecting to the LAN terminal using a LAN cable

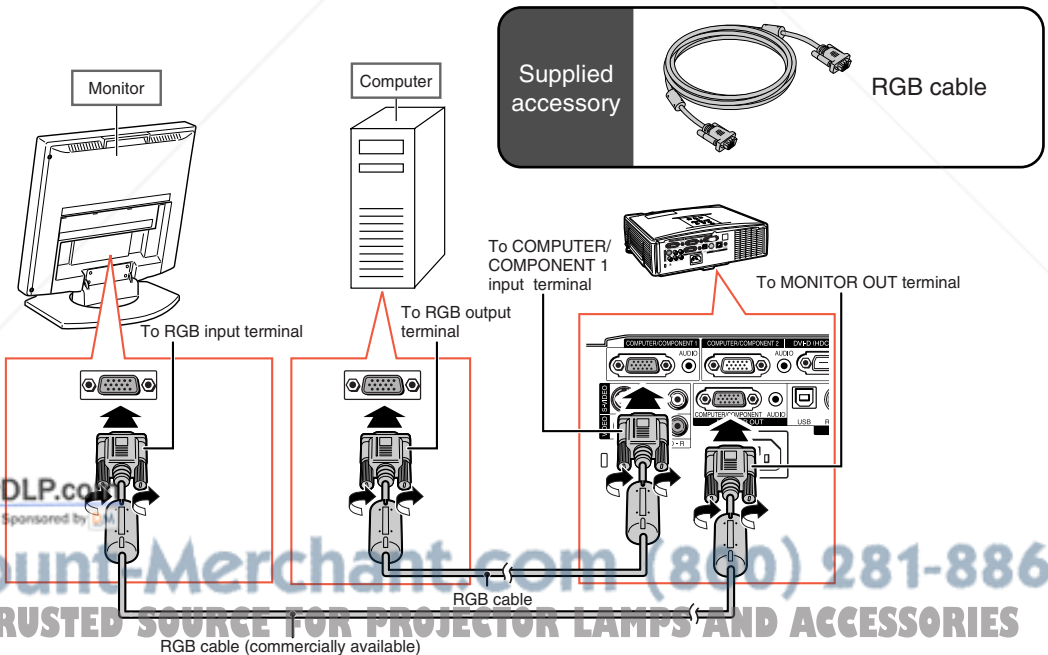


Note

- When connecting to hub, use straight-through Category 5 (CAT.5) type cable (commercially available).
- When connecting to computer, use cross-over Category 5 (CAT.5) type cable (commercially available).

Connecting to a Monitor with RGB Input Terminal

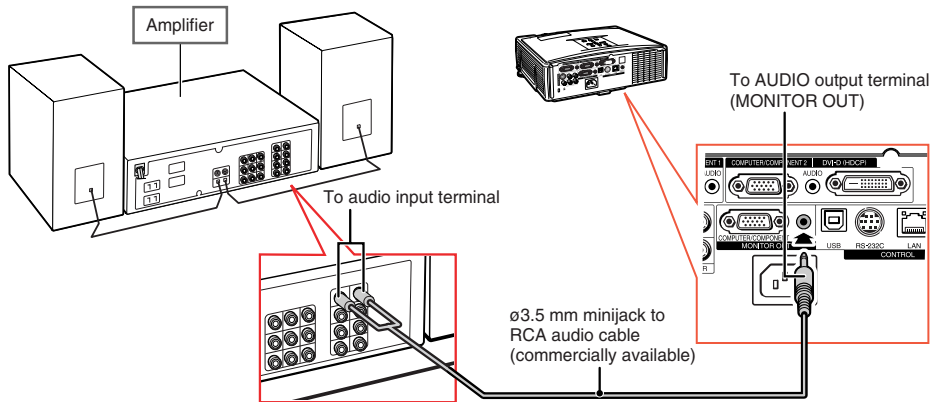
You can display computer images on both the projector and a separate monitor using two sets of RGB cables.



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Connecting to an Amplifier or Other Audio Equipment

Audio signals input from equipment connected to each audio input terminal of the projector can be output to audio equipment.



Note

- Turn off the power of both the projector and audio equipment when connecting.
- When turning off the power in the case of connecting an amplifier or other audio equipment, first turn off the power of the amplifier and then turn off the power of the projector.
- By using external audio components, the volume can be amplified for better sound.
- For details on Variable Audio Output (VAO) and Fixed Audio Output (FAO), see page 52.

Turning the Projector On/Off

Connecting the Power Cord

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

Turning the Projector On

Before performing the steps in this section, connect any equipment that you use with the projector. (See pages 23-29.)

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

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

Note

- The lamp indicator illuminates or blinks, indicating the status of the lamp.

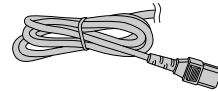
Green: The lamp is on.

Blinking green: The lamp is warming up.

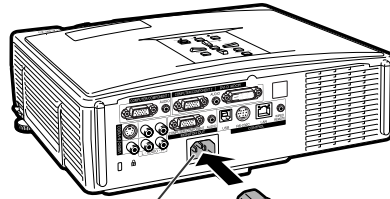
Red: The lamp is shut down abnormally or the lamp should be replaced.

- When switching on the projector, a slight flickering of the image may be experienced within the first minute after the lamp has been illuminated. This is normal operation as the lamp's control circuitry is stabilizing the lamp output characteristics. This does not indicate malfunction.
- If the projector is put into standby mode and immediately turned on again, the lamp may take some time to illuminate.
- When System Lock is set, the keycode input box appears. To cancel the keycode setting, input the keycode that you have already set. See page 52 for details.

Supplied accessory



Power cord



AC socket

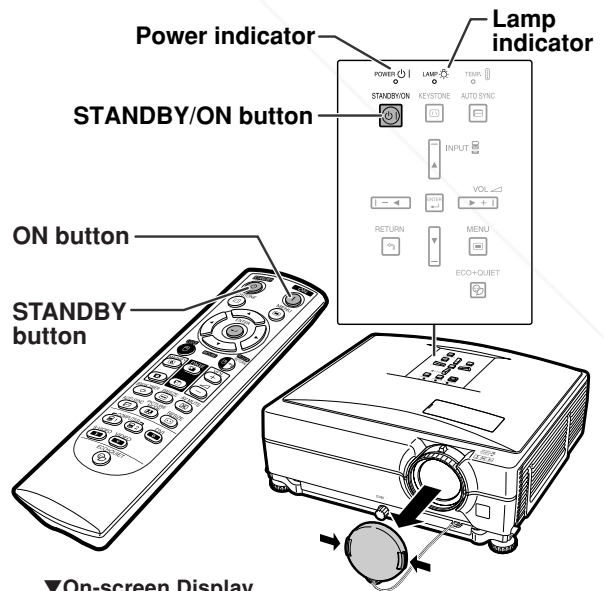
To AC outlet

Info

- When "Auto Restart" is set to "On":

If the power cord is unplugged from the outlet or the breaker switch is turned off when the projector is on, then the projector automatically turns on when the power cord is plugged into the AC outlet or the breaker switch is turned on. (See page 51.)

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



▼ On-screen Display

Enter STANDBY mode?

Yes : Press Again

No : Please Wait

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

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.

Info

- **Direct Power Off function:**

You can unplug the power cord from the AC outlet even if the cooling fan is still running.

Image Projection

Using the Adjustment Feet

The height of the projector can be adjusted using the adjustment feet when the screen is located higher than the projector, the screen is inclined or when the installation site is slightly inclined.

Install the projector so that it is as perpendicular to the screen as possible.

1 Press the Height Adjustment buttons.

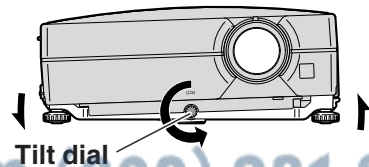
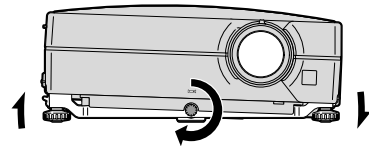
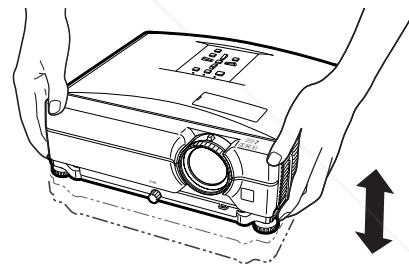
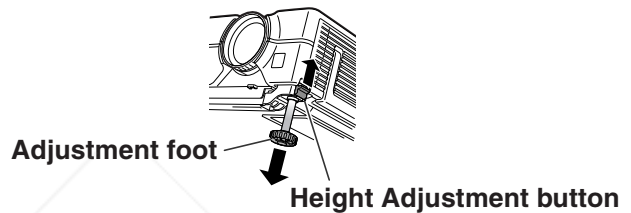
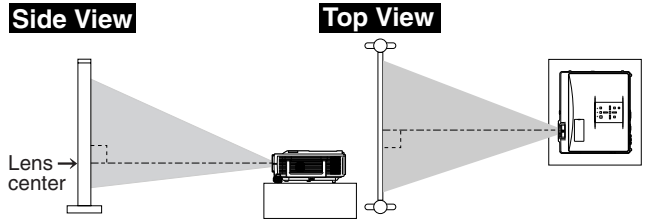
- The adjustment feet come out.

2 Lift the projector to adjust its height and remove your hands from the Height Adjustment buttons.

- The projector is adjustable up to approximately 9 degrees.

3 Rotate the Tilt dial to finely adjust the horizontal tilt of the projector.

- The inclination is adjustable within approximately 2 degrees.
- When adjusting the height of the projector, trapezoidal distortion occurs. When "Auto V-Keystone" of the "SCRADJ" menu is set to "On" (see page 49), keystone correction functions automatically to correct trapezoidal distortion. When you want to adjust the automatically corrected image, use the manual keystone correction. (See page 32.)



Info

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

Correcting Trapezoidal Distortion

Auto V-Keystone Correction

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.

This projector is equipped with an “Auto V-Keystone Correction” function that automatically corrects any trapezoidal distortion within the projected image. The correction is made automatically provided the vertical incline or decline is within ± 12 degrees.

Note

- When not using the Auto V-Keystone Correction function, set “Auto V-Keystone” on the “SCR-ADJ” menu to “Off”.

Manual Keystone Correction

When you want to make fine adjustments after the Auto V-Keystone Correction function has been activated, or when you want to make corrections without using the Auto V-Keystone Correction function, you can make corrections manually using the following procedure.

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

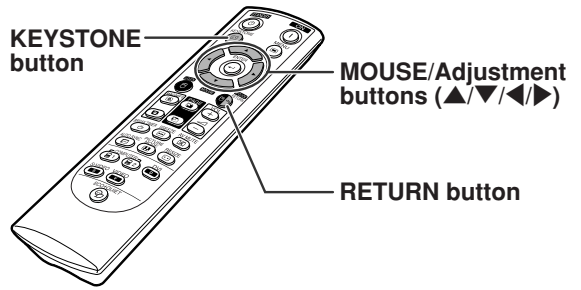
- You can also use **KEYSTONE** on the projector.

2 Press ▲ or ▼ to parallelize the left and right sides, or press ◀ or ▶ to parallelize the upper and lower sides of the projected image.

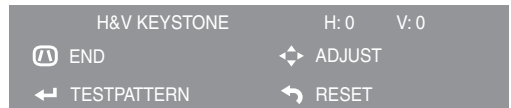
- You can also adjust the Keystone Correction using the ▲▼ and ◀▶ buttons on the projector.

3 Press KEYSTONE.

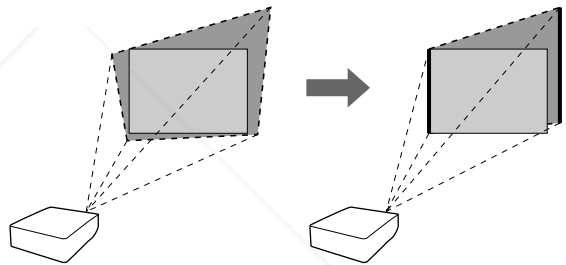
- The on-screen display of the Keystone Correction mode will disappear.
- You can also use **KEYSTONE** on the projector.



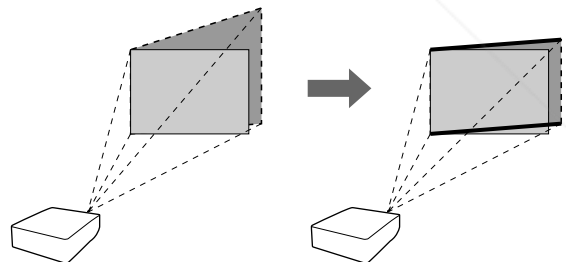
▼ On-screen Display (Keystone Correction mode)



Vertical Keystone Correction (Adjustment with ▲ / ▼)



Horizontal Keystone Correction (Adjustment with ◀ / ▶)



Note

- Press **RETURN** to return to the default setting.
- Straight lines or the edges of images may appear jagged while adjusting the image.
- The Manual Keystone Correction can be adjusted up to an angle of approximately ± 50 degrees vertically and approximately ± 30 degrees horizontally.

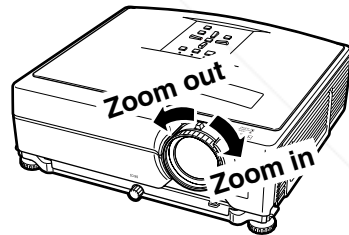
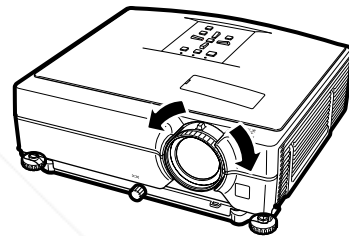
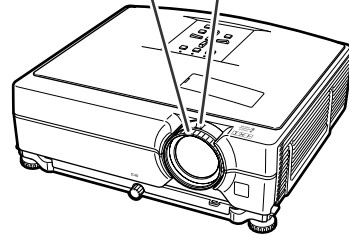
Adjusting the Lens

The image is focused and adjusted to the screen size using the focus ring or zoom knob on the projector.

- 1 The focus is adjusted by rotating the focus ring.

- 2 Zooming is adjusted by moving the zoom knob.

Focus ring Zoom knob

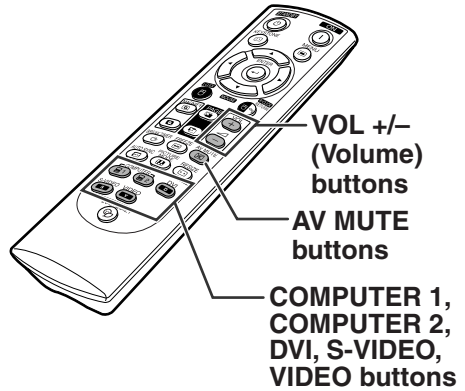


Switching the Input Mode

Select the appropriate input mode for the connected equipment.

Press **COMPUTER1/2**, **DVI**, **S-VIDEO** or **VIDEO** on the remote control to select the input mode.

- When you press **INPUT** on the projector or **DVI** on the remote control, the INPUT list appears. Press **▲/▼** to switch the INPUT mode.



Adjusting the Volume

Press **VOL +/-** on the remote control or **◀/▶+** on the projector to adjust the volume.

Note

- Pressing **VOL-/-◀** will lower the volume.
- Pressing **VOL+/>▶+** will raise the volume.
- When the projector is connected to external equipment, the volume level of the external equipment changes in accordance with the volume level of the projector. Set the projector's volume to the lowest level when turning the projector on/off or when changing the input signal.
- When you do not want to output the sound from the projector's speaker while the projector is connected to external equipment, set "Speaker" in "PRJ-ADJ" menu to "Off". (See page 51.)

On-screen display



Displaying the Black Screen and Turning off the Sound Temporarily

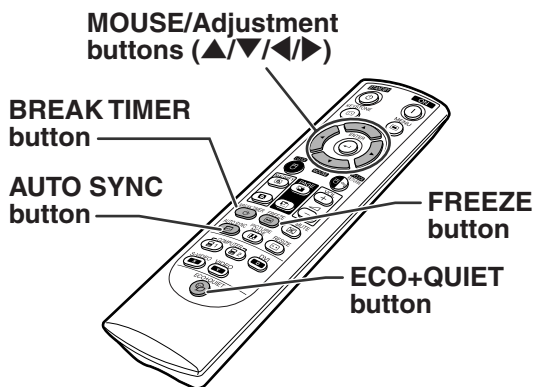
Press **AV MUTE** on the remote control to temporarily display a black screen and turn off the sound.

Note

- Pressing **AV MUTE** again will turn the projected image back on.

On-screen display





Displaying and Setting the Break Timer

1 Press **BREAK TIMER**.

- The timer starts to count down from 5 minutes.

On-screen display



2 Press ▲/▼/◀/▶ to adjust the length of the break time.

- **Increases with ▲ or ▶**
5 minutes → 6 minutes → 60 minutes
- **Shortens with ▼ or ▶**
4 minutes → 3 minutes → 1 minute
- The break time can be set in units of one minute (up to 60 minutes).

Canceling the break timer display function

Press **BREAK TIMER**.

Note

- Break Timer does not function while the projector is operating the "Auto Sync", "FREEZE" or "AV MUTE" functions.

Switching the Eco+Quiet Mode

Press **ECO+QUIET** to switch the Eco+Quiet mode between on and off.

- When the Eco+Quiet Mode is set to "ON", the sound of the cooling fan will turn down, the power consumption will decrease, and the lamp life will extend.

Note

- Refer to "Checking the Lamp Life Status" on page 53 for details of the Eco+Quiet mode.

Auto Sync (Auto Sync Adjustment)

Auto Sync function works when detecting input signal after the projector turns on.

Press **AUTO SYNC** to manually adjust with Auto Sync function.

Note

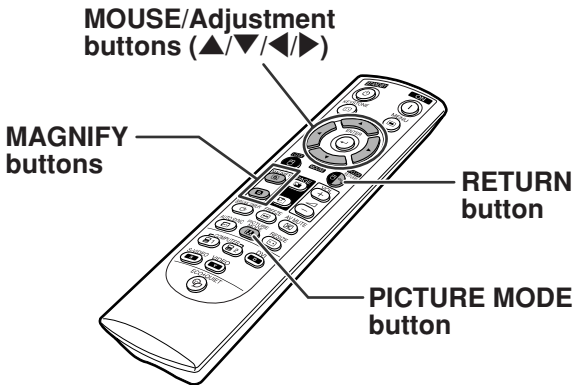
- When the optimum image cannot be achieved with Auto Sync adjustment, use manual adjustments. (See page 47.)

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 for the projected image, such as movie or video game.

Press **PICTURE MODE**.

- When pressing **PICTURE MODE**, the picture mode changes in the following order:

→STANDARD→PRESENTATION→MOVIE→GAME→sRGB→

Note

- See page 45 for details on the picture mode.

* "sRGB" is displayed only when RGB signal is input.

Displaying an Enlarged Portion of an Image

Graphs, tables and other portions of projected images can be enlarged. This is helpful when providing more detailed explanations.

1 Press **MAGNIFY** on the remote control.

- Enlarges the image.
- Pressing **MAGNIFY** enlarges or reduces the projected image.

Note

Press **MAGNIFY**.

→ x1 x2 x3 x4 x9

← Press **MAGNIFY**.

- You can change the location of the enlarged image using ▲, ▼, ◀ and ▶.

2 Press **RETURN** on the remote control to cancel the operation.

- The magnification then returns to x1.

Note

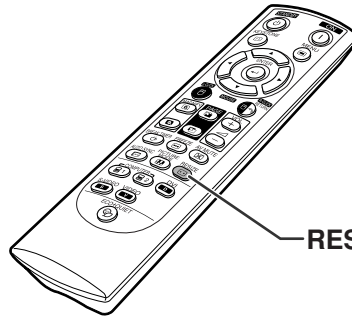
- The selectable magnifications differ depending on the input signal.
- In the following cases, the image will return to the normal size (x1).
 - When switching the INPUT mode.
 - When **RETURN** has been pressed.
 - When the input signal is changed.
 - When the input signal resolution and refresh rate (vertical frequency) change.
 - When the Resize mode is changed.
 - When the Picture mode is changed.
 - When the Progressive mode is changed.

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 a desired image.

Press **RESIZE**.


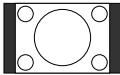
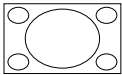
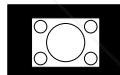
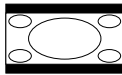
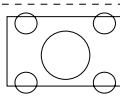

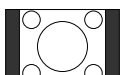
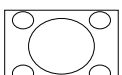
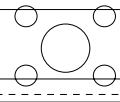
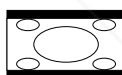




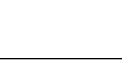






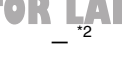
- See page 49 for setting on menu screen.



RESIZE button

COMPUTER

		NORMAL	FULL	DOT BY DOT	STRETCH
4:3 aspect ratio	SVGA (800 × 600)	1068 × 800	1280 × 800	800 × 600	1280 × 720
	XGA (1024 × 768)			1024 × 768	
	SXGA (1152 × 864)			1152 × 864	
	SXGA+ (1400 × 1050)			1400 × 1050	
Other aspect ratios	SXGA (1280 × 1024)	1000 × 800	1280 × 800	1280 × 1024	—
	1280 × 720	1280 × 720		—	
	1360 × 768	1280 × 722	1360 × 768	1280 × 720	
	1366 × 768	1280 × 720	1366 × 768		
	1280 × 768	1280 × 768	—		
	1280 × 800	1280 × 800	—	1280 × 720	

Input signal		Output screen image			
Computer	Image Type	NORMAL	FULL	DOT BY DOT	STRETCH
Resolution XGA and below	 4:3 aspect ratio				 ^{*1}
Resolution higher than XGA				 ^{*3}	
SXGA (1280 × 1024)	 5:4 aspect ratio				 ^{*1}
1280 × 720	 16:9 aspect ratio			 ^{*1}	
1360 × 768 1366 × 768	 16:9 aspect ratio				
1280 × 768	 15:9 aspect ratio			 ^{*1}	
1280 × 800	 16:10 aspect ratio				

■ : Cutout area on which images cannot be projected

⋯ : Area where the signals are off screen

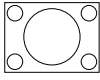
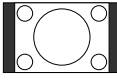
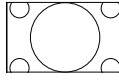
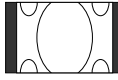
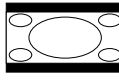
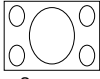
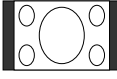

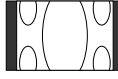

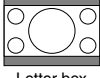
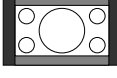

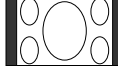
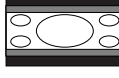
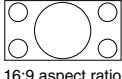


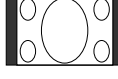

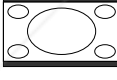
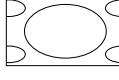
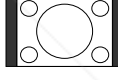
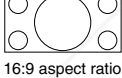



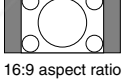
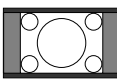
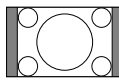
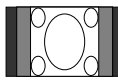
^{*1} The Image Shift function can be used for these images.


^{*2} Same as NORMAL mode.


^{*3} In case SXGA+ input.

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VIDEO/DTV

Input signal		Output screen image			
Video/DTV	Image Type	NORMAL	AREA ZOOM	V-STRETCH	STRETCH
480I, 480P, 576I, 576P, NTSC, PAL, SECAM	 4:3 aspect ratio				 *1
	 Squeeze				 *1
	 Letter box				 *1
720P, 1035I, 1080I, 1080P	 16:9 aspect ratio	 *1			_ *2
	 16:9 aspect ratio	 *1			
540P	 16:9 aspect ratio	 *1			
	 16:9 aspect ratio (4:3 aspect ratio in 16:9)	 *1			

 : Cutout area on which images cannot be projected

 : Area on which the image is not included in the original signals

*1 The Image Shift function can be used for these images.

*2 Same as NORMAL mode.

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 or Keystone Correction 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.

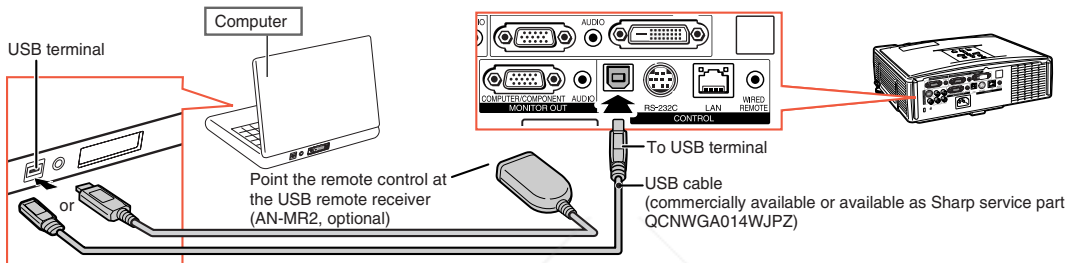
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Using the Remote Control as the Wireless Computer Mouse

When connecting the projector and the computer with a USB cable, you can use the remote control as the computer mouse.

If the computer is placed too far away from the projector to be connected via the USB cable, the separately sold remote receiver (AN-MR2) makes it possible to operate the projector with the remote control. For details, see the operation manual of the receiver.

Connecting with a USB cable

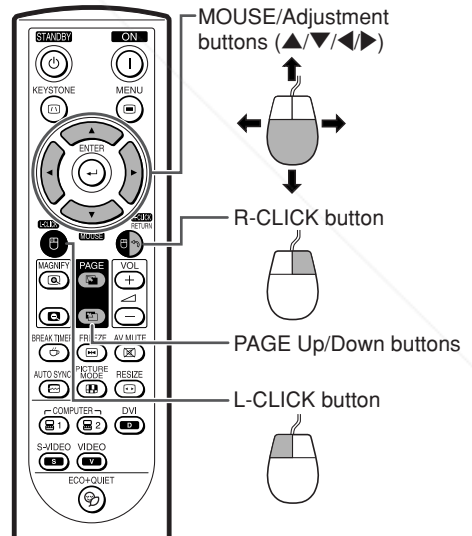


The mouse pointer can be operated in the following way after it is connected.

- **When moving the cursor**
Press MOUSE/Adjustment buttons (▲/▼/◀/▶).
- **When left-clicking**
Press L-CLICK.
- **When right-clicking**
Press R-CLICK.
- **When your computer supports only a one-click mouse (such as Macintosh)**
Press L-CLICK or R-CLICK.
L-CLICK and R-CLICK have common function.

■ When using [Page Up] or [Page Down]

Same as the [Page Up] and [Page Down] keys on a computer keyboard.
Press PAGE UP or PAGE DOWN PAGE.



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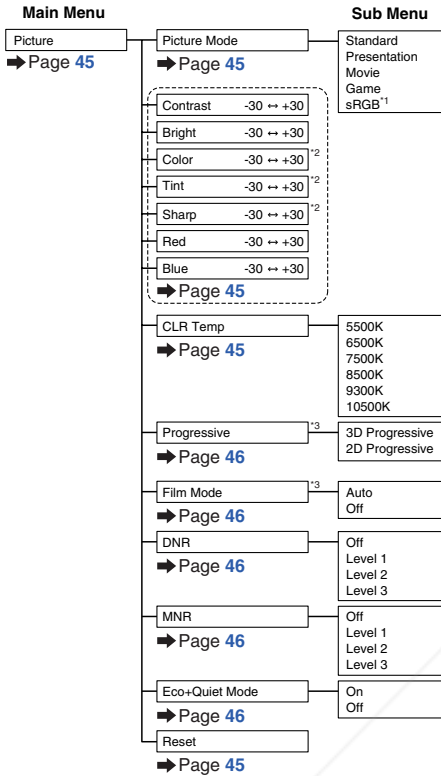
Note

- This function only works with the Microsoft® Windows® OS and Mac OS®. However, this function does not work with the following operation systems that do not support USB.
 - Versions earlier than Windows® 95
 - Versions earlier than Windows® NT4.0
 - Versions earlier than Mac OS® 8.5
- You cannot use this function when displaying the menu screen.
- Confirm that the computer recognizes the USB connection.

Menu Items

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

“Picture” menu

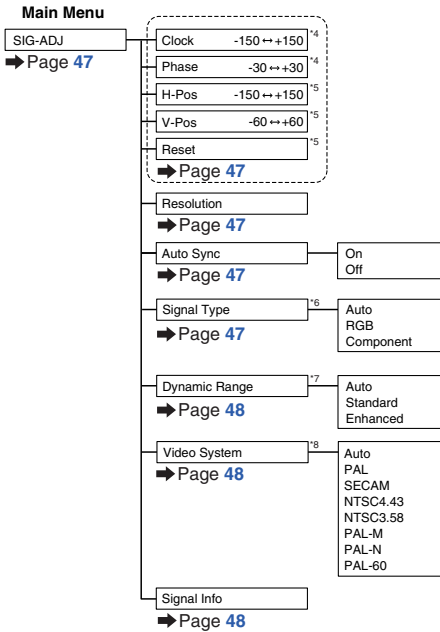


*1 Item when inputting RGB signal through COMPUTER/COMPONENT 1, 2 or DVI-D

*2 Items when inputting Component signal through COMPUTER/COMPONENT 1 or 2, or when selecting VIDEO or S-VIDEO

*3 “Progressive” and “Film Mode” can be adjusted only when 480I, 576I, 1035I or 1080I signal is input.

“Signal adjustment (SIG-ADJ)” menu



*4 Item when inputting RGB signal through COMPUTER/COMPONENT 1 or 2

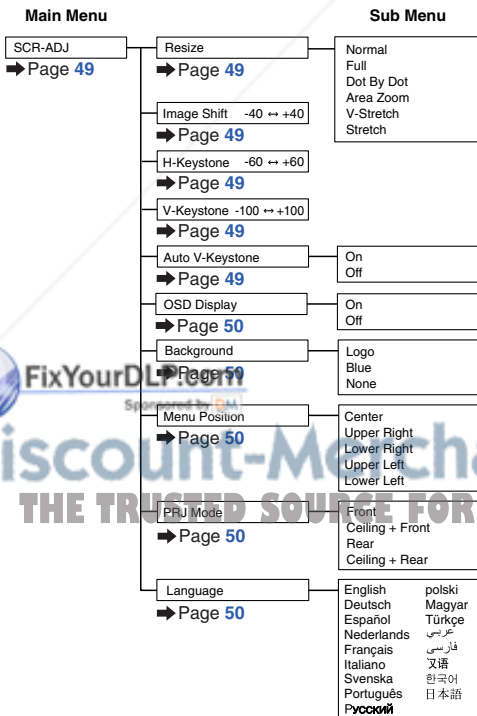
*5 Item when inputting COMPUTER/COMPONENT 1 or 2

*6 Item when selecting COMPUTER/COMPONENT 1, 2 or DVI-D

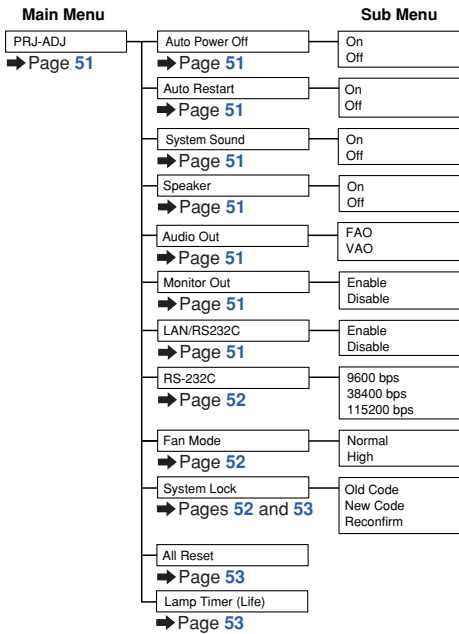
*7 Item when selecting DVI-D

*8 Item when selecting VIDEO or S-VIDEO

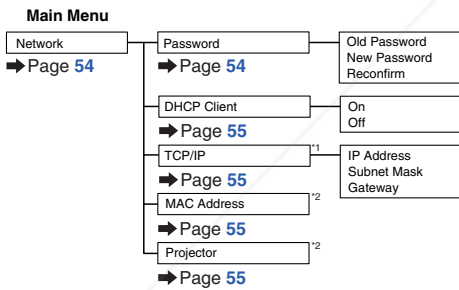
“Screen adjustment (SCR-ADJ)” menu



“Projector adjustment (PRJ-ADJ)” menu



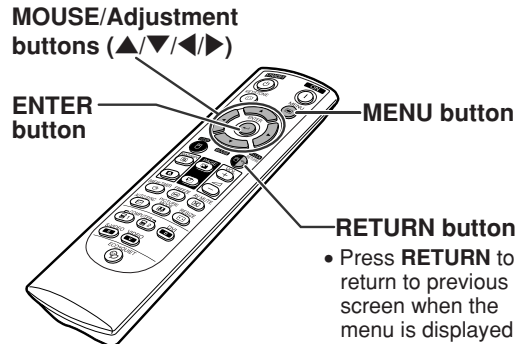
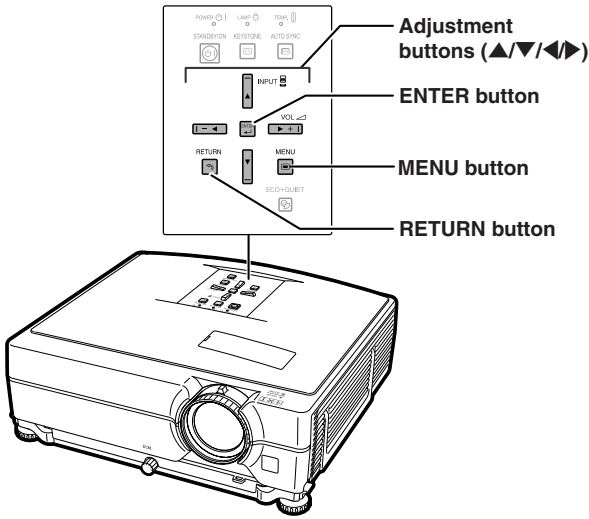
“Network” menu



*1 Adjustable only when DHCP Client is set to “Off”

*2 Display only

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 **◀** and select “Picture” to adjust.

Example: “Picture” screen menu

Menu item	
Picture	SIG SCR PRJ Net.
Picture Mode	↕ Standard
Contrast	[0] █ — █ + █
Bright	[0] █ — █ + █
Color	[0] █ — █ + █
Tint	[0] █ — █ + █
Sharp	[0] █ — █ + █
Red	[0] █ — █ + █
Blue	[0] █ — █ + █
CLR Temp	↕ 7500K
Progressive	↕ 3D Progressive
Film Mode	↕ Auto
DNR	↕ Off
MNR	↕ Off
Eco+Quiet Mode	↕ Off
◆◆◆ Reset	
↕ SEL./ADJ.	↕ ENTER
↕ RETURN	↕ END

3 Press ▲ or ▼ and select “Bright” to adjust.

- The selected item is highlighted.

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 (“Red” after “Bright”) will be displayed.

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.

Picture	SIG	SCR	PRJ	Net.
Picture Mode				
Standard				
Contrast	[0]	[]	[]	[]
Bright	[0]	[]	[]	[]
Color	[0]	[]	[]	[]
Tint	[0]	[]	[]	[]
Sharp	[0]	[]	[]	[]
Red	[0]	[]	[]	[]
Blue	[0]	[]	[]	[]
CLR Temp				7500K
Progressive				3D Progressive
Film Mode				Auto
DNR				Off
MNR				Off
Eco+Quiet Mode				Off
◆◆Reset				
SEL./ADJ.		ENTER		
RETURN		END		

Items to be adjusted

Pict.	SIG-ADJ	SCR	PRJ	Net.
Clock	[0]	[]	[]	[]
Phase	[0]	[]	[]	[]
H-Pos	[0]	[]	[]	[]
V-Pos	[0]	[]	[]	[]
◆◆Reset				

↑ Press ENTER.

The item displayed by itself

Picture	SIG	SCR	PRJ	Net.
Bright				
	[0]	[]	[]	[]
SEL./ADJ.		Rtn. Menu		
Rtn. Menu		END		

Picture	SIG	SCR	PRJ	Net.
Picture Mode				
Standard				
Contrast	[0]	[]	[]	[]
Bright	[15]	[]	[]	[]
Color	[0]	[]	[]	[]
Tint	[0]	[]	[]	[]
Sharp	[0]	[]	[]	[]
Red	[0]	[]	[]	[]
Blue	[0]	[]	[]	[]
CLR Temp				7500K
Progressive				3D Progressive
Film Mode				Auto
DNR				Off
MNR				Off
Eco+Quiet Mode				Off
◆◆Reset				
SEL./ADJ.		ENTER		
RETURN		END		

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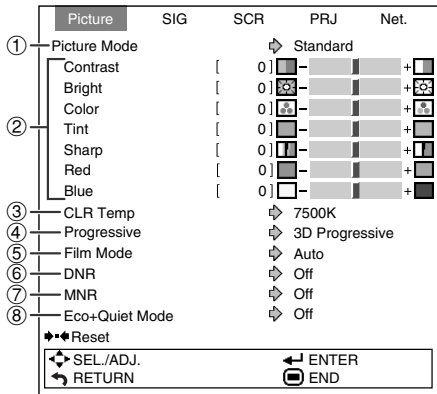
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Note

- Menu buttons do not function while the projector is operating the “Auto Sync”, “Break Timer”, “FREEZE”, or “AV MUTE” functions.

Picture Adjustment (“Picture” menu)



① Selecting the Picture Mode

Selectable items	Description	The default settings of CLR Temp
Standard	For standard image	7500K
Presentation	Brightens portions of image for more enhanced presentations.	7500K
Movie	Gives natural tint to the projected image.	6500K
Game	Gives sharpness to the projected image.	7500K
*sRGB	For high fidelity reproduction of images from a computer.	—

- “sRGB” is displayed only when RGB signal is input.
- 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 36.)
 - *sRGB is an international standard of color reproduction regulated by the IEC (International Electrotechnical Commission). As the fixed color area has been decided by the IEC, the images are displayed in a natural tint based on an original image, when “sRGB” is selected. For additional information about the sRGB function, visit “<http://www.srgb.com/>”
- You cannot set the items, “Red”, “Blue” and “CLR Temp”, when “sRGB” is selected.

Info

- When “sRGB” is selected, the projected image may become dark, but this does not indicate a malfunction.

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 ²	For weaker red.	For stronger red.
Blue ²	For weaker blue.	For stronger blue.

¹ Not adjustable/selectable in the RGB input mode.

² Not adjustable/selectable when selecting “sRGB” in “Picture Mode”.

Note

- “Red” and “Blue” cannot be set when selecting “sRGB” in “Picture Mode”.
- To reset all adjustment items, select “Reset” and press **ENTER**.

③ Adjusting the Color Temperature

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

Note

- Values on “CLR Temp” are only for general standard purposes.
- “CLR Temp” cannot be set when selecting “sRGB” in “Picture Mode”.

④ Selecting the Progressive Mode

Selectable items	Description
3D Progressive	Useful to display relatively slowmoving images such as drama and documentary more clearly.
2D Progressive	Useful to display fast-moving images such as sports and action films.

Note

- When the image is blurred or noisy, switch to the optimal mode.
- When using progressive inputs, inputs are directly displayed so that “2D Progressive” and “3D Progressive” cannot be selected.

⑤ Selecting the Film Mode

This function provides high-quality playback of images originally projected at 24 fps, such as movies on DVDs.

Selectable items	Description
Auto	Films are detected automatically.
Off	Films are not detected.

Note

- When using progressive inputs, “Film Mode” cannot be selected.
- The “Film Mode” function does not work when “2D Progressive” is selected in “Progressive Mode”.

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.

Note

- Set a level so as to view a clearer picture.
- Make sure to 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 all signals with VIDEO or S-VIDEO.
- This function is available for 480I, 480P, 576I and 576P signals with COMPUTER1/2 or DVI.

⑦ Mosquito Noise Reduction (MNR)

The so-called Mosquito Noise (flickering) can be reduced.

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

Info

- This function is available for all signals with VIDEO or S-VIDEO.
- This function is available for 480I, 480P, 576I and 576P signals with COMPUTER1/2 or DVI.

⑧ Eco+Quiet Mode Setting

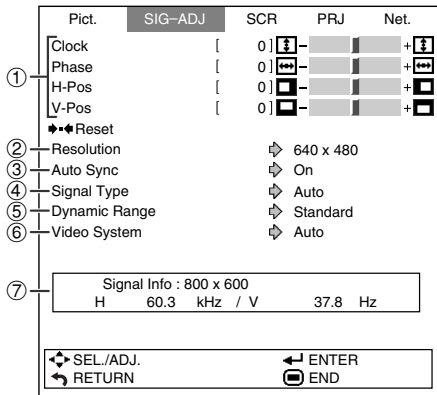
Selectable items	Brightness	Fan Sound	Lamp life
On	Approx. 80%	Low	Approx. 3,000 hours
Off	100%	Normal	Approx. 2,000 hours

Note

- You can also use **ECO+QUIET** on the remote control or on the projector to switch the Eco+Quiet Mode. (See page 35.)

Signal Adjustment (“SIG-ADJ” Menu)

Menu operation ➡ Page 43



① Adjusting the Computer Image

If the optimum image cannot be obtained with Auto Sync adjustment, use the SIG-ADJ function.

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

- To reset all adjustment items, select “Reset” and press **ENTER**.
- The adjustable range of “H-Pos” (H-Position) and “V-Pos” (V-Position) may vary depending on the screen resolution of the computer.

② Resolution 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 “Resolution” on the “SIG-ADJ” menu may need to be selected to match the computer display mode.

Note

- See “Checking the Input Signal” on page 48 for information on the currently selected input signal.

③ Auto Sync Adjustment

Used to automatically adjust a computer image.

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 projector or 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.

④ Signal Type Setting

This function allows you to select the input signal type RGB or Component for **COMPUTER/COMPONENT 1, 2 or DVI-D**.

Selectable items	Description
Auto	Input signals are automatically recognized as RGB or component.
RGB	Set when RGB signals are received.
Component	Set when Component signals are received.

⑤ Selecting the Dynamic Range

An optimum picture may not be displayed if a DVI-D-capable device’s output signal type and the projector’s input signal type do not match. If this should occur, switch “Dynamic Range”.

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

Note

- The Dynamic Range can be selected only when “DVI-D” input mode is selected.

⑥ Setting the Video System

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

Selectable items
Auto
PAL
SECAM
*NTSC4.43
NTSC3.58
PAL-M
PAL-N
PAL -60

* When reproducing NTSC signals in PAL video equipment.

Note

- The Video signal can only be set in VIDEO or S-VIDEO mode.
- When “Video System” is set to “Auto”, you may not receive a clear picture due to signal differences. Should this occur, switch to the video system of the source signal.

⑦ Checking the Input Signal

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

Screen Adjustment (“SCR-ADJ” Menu)

Menu operation ➡ Page 43

	Pict.	SIG	SCR-ADJ	PRJ	Net.
①	Resize			Normal	
②	Image Shift	[0]	▢	▢	+ ▢
	H-Keystone	[0]	▢	▢	+ ▢
③	V-Keystone	[0]	▢	▢	+ ▢
	Auto V-Keystone		On		
④	OSD Display		On		
⑤	Background		Logo		
⑥	Menu Position		Center		
⑦	PRJ Mode		Front		
⑧	Language		English		

SEL./ADJ. ENTER
 RETURN END

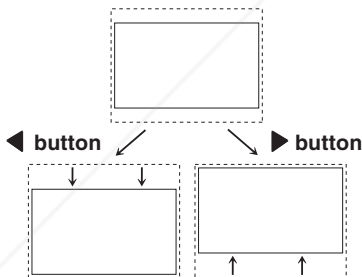
① Setting the Resize Mode

Note

- For details of the Resize mode, see pages 37 and 38.
- You can also press **RESIZE** on the remote control to set the resize mode. (See page 37.)

② Adjusting the Image Position

You can move the projected image vertically.



Note

- This function only works in some RESIZE modes. (See pages 37 and 38.)
- To reset this function, select “0”.

③ Keystone Correction

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.

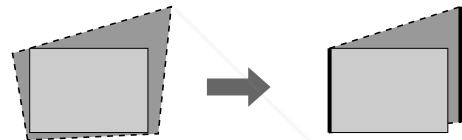
Auto V-Keystone Correction

Set “Auto V-Keystone” on the “SCR-ADJ” screen menu to “On”.

Manual Keystone Correction

Set “Auto V-Keystone” on the “SCR-ADJ” screen menu to “Off”. Select “V-Keystone”, and then press ◀ or ▶ to parallelize the left and right sides of the projected image with the slide bar. To parallelize the upper and lower sides, select “H-Keystone” and press ◀ or ▶.

Vertical Keystone Correction



Horizontal Keystone Correction



Note

- The Keystone Correction can be adjusted up to an angle of approximately ± 12 degrees with “Auto V-Keystone” and up to an angle of approximately ± 50 degrees with “V-Keystone” and approximately ± 30 degrees with “H-Keystone”.
- When the screen is slanting or the image is deteriorated, set “Auto V-Keystone” to “Off”.

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④ Setting the On-screen Display

This function allows you to turn the on-screen messages on or off.

Selectable items	Description
On	All On-screen Displays are displayed.
Off	INPUT/VOLUME/AV MUTE/FREEZE/AUTO SYNC/MAGNIFY/ “An invalid button has been pressed.” are not displayed.

⑤ Selecting a Startup and Background Image

Selectable items	Description
Logo	SHARP default image
Blue	Blue screen
None	Black screen

⑥ Selecting the Menu Screen Position

Select “Menu Position” on the “SCR-ADJ” menu and the desired position for the menu screen.

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

⑦ Reversing/Inverting Projected Images

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

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)

Note

- This function is used for the reversed image and ceiling-mount setups. (See page 19.)

⑧ Selecting the On-screen Display Language

The projector can switch the on-screen display language among 17 languages.

Helpful Functions Set during Installation (“PRJ-ADJ” menu)

Menu operation ➡ Page 43

	Pict.	SIG	SCR	PRJ-ADJ	Net.
①	Auto Power Off			On	
②	Auto Restart			On	
③	System Sound			On	
④	Speaker			On	
⑤	Audio Out			FAO	
⑥	Monitor Out			Enable	
⑦	LAN/RS232C			Enable	
⑧	RS-232C			9600bps	
⑨	Fan Mode			Normal	
⑩	System Lock			Disable	
⑪	◆◆ All reset				
⑫	Lamp Timer (Life)	[0]h	[0]min (100%)		

SEL./ADJ. ENTER
 RETURN END

① Auto Power Off Function

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

Note

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

② Auto Restart Function

Selectable items	Description
On	If the power cord is unplugged from the outlet or the breaker switch is turned off when the projector is on, then the projector automatically turns on when the power cord is plugged into the AC outlet or the breaker switch is turned on.
Off	The projector does not turn on automatically when the power cord is plugged into the AC outlet or the breaker switch is turned on.

③ Setting the Confirmation Sound (System Sound)

Selectable items	Description
On	A confirmation sound is made when the projector turns on/off.
Off	No confirmation sound is made.

④ Speaker Setting

This function allows you to set the audio output of the internal speaker to “On” or “Off” such as when the projector is connected to an external amplifier.

Selectable items	Description
On	The audio signal is output from the internal speaker.
Off	The audio signal is not output from the internal speaker.

⑤ Audio Output Type Setting

This function determines whether the audio level output from the AUDIO output (MONITOR output) terminal is fixed or variable by linking with VOLUME.

Selectable items	Description
FAO (Fixed Audio Output)	Audio output that does not vary in strength with the volume level of the source projector.
VAO (Variable Audio Output)	Audio output that varies in strength with the volume level of the source projector.

Info

- When “Audio Out” has been set to “VAO”, first make sure to lower the volume of the projector before turning the power on or off and when switching the input.

⑥ Monitor Output

⑦ LAN/RS232C

When set to “Enable”, the function is activated and power is consumed even in the standby mode. It is recommended that the function be set to “Disable” when it is not connected. This reduces power consumption when the projector is in the standby mode.

Selectable items	Description
Enable	The function is activated even if the projector is in standby mode.
Disable	The function is switched off when the projector is in standby mode.

Note

- When you want to control the projector using the LAN/RS232C function, select “Enable”.

⑧ Selecting the Transmission Speed (RS-232C)

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

Selectable items	Description
9600 bps	Transmission speed is slow. ↕
38400 bps	
115200 bps	

Note

- Refer to the “SETUP MANUAL” contained on the supplied CD-ROM for RS-232C Specifications and Command Settings.
- Refer to the computer’s operation manual for instructions for setting the computer’s baud rate.

⑨ 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 1,500 meters (4,900 feet) or more.

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

⑩ System Lock Function

This function prevents unauthorized use of the projector. Once this function is activated, users must enter the correct keycode each time the projector is turned on. **We suggest you record the keycode in a safe place where only authorized users have access.**

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- If you lose or forget your keycode, contact your nearest Sharp Authorized Projector Dealer or Service Center (see page 68). Even if the product warranty is valid, the keycode reset will incur a charge.

Setting/Changing the keycode

1 Select “System Lock”, then press **ENTER** or **▶**.

2 Select “Next”, then press **ENTER**.
• The screen for entering the keycode appears.

3 Press the 4 buttons on the remote control or on the projector to enter the preset keycode in “Old Code”.
• When setting the keycode for the first time, press **▼** on the projector for four times.

Note

- If you input a wrong keycode, the cursor returns to the first point of the “Old Code”.
- The preset keycode is 4 **▼** buttons on the projector. When you press the **▼** button four times, the keycord input screen disappears.

4 Press the 4 buttons on the remote control or on the projector to enter the new keycode in “New Code”.

Note

- You cannot use the following buttons for keycode: **STANDBY/ON, ON, STANDBY, ENTER, L-CLICK, R-CLICK/RETURN, MENU, ECO+QUIET** and **BREAK TIMER**
- **System lock function recognizes each button on the remote control or on the projector as an individual button, even if they share the same button name. If you used the buttons on the projector in setting your keycode, the keycode cannot be canceled with the remote control.**

5 Enter the same keycode in “Re-confirm”.

Note

To cancel the keycode that you have already set

- Press ▼ on the projector for four times in steps 4 and 5 above.

When the System Lock is set

- When System Lock is set, the keycode input screen appears after the power is turned on. When it appears, enter the right keycode to start projection.

Input screen for keycode



Keylock Function

Locking the Operation Buttons on the Projector

Use this function to lock the operation buttons on the projector.

■ Locking the Operation Buttons

Hold down **ENTER** on the projector for about 5 seconds while the projector is being turned on.

▼On-screen Display

Keylock function ON

- The keylock function does not affect the operation with the remote control buttons.
- You cannot use the keylock function while the projector is warming up.

■ Taking the Keylock off

Hold down **ENTER** on the projector for about 5 seconds.

▼On-screen Display

Keylock function OFF

When the projector is in standby mode, you can release the keylock by holding down **ENTER** and **STANDBY/ON** on the projector simultaneously for about 5 seconds.

Info

- Keylock cannot be set while the projector is: displaying the “Menu” screens, in standby mode, warming up, changing input signals, operating “Auto Sync” function or on the “System Lock” screen during warming up.

11 Returning to the Default Settings

This function allows you to initialize the settings you have made in the projector.

Note

The following items or menu cannot be initialized.

- “SIG-ADJ” menu
Resolution
- “SCR-ADJ” menu
Language
- “PRJ-ADJ” menu
Lamp Timer (Life)
System Lock

12 Checking the Lamp Life Status

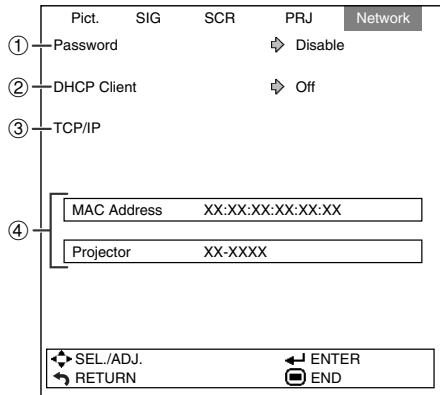
You can confirm the cumulative lamp usage time and the remaining lamp life (percentage).

Lamp usage condition	Remaining lamp life	
	“Life”	
	100%	5%
Operated exclusively while “Eco+Quiet Mode” is “On”.	Approx. 3,000 hours	Approx. 150 hours
Operated exclusively while “Eco+Quiet Mode” is “Off”.	Approx. 2,000 hours	Approx. 100 hours

Note

- It is recommended that the lamp be changed when the remaining lamp life becomes 5%.
- Remaining lamp life changes within the range of the values shown depending on the frequency at which “Eco+Quiet Mode” is switched to “On” and “Off”. (See page 46.)
- The lamp life may vary depending on the usage condition.

Setting up the Projector Network Environment (“Network” menu)



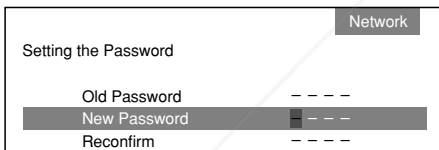
① Setting a Password

If you do not want others to change the setting for the “Network” menu, set a password.

Setting a Password

1 Select “Password”, then press ►.

- The screen for entering the password appears.



2 Press ▲ or ▼ to set the first digit in “New Password”, then press ►.

3 Enter the remaining 3 digits, then press ENTER.

- To return to the previous digit, press ◀.

4 Enter the same password in “Reconfirm”, then press ENTER.

- The status for “Password” changes to “Enable”.

Note

- Once after the password is set, you must enter the password to change the “Network” menu settings.

Changing the Password

1 Select “Password”, then press ►.
 • The screen for entering the password appears.

2 Enter the password in “Old Password” using ▲, ▼, ► and ◀, then press ENTER.

3 Enter the password in “New Password” using ▲, ▼, ► and ◀, then press ENTER.

4 Enter the same password again in “Reconfirm” using ▲, ▼, ► and ◀, then press ENTER.

Note

- If you do not need the password protection for the “Network” menu settings anymore, press ENTER without entering new password in steps 3 and 4.
- To cancel the password settings, press RETURN.

If you forget the password

If you forget the password, perform the following procedure to delete it, then set a new password.

On the projector, press



Note

- If ENTER is held down for more than 5 seconds, the operation buttons on the projector will be locked. (See page 53.)
- You cannot use the buttons on the remote control to delete the password.

② DHCP Client Setting

Connect the LAN cable before turning the projector on. If not, the DHCP Client function does not work.

Selectable items	Description
On	Obtains configuration parameters for TCP/IP network automatically.
Off	Sets the TCP/IP manually.

Select "On" for "DHCP Client". "Obtaining IP Address..." appears, then the menu screen appears. Confirm the parameters of IP Address, Subnet Mask and Gateway on the TCP/IP screen.

If the DHCP server is not available, "Could not obtain IP Address." appears.

In this case, set the TCP/IP manually. (See the item ③.)

③ TCP/IP Setting

Set the TCP/IP manually.

1 Select "Off" for "DHCP Client", then press **ENTER**.

2 Select "TCP/IP", then press **ENTER**.

3 Enter "IP Address" using ▲, ▼, ► and ◀, then press **ENTER**.

Setting the TCP/IP		Network
IP Address	1 9 2 . 1 6 8 . 1 5 0 . 0 0 2	
Subnet Mask	2 5 5 . 2 5 5 . 2 5 5 . 0 0 0	
Gateway	0 0 0 . 0 0 0 . 0 0 0 . 0 0 0	

4 Enter "Subnet Mask" using ▲, ▼, ► and ◀, then press **ENTER**.

5 Enter "Gateway" using ▲, ▼, ► and ◀, then press **ENTER**.

Selectable items	Description
IP Address	Factory default setting: 192.168.150.002 Enter an IP address appropriate for the network.
Subnet Mask	Factory default setting: 255.255.255.000 Set the subnet mask to the same as that of the computer and equipment on the network.
Gateway	Factory default setting: 000.000.000.000 * When not in use, set to "000.000.000.000".

Note

- Confirm the existing network's segment (IP address group) to avoid setting an IP address that duplicates the IP addresses of other network equipment or computers. If "192.168.150.002" is not used in a network with an IP address of "192.168.150.XXX", you don't have to change the projector IP address.
- For details about each setting, consult your network administrator.

④ Confirming the Projector Information

You can confirm the MAC address and projector name.

Displayed items	Description
MAC Address	The MAC address of the projector is displayed.
Projector	The projector name is displayed.

Note

- For information on how to change the projector name, see "SETUP MANUAL" contained in the supplied CD-ROM.

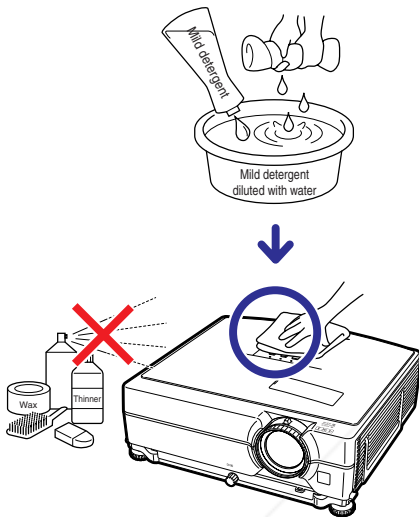
Maintenance

Cleaning the projector

- Ensure the power cord is unplugged 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.

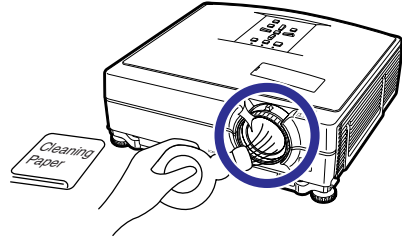
The effects of some of the agents in the plastic may cause damage to the quality or finish of the projector.



- 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.

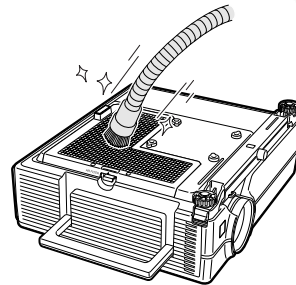
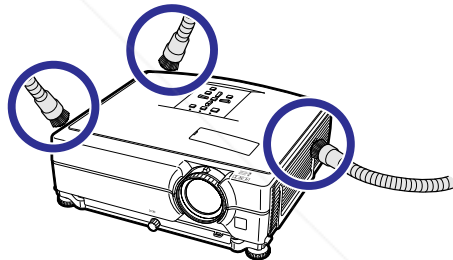
Cleaning the lens

- 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 careful 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, ensure you press **STANDBY/ON** on the projector or **STANDBY** on the remote control and put the projector into standby mode. After the cooling fan has stopped, unplug the power cord from the AC socket and clean the vents.
- The air filters should be cleaned every 100 hours of use. Clean the filters more often when the projector is used in a dusty or smoky location.

Replacing the Air Filter

- This projector is equipped with air filters to ensure the optimal operating condition of the projector.
- Ask your nearest Sharp Authorized Projector Dealer or Service Center to exchange the filter (PFILDA022WJKZ) when it is no longer possible to clean.

Replacing the Air Filter

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

- Wait until the cooling fan stops.

2 Disconnect the power cord.

- Unplug the power cord from the AC socket.

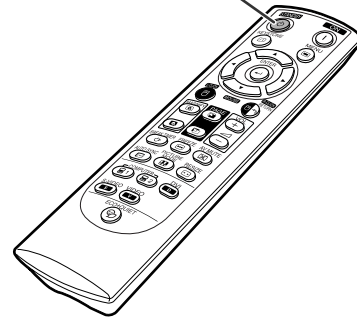
3 Remove the filter cover.

- Turn over the projector. Pull down the carrying handle (①), grab the tab (②) and slide open the filter cover (③).

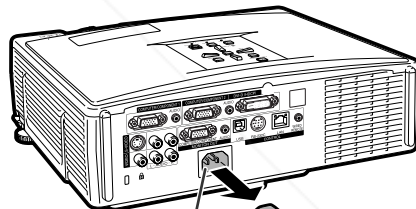
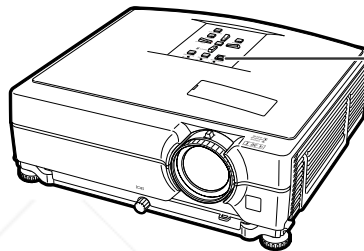
4 Remove the air filter.

- Pick the air filter up with your fingers and lift it out of the filter cover.

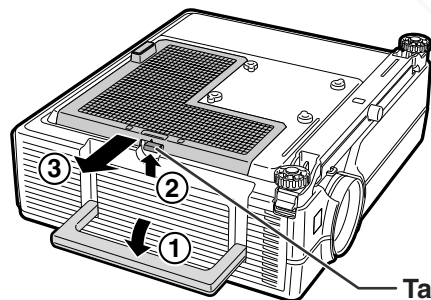
STANDBY button



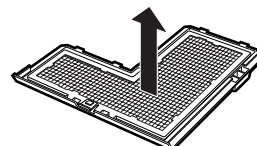
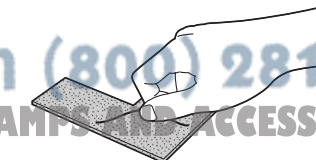
STANDBY/ON button



AC socket



Tab

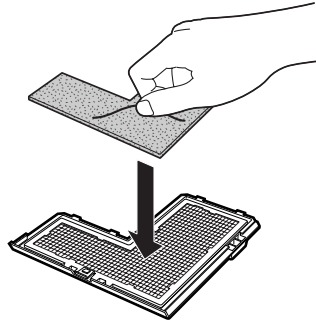


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Replacing the Air Filter

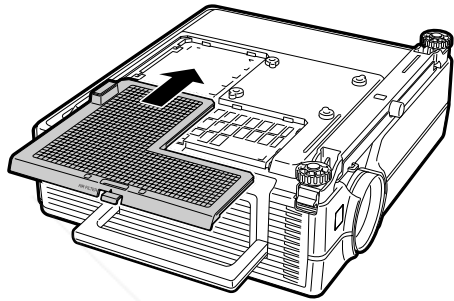
5 Place a replacement air filter.

- Place the new air filter onto the filter cover.



6 Replace the filter cover.

- Slide the filter cover in the direction of the arrow to close it.

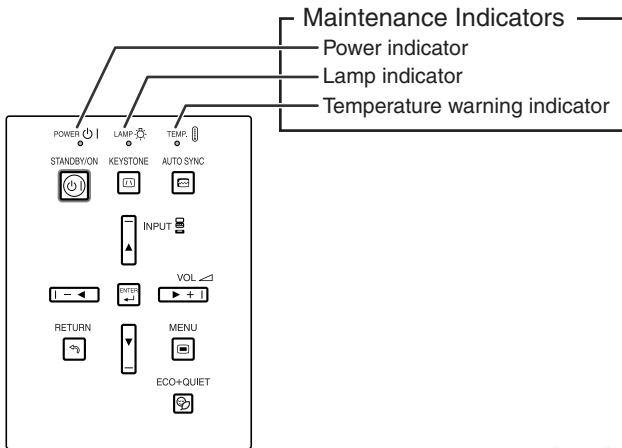


Note

- Ensure the filter cover is securely installed. The power will not turn on unless it is correctly installed.

Maintenance Indicators

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



About the temperature warning indicator



If the temperature inside the projector increases, due to blockage of the air vents, or the setting location, "TEMP." will illuminate in the lower left corner of the picture. If the temperature keeps on rising, the lamp will turn off and the temperature warning indicator will blink, the cooling fan will run for a further 90 seconds, and then the projector will enter the standby mode. After "TEMP." appears, ensure you perform the measures described on page 60.

About the lamp indicator



■ When the remaining lamp life becomes 5% or less, "Change The Lamp." (yellow) and "Change The Lamp." will be displayed on the screen. When the percentage becomes 0%, it will change to "Change The Lamp." (red), the lamp will automatically turn off and then the projector will automatically enter the standby mode. At this time, the lamp indicator will illuminate in red.

■ If you try to turn on the projector a fourth time without replacing the lamp, the projector will not turn on.

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Maintenance Indicators

	Maintenance indicator		Problem	Cause	Possible solution
	Normal	Abnormal			
Temperature warning indicator	Off	Red on (Standby)	The internal temperature is abnormally high.	<ul style="list-style-type: none"> Blocked air intake Cooling fan break-down Internal circuit failure Clogged air intake 	<ul style="list-style-type: none"> Relocate the projector to an area with proper ventilation (see page 8). Take the projector to your nearest Sharp Authorized Projector Dealer or Service Center (see page 68) for repair. Clean the exhaust and intake vents. (See page 56.)
Lamp indicator	Green on (Green blinks when the lamp is warming up)	Red on	The lamp does not illuminate.	<ul style="list-style-type: none"> The lamp is shut down abnormally. 	<ul style="list-style-type: none"> Disconnect the power cord from the AC outlet, and then connect it again. Carefully replace the lamp. (See page 62.) Take the projector to your nearest Sharp Authorized Projector Dealer or Service Center (see page 68) for repair. Please exercise care when replacing the lamp. Securely install the lamp unit cover.
		Red on (Standby)	Time to change the lamp.	<ul style="list-style-type: none"> Remaining lamp life becomes 5% or less. Burnt-out lamp Lamp circuit failure 	
Power indicator	Green on/ Red on Green blinks (Cooling)	Red blinks	The power indicator blinks in red when the projector is on.	<ul style="list-style-type: none"> The filter cover, lamp unit cover or lens housing cover is open. Cooling fan break-down 	<ul style="list-style-type: none"> If the power indicator blinks even when the covers are securely installed, or if the cooling fan does not run normally, then contact your nearest Sharp Authorized Projector Dealer or Service Center (see page 68) for advice.

Info

- If the temperature warning indicator illuminates and the projector enters the standby mode, check whether any of the ventilation holes are blocked (see page 8) and then try turning the power back on. Wait until the projector has cooled down completely before plugging in the power cord and turning the power back on. (At least 10 minutes.)
- If the power is turned off for a brief moment due to power outage or some other cause while using the projector, and the power supply recovers immediately after that, the lamp indicator will illuminate in red and the lamp may not be lit. In this case, unplug the power cord from the AC outlet, replace the power cord in the AC outlet and then turn the power on again.
- 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.



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Regarding the Lamp

Lamp

- It is recommended that the lamp unit (optional: AN-C430LP) 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 53.
- Purchase a replacement lamp unit of type AN-C430LP from your place of purchase, nearest Sharp Authorized Projector Dealer or Service Center.

IMPORTANT NOTE TO U.S. CUSTOMERS:

The lamp included with this projector is backed by a 90-day parts and labor limited warranty. All service of this projector under warranty, including lamp replacement, must be obtained through a Sharp Authorized Projector Dealer or Service Center. For the name of the nearest Sharp Authorized Projector Dealer or Service Center, please call toll-free: 1-888-GO-SHARP (1-888-467-4277).

Hg LAMP CONTAINS MERCURY For State Lamp Disposal Information
www.lamprecycle.org or 1-800-BE-SHARP

U.S.A. ONLY

Caution Concerning the Lamp

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

Replacing the Lamp

Caution

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

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

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

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Removing and Installing the Lamp Unit

⚠ Warning!

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

📖 Info

- 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, make sure you 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).

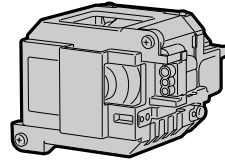
3 Remove the lamp unit cover.

- Loosen the user service screw (①) that secures the lamp unit cover. Slide down (②) and remove the lamp unit cover (③).

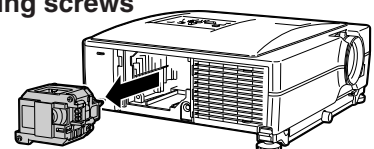
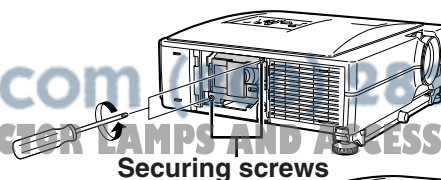
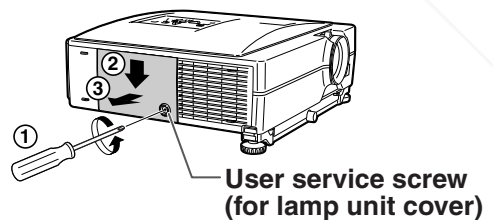
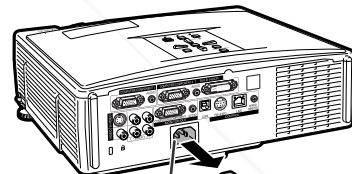
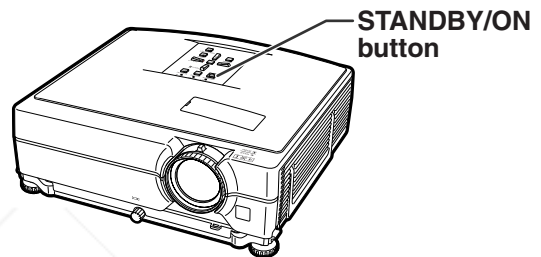
4 Remove the lamp unit.

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

Optional
accessory

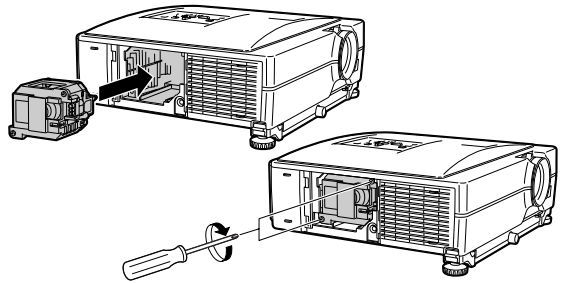


Lamp unit
AN-C430LP



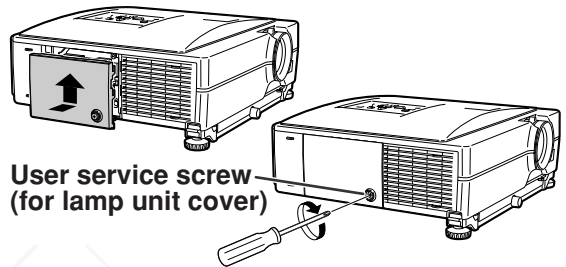
5 Insert the new lamp unit.

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



6 Replace the lamp unit cover.

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



Info

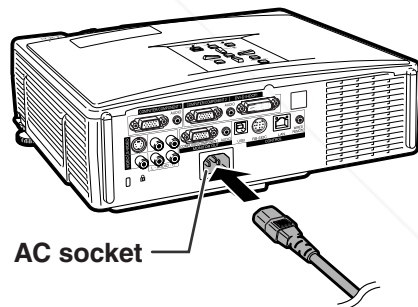
- If the lamp unit and lamp unit cover are not correctly installed, the power will not turn on, even if the power cord is connected to the projector.

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.
- You can also reset the lamp timer via the LAN.
(Refer to the SETUP MANUAL on the supplied CD-ROM for details.)



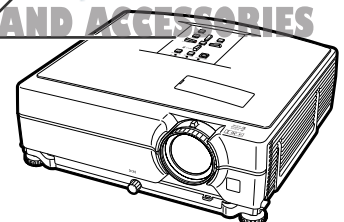
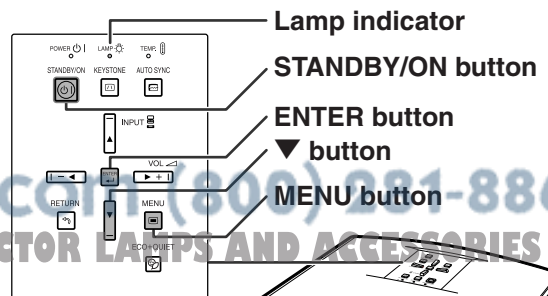
1 Connect the power cord.

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

2 Reset the lamp timer.

While simultaneously holding down **ENTER** and **MENU** on the projector, press **STANDBY/ON** on the projector and keep all four buttons pressed down until the lamp indicator starts blinking green.

- "LAMP 0000H" is displayed, indicating that the lamp timer is reset.



Storing the Projector

How to Use the Storage Case

When storing the projector, attach the lens cap to the lens, and place it in the supplied storage case.

1 Open the cover of the storage case.

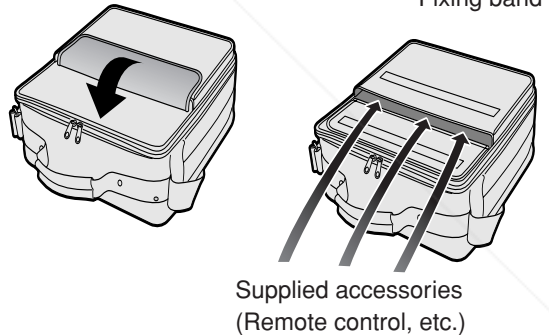
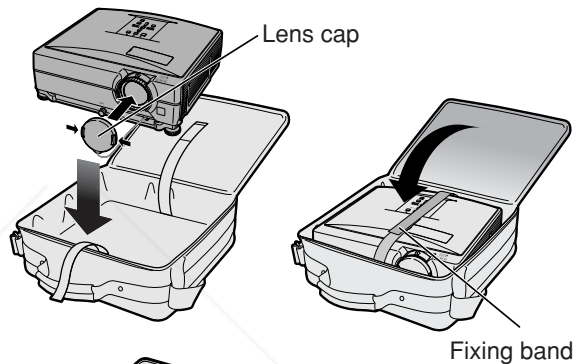
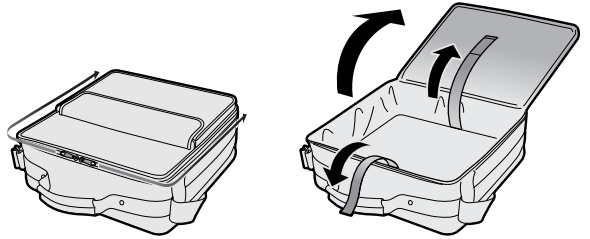
2 Place the projector into the storage case.

Info

- Ensure the projector has cooled down sufficiently before placing it in the case.
- Ensure the lens cap is attached to the lens for protection.
- **Place the projector into the storage case with the lens facing the handle.**
- Ensure the projector is held in place by using the fixing band.

3 Close the cover of the storage case.

4 Place the accessories in the front pocket of the storage case.



Computer Compatibility Chart

Computer

- Multiple signal support
Horizontal Frequency: 15–110 kHz
Vertical Frequency: 43–85 Hz

- Pixel Clock: 12–170 MHz
Sync signal: Compatible with TTL level
• Compatible with sync on green signal

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

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Analog RGB Support	VESA	Digital RGB Support
VGA	640 × 350	27.0	60	✓		
		31.5	70			
		37.9	85			
	640 × 400	27.0	60		✓	
		31.5	70			
		37.9	85			
	720 × 350	27.0	60			
		31.5	70			
		37.9	85		✓	
	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	31.3	50			
		35.2	56	✓		
		37.9	60			
		46.6	70			
		48.1	72	✓		
		46.9	75			
XGA	1024 × 768	53.7	85			
		40.3	50			
		48.4	60			
		56.5	70	✓		
		60.0	75			
		68.7	85			
WXGA	1280 × 720	45.0	60			
		47.8	60			
	1280 × 800	49.7	60	✓		
		62.8	75			
	1360 × 768	47.7	60			
		47.8	60			
SXGA	1152 × 864	55.0	60			
		66.2	70			
		67.5	75	✓		
	1280 × 1024	64.0	60			
		80.0	75			
		64.0	60			
SXGA+	1400 × 1050	65.3	60	✓		
		65.3	60			
UXGA	1600 × 1200	75.0	60			
MAC 13*	640 × 480	34.9	67			
MAC 16*	832 × 624	49.7	75			
MAC 19*	1024 × 768	60.2	75			
MAC 21*	1152 × 870	68.7	75			



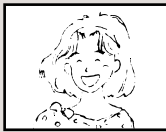
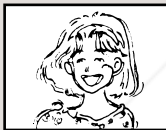
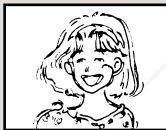

Note

- This projector may not be able to display images from notebook computers in simultaneous (CRT/LCD) mode. Should this occur, turn off the LCD display on the notebook computer and output the display data in “CRT only” mode. Details on how to change display modes can be found in your notebook computer’s operation manual.
- When this projector receives 640 × 350 VESA format VGA signals, “640 × 400” appears on the screen.
- When projecting the RGB interlace signal using COMPUTER/COMPONENT 1, 2 or DVI-D with “Signal Type” set to “Auto” or “RGB”, the image may not be projected as desired. In this case, use either Video or S-Video.
- Depending on the computer you are using, the output signal may not be faithful to the “Screen resolution” adjustment. Check the settings of the computer’s signal output. If the settings cannot be changed, it is recommended that the resolution be set to the one that corresponds to “1280 × 800”.


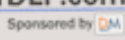
DTV

Signal	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	DVI Support
480I	15.7	60	
480P	31.5	60	✓
540P	33.8	60	
576I	15.6	50	
576P	31.3	50	✓
720P	37.5	50	✓
720P	45.0	60	✓
1080I	28.1	50	✓
1080I	33.8	60	✓
1080P	56.3	50	✓
1080P	67.5	60	✓

Troubleshooting

Problem	Check	Page
 <p>No picture and no sound or projector does not start.</p>	<ul style="list-style-type: none"> • Projector power cord is not plugged into the wall outlet. 	30
	<ul style="list-style-type: none"> • Power to the external connected devices is off. 	—
	<ul style="list-style-type: none"> • The selected input mode is wrong. 	34
	<ul style="list-style-type: none"> • The AV MUTE function is working. 	34
	<ul style="list-style-type: none"> • Cables incorrectly connected to the rear panel of the projector. 	23-29
	<ul style="list-style-type: none"> • Remote control batteries have run out. 	15
	<ul style="list-style-type: none"> • External output has not been set when connecting notebook computer. 	23
 <p>Sound is heard but no picture appears.</p>	<ul style="list-style-type: none"> • The filter cover, lamp unit cover or lamp housing cover is not installed correctly. 	60
	<ul style="list-style-type: none"> • If the connected DVI digital equipment is turned on before the “DVI-D” input mode is selected on the projector, the image may not be projected properly or may not be displayed at all. Ensure that the appropriate input mode has been selected on the projector before you turn on the connected equipment. 	24
	<ul style="list-style-type: none"> • Cables incorrectly connected to the rear panel of the projector. 	23-29
 <p>Color is faded or poor.</p>	<ul style="list-style-type: none"> • “Bright” is set to minimum position. 	45
	<ul style="list-style-type: none"> • 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 computer’s operation manual for how to switch its signal output settings. 	—
 <p>Color is faded or poor.</p>	<ul style="list-style-type: none"> • Image adjustments are incorrectly set. 	45
	<p>(Video, S-Video Input only)</p> <ul style="list-style-type: none"> • Video input system is incorrectly set. 	48
	<p>(COMPUTER/COMPONENT 1, 2, DVI-D only)</p> <ul style="list-style-type: none"> • Input signal type (RGB/Component) is incorrectly set. 	47
 <p>Picture is blurred; noise appears.</p>	<ul style="list-style-type: none"> • Adjust the focus. 	33
	<ul style="list-style-type: none"> • The projection distance exceeds the focus range. 	19
	<ul style="list-style-type: none"> • 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. 	—
	<p>(Computer Input only)</p> <ul style="list-style-type: none"> • Perform “SIG-ADJ” Adjustments. (“Clock” Adjustment) • Perform “SIG-ADJ” Adjustments. (“Phase” Adjustment) • Noise may appear depending on the computer. 	47 47 —
 <p>Picture appears but no sound is heard.</p>	<ul style="list-style-type: none"> • Cables incorrectly connected to the rear panel of the projector. 	23-29
	<ul style="list-style-type: none"> • Volume is set to minimum. 	34
	<ul style="list-style-type: none"> • When the projector is connected to an external device and the volume is set to minimum, the sound is not output even if you turn up the volume of the external device. 	—
<p>Data image is not centered.</p>	<ul style="list-style-type: none"> • “Speaker” is set to “Off”. 	51
	<ul style="list-style-type: none"> • Make the necessary adjustments of each item in the “SIG-ADJ” menu. 	47
	<ul style="list-style-type: none"> • Depending on the computer you are using, the output resolution signal may be different from the one you have set. For details, refer to the operation manual of the computer. 	—

Problem	Check	Page
An unusual sound is occasionally heard from the cabinet.	<ul style="list-style-type: none"> If the picture is normal, the sound is due to cabinet shrinkage caused by room temperature changes. This will not affect operation or performance. 	—
Maintenance indicator illuminates or blinks in red.	<ul style="list-style-type: none"> See “Maintenance Indicators”. 	59
The projector cannot be turned on or put into the standby mode using the STANDBY/ON button on the projector.	<ul style="list-style-type: none"> The keylock is set. If the keylock is set to ON, all the buttons are locked. 	53
Picture is green with component input signals (COMPUTER/ COMPONENT 1, 2, DVI-D).	<ul style="list-style-type: none"> Change the input signal type setting. 	47
Picture is pink (no green) with RGB input signals (COMPUTER/ COMPONENT 1, 2, DVI-D).		
Picture is too bright and whitish.	<ul style="list-style-type: none"> Image adjustments are incorrectly set. 	45
The black levels of the image show banding or appear faded when DVI-D is selected.	<ul style="list-style-type: none"> Select the Dynamic Range setting (“Standard” or “Enhanced”) that results in the best picture quality. 	48
The cooling fan becomes noisy.	<ul style="list-style-type: none"> When temperature inside the projector increases, the cooling fan runs faster. 	—
The lamp does not light up even after the projector turns on.	<ul style="list-style-type: none"> The lamp indicator is illuminating in red. Replace the lamp. 	59
The lamp suddenly turns off during projection.		
The image sometimes flickers.	<ul style="list-style-type: none"> Cables incorrectly connected to the projector or the connected equipment works improperly. If this happens frequently, replace the lamp. 	23-29 62
The lamp takes a long time to turn on.	<ul style="list-style-type: none"> The lamp will eventually need to be changed. The lamp has reached the end of its life. Replace the lamp. 	62
Picture is dark.		
The remote control cannot be used.	<ul style="list-style-type: none"> 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. The batteries may be depleted or inserted incorrectly. Make sure the batteries are inserted correctly or insert new ones. 	15 15


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

For SHARP Assistance

If you encounter any problems during setup or operation of this projector, first refer to the "Troubleshooting" section on pages 66 and 67. If this operation manual does not answer your question, please contact the SHARP Service departments listed below.

U.S.A.	Sharp Electronics Corporation 1-888-GO-SHARP (1-888-467-4277) lcdsupport@sharpsec.com http://www.sharppusa.com	Benelux	SHARP Electronics Benelux BV 0900-SHARPCE (0900-7427723) Nederland 9900-0159 Belgium http://www.sharp.nl http://www.sharp.be http://www.sharp.lu
Canada	Sharp Electronics of Canada Ltd. (905) 568-7140 http://www.sharp.ca	Australia	Sharp Corporation of Australia Pty. Ltd. 1300-135-022 http://www.sharp.net.au
Mexico	Sharp Electronics Corporation Mexico Branch (525) 716-9000 http://www.sharp.com.mx	New Zealand	Sharp Corporation of New Zealand Phone: (09) 573-0111 Fax: (09) 573-0112 http://www.sharp.net.nz
Latin America	Sharp Electronics Corp. Latin American Group (305) 264-2277 www.servicio@sharpsec.com http://www.siemprisharp.com	Singapore	Sharp-Roxy Sales (S) Pte. Ltd. 65-226-6556 ckng@srs.global.sharp.co.jp http://www.sharp.com.sg
Germany	Sharp Electronics (Europe) GMBH 01805-234675 http://www.sharp.de	Hong Kong	Sharp-Roxy (HK) Ltd. (852) 2410-2623 dcmktg@srh.global.sharp.co.jp http://www.sharp.com.hk
U.K.	Sharp Electronics (U.K.) Ltd. 08705 274277 http://www.sharp.co.uk/customersupport	Taiwan	Sharp Corporation (Taiwan) 0800-025111 http://www.sharp-scot.com.tw
Italy	Sharp Electronics (Italy) S.P.A. (39) 02-89595-1 http://www.sharp.it	Malaysia	Sharp-Roxy Sales & Service Co. (60) 3-5125678
France	Sharp Electronics France 01 49 90 35 40 hotlined@sef.sharp-eu.com http://www.sharp.fr	U.A.E.	Sharp Middle East Fze 971-4-81-5311 helpdesk@smef.global.sharp.co.jp
Spain	Sharp Electronica Espana, S.A. 93 5819700 sharpplcd@sees.sharp-eu.com http://www.sharp.es	Thailand	Sharp Thebnakorn Co. Ltd. 02-236-0170 svc@stcl.global.sharp.co.jp http://www.sharp-th.com
Switzerland	Sharp Electronics (Schweiz) AG 0041 1 846 63 11 callcenter@sez.sharp-eu.com http://www.sharp.ch	Korea	Sharp Electronics Incorporated of Korea (82) 2-3660-2002 lcd@sharp-korea.co.kr http://www.sharpkorea.co.kr
Sweden	Sharp Electronics (Nordic) AB (46) 8 6343600 vision.support@sen.sharp-eu.com http://www.sharp.se	India	Sharp Business Systems (India) Limited (91) 11- 6431313 service@sharp-oa.com
Austria	Sharp Electronics (Europe) GMBH Branch Office Austria 0043 1 727 19 123 pogats@sea.sharp-eu.com http://www.sharp.at		

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Specifications

Model		XG-C455W/PG-C355W
Display devices		0.74" LCD panel × 3
Resolution		WXGA (1280 × 800)
Lens	F number	F 1.7 – 1.9
	Zoom	Manual, ×1.2 (f = 28.0 – 33.6 mm)
	Focus	Manual
Input terminals	DVI-D (Compatible with HDCP)	×1
	Computer/Component (mini D-sub 15 pin)	×2
	S-Video (mini DIN 4 pin)	×1
	Video (RCA)	×1
	Audio (ø3.5 mm stereo minijack)	×2
	Audio (RCA)	×2 (L/R)
Output terminals	Computer/Component (mini D-sub 15 pin)	×1
	Audio (ø3.5 mm stereo minijack)	×1 (variable audio output)
Control and communication terminals	LAN (RJ-45)	×1
	USB (Type B)	×1
	RS-232C (mini DIN 9 pin)	×1
	Wired Remote (ø3.5 mm stereo minijack)	×1
Speakers		2 W (Mono)
Projection lamp		275 W
Rated voltage		AC 100 – 240 V
Rated frequency		50/60 Hz
Input current		3.6 A
Power consumption (Standby)		360 W (3.4 W) with AC 100 V 345 W (4.4 W) with AC 240 V
Operation temperature		41°F to 95°F (+5°C to +35°C)
Cabinet		Plastic
Dimensions (main body only) [W × H × D]		12 ²⁷ / ₃₂ " × 4" × 11 ¹ / ₆₄ " (326 × 101.5 × 279.5 mm)
Weight (approx.)		10.8 lbs. (4.9 kg)

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



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