

graphs of financial lies, repair : maintenance exp

OPERATION MANUAL MODEL XG-C50X









IMPORTANT

For your assistance in reporting the loss or theft of your Projector, please record the Serial Number located on the bottom of the projector and retain this information. Before recycling the packaging, please be sure that you have checked the contents of the carton thoroughly against the list of "Supplied accessories" on page 14.

Model No.: XG-C50X

Serial No.:

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

Die mitgelieferte CD-ROM enthält Bedienungsanleitungen in Englisch, Deutsch, Französisch, Schwedisch, Spanisch, Italienisch, Niederländisch, Portugiesisch, Chinesisch (Traditionelles Chinesisch und einfaches Chinesisch), Koreanisch und Arabisch. 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, suédois, espagnol, italien, néerlandais, portugais, chinois (chinois traditionnel et chinois simplifié), coréen et arabe. Veuillez lire attentivement ces instructions avant de faire fonctionner le projecteur.

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

El CD-ROM suministrado contiene instrucciones de operación en inglés, alemán, francés, sueco, español, italiano, holandés, portugués, chino (chino tradicional y chino simplificado), coreano y árabe. 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, svedese, spagnolo, italiano, olandese, portoghese, cinese (cinese tradizionale e cinese semplificato), coreano e arabo. Leggere attentamente le istruzioni per l'uso prima di usare il proiettore.

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

O CD-ROM fornecido contém instruções de operação em Inglês, Alemão, Francês, Sueco, Espanhol, Italiano, Holandês, Português, Chinês, (Chinês Tradicional e Chinês Simplificado), Coreano e Árabe. 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、瑞典文、西班牙文、意大利文、荷蘭文、葡萄牙文、中文(繁體中文 和簡體中文)、韓國文和阿拉伯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。

附送之CD-ROM光碟中,有用英文、德文、法文、瑞典文、西班牙文、意大利文、荷兰文、葡萄牙文、中文(繁体中文和简体中文)、韩国文和阿拉伯文所写的使用说明书。在操作本投影机之前,请务必仔细阅读整本使用说明书。

제공된 CD-ROM에는 영어, 독일어, 프랑스어, 스웨덴어, 스페인어, 이탈리아어, 덴마크어, 포르투갈어, 중국 어(번체자와 간체자), 한국어, 그리고 아랍어로 작성된 조작 설명서가 포함되어 있습니다. 프로젝터를 조작하기 전에 조작 지침을 상세 하게 숙지하십시오.

تتاسطوانة CD-ROM المجهّزة تتضمن تعليمات التشغيل لكل من اللغات الانجليزية، الالمانية، الفرنسية، السويدية، الاسبانية، الايطالية، الهولندية، الصينية، (الصينية القديمة والصين المبسطة)، الكورية، والعربية. قم بقراءة تعليمات التشغيل بعناية قبل تشغيل جهاز العرض الاسقاطي.

Introduction

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

OPureGlare

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.

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.

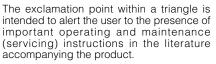
See bottom of actual set.



CAUTION RISK OF ELECTRIC SHOCK. DO NOT REMOVE SCREWS EXCEPT SPECIFIED USER SERVICE SCREWS.

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. 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 lightning flash with arrowhead symbol,



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

 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.

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.

WARNING:

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.

ENGLISH

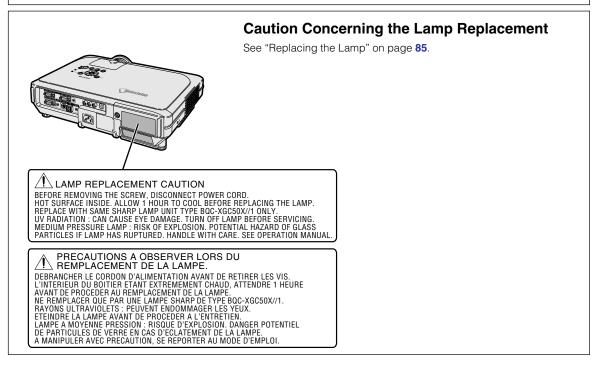
WARNING:

The cooling fan in this projector continues to run for about 90 seconds after the projector is turned off. During normal operation, when turning the power off always use the power (**OFF**) button on the projector or on the remote control. Ensure the cooling fan has stopped before disconnecting the power cord.

DURING NORMAL OPERATION, NEVER TURN THE PROJECTOR OFF BY DISCONNECTING THE POWER CORD. FAILURE TO OBSERVE THIS WILL RESULT IN PREMATURE LAMP FAILURE.

PRODUCT DISPOSAL

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



Outstanding Features

- 1. Ultra High Brightness from a Compact Projector
 - AC 250W Lamp Use AC 250W lamp for excellent color uniformity and ultra high brightness.
 - Power Save mode function enables lower noise levels, reduced power consumption and longer lamp life.

2. Simple & Easy Operation

• User friendly interface with easy to use operation system and connection areas makes setup a breeze.

Smooth installation and operation using frequently used buttons, placement of terminals, color schemes as well as combined use of auto input and search.

• Simple lens replacement Using an easy access lens cover and a new bayonnet mount configuration, the optional lens can be easily installed.

3. Superior PC Compatibility

- Compatible with up to 200 Hz vertical refresh rate, Sync on Green and Composite Sync signals for use with a wide variety of high-end PCs and Workstations.
- Using Advanced Intelligent Compression Technology, computer screens of UXGA (1,600 × 1,200) resolution can be displayed with minimal distortion.

4. Advanced Computer & Video Integrated Composer Technology

- Realizes vivid images using the latest image quality circuitry.
 - New I/P conversion algorithm enhances the performance of the motion detect I/P conversion.

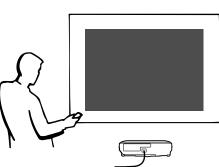
Extensive improvements on the jagged edges or slanted lines in moving images.

- Color Management System Supports sRGB. Enables individual settings of lightness, chromatic value and hue for six target colors.
- Noise Reduction Allows for a clear image even with noisy source signals.
- New Edge Up-Scaling Reduces jaggies and flickering when up-scaling edges of slanted lines, enabling sharper quality images.

5. Anti-theft and Safe Design

- Anti-theft This function will render the projector useless if a keycode is not entered.
- Notevision Lock Down

The Notevision Lock Down (roof bolt) is coupled together with a metallic optical mechanism. Thus, even if a strong force is applied, the Notevision Lock Down prevents insert nut from falling out, and since the projector can be more rigidly installed than in the past, it is effective both for preventing theft and in terms of safety.



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IMPORTANT SAFEGUARDS

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

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

1. Read Instructions

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

2. Retain Instructions

The safety and operating instructions should be retained for future reference.

3. Heed Warnings

All warnings on the product and in the operating instructions should be adhered to.

4. Follow Instructions

All operating and use instructions should be followed.

5. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

6. Attachments

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

7. Water and Moisture

Do not use this product near water-for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.

8. Accessories

Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

9. Transportation

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



10.Ventilation

Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

11. Power Sources

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

12. Grounding or Polarization

This product is provided with one of the following types of plugs. If the plug should fail to fit into the power outlet, please contact your electrician.

Do not defeat the safety purpose of the plug.

- a. Two-wire type (mains) plug.
- b. Three-wire grounding type (mains) plug with a grounding terminal.

This plug will only fit into a grounding type power outlet.

13. Power-Cord Protection

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

14. Lightning

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

15. Overloading

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

16. Object and Liquid Entry

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

17. Servicing

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



18. Damage Requiring Service

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

a. When the power-supply cord or plug is damaged.

- b. If liquid has been spilled, or objects have fallen into the product.
- c. If the product has been exposed to rain or water.
- d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
- e. If the product has been dropped or damaged in any way.
- f. When the product exhibits a distinct change in performance, this indicates a need for service.

19. Replacement Parts

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

20. Safety Check

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

21. Wall or Ceiling Mounting

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

22. Heat

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

INTELLECTUAL PROPERTY RIGHTS IMPORTANT READ BEFORE USING THE PRODUCT

- You have acquired a product that includes software licensed to SHARP Corporation by Lineo, Inc. ("Lineo"). The Software is protected by copyright laws, international copyright treaties, and other intellectual property laws and treaties. Lineo and its suppliers retain all ownership of, and intellectual property rights in (including copyright), the Software components and all copies thereof, provided however, that certain components of the Software are components licensed under the GNU General Public License (version 2), which Lineo supports. You may obtain a copy of the GNU General Public License at http://www.fsf.org/copyleft/gpl.html. Lineo will provide source code for any of the components of the Software licensed under the GNU General Public License. To obtain such source code, send email to embedix-support@lineo.com.
- OS: Embedix (Embedded Linux) Embedix (TM) is a registered trademark of U.S.A. LINEO, Inc.
- Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States and/or other countries.
- PC/AT is a registered trademark of International Business Machines Corporation in the United States.
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- This software is based in part on the work of the Independent JPEG Group.
- All other company or product names are trademarks or registered trademarks of their respective companies.

IMPORTANT SAFEGUARDS

Be sure to 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 a replacement.



See "Replacing the Lamp" on page ${\color{black}85}.$

Cautions 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 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 safely be tilted to a maximum angle of 12 degrees.

■ Placement should be within ±12 degrees.



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 make your eyes tired. Be sure to occasionally rest your eyes.

Avoid locations with high or low temperature.

- The operating temperature for the projector is from 41°F to 104°F (+5°C to +40°C).
- The storage temperature for the projector is from -4°F to 140°F (-20°C to +60°C).

Do not block the exhaust and intake vents.

Allow at least 7.9 inches (20 cm) of space between the exhaust vent and the nearest wall or obstruction.

- Be sure that the intake vent and the exhaust vent are not obstructed.
- If the cooling fan becomes obstructed, a protection circuit will automatically turn off the projector. This does not indicate a malfunction. 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.

Cautions regarding the transportation of the projector

When transporting the projector, be sure not to subject it to hard impact and/or vibration, as this can result in damage. Take extra caution with the lens. Before moving the projector, be sure to unplug the power cord from the wall outlet, and disconnect any other cables connected to it.

Other connected equipment

- When connecting a computer or other audio-visual equipment to the projector, make the connections AF-TER turning off the projector and 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, be sure to use the appropriate power cord for the country you are in.

Temperature monitor function

If the projector starts to overheat due to setup problems or blockage of the air vents, """ and "TEMP." will blink 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 power will shut off. Refer to "Maintenance Indicators" on page 83 for details.

🛄 Info

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



How to Access the PDF Operation Manuals (Windows, Macintosh)

PDF operation manuals in several languages are included in the CD-ROM, so that you can work with the projector, even if you do not have this manual. To utilize these manuals, you need to install Adobe Acrobat Reader on your PC (Windows or Macintosh). If you have not installed Acrobat Reader yet, you can install it from the CD-ROM.

To install Acrobat Reader from the CD-ROM

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 Double click the "ACROBAT" folder.
- (5) Double click the language (name of the folder) that you want to view.
- (6) Double click the installation program and follow the instructions on the screen.

For Macintosh:

- (1) Insert the CD-ROM in the CD-ROM drive.
- ② Double click the "CD-ROM" icon.
- ③ Double click the "ACROBAT" folder.
- ④ Double click the language (name of the folder) that you want to view.
- (5) Double click the installation program and follow the instructions on the screen.

For other operating systems:

Please download Acrobat Reader from the Internet (http://www.adobe.com).

For other languages:

If you prefer using Acrobat Reader for languages other than those included in the CD-ROM, please download the appropriate version from the Internet.

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 Double click the "MANUALS" folder.
- (5) Double click the language (name of the folder) that you want to view.
- ⑥ Double click the "C50X" pdf file to access the projector manuals.

For Macintosh:

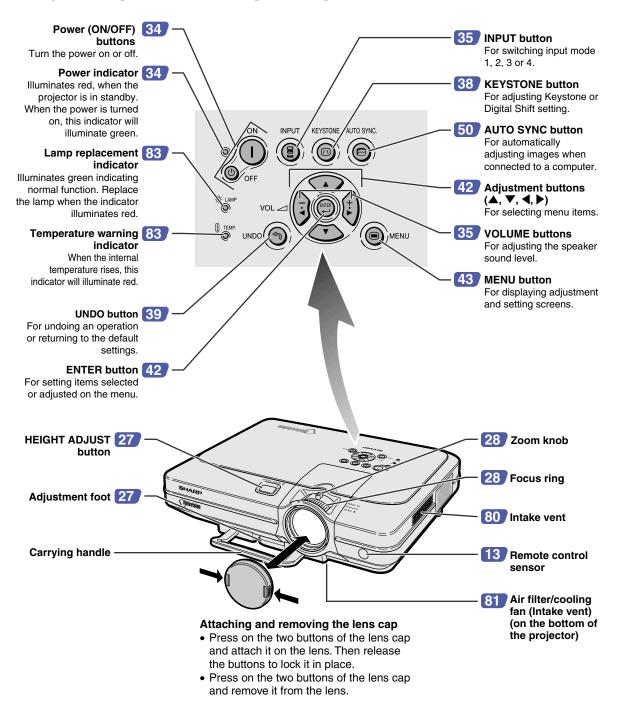
- (1) Insert the CD-ROM in the CD-ROM drive.
- 2 Double click the "CD-ROM" icon.
- ③ Double click the "MANUALS" folder.
- ④ Double click the language (name of the folder) that you want to view.
- (5) Double click the "C50X" pdf file to access the projector manuals.

🗞 Note

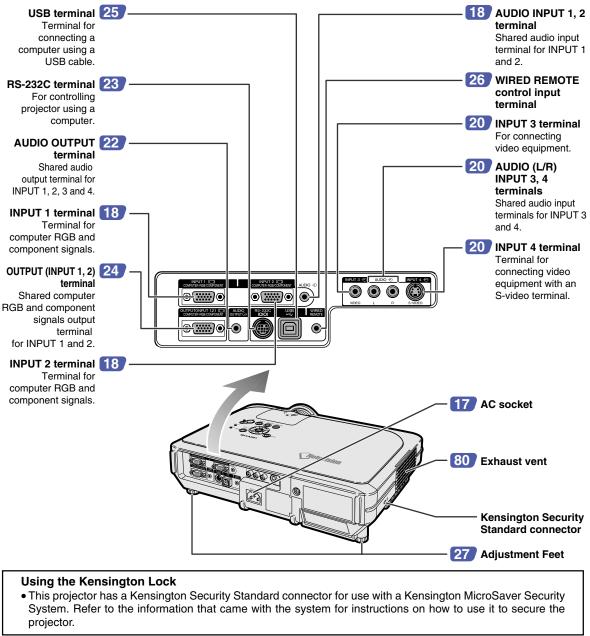
- If the desired pdf file cannot be opened by double clicking the mouse, start Acrobat Reader first, then specify the desired file using the "File", "Open" menu.
- See the "readme.txt" file on the CD-ROM for important information not included in this operation manual.

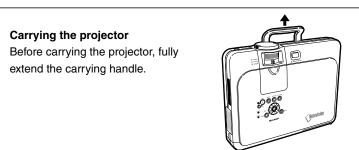
Part Names

Numbers in prefer to the main pages in this operation manual where the topic is explained. **Projector (Front and Top View)**



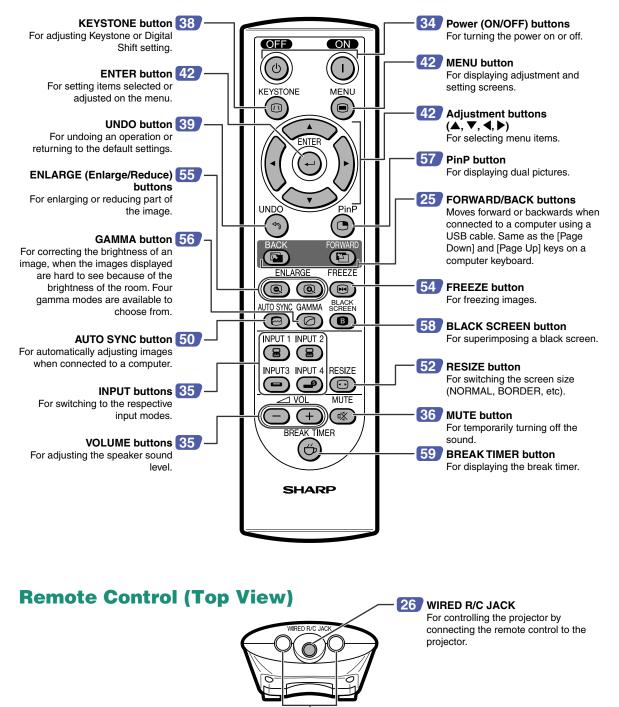
Projector (Rear View)





Part Names

Remote Control (Front View)



Remote control signal transmitters 13

Using the Remote Control

Available Range of the Remote Control

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 due to the screen material.

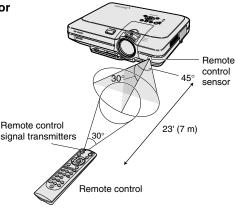
When using the remote control:

- Be sure not to drop, expose to moisture or high temperature.
- The remote control may malfunction under a fluorescent lamp. Under that circumstance, move the projector away from the fluorescent lamp.

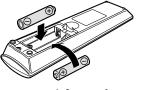
Inserting the Batteries

The batteries (two R-6 batteries ("AA" size, UM/SUM-3, HP-7 or similar)) are included in the package.

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









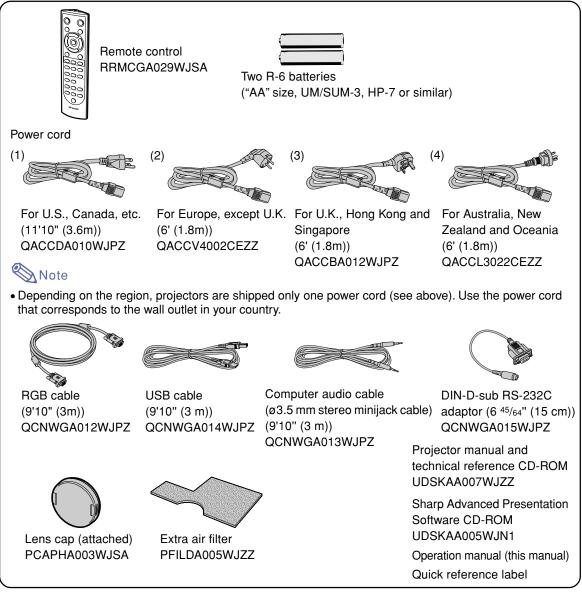
Incorrect use of the batteries may cause them to leak or explode. Please follow the precautions below.

\land Caution

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



Supplied accessories



Optional cables

3 RCA to 15-pin D-sub cable (9'10" (3.0 m)) Computer RGB cable (32'10" (10.0 m)) 5 BNC to 15-pin D-sub cable (9'10" (3.0 m)) RS-232C serial control cable (32'10" (10.0m))	AN-C3CP AN-C10BM (for IBM-PC, NEC PC-9821 and PC-98NX series) AN-C10MC (for Macintosh series) AN-C10PC (for NEC PC-98 series (Except NEC PC-9821 and PC-98NX series)) AN-C3BN AN-C10RS
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• Some of the cables may not be available depending on the region. Please check with your nearest Sharp Authorized Projector Dealer or Service Center.

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Connections and Setup



Connecting the Projector to Other Devices

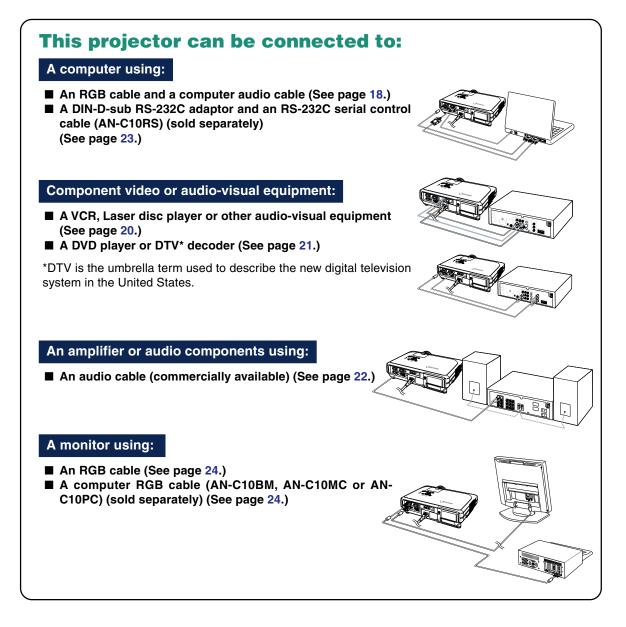
Before Connecting

Note Note

• Before connecting, be sure to turn off both the projector and the devices to be connected. After making all connections, turn on the projector and then the other devices.

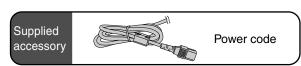
When connecting a computer, be sure that it is the last device to be turned on after all the connections are made.

• Be sure to read the operation manuals of the devices to be connected before making connections.



Connecting the Power Cord

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





Connecting the Projector to Other Devices

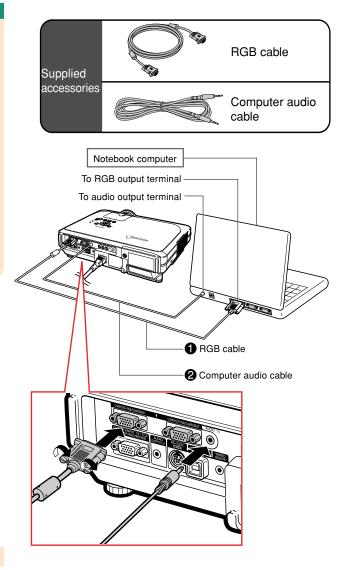
Connecting the Projector to a Computer

Connecting to a Computer Using the RGB Cable

- 1 Connect the projector to the computer using the supplied RGB cable.
 - Secure the connectors by tightening the thumbscrews.
- 2 To input audio signal, connect the projector to the computer using the supplied computer audio cable.

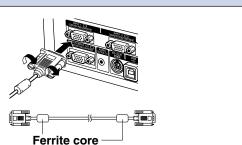
🗞 Note

- See page 93 "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 not to work.
- When connecting the projector to a computer in this way, select "RGB" for "Signal Type" in the "Picture" menu. See page 46.
- A Macintosh adaptor may be required for use with some Macintosh computers. Contact your nearest Sharp Authorized Projector Dealer or Service Center.
- It may be necessary to switch the signal output to external output depending on the computer you are using. Refer to the computer operation manual for details.



Connecting the thumbscrew cables

- Connect the thumbscrew cable making sure that it fits correctly into the terminal. Then, firmly secure the connectors by tightening the screws on both sides of the plug.
- Do not remove the ferrite core attached to the RGB cable.



"Plug and Play" function (when connecting to a 15-pin terminal)

- This projector is compatible with VESA-standard DDC 1/DDC 2B. The projector and a VESA DDC compatible computer will communicate their setting requirements, allowing for quick and easy setup.
- Before using the "Plug and Play" function, be sure to turn on the projector first and the connected computer last.

Note 📎

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

Connecting the Projector to Other Devices

Connecting to Video Equipment

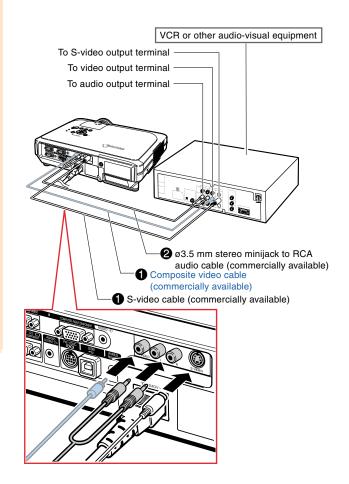
Connecting to Video Equipment Using an S-video, a Composite Video or an Audio Cable

Using an S-video, video, or audio cable, a VCR, laser disc player or other audio-visual equipment can be connected to INPUT 3, INPUT 4 and AUDIO (L/R) input terminals.

- 1 Connect the projector to the video equipment using an Svideo cable or a composite video cable (both commercially available).
- 2 Connect the projector to the video equipment using a ø3.5 mm stereo minijack to RCA audio cable (commercially available).

\delta Note

- The INPUT 4 (S-VIDEO) terminal uses a video signal system in which the picture is separated into color and luminance signals to realize a higher-quality image. To view a higher-quality image, use a commercially available S-video cable to connect the INPUT 4 terminal on the projector and the S-video output terminal on the video equipment.
- A ø3.5 mm stereo minijack to RCA audio cable (commercially available) is required for audio input.



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Connecting to Component Video Equipment

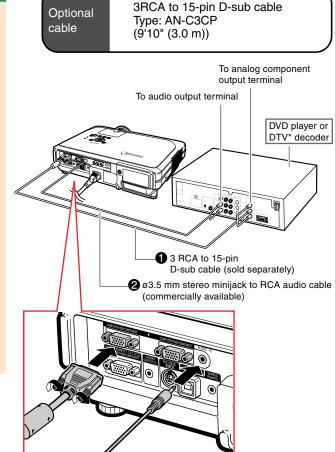
Use a 3 RCA to 15-pin D-sub cable when connecting to the INPUT 1 or 2 terminal, component video equipment such as DVD players and DTV* decoders.

*DTV is the umbrella term used to describe the new digital television system in the United States.

- Connect the projector to the video equipment using the 3 RCA to 15-pin D-sub cable.
- 2 Connect the projector to the video equipment using a ø3.5 mm stereo minijack to RCA audio cable (commercially available).

🗞 Note

- When connecting the projector to the video equipment in this way, select "Component" for "Signal Type" in the "Picture" menu. See page **46**.
- A ø3.5 mm stereo minijack to RCA audio cable (commercially available) is required for audio input.



Connecting the Projector to Other Devices

Connecting to an Amplifier

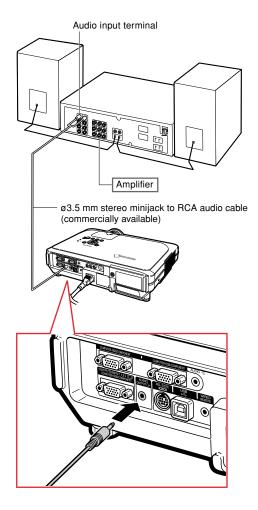
Connecting to an Amplifier or Other Audio Components

Using a Ø3.5 mm stereo minijack to RCA audio cable, an amplifier or other audio components can be connected to the AUDIO OUT-PUT terminal.

Connect the projector to the amplifier using a Ø3.5 mm stereo minijack to RCA audio cable (commercially available).

Info

- Always turn off the projector before connecting to audio components, in order to protect both the projector and the components being connected.
- By using external audio components, the volume can be amplified for better sound.
- The AUDIO OUTPUT terminal allows you to output audio to audio components from the selected AUDIO input terminal (for INPUT 1 and 2) or AUDIO (L/R) input terminals (for INPUT 3 and 4) connected to audiovisual equipment.
- For details on Variable Audio Output (VAO) and Fixed Audio Output (FAO), see page **63**.
- A ø3.5 mm stereo minijack to RCA audio cable (commercially available) is required for audio input.



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Controlling the Projector by a Computer

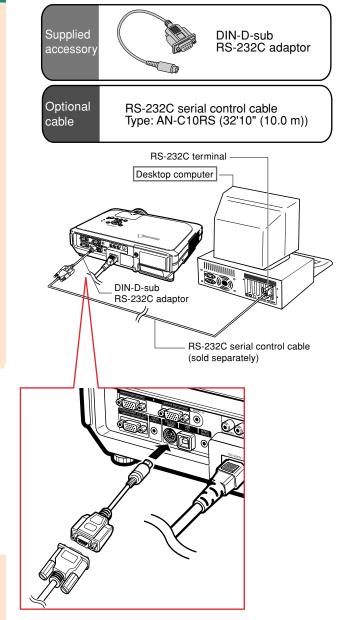
Connecting to a Computer Using a DIN-D-sub RS-232C Adaptor and an RS-232C Serial Control Cable

When the RS-232C terminal on the projector is connected to a computer with a DIN-D-sub RS-232C adaptor and an RS-232C serial control cable (cross type, sold separately), the computer can be used to control the projector and check the status of the projector. See page 89 for details.

- 1 Connect the supplied DIN-Dsub RS-232C adaptor to an RS-232C serial control cable (sold separately).
- 2 Use the above cables to connect the projector and the computer.

🇞 Note

- 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.
- The RS-232C function may not operate if your computer terminal is not correctly set up. Refer to the operation manual of the computer for details.
- See page **88** for connection of an RS-232C serial control cable.



Connecting the Projector to Other Devices

Connecting to a Monitor

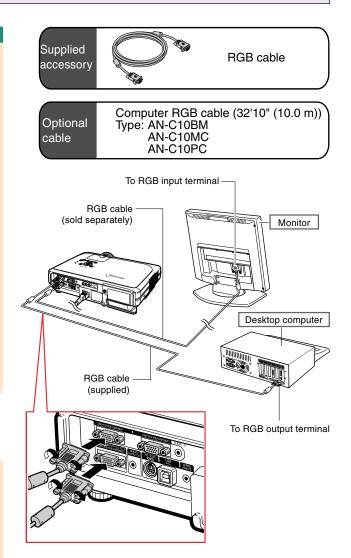
Watching Images on Both the Projector and a Monitor

You can display computer images on both the projector and a separate monitor using two sets of an RGB cable. An RGB cable is supplied with this projector. You need to buy another RGB cable for connecting the projector to a monitor.

- 1 Connect the projector to the computer and monitor using RGB cables (one is supplied, the other is sold separately).
- 2 In the "Options(1)" menu, select "Economy Mode", "Mntr. out/RS232" and then "ON". (see page 69.)

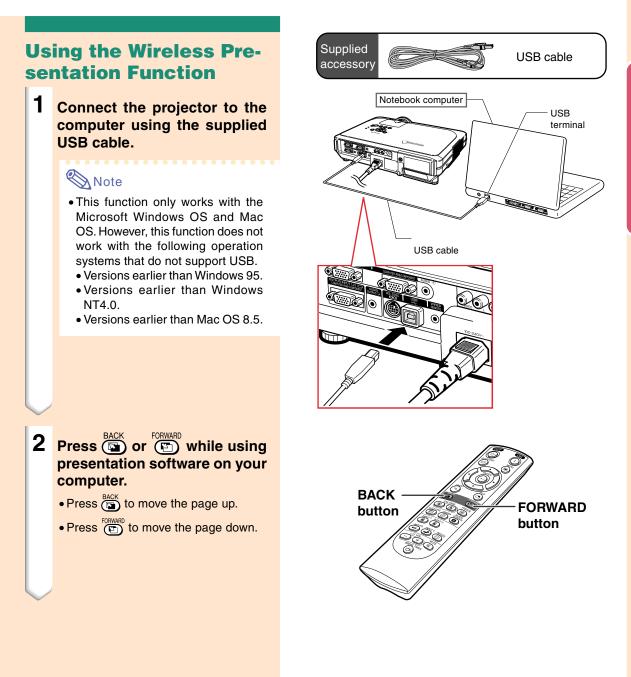
Note Note

• Analog RGB signals as well as Component signals can be output to the monitor.



Using the Wireless Presentation Function of the Remote Control

The Wireless Presentation function on the projector works the same as the [Page Up] and [Page Down] keys on a computer keyboard. It can also be used to move forward or backward when viewing images of presentation software such as PowerPoint[™].



Connecting the Projector to Other Devices

Using as a Wired Remote Control

Connecting the Remote Control to the Projector

When the remote control cannot be used due to the range or positioning of the projector (rear projection, etc.), connect a ø3.5 mm minijack cable (commercially available or available as Sharp service part QCNW-4870CEZZ) from the WIRED R/C JACK on the top of the remote control to the WIRED RE-MOTE control input terminal. or wired R/C JACK of 5 mm minijack cable (commercially available or available as Sharp service part QCNW-4870CEZZ)

WIRED REMOTE control input terminal

Using the Adjustment Feet

The height of the projector can be adjusted using the adjustment feet at the front and back of the projector when the surface the projector is placed on is uneven or when the screen is slanted.

The projection of the image can be made higher by adjusting the projector when it is in a location lower than the screen.

Press HEIGHT ADJUST.

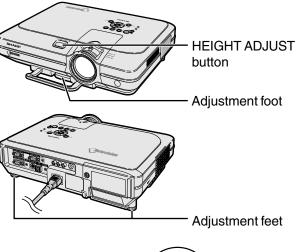
- 2 Lift the projector to adjust its height and remove your finger from HEIGHT ADJUST.
- **3** Rotate the adjustment feet at the back of the projector for fine adjustment.

\delta Note

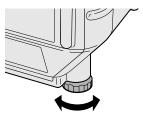
- When returning the projector to its original position, hold the projector firmly, press HEIGHT ADJUST and then gently lower it.
- The projector is adjustable up to approximately 12 degrees on the front and 3 degrees on the back from the standard position.

🔲 Info

- Do not press **HEIGHT ADJUST** when the adjustment foot is extended 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 finger caught in the area between the adjustment foot and the projector.

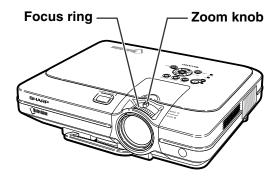




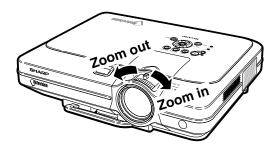


Adjusting the Lens

The image is focused and adjusted to the desired 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.

Setting up the Screen

Position the projector perpendicular to the screen with all feet flat and level to achieve an optimal image.

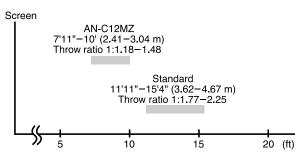
Note Note

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

An optional lens (AN-C12MZ) from Sharp is also available for specialized application. Contact your local Sharp Authorized Projector Dealer for details on the lens. (Refer to the lens installation manual when attaching a lens.)

Throw Distance

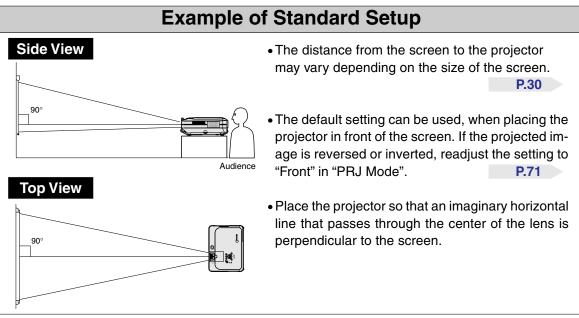
■ The graph below is for 100 inches (254 cm) screen with 4:3 normal mode.



Standard Setup (Front Projection)

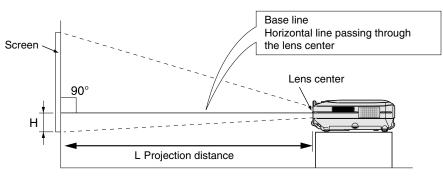
Place the projector at the required distance from the screen according to the desired picture size. (See page 30.)





Setup

Screen Size and Projection Distance



Standard Lens

Throw ratio

1:1.77 to 2.25

NORMAL Mode (4:3)

Pict	ure (Screen)	size	Projection distance (L)				Distance from the lens center			
Diag. (X)	Width	Height	Maxir	mum (L1)	Minir	num (L2)	to t	he bottom o	n of the image (H)	
300" (762 cm)	240" (609.6cm)	180"(457.2 cm)	46' 4"	(14.12 m)	36'	(10.97 m)	17	11 / 16"	(45.0 cm)	
250" (635 cm)	200" (508 cm)	150" (381 cm)	38' 7"	(11.76 m)	30'	(9.13 m)	14	3/4"	(37.5 cm)	
200" (508 cm)	160" (406.4 cm)	120" (304.8 cm)	30'10"	(9.39 m)	24'	(7.29 m)	11	13 / 16"	(30.0 cm)	
150" (381 cm)	120" (304.8 cm)	90" (228.6 cm)	23' 1"	(7.03 m)	17'11"	(5.46 m)	8	7 / 8"	(22.5 cm)	
100" (254 cm)	80" (203.2 cm)	60" (152.4 cm)	15' 4"	(4.67 m)	11'11"	(3.62 m)	5	7 / 8"	(15.0 cm)	
84" (213.3 cm)	67" (170.1 cm)	50" (127 cm)	12'11"	(3.92 m)	10'	(3.03 m)	4	15 / 16"	(12.6 cm)	
72" (182.8 cm)	58" (147.3 cm)	43" (109.2 cm)	11'	(3.35 m)	8' 6"	(2.59 m)	4	1 / 4"	(10.8 cm)	
60" (152.4 cm)	48" (121.9 cm)	36" (91.4 cm)	9' 2"	(2.78 m)	7' 1"	(2.15 m)	3	9 / 16"	(9.0 cm)	
40" (101.6 cm)	32" (81.2 cm)	24" (60.9 cm)	6' 1"	(1.84 m)	4' 8"	(1.42 m)	2	3 / 8"	(6.0 cm)	

The formula for picture size and projection distance L1 (ft) = (0.0472X - 0.0517) / 0.3048L2 (ft) = (0.0367X - 0.0529) / 0.3048

H(in) = (0.1499X - 0.0064) / 2.54

X: Picture size (diag.) (in)

L: Projection distance (ft)

L1: Maximum projection distance (ft)

L2: Minimum projection distance (ft)

H: Distance from the lens center to the bottom of the image (in)

STRETCH Mode (16:9)

Pict	ure (Screen)	size	Р	Projection distance (L)				Distan	ce from the lens center
Diag. (X)	Width	Height	Maxim	um (L1)	Μ	inin	num (L2)	to the b	oottom of the image (H)
300" (762 cm)	240" (609.6 cm)	180" (457.2 cm)	50'6"(15.37 m)	39'	3"	(11.95 m)	-4 1	5/ 16"(-12.6 cm)
250" (635 cm)	218" (553.7 cm)	123" (312.4 cm)	42' (12.80 m)	32'	8"	(9.95 m)	-4	1/ 8" (-10.5 cm)
225" (571.5 cm)	196" (497.8 cm)	110" (279.4 cm)	37'10" (11.51 m)	29'	5"	(8.95 m)	-3	3/4" (-9.5 cm)
200" (508 cm)	174" (441.9 cm)	98" (248.9 cm)	33'7" (10.23 m)	26'	1"	(7.95 m)	-3	5 / 16"(-8.4 cm)
150" (381 cm)	131" (332.7 cm)	74" (188 cm)	25' 2"	(7.66 m)	19'	7"	(5.95 m)	-2	1 / 2" (-6.3 cm)
133" (337.8 cm)	116" (294.6 cm)	65" (165.1 cm)	22' 3"	(6.78 m)	17'	4"	(5.27 m)	-2	3 / 16"(-5.6 cm)
106" (269.2 cm)	92" (233.6 cm)	52" (132 cm)	17' 9"	(5.40 m)	13'	9"	(4.19 m)	-1	3/4" (-4.5 cm)
100" (254 cm)	87" (220.9 cm)	49" (124.4 cm)	16' 9"	(5.09 m)	13'		(3.95 m)	-1	5/8" (-4.2 cm)
92" (233.6 cm)	80" (203.2 cm)	45" (114.3 cm)	15' 5"	(4.68 m)	11'1	11"	(3.63 m)	-1	9 / 16"(-3.9 cm)
84" (213.3 cm)	73" (185.4 cm)	41" (104.1 cm)	14'	(4.27 m)	10'1	11"	(3.31 m)	-1	3/8" (-3.5 cm)
72" (182.8 cm)	63" (160 cm)	35" (88.9 cm)	12'	(3.65 m)	9'	4"	(2.83 m)	-1	3 / 16"(-3.0 cm)
60" (152.4 cm)	52" (132 cm)	29" (73.6 cm)	10'	(3.03 m)	7'	9"	(2.35 m)	-	-31 / 32"(–2.5 cm)
40" (101.6 cm)	35" (88.9 cm)	20" (50.8 cm)	6' 7"	(2.00 m)	5'	2"	(1.55 m)	-	-11 / 16"(-1.7 cm)

The formula for picture size and projection distance L1 (ft) = (0.0514X - 0.0516) / 0.3048

L2 (ft) = (0.04X - 0.0523) / 0.3048

H (in) = (-0.0422X + 0.0018) / 2.54

Note 📎

• There is an error of \pm 3% in the formula above.

• Values with a minus (-) sign indicate the distance of the lens center below the bottom of the image.

AN-C12MZ

Throw ratio

1:1.18 to 1.48

NORMAL Mode (4:3)

Pict	Picture (Screen) size			Projection distance (L)				Dist	tance from t	the lens center
Diag. (X)	Width	Height	Maxir	mum (L1)	М	inim	um (L2)	to t	he bottom o	of the image (H)
300" (762 cm)	240" (609.6 cm)	180" (457.2 cm)	30' 5"	(9.26 m)	24'	3"	(7.38 m)	17	3 / 4"	(45.1 cm)
250" (635 cm)	200" (508 cm)	150" (381 cm)	25' 4"	(7.71 m)	20'	2"	(6.14 m)	14	13 / 16"	(37.6 cm)
200" (508 cm)	160" (406.4 cm)	120" (304.8 cm)	20' 3"	(6.15 m)	16'	1"	(4.89 m)	11	13 / 16"	(30.0 cm)
150" (381 cm)	120" (304.8 cm)	90" (228.6 cm)	15' 2"	(4.60 m)	12'		(3.65 m)	8	7 / 8"	(22.5 cm)
100" (254 cm)	80" (203.2 cm)	60" (152.4 cm)	10'	(3.04 m)	7'`	11"	(2.41 m)	5	7 / 8"	(15.0 cm)
84" (213.3 cm)	67" (170.1 cm)	50" (127 cm)	8' 4"	(2.54 m)	6'	8"	(2.02 m)	4	15 / 16"	(12.6 cm)
72" (182.8 cm)	58" (147.3 cm)	43" (109.2 cm)	7' 2"	(2.17 m)	5'	8"	(1.72 m)	4	1 / 4"	(10.8 cm)
60" (152.4 cm)	48" (121.9 cm)	36" (91.4 cm)	5'11"	(1.80 m)	4'	8"	(1.42 m)	3	9 / 16"	(9.0 cm)
40" (101.6 cm)	32" (81.2 cm)	24" (60.9 cm)	3'11"	(1.18 m)	3'	1"	(0.92 m)	2	3 / 8"	(6.0 cm)

The formula for picture size and projection distance L1 (ft) = (0.0311X - 0.0676) / 0.3048 L2 (ft) = (0.0248X - 0.0693) / 0.3048

H (in) = (0.1504X - 0.0328) / 2.54

X: Picture size (diag.) (in)

L: Projection distance (ft)

L1: Maximum projection distance (ft)

L2: Minimum projection distance (ft)

H: Distance from the lens center to the bottom of the image (in)

STRETCH Mode (16:9)

Pictu	re (Screen) :	size		Projection distance (L)				Distance from the lens center		
Diag. (X)	Width	Height	Maxin	num (L1)	Minimum (L2)			to th	e bottom of the image (H)	
300" (762 cm)	240" (609.6 cm)	180" (457.2 cm)	33' 2"	(10.10 m)	26'	5"	(8.04 m)	-5"	(-12.7 cm)	
250" (635 cm)	218" (553.7 cm)	123" (312.4 cm)	27' 7"	(8.40 m)	22'		(6.69 m)	-4	3 / 16"(-10.6 cm)	
225" (571.5 cm)	196" (497.8 cm)	110" (279.4 cm)	24'10"	(7.55 m)	19'	9"	(6.01 m)	-3	3/4" (-9.5 cm)	
200" (508 cm)	174" (441.9 cm)	98" (248.9 cm)	22' 1"	(6.71 m)	17'	7"	(5.34 m)	-3	3/8" (-8.5 cm)	
150" (381 cm)	131" (332.7 cm)	74" (188 cm)	16' 6"	(5.01 m)	13'	2"	(3.99 m)	-2	1 / 2" (-6.4 cm)	
133" (337.8 cm)	116" (294.6 cm)	65" (165.1 cm)	14' 7"	(4.44 m)	11'	7"	(3.53 m)	-2	3 / 16"(-5.6 cm)	
106" (269.2 cm)	92" (233.6 cm)	52" (132 cm)	11' 7"	(3.52 m)	9'	3"	(2.80 m)	-1	3/4" (-4.5 cm)	
100" (254 cm)	87" (220.9 cm)	49" (124.4 cm)	10'11"	(3.32 m)	8'	8"	(2.63 m)	-1	5/8" (-4.2 cm)	
92" (233.6 cm)	80" (203.2 cm)	45" (114.3 cm)	10' 1"	(3.05 m)	8'		(2.42 m)	-1	9 / 16"(-3.9 cm)	
84" (213.3 cm)	73" (185.4 cm)	41" (104.1 cm)	9' 2"	(2.78 m)	7'	3"	(2.20 m)	-1	7 / 16"(-3.6 cm)	
72" (182.8 cm)	63" (160 cm)	35" (88.9 cm)	7'10"	(2.37 m)	6'	3"	(1.88 m)	-1	3 / 16"(-3.0 cm)	
60" (152.4 cm)	52" (132 cm)	29" (73.6 cm)	6'6"	(1.97 m)	5'	2"	(1.55 m)		-31 / 32"(-2.5 cm)	
40" (101.6 cm)	35" (88.9 cm)	20" (50.8 cm)	4' 3"	(1.29 m)	3'	4"	(1.01 m)		-11 / 16"(-1.7 cm)	

The formula for picture size and projection distance

L1 (ft) = (0.0339X - 0.0669) / 0.3048

L2 (ft) = (0.027X - 0.0683) / 0.3048 H (in) = (-0.0424X + 0.0079) / 2.54

\delta Note

- There is an error of \pm 3% in the formula above.
- Values with a minus (-) sign indicate the distance of the lens center below the bottom of the image.

Projecting a Reversed/Inverted Image

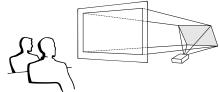
Projection from behind the screen

- Place a translucent screen between the projector and the audience.
- Reverse the image by setting "Rear" in "PRJ Mode". See page 71 for use of this function.



Projection using a mirror

- Place a mirror (normal flat type) in front of the lens.
- Reverse the image by setting "Rear" in "PRJ Mode", when the mirror is placed on the audience side. See page 71 for use of this function.



🛄 Info

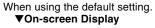
• When using a mirror, be sure to carefully position both the projector and the mirror so the light does not shine into the eyes of the audience.

Ceiling-mount setup

It is recommended that you use the optional Sharp ceiling-mount bracket for this installation.

Before mounting the projector, contact your nearest Sharp Authorized Projector Dealer or Service Center to obtain the recommended ceiling-mount bracket (sold separately.) (AN-XGCM55 ceiling-mount bracket, its AN-EP101B extension tube and AN-JT200 universal bracket, adaptor for non-level ceiling installation (for U.S.A.), BB-M20T ceiling adaptor, its BB-NVHOLDER280, BB-NVHOLDER550, BB-NVHOLDER900 ceiling mount systems (for GERMANY), or AN-60KT ceilingmount bracket, its AN-TK301/AN-TK201 and AN-TK302/AN-TK202 extension tubes (for countries other than the U.S.A. and GERMANY))

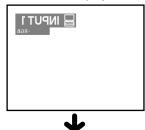
- Be sure to adjust the position of the projector to match the distance (H) from the lens center position (see page 30) to the lower edge of the image, when mounting the projector on the ceiling.
- Invert the image by setting "Ceiling + Front" in "PRJ Mode". See page 71 for use of this function.





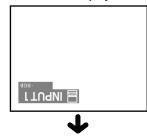
The image is reversed.

When using the default setting. **▼On-screen Display**



The image is reversed.

When using the default setting. **▼On-screen Display**



The image is inverted.

Basic Operation

=

Image Projection

Basic Procedure

Connect the required external equipment to the projector before operating the following procedures.

📕 Info

• The language preset at the factory is English. If you want to change the on-screen display to another language, reset the language according to the procedure on page **36**.

1 Plug the power cord into the wall outlet.

• The power indicator illuminates red, and the projector enters standby mode.

2 Press [™] on the projector or on the remote control.

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

Note 📎

• The lamp replacement indicator illuminates, indicating the status of the lamp.

Green: The lamp is ready. Green blinking: The lamp is warming up.

Red: The lamp should be replaced.

- If the power is turned off and immediately switched on again, the lamp replacement indicator may take time to illuminate.
- When controlling the projector using RS-232C commands from a computer, wait for at least 30 seconds after the power has been turned on, and then transmit the commands.

When "Anti-Theft" (see page 75) is set, the keycode input box will appear.

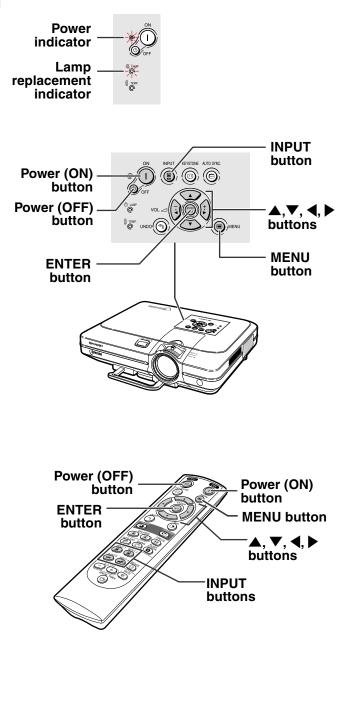
Enter the keycode.

🇞 Note

• When entering the keycode, press the buttons previously set on the projector or the remote control.

Info

• When "Anti-Theft" is set, enter the keycode or the input display will not appear. Even when the signal is input, the display will not appear. (see page **75**.)



▼Keycode input box

A	nti-Theft	

GB-34

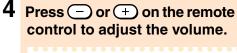
• After pressing (a) once on the projector, use (b) to select the desired input mode.

Note Note

- •When no signal is received, "NO SIGNAL."will be displayed. When a signal that the projector is not preset to receive is received, "NOT REG." will be displayed.
- When "Auto Search" is "ON", the INPUT modes with signals can be selected. (see page 64.)
- The INPUT mode is not displayed when "OSD display" is set to "Level A" or "Level B". (see page 65.)

About the INPUT modes

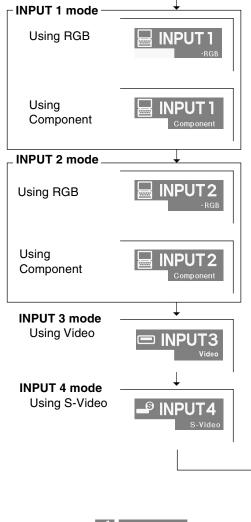
INPUT 1 INPUT 2 (RGB/ Component)	Used for projecting im- ages from equipment that sends RGB signals or component signals con- nected to the RGB input terminal.
INPUT 3 (Video)	Used for projecting im- ages from equipment connected to the VIDEO input terminal.
INPUT 4 (S-Video)	Used for projecting im- ages from equipment connected to the S- VIDEO input terminal.



Note 📎

- Pressing will lower the volume.
- Pressing + will raise the volume.
- On the projector, the volume can be
 - adjusted by pressing $(\overline{\downarrow})$ or $(\overline{\downarrow})$
- (↓, (†) on the projector operate as cursor buttons (◀, ►) when the menu screen is active.

▼On-screen Display (Example)





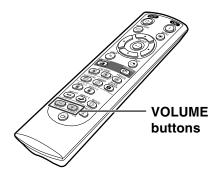
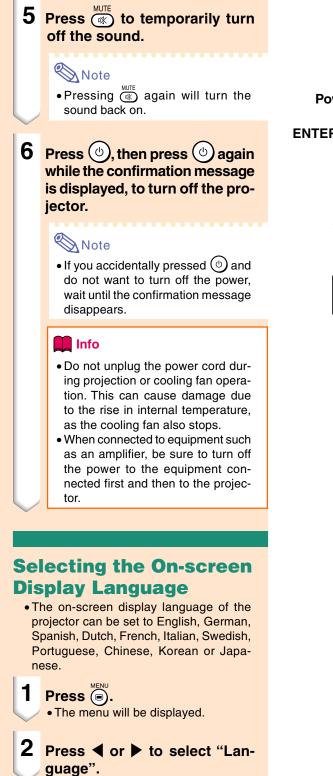
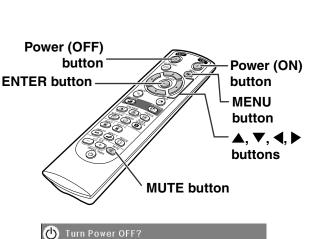


Image Projection

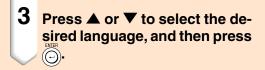




🕅 MUTE

🚺 C.M.S. 🔄 Fine Sync 🔇 Options 😒 Options 🖓 Language Status





Press (a).
The desired language will be set as the on-screen display.

← 💬 Language →
English
Deutsch
Español
Nederlands
Français
Italiano
Svenska
Português
汉语
한국어
日本語

OPureGlare

Correcting Trapezoidal Distortion (Keystone Correction)

Correcting Trapezoidal Distortion

This function allows for Keystone (On-screen Trapezoidal Distortion) Correction.

Note 📎

 When the image is projected either from top or from bottom towards the screen at an angle, the image becomes distorted trapezoidally.

The function for correcting trapezoidal distortion is called Keystone Correction.

- The Keystone Correction can be adjusted up to angle of approximately ±35 degrees.
- Press (12)
 - Pressing (a) again while the BOR-DER, STRETCH or SMART STRETCH screen is displayed will start the Digital Shift function. See page 39.

2 Press \blacktriangle , \blacktriangledown , \blacklozenge , and \triangleright to adjust the Keystone correction.

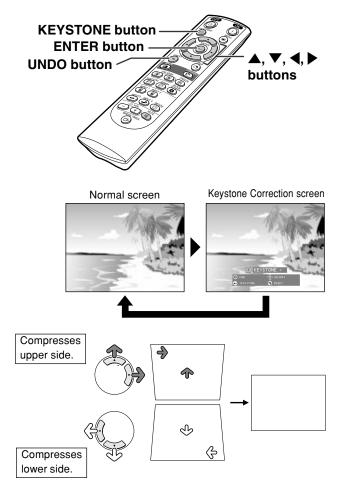
· If you want to make more detailed corrections, press () to display the test pattern, and then press \blacktriangle , \triangledown , \triangleleft and to make the adjustments.

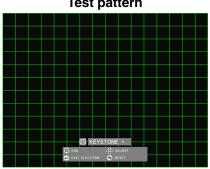
Note

- Since the trapezoidal distortion of the image can be corrected up to an angle of approximately ±35 degrees, the actual screen can be diagonally set up to that angle as well.
- \bullet Press $\overset{\scale}{\bigcirc}$ to cancel Keystone Correction.
- . When no signal is detected, the test pattern will be displayed without pressing O.
- 3 Press (D).

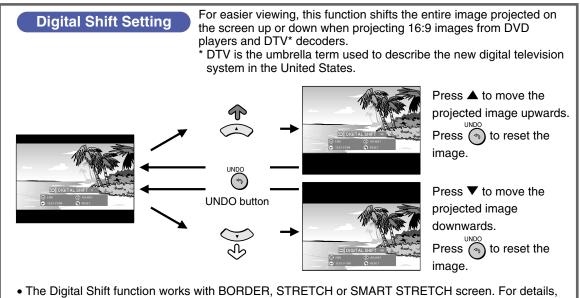
🆏 Note

- You can use the same settings used in NORMAL mode 4:3 for 16:9.
- Straight lines or the edges of images may appear jagged while adjusting the image.





Test pattern

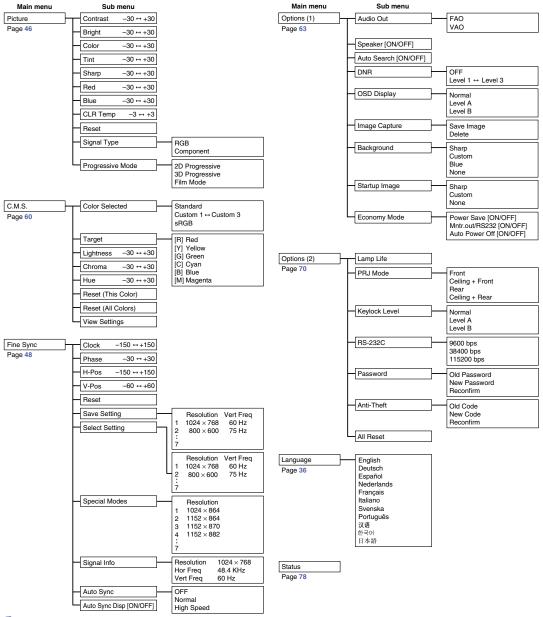


see page 53.

Menu Bar Items

This list shows the items that can be set in the projector.

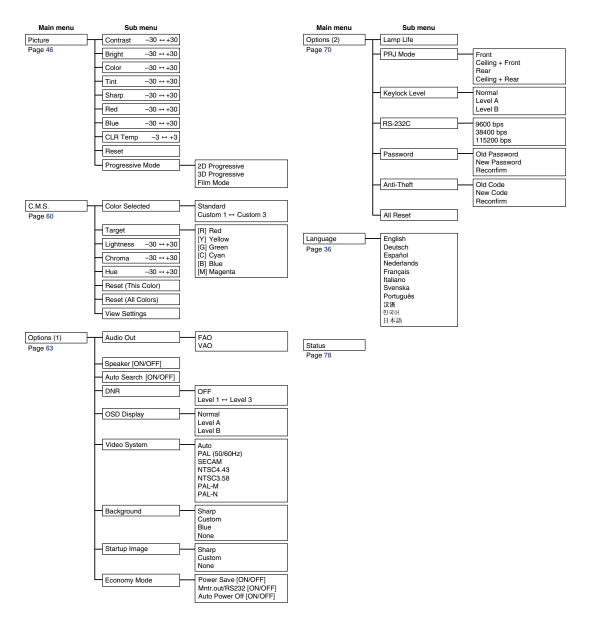
■ INPUT 1 / 2 Mode



Note 📎

- The resolution, vertical frequency and horizontal frequency figures displayed above are for example purposes only.
- Only when the signal type is set as "Component", in the "Picture" menu of INPUT 1 or 2 "Color", "Tint" and "Sharp" are displayed.
- Some items cannot be reset, even when "All Reset" in Options (2) has been selected. For details see page 77.

■ INPUT 3 / 4 Mode

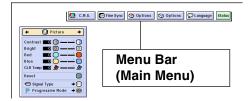


Using the Menu Screen

This projector has two sets of menu screens that allow you to adjust the image and various projector settings.

You can operate the menus from the projector or remote control using the following procedure.

Menu screen for INPUT 1 or INPUT 2 RGB mode



Menu Selections (Adjustments)

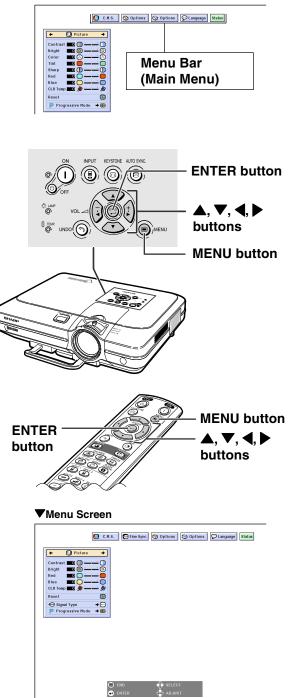
1 Press (.

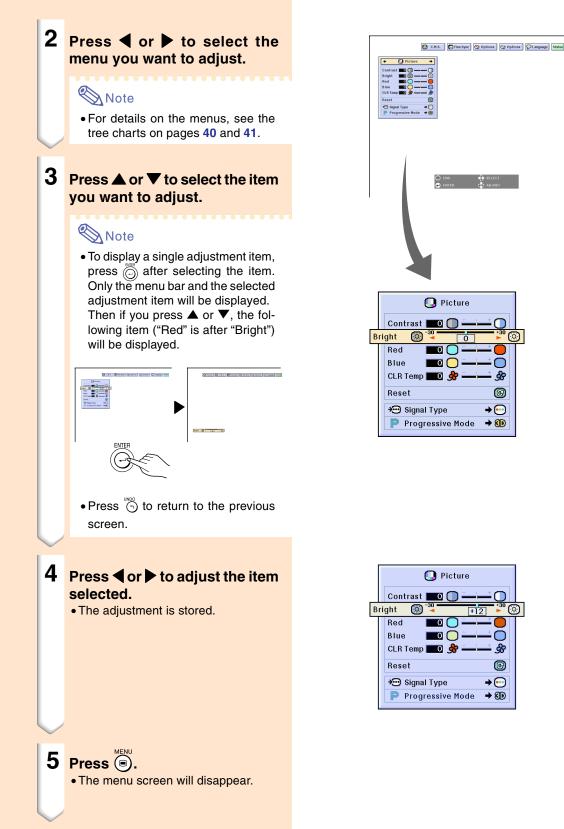
• The menu screen is displayed.

Note Note

- The "Picture" menu screen for the selected input mode is displayed.
- The on-screen display shown on the lower right is displayed when the IN-PUT 1 or 2 mode is selected.

Menu screen for INPUT 3 or INPUT 4 Mode







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Using the Menu Screen

Menu Selections (Settings)

- 1 Press (D).
 - The menu screen is displayed.

Note 📎

- The "Picture" menu screen for the selected input mode is displayed.
- The on-screen display shown on the lower right is displayed when INPUT 1 or 2 mode is selected.

2 Press ◀ or ▶ to select the menu you want to adjust.

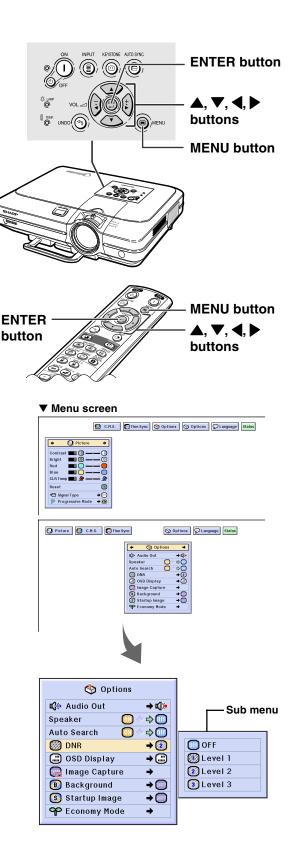
Note 📎

• For details on the menus, see the tree charts on pages 40 and 41.

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

🗞 Note

- Press (5) to return to the previous screen.
- In some menus, select the icon using "
 ".



Options

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OFF

🛞 Level 1

2 Level 2

3 Level 3

🕕 OFF

Level 1 Level 2

3 Level 3

Sub menu

⊈⇒ Audio Out

Auto Search

进 OSD Display

Background

📢 Audio Out

Auto Search

📖 OSD Display

Background

🕞 Image Capture

🜀 Startup Image

🍄 Economy Mode

Speaker

🛞 DNR

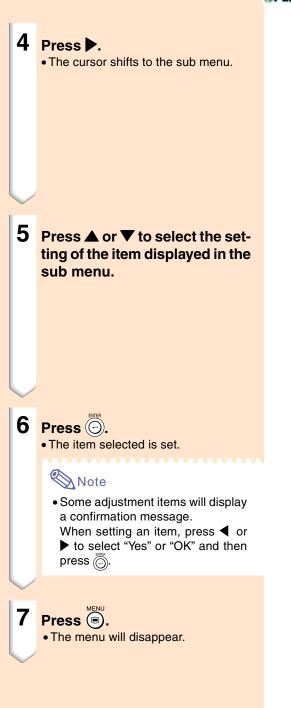
🕞 Image Capture

Startup Image P Economy Mode

🔄 Options

Speaker

🙆 DNR



Adjusting the Picture

You can adjust the projector's picture to your preferences with the following picture settings.

Selected Item	Description	◀ button	► button	
Contrast	For adjusting the contrast level	For less contrast	For more contrast	
Bright	For adjusting the brightness of an image	For less brightness	For more brightness	
Color	For adjusting the color intensity of the image	For less color intensity	For more color intensity	
Tint	For adjusting the tones of an image	Skin tones become purplish	Skin tones become greenish	
Sharp	For making sharper or softer the contour of an image	For less sharpness	For more sharpness	
Red	For adjusting the redness level	For weaker red	For stronger red	
Blue	For adjusting the blue level	For weaker blue	For stronger blue	
CLR Temp	For adjusting the color temperature of an image	Decreases color temperature for warmer, reddish, incandescent- like images.	Increases color temperature for cooler, bluish, fluorescent-like images.	
Picture	C.M.S. 😨 Fine Sync 🚯 Options 🚱 Options	Danguage Status		

Adjusting Image Preferences

Adjust the "Picture" menu on the menu screen. →For operating the menu screen, see pages 42 to 45.



- "Color", "Tint" and "Sharp" are not displayed when selecting INPUT 1 or 2 and the "Signal Type" is "RGB".
- The picture adjustments can be stored separately in each input mode.
- When the signal type in INPUT 1 or 2 has been set to Component, "Sharp" can be adjusted when 480I, 480P, 540P, 580I, 580P, 720P, 1035I or 1080I signals are connected.
- To reset all adjustment items, select "Reset" and press ().
- •"Red", "Blue" and "CLR Temp" cannot be adjusted when "Color Selected" on the C.M.S. menu is set to "sRGB".

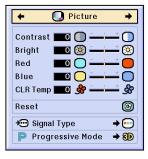
Selecting the Signal Type

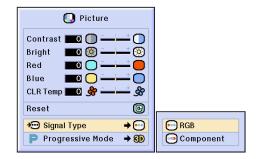
This function allows you to select the input signal type RGB or Component for INPUT 1 or 2. Select "Signal Type" in the "Picture" menu on the menu screen.

 \rightarrow For operating the menu screen, see pages 42 to 45.



- RGB
 Set when RGB signals are received.
 Component
- Set when Component signals are received.





Progressive Mode

This function allows you to select the progressive display of a video signal. The progressive display projects a smoother video image.

Select "Progressive Mode" in the "Picture" menu on the menu screen.

 \rightarrow For operating the menu screen, see pages 42 to 45.



20 Progressive

This function is useful to display fastmoving images such as sports and action films. This mode optimizes the image in a displayed frame.

3D Progressive

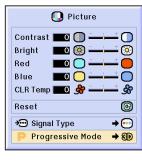
This function is useful to display relatively slow-moving images such as drama and documentary more clearly.

This mode optimizes the image by estimating the movement of a number of preceding and succeeding frames.

• 💭 Film Mode

Reproduces the image of film source clearly. Displays the optimized image of film transformed with three-two pull down (NTSC and PAL60Hz) or two-two pull down (PAL50Hz and SECAM) enhancement to progressive mode images.

- * The film source is a digital video recording with the original encoded as is at 24 frames/second. The projector can convert this film source to progressive video at 60 frames/second with NTSC and PAL60Hz or at 50 frames/second with PAL50Hz and SECAM to play back a high-definition image.
- When using progressive inputs, these inputs are directly displayed therefore 2D Progressive, 3D Progressive and Film Mode cannot be selected. These modes can be selected in interlace signals other than 1080I.
- In NTSC or PAL60Hz, even if the 3D Progressive mode has been set, the threetwo pull down enhancement will be enabled automatically, when the film source has been entered.
- In PAL50Hz or SECAM, the two-two pull down enhancement will be enabled only in the Film Mode, when the film source has been entered.



 2D 2D Progressive

 3D 3D Progressive

 Image: Specific progressive

 Image: Specific progressive

Adjusting Computer Images

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

Selected Item	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.			



When Auto Sync is OFF

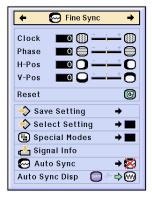
When "Auto Sync" is "OFF", interference such as flickering or vertical stripes may occur if displaying tilings or vertical stripes. Should this occur, adjust "Clock", "Phase", "H-Pos" and "V-Pos" for obtaining an optimum image.

Select "Clock", "Phase", "H-Pos" or "V-Pos" in the "Fine Sync" menu on the menu screen.

 \rightarrow For operating the menu screen, see pages 42 to 45.



• Computer image adjustments can be made easily by pressing (E). See page 50 for details.

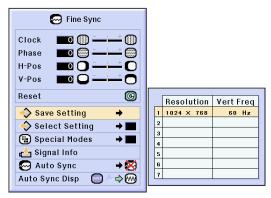


Saving Adjustment Settings

This projector allows you to store up to seven adjustment settings for use with various computers.

Select "Save Setting" in the "Fine Sync" menu on the menu screen.

 \rightarrow For operating the menu screen, see pages 42 to 45.



Selecting Adjustment Settings

Adjustment settings stored in the projector can be easily accessed.

Select "Select Setting" in the "Fine Sync" menu on the menu screen. \rightarrow For operating the menu screen, see pages 42 to 45.

Note 📎

- If a memory position has not been set, a resolution and frequency setting will not be displayed.
- When selecting a stored adjustment setting with "Select Setting", you can set the projector in the stored adjustments.

Special Mode Settings

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

Set the resolution by selecting "Special Modes" in the "Fine Sync" menu on the menu screen.

 \rightarrow For operating the menu screen, see pages 42 to 45.

\delta Note

- Avoid displaying computer patterns which repeat every other line (horizontal stripes). (Flickering may occur, making the image hard to see.)
- When a DVD player or Digital Video is connected, select 480P as the input signal.
- See "Checking the Input Signal" below for information on the currently selected input signal.

Checking the Input Signal

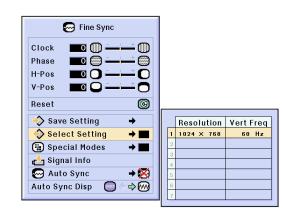
This function allows you to check the current input signal information.

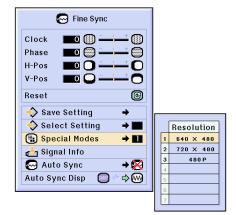
Select "Signal Info" in the "Fine Sync" menu on the menu screen.

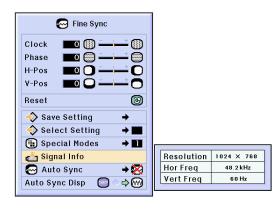
→ For operating the menu screen, see pages 42 to 45.

🕙 Note

• The projector will display the number of scanned lines available from audio-visual equipment such as a DVD player or Digital Video.







Adjusting Computer Images

Auto Sync Adjustment

Used to automatically adjust a computer image.

Select "Auto Sync" in the "Fine Sync" menu on the menu screen. \rightarrow For operating the menu screen, see pages 42 to 45.

🗞 Note

When setting to " Normal" or " High Speed":

 Auto Sync adjustment will occur when the projector is turned on or when the inputs are switched, when connected to a computer.

Manual adjustments should be performed:

- When the optimum image cannot be achieved with Auto Sync adjustment. See page **48**.
- Auto Sync adjustment may take some time to complete, depending on the image of the computer connected to the projector.
- When setting "Auto Sync" to "OFF" or "High Speed", and if control is pressed Auto Sync will be executed in "High Speed" mode. If the button is pressed again within one minute, Auto Sync will be executed in "Normal" mode.

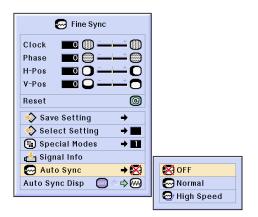
Auto Sync Display Function

Used to set the screen displayed during Auto Sync.

Select "Auto Sync Disp" in the "Fine Sync" menu on the menu screen. \rightarrow For operating the menu screen, see pages 42 to 45.

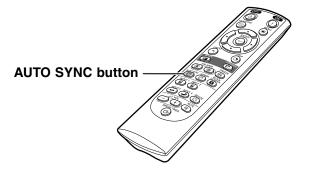


- Image set as a background image is projected.
- Solution The computer image being adjusted is displayed.



Screen display during Auto Sync







PureGlare

Easy to Use Functions



Selecting the Picture Display Mode

This function allows you to modify or customize the picture display mode to enhance the input image. Depending on the input signal, you can choose "NORMAL", "FULL", "DOT BY DOT", "BORDER", "STRETCH" or "SMART STRETCH" image.

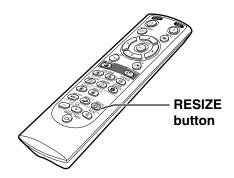
Switching the Picture Display Using Different Input Signals

Press 💿.

• Each time is pressed, the display changes as shown on page 52 and 53.

📕 Info

- In the Dot by Dot Mode, images are displayed in the original resolution, therefore they will not be enlarged.
- To return to the standard image, press () while "RESIZE" is displayed on the screen.



Screen display of the picture display mode



COMPUTER

		NORMAL FULL		DOT BY DOT
	SVGA (800 × 600)	1024 × 768	—	800 × 600
4:3 aspect ratio	XGA (1024 × 768)	1024 imes 768	—	—
	SXGA (1280 × 960)	1024 imes 768	—	1280 × 960
	UXGA (1600 × 1200)	1024 imes 768	—	1600 × 1200
Other aspect ratios	SXGA (1280 × 1024)	960 × 768	1024 × 768	1280 × 1024

 \bullet "NORMAL" is fixed when XGA (1024 \times 768) signals are entered.

			Output screen image	
Input 9	Signal	NORMAL	FULL	DOT BY DOT
		Projects a full screen image while maintaining the aspect ratio.	Projects a full screen image while ignoring the aspect ratio.	Projects the original resolution signal of the image.
Resolution lower than XGA	4:3 aspect ratio		while ignoring the aspect ratio.	
XGA	4:3 aspect ratio			
Resolution higher than XGA	4:3 aspect ratio			
SXGA (1280 × 1024)		t		



VIDEO

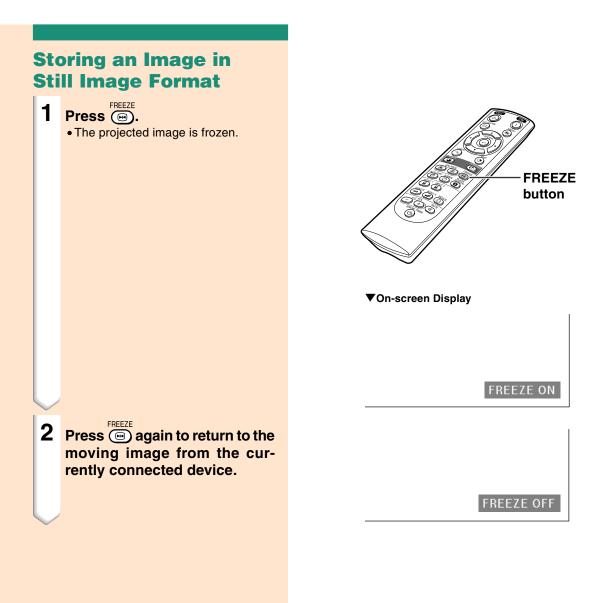
		NORMAL	FULL	BORDER	STRETCH	SMART STRETCH
480I, 480P, 580I, 580P,	4:3 aspect ratio.	1004700		700 570*		1004 570*
NTSC, PAL, SECAM	Letter box, squeeze	1024 × 768		768 × 576*	1024 × 576*	1024 × 576*
540P	16:9 aspect ratio	—	1024 × 768	—	1024 × 370	—
720P, 1035I, 1080I	16:9 aspect ratio	—	—	—		—

• "STRETCH" is fixed when 720P, 1035I or 1080I signals are entered. * The Digital Shift function can be used with these images.

				Output screen imag	e	
Input	Input Signal		FULL Projects the center part in a 4:3 screen by enlarging 1.3 times toward the horizontal direction.	BORDER Projects 4:3 image fully in STRETCH (the following column) image.	STRETCH Projects 16:9 image evenly over entire screen (top/bottom black bands).	SMART STRETCH Projects the image fully in a 16:9 screen by enlarging only the surrounding areas while keeping the aspect ratio in the middle part of the image at 4:3.
	4:3 aspect ratio			→ ° <u>°</u> ° –		
480I, 480P, 580I, 580P, NTSC, PAL, SECAM	Letter box	000 t		→ <u> </u>		
	Squeeze			→ <u>000</u> –		
	16:9 aspect ratio		-			
540P	16:9 aspect ratio (4:3 aspect ratio in 16:9 screen)		[]		→ ° <u>°</u> °°	
720P, 1035I, 1080I	16:9 aspect ratio					

Displaying a Still Image

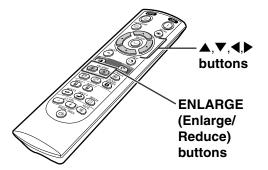
This function allows you to instantly freeze a moving image. This is useful when you want to display a still image from a computer or video, giving you more time to explain the image to the audience.



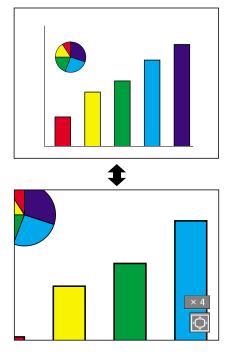
Enlarging a Specific Portion of an Image

This function allows you to enlarge a specific portion of an image. This is useful when you want to display a detailed portion of the image.

Displaying an Enlarged Portion of an Image 1 Press (@) • Enlarges the image. • Pressing () or () enlarges or reduces the projected image. 🖏 Note To enlarge ×1 ×2 ×3 ×4 ×9 ×16 ×36 ×64 To reduce You can change the location of the enlarged image using \blacktriangle , \bigtriangledown , \triangleleft and ▶. • When an image with a resolution higher than SXGA is displayed, "x2" and "×3" cannot be selected. 2 Press (5) to cancel the operation, then the magnification returns to ×1. 🛞 Note In the following cases, the image will return to the normal size (\times 1). • When switching the INPUT mode. • When 👸 has been pressed. • When the input signal is changed. When the input signal resolution and refresh rate (vertical frequency) change.



▼On-screen Display



Gamma Correction Function

Gamma is an image quality enhancement function that offers a richer image by brightening the darker portions of the image without altering the brightness of the brighter portions. When you are displaying images with frequent dark scenes, such as a film or concert, or when you are displaying images in a bright room, this feature makes the dark scenes easier to see and gives the impression of greater depth in the image.

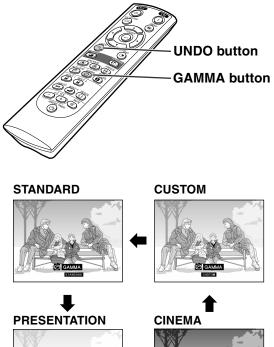
Selected Mode	Description		
STANDARD	For Standard picture		
PRESENTATION	Brightens darker portions of image for more enhanced presentations.		
CINEMA	Gives greater depth to darker portions of image for a more exciting theater experience.		
CUSTOM	Allows you to adjust gamma value using Sharp Advanced Presentation Software.		

Adjusting Gamma Correction

- Each time a is pressed, the gamma level toggles between the different types of gamma modes.
- 2 To return to the default settings, press 🕤 when "GAMMA" is displayed.

Note 📎

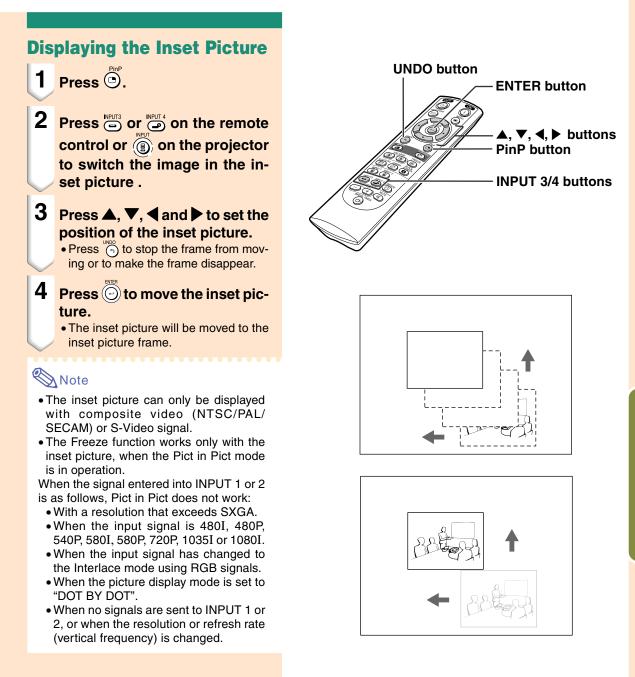
• The Gamma mode does not operate for INPUT 1 or INPUT 2 when "Color Selected" on the C.M.S. menu is set to "sRGB".





Displaying Dual Pictures (Pict in Pict)

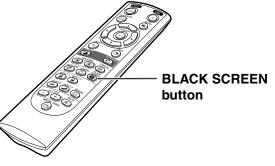
Picture in Picture function allows you to display two pictures on the same screen. You can display the image input from INPUT 3 or 4 as an inset picture overlapping the main picture from INPUT 1 or 2.



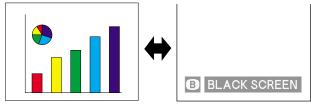
Black Screen Function

This function can be used to display a black screen.

Blacking out the Projected Image 1 Press BLACK • The screen turns black and "BLACK SCREEN" is displayed on the screen. 2 To return to the original projected image, press again.



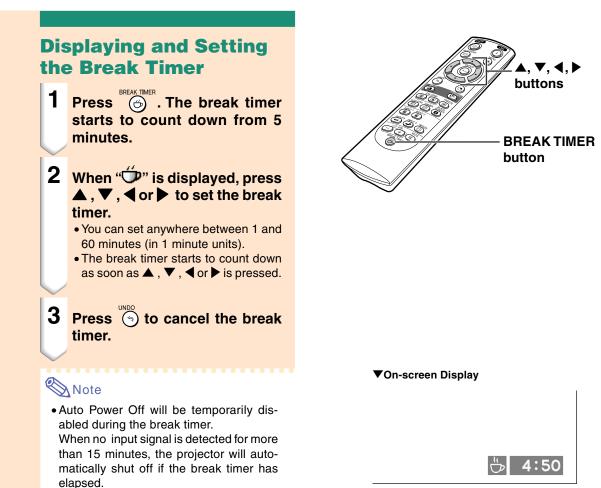
Projected Image



Displaying the Break Timer

 The break timer will be displayed on the startup image. To change the screen displayed during the break timer, change the setting of "Startup Image" (see page 68).

This function can be used to show the remaining time for break during meeting.



Color Management System (C. M. S.)

This function allows you individually adjust the display characteristics of six colors (R: Red, Y: Yellow, G: Green, C: Cyan, B: Blue, M: Magenta).

🚺 Picture 🛄 C.M.S. 🔄 Fine Sync 🔇 Options 🔇 Options 🖓 Language Status

Selecting the Color Reproduction Mode

Select "Color Selected" in the "C.M.S." menu on the menu screen. \rightarrow For operating the menu screen, see pages 42 to 45.

Note

- For additional information about sRGB function, visit "http://www.srgb.com/".
- "sRGB" cannot be selected for "Color Selected" on the C.M.S. menu when "Component" is selected for "Signal Type" on the "Picture" menu.
- When "sRGB" is selected;
 - The gamma correction cannot be set.
 - "Red", "Blue" or "CLR Temp" in "Picture" cannot be adjusted.
- If "Standard" or "sRGB" is selected for "Color Selected", other items (e.g., Target) cannot be adjusted.

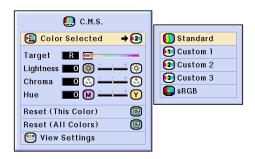
Info

• When "sRGB" is selected, the projected image may become dark; however, this does not indicate a malfunction.

Selecting the Target Color

Select "Target" in the "C.M.S." menu on the menu screen.

 \rightarrow For operating the menu screen, see pages 42 to 45.



Selected item	Description
Standard	Sharp default setting
Custom 1-3	"Lightness", "Chroma" and "Hue" can be adjusted for each of the six colors.
sRGB	The mode changes to sRGB

		🛄 с.м.	.s.		
•	Color	Selecte	ed	→2	
arget		B :			
Ligh	tness	0 🙆		-	
Chr	oma	0 📀			
Hue		0 M		<u>*</u> 🕐	
Res	et (Th	is Color)	0	L
Res	et (Al	l Colors)	C	
•	View	Settings			

R	Red	6	Cyan
Y	Yellow	B	Blue
6	Green	≥	Magenta



Setting the Brightness of the Target Color

Select "Lightness" in the "C.M.S." menu on the menu screen. \rightarrow For operating the menu screen, see pages 42 to 45.

ſ	🛄 C.M.S.	
	€ Color Selected → 2	
	Target 🖪 🚍 🗕	
Li	ghtness 🛞 🍕 🗾 📩	0
Т	Chroma 🗾 💽 🛶 🕂 🔇	Γ
	Hue 🔲 🔛 👾 🖓	
	Reset (This Color) 🔞	
	Reset (All Colors)	
	📁 View Settings	
L		

Setting the Chromatic Value of the Target Color

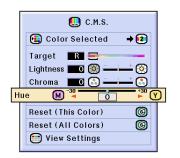
Select "Chroma" in the "C.M.S." menu on the menu screen. \rightarrow For operating the menu screen, see pages 42 to 45.



Setting the Hue of the Target Color

Select "Hue" in the "C.M.S." menu on the menu screen.

 \rightarrow For operating the menu screen, see pages 42 to 45.



Resetting User-Defined Color Settings

Select "Reset (This Color)" or "Reset (All Colors)" in the "C.M.S." menu on the menu screen.

 \rightarrow For operating the menu screen, see pages 42 to 45.

🛄 c.m.s.
🕒 Color Selected 🛛 🗕 😢
Target R Lightness O O
Reset (This Color)
Reset (All Colors)
💼 View Settings

Selected item	Description
Reset (This Color)	"Lightness", "Chroma" and "Hue" of the color selected for "Target" are reset.
Reset (All Colors)	"Lightness", "Chroma" and "Hue" of all colors are reset.

Overview of All Color Settings

Select "View Settings" in the "C.M.S." menu on the menu screen. \rightarrow For operating the menu screen, see pages 42 to 45.

() С.М.S.	
📵 Color Selected	⇒ 💶
TargetMLightness00Chroma0-Hue00	
Reset (This Color)	©
Reset (All Colors)	©
😁 View Settings	

	B	(Y)	6	C	B	M	
Lightness	0	0	0	0	0	0	
Chroma	0	0	0	0	0	0	
Hue	0	0	0	0	0	0	

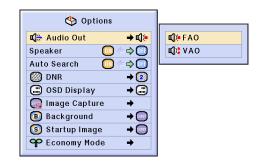
Setting the Audio Output Type

This function allows you to set the audio output type.

O Picture C.M.S.	Fine Sync Options Options Status
Selected Item	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.

Setting the Audio Output Type

Select "Audio Out" in the "Options (1)" menu on the menu screen. \rightarrow For operating the menu screen, see pages 42 to 45.



Setting on/off the Internal Speaker

This function allows you to set on/off the internal speaker.

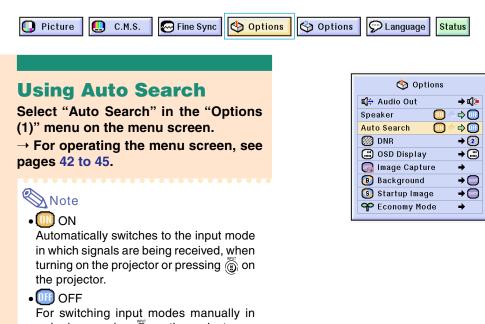
Setting on/off the Internal Speaker

Select "Speaker" in the "Options (1)" menu on the menu screen. \rightarrow For operating the menu screen, see pages 42 to 45.

🅙 Opt	ions
📢 Audio Out	→ щ»
Speaker	
Auto Search	
🥘 DNR	→ 😢
进 OSD Display	→ 📖
🕞 Image Captu	re 🔶
Background	→ 🔘
🜀 Startup Imag	e → 💭
🍄 Economy Mo	de 🔶

Auto Search Function

This function automatically searches for and switches to the input mode in which signals are being received, when the projector is turned on, or when the INPUT button is pressed.



order by pressing (a) on the projector.
 To stop searching for the input mode, press (a) on the projector, or (a), (a), (b)

or $\overset{\text{INPUT 4}}{\textcircled{\baselineskip}}$ on the remote control.

🚺 Info

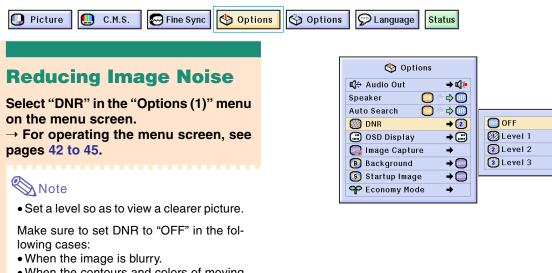
input mode is switched to the respective one.

• Even while the function is searching for input signals, pressing () on the projector returns to the previous input mode.



Video Digital Noise Reduction (DNR) System

Digital Noise Reduction (DNR) provides high quality images with minimal dot crawl and cross color noise.



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

🛄 Info

• This function is available with INPUT 1, 2 (480I, 480P, 580I and 580P signals) and INPUT 3, 4 (all signals).

Setting On-screen Display

This function allows you to turn on or off the on-screen messages. When setting "Devel A" or "Devel B" in "OSD Display", the input mode display (e.g. INPUT 1) will not appear, even if the INPUT button is pressed.

Selected Item	Description
📟 Normal	All On-screen Displays are displayed.
🗂 Level A	Input/Freeze/Enlarge/Auto Sync/Volume/Mute/Black Screen are not displayed.
Level B	All On-screen Displays are not displayed.
	(except Menu, On-Screen Displays displayed when the KEYSTONE button is pressed,
	and warning displays (Power off/Temp./Change The Lamp., etc.))

Turning Off the On-screen Display

Select "OSD Display" in the "Options (1)" menu on the menu screen. → For operating the menu screen, see pages 42 to 45.

상 Options		
📢 🕀 Audio Out	→ щ»	
Speaker 🔘	(+ ⇒) 🕕	
Auto Search 🛛 🛄	(+⇒)	
🥘 DNR	→ 😢	
🔲 OSD Display	→	- Normal
🕞 Image Capture	→	Level A
Background	→ 📖	Level B
🜀 Startup Image	→ 💷	
🍄 Economy Mode	+	

Setting the Video System

The video input system mode is 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.

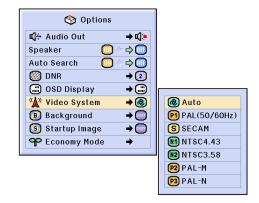


Setting the Video System

Select "Video System" in the "Options (1)" menu on the menu screen. → For operating the menu screen, see pages 42 to 45.

Note Note

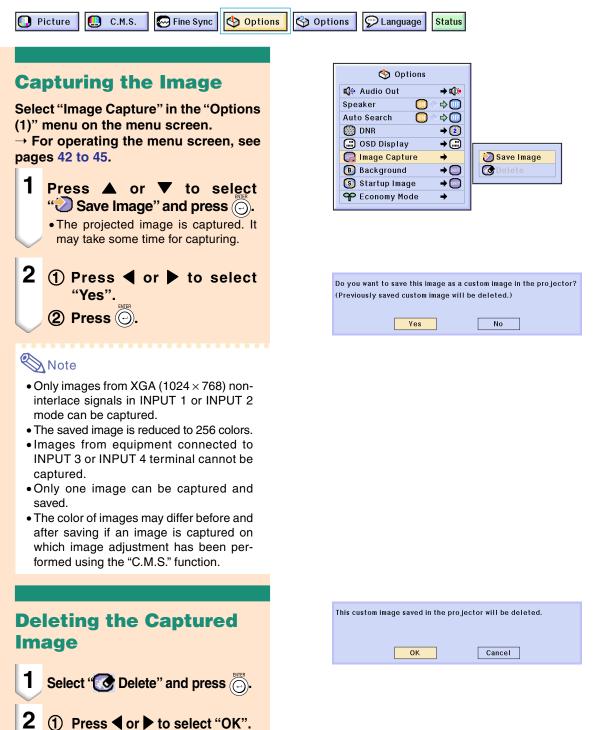
- The video signal can only be set in IN-PUT 3 or INPUT 4 mode.
- In "Auto", images are displayed in PAL even if PAL-N or PAL-M input signals are received.



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

Saving Projected Images

- This projector allows you to capture projected images (RGB signals) and set them as a startup image, or background image when no signals are being received.
- You can capture the images that are input using RGB signals.



(2) Press ().

Setting a Background Image

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

Selected Item	Description
💷 Sharp	SHARP default image
O Custom *1	User customized image (e.g. company logo)
Blue	Blue screen
None	Black screen *2

🕙 Options

→ щ»

۵ 🗇

۵ 🗇

→ 2

→ 😄

+ 💷

→ 📖

→

回 Sharp

🙆 Custom

🔵 Blue 🛑 None

📢 Audio Out

Auto Search

📖 OSD Display

Background

🕞 Image Capture

🜀 Startup Image

🍄 Economy Mode

Speaker

🛞 DNR

*1 You can set a captured image as a background image by selecting "Custom".

*2 If the input signal has interference, the screen will be displayed with the interference.

💽 Picture 🛄 C.M.S. 🐼 Fine Sync 🚯 Options 🚱 Options 🖓 Langu	age <mark>Status</mark>	
--	-------------------------	--

Selecting a Background Image

Select "Background" in the "Options (1)" menu on the menu screen. → For operating the menu screen, see pages 42 to 45.

🗞 Note

- When "Custom" is selected, an image saved using "Image Capture" can be displayed as a background image.
- A "Custom" image is preset as a black screen.

Selecting a Startup Image

This function allows you to specify the image to be displayed upon the projector's startup.

Selected Item	Description	
📟 Sharp	SHARP default image	
O Custom *	User customized image (e.g. company logo)	
None	Black screen	

* You can set a captured image as a startup image by selecting "Custom".

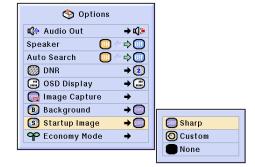
Selecting a Startup Image

Select "Startup Image" in the "Options (1)" menu on the menu screen.

 \rightarrow For operating the menu screen, see pages 42 to 45.

Note 📎

- When "Custom" is selected, an image saved using "Image Capture" can be displayed as a startup image.
- A "Custom" image is preset as a black screen.



GB-68

Selecting the Economy Mode

🔛 Fine Sync

These functions allow you to reduce the power consumption of the projector.

🔲 Picture	🛄 C.M.S.

Options Options

Setting the Power Save Mode

Select "Power Save" in "Economy Mode" under the "Options (1)" menu on the menu screen.

 \rightarrow For operating the menu screen, see pages 42 to 45.

🗞 Note

- Although lamp life and noise are improved when "Power Save" is set to "ON", brightness decreases by 20%.
- "Power Save" mode is factory preset to "OFF".

🔥 Option	s	
📢 Audio Out	⇒ ⊈)>	
Speaker 🧕)∕⇒◯	
Auto Search 🛛 🧕)∕⇒0	
🥘 DNR	→ 📀	
进 OSD Display	→ 📖	
🕞 Image Capture	→	
Background	+	
🜀 Startup Image	→ 💿	
🍄 Economy Mode	→	Power Save
		Mntr.out/RS2
		Auto Power (

Status

Status	Brightness	Power consumption	Lamp Life
ON (Low power mode)	80%	290 W	2,000 hours
OFF (Standard mode)	100%	340 W	1,500 hours

Monitor Out/RS-232C Off Function

This projector consumes power when using a monitor connected to the OUTPUT (INPUT 1, 2) terminal and a computer connected to the RS-232C terminal. When not using these terminals, "Mntr.out/RS232" can be set to "OFF" to reduce standby power consumption.

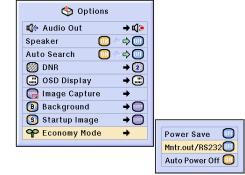
Select "Mntr.out/RS232" in "Economy Mode" under the "Options (1)" menu on the menu screen.

 \rightarrow For operating the menu screen, see pages 42 to 45.

ON	Monitor Out/RS-232C connection is set to "ON".
OFF	Monitor Out/RS-232C connection is set to "OFF".

Note 📎

• Set "Mntr.out/RS232" to "ON" when using the Sharp Advanced Presentation Software.



Easy to Use Functions

Selecting the Economy Mode

Automatic Power Off Function

When no input signal is detected for more than 15 minutes, the projector will automatically power off if set to "ON".

The Auto Power Off function will be disabled when it has been set to "OFF".

Select "Auto Power Off" in "Economy Mode" under the "Options (1)" menu on the menu screen.

 \rightarrow For operating the menu screen, see pages 42 to 45.

\delta Note

• When the Auto Power Off function is set to "ON", 5 minutes before the power turns off, the message "Power OFF in X min." will appear on the screen to indicate the remaining minutes.





Power	OFF	in	1	min.
(‡)				

Displaying the Remaining Lamp Life (Percentage)

🚺 Picture 🎒 C.M.S. 🔄 Fine Sync 🚯 Options 🚱 Options 💬 Language Status

Checking the Remaining Lamp Life (Percentage)

This function allows you to check the remaining lamp life (percentage).

Select the "Options (2)" menu on the menu screen.

 \rightarrow For operating the menu screen, see pages 42 to 45.

Note 📎

 It is recommended that the lamp be changed when the remaining lamp life becomes 6%.
 For lamp replacement, contact your

nearest Sharp Authorized Projector Dealer or Service Center.

The table at the right indicates rough estimates in the case of using only in each mode shown. Remaining lamp life changes within the range of the values shown depending on the frequency at which "Power Save" is switched "ON" and "OFF" (see page 69).



Remaining Lamp Life (Percentage)

	Remaining lamp life		
	100%	6%	
Used with only "ON" on "Power Save" (Low power mode)	2,000 hours	133 hours	
Used with only "OFF" on "Power Save" (Standard mode)	1,500 hours	100 hours	

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.

Selected Item	Description
	Normal image
E Ceiling + Front	Inverted image
📮 Rear	Reversed image
🖆 Ceiling + Rear	Reversed and inverted image

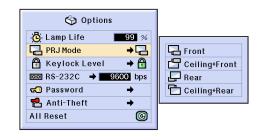
💽 Picture 🛄 C.M.S. 🐼 Fine Sync	🔥 Options	Solutions	🗩 Language	Status
--------------------------------	-----------	-----------	------------	--------

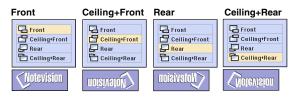
Setting the Projection Mode

Select "PRJ Mode" in the "Options (2)" menu on the menu screen. \rightarrow For operating the menu screen, see pages 42 to 45.

Note Note

- If a password has been set, the password input box will be displayed when selecting the "PRJ Mode".
- This function is used for the reversed image and ceiling-mount setups. See page 32 for these setups.





Locking the Operation Buttons on the Projector

This function can be used to lock the use of certain operation buttons on the projector. The following are the three keylock levels.

Keylock Level	Description
🔁 Normal	All operation buttons are functional.
🖰 Level A	Only INPUT/VOLUME/MUTE buttons on the projector are available.
🔒 Level B	All operation buttons on the projector are unavailable.

Setting up the Keylock

Select "Keylock Level" in the "Options (2)" menu on the menu screen. → For operating the menu screen, see pages 42 to 45.

🗞 Note

• If a password has been set, the password input box will be displayed when selecting the "Keylock Level".



Locking the Operation Buttons on the Projector

Canceling the Keylock Setting

When the Keylock Level is set to "Normal", all buttons are functional.

Select "Keylock Level" in the "Options (2)" menu on the menu screen and set "
Normal".

 \rightarrow For operating the menu screen, see pages 42 to 45.



- When a password has been set, and "Keylock Level" is selected, the password input box will be displayed.
- If both a password and the Keylock Level have been set at the same time, the password will be necessary before changing the Keylock Level.

🍪 Options	
🙆 Lamp Life 🛛 🛛	99 %
📮 PRJ Mode	→ 🔁
🔒 Keylock Level	+ 🔂
10101 RS-232C 🔿 🧐	600 bps
圮 Password	→
🔁 Anti-Theft	+
All Reset	C

Password	-	-	-	-	

Selecting the Transmission Speed (RS-232C)

This menu allows you to adjust the transmission speed of the RS-232C connection by selecting the baud rate.



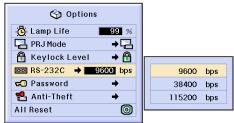
Selecting the Transmission Speed (RS-232C)

Select "RS-232C" in the "Options (2)" menu on the menu screen.

 \rightarrow For operating the menu screen, see pages 42 to 45.

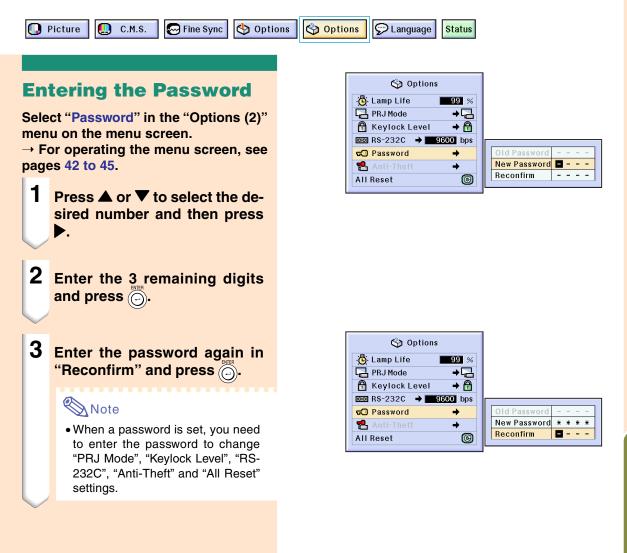
🆏 Note

- When a password has been set, and "RS-232C" is selected, the password input box will be displayed.
- Make sure that both the projector and computer are set for the same baud rate. Refer to the computer's operation manual for instructions for setting the computer's baud rate.



Setting up a Password

A password can be set by the user to prevent adjustments to certain settings on the "Options (2)" menu. Using a password together with the Keylock Level (page 71) is more effective.



Changing the Password

Select "Password" in the "Options (2)" menu on the menu screen. \rightarrow For operating the menu screen, see

pages 42 to 45.

- Press ▲, ▼ and ▶ to enter the password in "Old Password" and press .
- Press ▲, ▼ and ▶ to set the new password and press .
- 3 Enter the new 4-digit password again in "Reconfirm" and press

Note Note

- If you do not want to set a password, leave the fields in procedures 2 and 3 blank and press .
- To cancel the password settings, click ().

If You Forget Your Password

If you forget the password, delete it and set a new password using the following procedure.

Press
$$(1) \rightarrow (2) \rightarrow (1) \rightarrow (2) \rightarrow (2)$$



Г					
	Old Password	-	-	-	-
	New Password	-	-	-	-
	Reconfirm	-	-	-	-

Setting the Anti-Theft

The anti-theft function prevents unauthorized use of the projector. You can choose to use this function or not. If you do not want to use this function, just do not enter the keycode. Once the anti-theft function is activated, users will need to enter the correct keycode each time the projector is turned on. Failure to enter the correct keycode will cause images not to be projected. The following procedures explain how to use this function.



Entering the Keycode

- "Anti-Theft" cannot be selected unless "Password" is set. (See page 73.)
- When "Anti-Theft" is selected, the password input box will appear. Enter the keycode after the right password is entered.

Select "Anti-Theft" in the "Options (2)" menu on the menu screen. → For operating the menu screen, see

pages 42 to 45.

📕 Info

 Once the function is activated, you must remember the correct keycode. We suggest you record the keycode in a safe place where only authorized users have access. If you lose or forget your keycode, you will need to contact your nearest Sharp Authorized Projector Dealer or Service Center (see page 96). You may need to bring your projector to them to restore the projector to original factory condition (password and keycode reset).

1 Press any button you like on the remote control or projector to set the first digit in "New Code".

🔕 Note

- The following buttons on the remote control and projector cannot be set as keycodes:
 - POWER (ON/OFF) buttons
 - ENTER button
 - UNDO button
 - MENU button
 - FORWARD button
 - BACK button







Old Code	
New Code	
Reconfirm	

Setting the Anti-Theft

2 Enter the remaining 3 digits by pressing any buttons you like.

3 Enter the same keycode once more in "Reconfirm".

Note

• The Keylock function will become temporarily disabled.

When "Anti-Theft" is set, the keycode inputting box appears after the power is turned on. When it appears, enter the right keycode.

 Press the buttons on the remote control if the buttons on the remote control are used for setting the keycode. In the same manner, press the buttons on the projector if the buttons on the projector are used for setting the keycode.

Changing the Keycode

• When "Anti-Theft" is selected, the password input box is displayed. After the password has been entered, you can change the keycode.

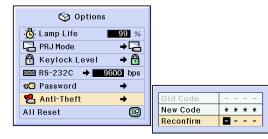
Select "Anti-Theft" in the "Options (2)" menu on the menu screen.

 \rightarrow For operating the menu screen, see pages 42 to 45.

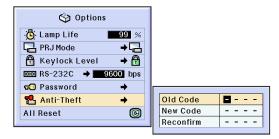
- **1** Press the buttons on the remote control or the projector to enter the preset 4-digit keycode in "Old Code".
- 2 Press any button you like on the remote control or the projector to enter the new keycode.
- 3 Enter the same 4-digit keycode in "Reconfirm".

\delta Note

• If you do not want to set a keycode, leave the keycode field blank in steps 2 and 3 and press .







Initializing the Settings

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



Returning to the Default Settings

Select "All Reset" in the "Options (2)" menu on the menu screen. \rightarrow For operating the menu screen, see pages 42 to 45.

Note 📎

• If a password has been set, the password input box will be displayed when selecting "All Reset".

The following items cannot be initialized.

- C. M. S.
 - "Lightness", "Chroma" and "Hue" respectively saved for Custom 1-3 on the C.M.S. menu.
- Fine Sync
 - Special Modes
 - Signal Info
- Options
 - Lamp Life
 - Anti-Theft
- Language
- Image stored using "Image Capture"



Displaying the Adjustment Settings

This function can be used to display all the adjusted settings as a list on the screen.

💽 Picture 🛄 C.M.S. 🔄 Fine Sync 🔇 Options 🚱 Options 🗊 La	ge Status
---	-----------

Overview of All Menu Settings

Select the "Status" menu on the menu screen and press \bigcirc . → For operating the menu screen, see

 \rightarrow ror operating the menu screen, see pages 42 to 45.

Picture	C.M.S.	😔 Fine Sync	Options	🌖 Options	Other
O O Contrast	€ ¢O Color Selected	Clock 0	KG⇔ ⇔KQ≫ Audio Out	-🔂 99% Lamp Life	English English
S 0 Bright		O O Phase	O ¢≓ O Speaker	PRJ Mode ⇒	
e 0 Red		O O H-Pos	O ←⇒O Auto Search	A and a second seco	
0 Blue		O O V-Pos	Ø ⇒O DNR	RS-232C	O Standard Gamma
🔗 0 CLR Temp		Select Setting	GSD Display	Password	Normal Resize
⊁œ ⇔ 🕶 Signal Type		Special Modes	B ⇒ Background	名 🔄 Anti-Theft	
P 💠 👀 Progressive Mode		O Auto Sync	S ⇒ Startup Image		
		O ← ⇔ 👀 Auto Sync Disp	O ← ⇒ O Power Save		Serial Number 123456789
			Mntr.out/RS232	O 🔄 🔘 Auto Power Off	Firmware C50X020604

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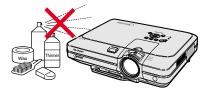
Maintenance

Cleaning the projector

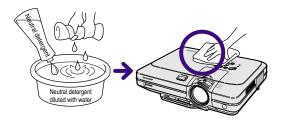
- Be sure to unplug the power cord before cleaning the projector.
- The cabinet as well as the operation panel is made of plastic. Avoid using benzene or thinner, as these can damage the finish on the cabinet.
- Do not use volatile agents such as insecticides on the projector.

Do not attach rubber or plastic items on the projector for long time.

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 neutral 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 using.

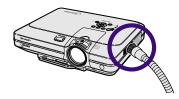
Cleaning the lens

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



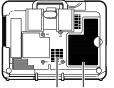
Cleaning the exhaust and intake vents

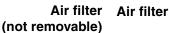
Use a vacuum cleaner to clean dust from the exhaust vent and the intake vent.



Replacing the Air Filter

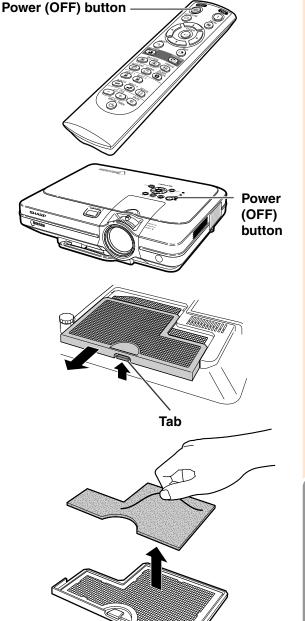
- This projector is equipped with air filters to ensure the optimal operating condition of the projector.
- The air filters should be cleaned every 100 hours of use. Clean the filters more often when the projector is used in a dusty or smoky location.
- Ask your nearest Sharp Authorized Projector Dealer or Service Center to exchange the filter (PFILDA005WJZZ) when it is no longer possible to clean.





Cleaning and replacing the bottom air filter

- **1** Turn off the power and disconnect the power cord.
 - Press (b). Wait until the cooling fan stops.



Remove the bottom filter cover. Turn over the projector. Grab the tab and slide open the filter cover in the

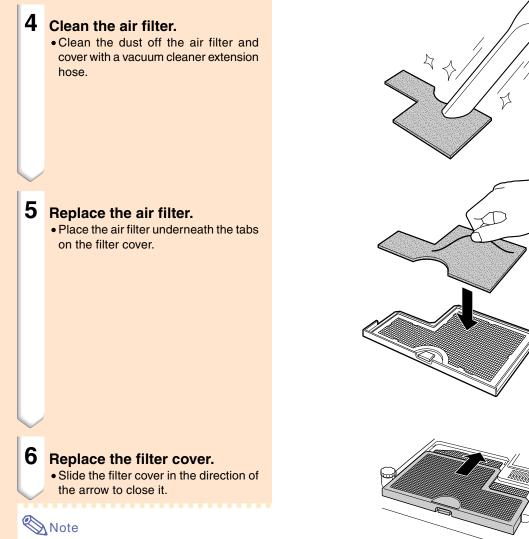
3 Remove the air filter.

direction of the arrow.

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

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Replacing the Air Filter



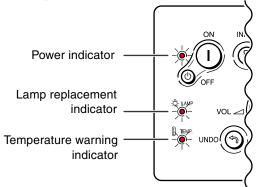
- Be sure the filter cover is securely installed. The power will not turn on unless it is correctly installed.
- If dust or dirt has collected inside the bottom air filter (not removable), clean the filter with a vacuum cleaner extension hose.

GB-82

Maintenance Indicators

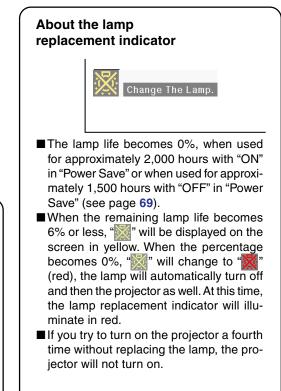
- The warning lights on the projector indicate problems inside the projector.
- If a problem occurs, either the temperature warning indicator or the lamp replacement indicator will illuminate red, and the power will turn off. After the power has been turned off, follow the procedures given below.

TEMP.



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 blink 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 further 90 seconds, then the power will be shut off. After "**TEMP.**" appears, be sure to perform the following measures.



Maint	enance indicat	or	Condition Problem		Possible Solution	
T	Normal	Abnormal	The internal	Blocked air intake	• Relocate the projector to an area with proper ventilation.	
Temperature warning indicator	Off	Red on/ Power off	temperature is abnormally high.	 Cooling fan break- down Internal circuit failure Clogged air intake 	• Take the projector to your nearest Sharp Authorized Projector Dealer or Service Center (see page 96) for repair.	
Lamp	Green on	Red blinks/ Red on	Time to change the lamp	Remaining lamp life becomes 6% or under. Scarefully replace the lamp page 86) Take the projector to your		
Lamp replacement indicator	blinks when the lamp is active.	Red on/ Power off	The lamp does not illuminate.	 Burnt-out lamp Lamp circuit failure 	 Sharp Authorized Projector Dealer or Service Center (see page 96) for repair. Please exercise care when replacing the lamp. 	
Power indicator	Green on/ Red on	Red blinks	The power indicator blinks in red when the projector is on.	• The filter cover, lamp unit cover or lens cover is open.	 Securely install the filter cover. If the power indicator blinks even when the filter cover is securely installed, contact your nearest Sharp Authorized Projector Dealer or Service Center for advice. 	

Appendix

Maintenance Indicators

🛄 Info

- If the temperature warning indicator illuminates, and the power turns off, follow the above possible solutions and then wait until the projector has cooled down completely before plugging in the power cord and turning the power back on. (At least 5 minutes.)
- If the power is turned off and then turned on again, as during a brief test, the lamp replacement indicator may be triggered, preventing the power from going on. Should this occur, take the power cord out of the wall outlet and plug it back in again.
- If you want to clean the air vents during projector operation, be sure to first press () and after the power has turned off and the cooling fan has stopped, then clean the vents.
- Do not unplug the power cord after the power has been turned off and while the cooling fan is running. The cooling fan runs for about 90 seconds.

Regarding the Lamp

Lamp

- It is recommended that the lamp (sold separately) be replaced when the remaining lamp life becomes 6% 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 70.
- For lamp replacement, please consult your 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).

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 or flash, 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 with 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 remove the damaged lamp and assure safe operation.

Replacing the Lamp

*****Caution

- Do not remove the lamp unit immediately after operation of the projector. The lamp will be hot and touching it can lead to 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.
- If the new lamp does not light after replacement, take your projector to the nearest Sharp Authorized Projector Dealer or Service Center for repair. Purchase a replacement lamp unit of type BQC-XGC50X//1 from your nearest Sharp Authorized Projector Dealer or Service Center. Then 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.

Removing and Installing the Lamp Unit

🛄 Info

- Be sure to remove the lamp unit by the handle. Be sure not to touch the glass surface of the lamp unit or the inside of the projector.
- To avoid injury to yourself and damage to the lamp, be sure to carefully follow the steps below.
- Do not loosen other screws except for the lamp unit cover and lamp unit. (Only the silver screws are loosened).
- Please refer to the installation manual included with the lamp unit.

1 Press (b) on the projector to turn off the power.

• Wait until the cooling fan stops.

Warning!

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

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 Change the air filter.

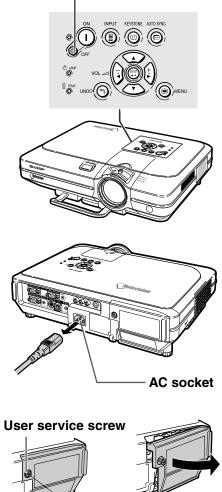
• Change the air filter whenever you install the lamp unit (see pages 81 and 82).

4 Remove the lamp unit cover.

• Loosen the user service screw that secures the lamp unit cover. Then open the cover in the direction of the arrow.

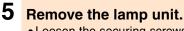
Lamp unit BQC-XGC50X//1

Power (OFF) button



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• Loosen the securing screws from the lamp unit. Hold the lamp unit by the handle and pull it in the direction of the arrow.

6 Insert the new lamp unit.

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

Attach the lamp unit cover.

• Insert the tab of the lamp unit cover into the opening, and press the cover until it clicks in place.

📕 Info

• If the lamp unit and lamp 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.

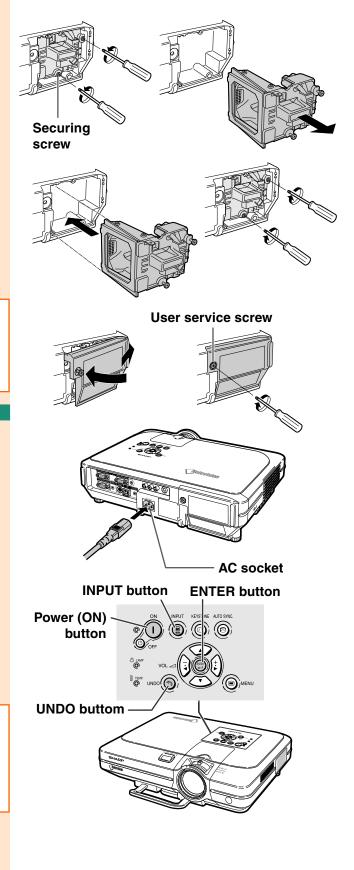
- Connect the power cord.
 - Plug the power cord into the AC socket of the projector.

2 Reset the lamp timer.

- While pressing simultaneously ((a), (b)) and ((b)) on the projector, press ((b)) on the projector.
- "LAMP 100%" is displayed, indicating that the lamp timer is reset.

📕 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.



Connecting Pin Assignments

INPUT 1/2 RGB and OUTPUT Signal Terminal: 15-pin Mini D-sub female connector

5

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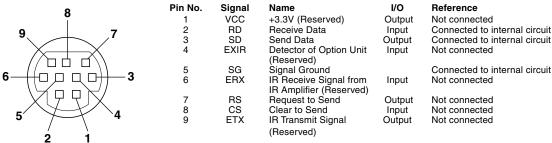
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6



- 1. Video input (red) 2. Video input (green
- 2. Video input (green/sync on green)
- Video input (blue)
 Reserve input 1
- 5. Composite sync
- 6. Earth (red)
- Earth (green/sync on green)
- 8. Earth (blue)
- 9. Not connected
- 10. GND
- 11. GND
- 12. Bi-directional data
- 13. Horizontal sync signal
- 14. Vertical sync signal
- 15. Data clock

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



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

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

Pin No.

2

3

4

5

6

7

8

9

Signal

CD

RD

SD

ER

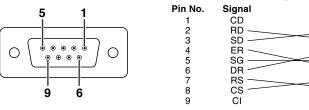
SG

DR RS

CS

CI

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



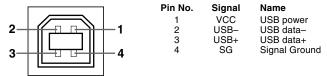
🗞 Note

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Depending on the system layout, it is necessary to connect Pin 4 and Pin 6 on the controlling device (e.g. PC).



USB Terminal: 4 pin B-type USB connector



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Component Input

- 1. P_{R} (C_R) 2. Y 3. P_{B} (C_B) 4. Not connected 5. Not connected 6. Earth (P_R) 7. Earth (Y) 8. Earth (P_B) 9. Not connected 10. Not connected
- Not connected
- 12. Not connected
- 13. Not connected
- 14. Not connected
- 15. Not connected

(RS-232C) Specifications and Command Settings

PC control

A computer can be used to control the projector by connecting an RS-232C serial control cable (cross type, sold separately) to the projector. (See page 23 for connection.)

Communication conditions

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

Basic format

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

Command format

	C1	C2	C3	C4	P1	P2	P3	P4				Ret	urn code (0DH)		
	<u> </u>	(Comm	nand 4	1-digi	t	P	/ aramet	er 4-di	igit					
Response coo	de forr	nat													
Norm	nal res	ponse	Э					Prob	lem res	sponse	e (com	nur	nication error or incorre	ct comr	nand)
	0	K	F	Returr	n cod	e (0D	PH)		E	R	R		Return code (0DH		
Info															

lnfo

- When more than one code is being sent, send each command only after the OK response code for the previous command from the projector is verified.
- In the case of transmitting commands during standby, it takes a maximum of 30 seconds until the response code is received.
- When the power is turned on during standby with the "POWER ON" command, wait for at least 30 seconds after the power has been turned on, and then transmit the next command.

Note 📎

 When using the computer control function of the projector, the projector's operating status cannot be read by the computer. Therefore, confirm the status by transmitting the display commands for each adjustment menu and checking the status with the on-screen display. If the projector receives a command other than a menu display command, it will execute the command without displaying the on-screen display.

Commands

Example:

R

When "BRIGHT" of INPUT 1 image adjustment is set to -10.

			Сс	omput	ter					Pi	rojecto	or
ł	А	В	R	_	_	1	0	Ś	$ \rightarrow $	0	Κ	4

CONTROL CONTENTS	COMMAN			ND	P/	ARAI	MET	ER	RETURN
Y I ONLITON	P	0	w	R	_	_	_	1	OK OR ERR
POWER OFF VOLUME (0 - 60)	P	0	W	R	_	[_	_	0	OK OR ERR
	V	0	L	A	_	_	*	*	OK OR ERR
MUTE ON MUTE OFF	Μ	U	т	E	_	_	_	1	OK OR ERR
	м	U	Т	E	Ľ	Ľ	L	0	OK OR ERR
KEYSTONE (-127 - +127) DIGITAL SHIFT (-96 - +96)	ĸ	E	Y	s	*	*	*	*	OK OR ERR
DIGITAL SHIFT (-96 - +96)	L	N	D	s	_	*	*	*	OK OR ERR

\mathbf{n}	CONTROL CONTENTS	С	DMI	MAN	ND	P/	\RA/	MET	ER	RETURN
7	BLACK SCREEN ON	I	М	В	K	_	_	_	1	OK OR ERR
L KEY	BLACK SCREEN OFF	I	M	B	K	_	_	_	0	OK OR ERR
CONTROL	INPUT 1	I	R	G	В	_	_	_	1	OK OR ERR
NO	INPUT 2	I	R	G	В	_	_	_	2	OK OR ERR
	INPUT 3	I	V	E	D	_	_	_	1	OK OR ERR
REMOTE	INPUT 4	I	V	E	D	_	_	_	2	OK OR ERR
~	INPUT CHECK	I	C	H	K	_	_	_	0	OK OR ERR
TONS	FREEZE ON	F	R	E	z	_	_	_	1	OK OR ERR
BUTT	FREEZE OFF	F	R	E	z	_	_	_	0	OK OR ERR
	AUTO SYNC START	A	D	J	s	_	_	_	1	OK OR ERR

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(RS-232C) Specifications and Command Settings

	CONTROL CONTENTS	C	омі	MAN	VD	P/	ARAN	NET	ER	RETURN
	INPUT 1 RESIZE : NORMAL	-	-		R				1	OK OR ERR
	INPUT 1 RESIZE : FULL	R	A	· · · ·	R		ŀ		5	OK OR ERR
	INPUT 1 RESIZE : DOT BY DOT	R	A		R		. .		3	OK OR ERR
	INPUT 1 RESIZE : STRETCH	R	A		R		. .		2	OK OR ERR
	INPUT 1 RESIZE : SMART STRETCH	R	A		R		l		4	OK OR ERR
	INPUT 2 RESIZE : NORMAL	R	B	-	R	-	-	-	1	OK OR ERR
	INPUT 2 RESIZE : FULL	R	····		R		l		5	OK OR ERR
	INPUT 2 RESIZE : DOT BY DOT	R	B		R		3	OK OR ERR
		R	ŀ	· · · ·	R				2	
Ϋ́Ε	INPUT 2 RESIZE : STRETCH		B				OK OR ERR
_ 1	INPUT 2 RESIZE : SMART STRETCH	R	B	-	R	-	-	-	4	OK OR ERR
E L	INPUT 3 RESIZE : NORMAL	R	A	S	V		1	OK OR ERR
3	INPUT 3 RESIZE : BORDER	R	A	S	V	 .	. .		3	OK OR ERR
BUTTONS & REMOTE CONTRO	INPUT 3 RESIZE : STRETCH	R	A	S	V		2	OK OR ERR
REN	INPUT 3 RESIZE : SMART STRETCH	R	A	S	۷	-	-	-	4	OK OR ERR
S &	INPUT 4 RESIZE : NORMAL	R	B	S	V	 .		. .	1	OK OR ERR
S	INPUT 4 RESIZE : BORDER	R	B	S	V	<u></u> .	. .		3	OK OR ERR
늷	INPUT 4 RESIZE : STRETCH	R	B	S	V	<u></u> .		. .	2	OK OR ERR
	INPUT 4 RESIZE : SMART STRETCH	R	В	S	۷	_	_	_	4	OK OR ERR
	RGB GAMMA : STANDARD	G	A	М	R	_	_	_	1	OK OR ERR
	RGB GAMMA : PRESENTATION	G	A	M	R	_	_	_	2	OK OR ERR
	RGB GAMMA : CINEMA	G	A	М	R	_	_	_	3	OK OR ERR
	RGB GAMMA : CUSTOM	G	A	М	R	_	_	_	4	OK OR ERR
	VIDEO GAMMA : STANDARD	G	A	м	V	_			1	OK OR ERR
	VIDEO GAMMA : PRESENTATION	G		M	V				2	OK OR ERR
	VIDEO GAMMA : CINEMA	G	····	M	v				3	OK OR ERR
	VIDEO GAMMA : CUSTOM	G	····	M	V				4	OK OR ERR
	INPUT 1 CONTRAST (-30 - +30)	R	A	P	1	-	*	*	*	OK OR ERR
	INPUT 1 BRIGHT (-30 - +30)	R	A	· · · ·	R		*	*	*	OK OR ERR
	INPUT 1 RED (-30 - +30)	R	••••		D		*	 *	*	OK OR ERR
		R	A	В	E		*	 *	*	OK OR ERR
	INPUT 1 BLUE (-30 - +30)	R	A		0		*			
	INPUT 1 COLOR (-30 - +30)	R	A	C T	I	.	*			OK OR ERR OK OR ERR
	INPUT 1 TINT (-30 - +30)									
	INPUT 1 SHARP (-30 - +30)	R	A	· · · ·	H	 .				OK OR ERR
	INPUT 1 CLR TEMP (-3 - +3)	R	A	C	T				OK OR ERR
	INPUT 1 DISPLAY	R	A	R	E	 .			0	OK OR ERR
	INPUT 1 ADJUSTMENT RESET	R	A	R	E	-	-	-	1	OK OR ERR
	INPUT 2 CONTRAST (-30 - +30)	R	B	P	1	 .	*			OK OR ERR
	INPUT 2 BRIGHT (-30 - +30)	R	B		R	 .	*	*	*	OK OR ERR
	INPUT 2 RED (-30 - +30)	R	B	R	D		*	*	*	OK OR ERR
	INPUT 2 BLUE (-30 - +30)	R		B	E	-	*	*	*	OK OR ERR
	INPUT 2 COLOR (-30 - +30)	R	B B	C	0	-	*	*	*	OK OR ERR
삝	INPUT 2 TINT (-30 - +30)	R	B	T	ï	<u> </u>	*	*	*	OK OR ERR
PICTUR	INPUT 2 SHARP (-30 - +30)	R	В	S	н	_	*	*	*	OK OR ERR
ਙ	INPUT 2 CLR TEMP (-3 - +3)	R	В	C	Т	_	_	*	*	OK OR ERR
	INPUT 2 DISPLAY	R	B	R	E	_	_	_	0	OK OR ERR
	INPUT 2 ADJUSTMENT RESET	R	B	R	E	_	_	_	1	OK OR ERR
	INPUT 1 SIGNAL TYPE : RGB	I	A	s	I	_	_	_	1	OK OR ERR
	INPUT 1 SIGNAL TYPE : COMPONENT	ï		S	ï	_		_	2	OK OR ERR
	INPUT 2 SIGNAL TYPE : RGB	I	В	s	I	_	_	_	1	OK OR ERR
	INPUT 2 SIGNAL TYPE : COMPONENT	ï	····	S	ï	_		_	2	OK OR ERR
	INPUT 1 2D PROGRESSIVE	R	A	-	Р	-	Ē	Ē	_	OK OR ERR
	INPUT 1 3D PROGRESSIVE				ŀ				1	OK OR ERR
	INPUT 1 FILM MODE	R		ï	••••		ŀ			OK OR ERR
	INPUT 2 2D PROGRESSIVE	R	B	-	Р	-	-	-	-	OK OR ERR
	INPUT 2 3D PROGRESSIVE		B				.		1	OK OR ERR
	INPUT 2 FILM MODE		B		P		<u>.</u>			OK OR ERR
		n.	0	1	r	-	-	-	_	UN UN LINI
		-		_	<u>ار ا</u>		+	٠.	+	
	INPUT 3 CONTRAST (-30 - +30)	V	····	P	····	 .	*	*	*	OK OR ERR
		V	A	· · · ·	R		*	* * *	*	OK OR ERR OK OR ERR OK OR ERR

	CONTROL CONTENTS	С	OMI	MAN	ID.	P/	ARAI	VET	FR	RETURN
	INPUT 3 BLUE (-30 - +30)	v	A				*	*	*	OK OR ERR
	INPUT 3 COLOR (-30 - +30)	v					*	*	*	OK OR ERR
		v	A	T	0	 .	*	*		
	INPUT 3 TINT (-30 - +30)	•••				 .	*	*		OK OR ERR
	INPUT 3 SHARP (-30 - +30)	V	A	0	п 	 .				OK OR ERR
	INPUT 3 CLR TEMP (-3 - +3)	V	A	5		 .				OK OR ERR
	INPUT 3 DISPLAY	V	A		• • •	 .				OK OR ERR
	INPUT 3 ADJUSTMENT RESET	۷	A	_	_	-	-	-	1	OK OR ERR
	INPUT 4 CONTRAST (-30 - +30)	V	B		1		ļ			OK OR ERR
	INPUT 4 BRIGHT (-30 - +30)	V	B		•••		*	*	*	OK OR ERR
	INPUT 4 RED (-30 - +30)	V	B		• • •	 .	*		*	OK OR ERR
JRE	INPUT 4 BLUE (-30 - +30)	V	B		• • •		*	*		OK OR ERR
ICTU	INPUT 4 COLOR (-30 - +30)	V	B			 .	*	*		OK OR ERR
•	INPUT 4 TINT (-30 - +30)	V	B	T	1	 .	*	*		OK OR ERR
	INPUT 4 SHARP (-30 - +30)	V	B	S	H		*	*	*	OK OR ERR
	INPUT 4 CLR TEMP (-3 - +3)	V	B	C	T	 .		*	*	OK OR ERR
	INPUT 4 DISPLAY	۷	B	R	E	 .	-		0	OK OR ERR
	INPUT 4 ADJUSTMENT RESET	۷	B	R	E	_	_	_	1	OK OR ERR
	INPUT 3 2D PROGRESSIVE	۷	A	I	Р	_	_	_	0	OK OR ERR
	INPUT 3 3D PROGRESSIVE	۷	A	I	Ρ	_	_	_	1	OK OR ERR
	INPUT 3 FILM MODE	V	A	I	Ρ	_	_	_	2	OK OR ERR
	INPUT 4 2D PROGRESSIVE	۷	В	I	Р	_	_	_	0	OK OR ERR
	INPUT 4 3D PROGRESSIVE	٧	В	ï	Ρ	_	_	_	1	OK OR ERR
	INPUT 4 FILM MODE	٧	В	ï	Р	_	_	_	2	OK OR ERR
	COLOR SELECTED : STANDARD	C	М	C	s	_		0	-	OK OR ERR
	COLOR SELECTED : sRGB	ŀ···	М		•••			0	1	OK OR ERR
	COLOR SELECTED : CUSTOM 1	ŀ···	М		• • •			1	1	OK OR ERR
	COLOR SELECTED : CUSTOM 2	•••	М		• • •		-			OK OR ERR
	COLOR SELECTED : CUSTOM 3	C	М	C	S			1		OK OR ERR
	TARGET : RED	-	M	-	-	-	-	ŀ	-	OK OR ERR
	TARGET : YELLOW	ŀ···	М		• • •					OK OR ERR
s.	TARGET : GREEN	ŀ···	м		• • •					OK OR ERR
.Μ.	TARGET : CYAN		м				-	-		OK OR ERR
C	TARGET : BLUE	•••			• • •					OK OR ERR
			M M							OK OR ERR
	TARGET : MAGENTA LIGHTNESS (-30 - +30)	C	M	S	-	-	*	- *	*	OK OR ERR
		•••	M		• • •	 .	*		*	
	CHROMA (-30 - +30)	ŀ···	M		• • •		*	*	*	OK OR ERR
	HUE (-30 - +30)	-		-	-	-	_	_	-	OK OR ERR
	Reset (THIS COLOR)	•••	M		• • •	. .	-	. .		OK OR ERR
_	Reset (All COLORS)	-	M	_	_	-	-	-	-	OK OR ERR
	CLOCK (-150 - +150)			C	• • •				*	OK OR ERR
	PHASE (60 - +60)		N			 .				OK OR ERR
	H-POSITION (-150 - +150)		A				*	*	*	OK OR ERR
	V-POSITION (-60 - +60)		A	V	P	 .	*		*	OK OR ERR
	RGB INPUT DISPLAY			R		 .	-			OK OR ERR
F	RGB ADJUSTMENT RESET		A			-	-	-		OK OR ERR
	SAVE SETTING (1 - 7)	M	E	M	S	-	_	_		OK OR ERR
FINE SYNC	SELECT SETTING (1 - 7)	-	E	_	_	-	_	_	*	OK OR ERR
FIN	RGB HORIZONTAL FREQUENCY CHECK	T	F	R	Q	 .	-		1	kHz (***. * OR _)
	RGB VERTICAL FREQUENCY CHECK	Т	F	R	Q	_	_	_	2	Hz (***. * OR _)
	AUTO SYNC OFF	A	A	D	J	<u></u> .	<u> </u>	<u></u>	0	OK OR ERR
	NORMAL AUTO SYNC	A	A	D	J	. <u>.</u> .	_		1	OK OR ERR
	HIGH SPEED AUTO SYNC	A	A	D	J	_	_	_	2	OK OR ERR
	AUTO SYNC DISPLAY ON	I	М	A	S		Ľ	_	1	OK OR ERR
	AUTO SYNC DISPLAY OFF	ï	М	A	S		L	_	0	OK OR ERR



FA0 VAO SPEAKER ON SPEAKER OFF PICT IN PICT : BOTTOM RIGHT PICT IN PICT : BOTTOM LEFT PICT IN PICT : UPPER RIGHT PICT IN PICT : UPPER RIGHT PICT IN PICT : UPPER LEFT PICT IN PICT OFF POWER SAVE : STANDARD POWER SAVE : LOW POWER DNR: OFF	A A A P P	0 S S	U U P	•••	 .			1	OK OR ERR
SPEAKER ON SPEAKER OFF PICT IN PICT : BOTTOM RIGHT PICT IN PICT : BOTTOM LEFT PICT IN PICT : UPPER RIGHT PICT IN PICT : UPPER LEFT PICT IN PICT OFF POWER SAVE: STANDARD POWER SAVE: LOW POWER	A A P	S	-	т	· · · ·	[]			
SPEAKER OFF PICT IN PICT : BOTTOM RIGHT PICT IN PICT : BOTTOM LEFT PICT IN PICT : UPPER RIGHT PICT IN PICT : UPPER LEFT PICT IN PICT OFF POWER SAVE: STANDARD POWER SAVE: LOW POWER	A P P	S	Р	-			_	2	OK OR ERR
PICT IN PICT : BOTTOM RIGHT PICT IN PICT : BOTTOM LEFT PICT IN PICT : UPPER RIGHT PICT IN PICT : UPPER LEFT PICT IN PICT : UPPER LEFT PICT IN PICT OFF POWER SAVE: STANDARD POWER SAVE: LOW POWER	P	+		K	_	_	_	1	OK OR ERR
PICT IN PICT : BOTTOM LEFT PICT IN PICT : UPPER RIGHT PICT IN PICT : UPPER LEFT PICT IN PICT : UPPER LEFT PICT IN PICT OFF POWER SAVE: STANDARD POWER SAVE: LOW POWER	P	1	Р	K	_	[_]	_	0	OK OR ERR
PICT IN PICT : UPPER RIGHT PICT IN PICT : UPPER LEFT PICT IN PICT OFF POWER SAVE: STANDARD POWER SAVE: LOW POWER		11	N	Р	_	_	1	1	OK OR ERR
PICT IN PICT : UPPER LEFT PICT IN PICT OFF POWER SAVE: STANDARD POWER SAVE: LOW POWER	P	1	N	P	_	_	1	2	OK OR ERR
PICT IN PICT OFF Power Save: Standard Power Save: Low Power		ï	N	P	_	_	1	3	OK OR ERR
POWER SAVE: STANDARD POWER SAVE: LOW POWER	P	ï	N	P	_	_	1	4	OK OR ERR
POWER SAVE: LOW POWER	P	1	N	P	_	_	_	0	OK OR ERR
	Т	Н	Μ	D	_	_	_	0	OK OR ERR
DNB: OFF	T	H	M	D	_	_	_	1	OK OR ERR
5111. 011	3	D	N	R	_	_	_	0	OK OR ERR
DNR: LEVEL 1	3	D	N	R	_	_	_	1	OK OR ERR
DNR: LEVEL 2	3	D	N	R	_	[_]	_	2	OK OR ERR
DNR: LEVEL 3	3	D	N	R	_	[_]	_	3	OK OR ERR
AUTO SEARCH: OFF	I	N	s	E	_	_	_	0	OK OR ERR
AUTO SEARCH: ON	ï	N	S	E	_	[_]	_	1	OK OR ERR
E OSD DISPLAY NORMAL	I	М	D	I	_	_	_	1	OK OR ERR
	I	M	D	ï	_	[_]	_	2	OK OR ERR
OSD DISPLAY LEVEL A OSD DISPLAY LEVEL B	1	M	D	I	_	[_]	_	0	OK OR ERR
BLACK SCREEN DISPLAY ON	I	М	B	0	_	_	_	1	OK OR ERR
BLACK SCREEN DISPLAY OFF	I	M	B	0	_	[_]	_	0	OK OR ERR
VIDEO SYSTEM SELECTION : AUTO	N	IE	s	Y	_	_	_	1	OK OR ERR
VIDEO SYSTEM SELECTION : PAL (50/60 Hz)	N	E	S	Y	_	_	_	2	OK OR ERR
VIDEO SYSTEM SELECTION : SECAM	N	E	S	Y	_	_	_	3	OK OR ERR
VIDEO SYSTEM SELECTION : NTSC4.43	N	E	S	Y	_	_	_	4	OK OR ERR
VIDEO SYSTEM SELECTION : NTSC3.58	N	E	S	Y	_	_	_	5	OK OR ERR
VIDEO SYSTEM SELECTION : PAL_M	N	E	S	Y	_	_	_	6	OK OR ERR
VIDEO SYSTEM SELECTION : PAL_N	N	E	S	Y	_	_	_	7	OK OR ERR
BACKGROUND SELECTION : SHARP	I	М	B	G	_			1	OK OR ERR
BACKGROUND SELECTION : CUSTOM	l	M	B	G				2	OK OR ERR
BACKGROUND SELECTION : BLUE	l	M	B	G	_			3	OK OR ERR
BACKGROUND SELECTION : NONE	I	M	B	G		_	_	4	OK OR ERR
STARTUP IMAGE SELECTION : SHARP	I	М	S	I	_			1	OK OR ERR
STARTUP IMAGE SELECTION : CUSTOM	I	M	S	I	_			2	OK OR ERR
STARTUP IMAGE SELECTION : NONE	I	M	S	I	_	_	_	3	OK OR ERR
AUTO POWER OFF : NO USE	A	P	0	w	_	_	_	0	OK OR ERR
AUTO POWER OFF : USE									

	CONTROL CONTENTS	C	OM	MAI	ID	P/	RAN	NET	ER	RETURN
	LAMP LIFE (PERCENTAGE)	т	L	т	L	_	_	_	1	0-100 (INTEGER)
				_						0:0FF, 1:0N, 2:RETRY,
	LAMP STATUS	Т	Ľ	Ρ	5	-	-	-	1	3:WAITING, 4:LAMP ERROR
(2)	PRJ MODE : REVERSE OFF	I	М	R	E	_	_	_	0	OK OR ERR
DPTIONS	PRJ MODE : REVERSE ON	ï	M	R	E	-	_	_	1	OK OR ERR
OPTI	PRJ MODE : INVERT OFF	ï	M	T	N	_	_	_	0	OK OR ERR
	PRJ MODE : INVERT ON	ï	M	T	N	-	-	_	1	OK OR ERR
	KEYLOCK LEVEL : NORMAL	K	E	Y	L	_	-	_	0	OK OR ERR
	KEYLOCK LEVEL : LEVEL A	K	E	Y	L	-	-	_	1	OK OR ERR
	KEYLOCK LEVEL : LEVEL B	K	E	Y	L	-	-	_	2	OK OR ERR
	LANGUAGE SELECTION : ENGLISH	M	E	L	A	-	-	-	1	OK OR ERR
	LANGUAGE SELECTION : DEUTSCH	M	E	L	A	-	-	_	2	OK OR ERR
	LANGUAGE SELECTION : ESPAÑOL	M	E	L	A	-	-		3	OK OR ERR
	LANGUAGE SELECTION : NEDERLANDS	M	I	L	A	-	-	-	4	OK OR ERR
ΙGE	LANGUAGE SELECTION : FRANÇAIS	M	E	L	A	-	-	_	5	OK OR ERR
ANGUAGE	LANGUAGE SELECTION : ITALIANO	M	E	L	A	-	-	-	6	OK OR ERR
LAP	LANGUAGE SELECTION : SVENSKA	M	E	L	A	-	-	-	7	OK OR ERR
	LANGUAGE SELECTION : 日本語	M	E	L	A	-	-		8	OK OR ERR
	LANGUAGE SELECTION : PORTUGUÊS	M	E	L	A	-	-	-	9	OK OR ERR
	LANGUAGE SELECTION:汉语	M	E		A	-	-	1	0	OK OR ERR
	LANGUAGE SELECTION : 한국어		E		_	-	-	1	1	OK OR ERR
	MODEL NAME CHECK	M		R		 .	-	-	1	MODEL NAME
	SERIAL NO. CHECK "2	S	N	R	D	-	-		1	SERIAL NO.
	PROJECTOR NAME SETTING 1	Р	J	N	1	*	*	*	*	OK OR ERR
	(First four characters)									
	PROJECTOR NAME SETTING 2 (Middle four characters)	Р	J	N	2	*	*	*	*	OK OR ERR
	PROJECTOR NAME SETTING 3									
	(Last four characters)	P	J	N	3	*	*	*	*	OK OR ERR
	PROJECTOR NAME CHECK	Ρ	J	N	0	_	-	_	1	PROJECTOR NAME



- If an underbar (_) appears in the parameter column, enter a space. If an asterisk (*) appears, enter a value in the range indicated in brackets under CONTROL CONTENTS.
- ^{*1} FINE SYNC can only be set in the displayed RGB mode.
- ² SERIAL NO. CHECK command is used to read out the 12 digits of serial No..

Wired Remote Control Terminal Specifications

Specifications of wired remote control input

- ø3.5 mm minijack
- External: +5 V (1 A)
- Internal: GND

Function and transmisson codes

CONTROL	S	YST	EM	COE	DE		D	٩TA	со	DE		E		RN/ DE	۸L
ITEM	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15
ON	1	0	1	1	0	0	1	1	0	1	0	1	0	1	0
OFF	1	0	1	1	0	0	1	1	0	1	0	0	1	1	0
VOLUME +	1	0	1	1	0	0	0	1	0	1	0	0	0	1	0
VOLUME -	1	0	1	1	0	1	0	1	0	1	0	0	0	1	0
MUTE	1	0	1	1	0		1	1	0	1	0	0	0	1	0
MENU	1	0	1	1	0	0	0	1	0	0	0	1	1	1	0
KEYSTONE	1	0	1	1	0	1	1	0	1	0	0	0	1	1	0
BLACK SCREEN	1	0	1	1	0	1	0	0	1	0	1	1	0	1	0
ENTER	1	0	1	1	0	1	1	1	0	1	0	1	0	1	0
RESIZE	1	0	1	1	0	0	1	1	1	1	0	1	0	1	0
UNDO	1	0	1	1	0	1	0	0	1	1	0	1	0	1	0
FREEZE	1	0	1	1	0	1	0	1	1	0	0	0	1	1	0
ENLARGE (+)	1	0	1	1	0	1	0	1	1	0	1	1	0	1	0
ENLARGE (-)	1	0	1	1	0		0	1	1	0	1	0	1	1	0

	1					_							VTE	RNA	
CONTROL	S	YST	EM	COL	ЭЕ		D	٩TA	CO	DE				DE	ιL.
ITEM	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15
AUTO SYNC	1	0	1	1	0	0	1	0	1	1	1	1	1	1	0
A	1	0	1	1	0	0	0	1	1	1	0	0	1	1	0
▼	1	0	1	1	0	1	0	1	1	1	0	0	1	1	0
•	1	0	1	1	0	0	0	0	0	1	0	1	0	1	0
•	1	0	1	1	0	1	1	1	1	0	0	1	0	1	0
GAMMA	1	0	1	1	0	0	0	0	0	0	0	1	0	1	0
PinP	1	0	1	1	0	1	1	1	1	1	1	1	1	1	0
BACK	1	0	1	1		0	1	1	1	0	1	0	1	1	0
FORWARD	1	0	1	1	0	1	1	1	1	0	1	0	1	1	0
BREAK TIMER	1	0	1	1	0	0	0	1	0	1	1	0	1	1	0
INPUT 1	1	0	1	1	0	1	0	1	0	1	1	0	0	1	0
INPUT 2	1	0	1	1		0	1	1	0	1	1	0	0	1	0
INPUT 3	1	0	1	1		0	1	0	0	1	1	0	0	1	0
INPUT 4	1	0	1	1	0	1	1	0	0	1	1	0	0	1	0

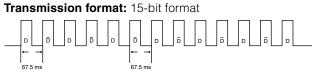
Wired remote control function code

LSB MSB

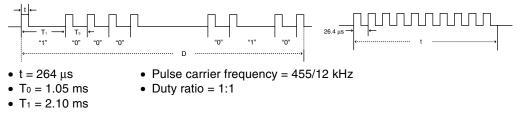
• System codes C1 to C5 are fixed at "10110".

• Codes C14 and C15 are reverse confirmation bits, with "10" indicating "Front" and "01" indicating "Rear".

Sharp remote control signal format



Wave form of output signal: Output using Pulse Position Modulation



Transmission control code

15 bit

C1	C2	СЗ	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15
	62	60	64	105		67	0	69	010	UII	612	013	614	015
	Syst	em Add	ress			Function Key Data Bit						ata nsion	Mask	Data Deter- mination
	to D C	ommon	Data B	lit						Rever	se in D			

Example of Reverse D to \overline{D}

GB-92

Computer Compatibility Chart

Computer

Multiple signal support

Horizontal Frequency: 15–126 kHz, Vertical Frequency: 43–200 Hz*, Pixel Clock: 12–230 MHz

- Compatible with sync on green and composite sync signals
- UXGA and SXGA compatible in advanced intelligent compression
- AICS (Advanced Intelligent Compression and Expansion System) resizing technology

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

PC/ MAC/ WS	Res	solution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	VESA Standard	Display
			27.0	60		
		640×350	31.5	70		
			37.9	85	~	
		700 050	27.0	60		
		720 imes 350	31.5	70		
			27.0	60		
		640 imes 400	31.5	70		
			37.9	85	~	
			27.0	60		
		720 × 400	31.5	70		
	VGA		37.9	85	~	
	VQA		26.2	50		
			31.5	60		
			34.7	70		
			37.9	72	~	
			37.5	75	~	
		640 × 480	43.3	85	~	
			47.9	90		Upscale
			53.0	100		•
			61.8	120		
			78.5	150		
			80.9	160		
			100.4	200		
PC			31.4	50		
			35.1	56	~	
			37.9 44.5	60 70	~	
			44.5	70	~	
			46.9	75	~	
	SVGA	800×600	53.7	85	~	
			56.8	90		
			64.0	100		
			77.2	120		
			98.3	150		
			102.1	160		
			125.6	200		
			35.5	43		
			40.3	50		
			48.4	60	~	
			56.5	70	V	
			58.1	72		
	XGA	1,024 × 768	60.0	75	~	True
			68.7	85	~	iiuo
			73.5	90		
			77.2	96		
			80.6	100		
			98.8	120		
			113.2	140		

PC/ MAC/ WS	Res	solution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	VESA Standard	Display
			54.3	60		
			64.0	70		
			64.1	72		
		1,152 × 864	67.5	75	~	
			75.7	80		
			77.3	85		
			90.2	100		
	SXGA		54.8	60		
		$1,152 \times 882$	65.9	72		
			67.4	74		
			64.0	60	>	
50		1 000	74.6	70		Advanced Intelligent
PC		1,280 ×	78.1	74		Compression
		1.024	80.0	75	>	
		1,024	91.1	85	~	
			108.4	100		
	SXGA⁺	1,400 ×1,050	64.0	60		
			74.7	52		
			75.0	60	~	
	UXGA	1,600	81.3	65	~	
	UXGA	×	87.5	70	~	
		1,200	90.1	72		Intelligent Compression
			93.8	75	~	Compression
			106.3	85	~	
PC/ MAC 13"	VGA	640×480	34.9	67		Upscale
PC/	XGA	1,024 × 768	48.4	60	~	True
MAC 19"	лан	1,024 × 700	60.0	75	~	True
PC/ MAC 21"	SXGA	1,280×1,024	80.0	75	~	Advanced Intelligent Compression
MAC	01/04	800 × 600	46.8	75		
16"	SVGA	832 × 624	49.6	75		Upscale
	SXGA	1,152 × 870	68.5	75		
HP (WS)		1,280×1,024	78.1	72		
PC (WS)			60.0	60	~	Antonio and
ŴS		1,280 × 960	85.9	85		Advanced Intelligent
	SXGA	1 000 1 001	53.5	50		Compression
SGI (WS)		1,280×1,024	76.8	72		
o			60.9	66		
SUN (WS)		1,152 × 900	71.9	76		
			/1.3	1 70		

* Temporary noise may be visible with vertical frequencies above 100Hz if OSD functions are activated.

🗞 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 receiving 1,600 × 1,200 VESA format signals, sampling occurs and part of the image may be cut as the image is displayed in 1,024 lines.

DTV

Signal	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
480I	15.7	60
480P	31.5	60
540P	33.8	60
580I	15.6	50
580P	31.3	50
720P	45.0	60
1035I	33.8	60
1080I	33.8	60
1080I	28.1	50

Troubleshooting

Problem	Check	Page
	Projector power cord is not plugged into the wall outlet.	17
	Power to the external connected devices is off.	_
2	The selected input mode is wrong.	35
	Cables incorrectly connected to rear panel of the projector.	18
	Remote control batteries have run out.	13
No picture and no sound	• External output has not been set when connecting notebook computer.	18
or projector does not start.	The cover of the lamp unit is not installed correctly.	87
	• Cables incorrectly connected to the rear panel of the projector.	18
Sound is heard but no	 "Bright" is set to minimum position. 	46
picture appears.	Picture adjustments are incorrectly set.	46
	 (Video Input only) Video input system is incorrectly set. (INPUT 1 and 2 only) 	66
Color is faded or poor.	 Input signal type (RGB/Component) is incorrectly set. 	46
	Adjust the focus.	28
	• The projection distance exceeds the focus range.	29
Picture is blurred; noise appears.	 (Computer Input only) Perform "Fine Sync" Adjustments ("Clock" Adjustment) Perform "Fine Sync" Adjustments ("Phase" Adjustment) Noise will appear depending on the computer. 	48 48
	• The "DNR" (Digital Noise Reduction) setting is not correct.	65
	Cables incorrectly connected to rear panel of projector.	18
Picture appears but no sound is heard.	 Volume is set to minimum. The MUTE display appears. 	35 36
An unusual sound is occasionally heard from the cabinet.	 If the picture is normal, the sound is due to cabinet shrinkage caused by a room temperature changes. This will not affect operation or performance. 	
Maintenance indicator illuminates.	See "Maintenance Indicators".	83
Image cannot be captured.	• The signal in INPUT 1 or 2 is not an RGB XGA (1024 × 768) signal. Images cannot be captured if the signals are different from the above.	67

Troubleshooting

Problem	Check	Page
Pict in Pict does not work.	 The signal in INPUT 1 or 2 is set to a resolution that exceeds SXGA. The signal in INPUT 1 or 2 is sending Component signals 480I, 480P, 540P, 580I, 580P, 720P, 1035I or 1080I. The signal in INPUT 1 or 2 is set to interlace mode using RGB signals. 	57
Power cannot be turned on or off using the power buttons on the projector.	 The Keylock level is set. If the Keylock level is set to Level B, all the buttons are locked. If the Keylock level is set to Level A, only the INPUT, VOLUME and MUTE buttons are functional. 	71
Picture is green on INPUT 1 or 2 COMPONENT.	 Change the input signal type setting. 	46
Picture is pink (no green) on INPUT 1 or 2 RGB.		
Picture is dark.	 The lamp replacement indicator is blinking in red. Replace the lamp. 	83
Picture is too bright and whitish.	 Picture adjustments are incorrectly set. 	46
The VOLUME buttons on the projector do not work.	The VOLUME buttons do not work when: (try the VOL+/- on the remote control) • when the menu is displayed • when the lens menu is displayed • when Pict in Pict is working • during Enlarge (More than double size) • a dot by dot screen resolution larger the panel resolution	
A response code cannot be received when the projector was attempted to be controlled using RS-232C commands from a computer during standby.	• In the case of transmitting RS-232C commands from a computer during standby, it takes a maximum of 30 seconds for the computer to receive the response code. Set the response code waiting time of the computer to 30 seconds or more.	89

For SHARP Assistance

If you encounter any problems during setup or operation of this projector, first refer to the "Troubleshooting" section on pages 94 and 95. 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.sharplcd.com	Austria	Sharp Electronics Austria (Ges.m.b.H.) 0043 1 727 19 123 pogats@sea.sharp-eu.com http://www.sharp.at
Canada	Sharp Electronics of Canada Ltd. (905) 568-7140 http://www.sharp.ca	Australia	Sharp Corporation of Australia Pty. Ltd. 1300-135-022
Mexico	Sharp Electronics Corporation Mexico Branch		http://www.sharp.net.au
	(525) 716-9000 http://www.sharp.com.mx	New Zealand	Sharp Corporation of New Zealand (09) 634-2059, (09) 636-6972 http://www.sharpnz.co.nz
Latin America	Sharp Electronics Corp. Latin American Group (305) 264-2277	Singapore	Sharp-Roxy Sales (S) Pte. Ltd. 65-226-6556
	www.servicio@sharpsec.com http://www.siempresharp.com		ckng@srs.global.sharp.co.jp http://www.sharp.com.sg
Germany	Sharp Electronics (Europe) GMBH 01805-234675	Hong Kong	Sharp-Roxy (HK) Ltd. (852) 2410-2623
	http://www.sharp.de		dcmktg@srh.global.sharp.co.jp http://www.sharp.com.hk
U.K.	Sharp Electronics (U.K.) Ltd. 0161-205-2333 custinfo@sharp-uk.co.uk http://www.sharp.co.uk	Malaysia	Sharp-Roxy Sales & Service Co. (60) 3-5125678
Italy	Sharp Electronics (Italy) S.P.A.	U.A.E.	Sharp Middle East Fze 971-4-81-5311 hala daalo garaf alabal abam aa in
	(39) 02-89595-1 http://www.sharp.it		helpdesk@smef.global.sharp.co.jp
France	Sharp Electronics France 01 49 90 35 40 hotlineced@sef.sharp-eu.com	Thailand	Sharp Thebnakorn Co. Ltd. 02-236-0170 svc@stcl.global.sharp.co.jp http://www.sharp-th.com
	http://www.sharp.fr	Kausa	
Spain	Sharp Electronica Espana, S.A. 93 5819700 sharplcd@sees.sharp-eu.com http://www.sharp.es	Korea	Sharp Electronics Incorporated of Korea (82) 2-3660-2002 webmaster@sharp-korea.co.kr http://www.sharp-korea.co.kr
Switzerland	Sharp Electronics (Schweiz) AG 0041 1 846 63 11 cattaneo@sez.sharp-eu.com http://www.sharp.ch	India	Sharp Business Systems (India) Limited (91) 11- 6431313 service@sharp-oa.com
Sweden	Sharp Electronics (Nordic) AB (46) 8 6343600 vision.support@sen.sharp-eu.com http://www.sharp.se		

Specifications

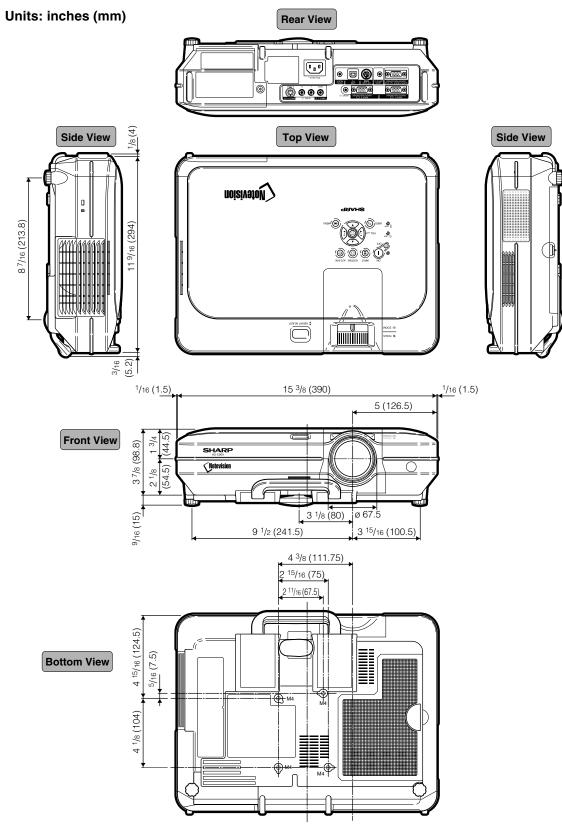
Product type	LCD Projector
	XG-C50X
	NTSC 3.58/NTSC 4.43/PAL/PAL-M/PAL-N/PAL 60/SECAM/ DTV480I/DTV480P/DTV540P/DTV580I/DTV580P/DTV720P/DTV1035I/DTV1080I
Display method	LCD panel × 3, RGB optical shutter method
	Panel size: 0.99" (25.1 mm) (15 [H] × 20 [W] mm)
·	No. of dots: 786,432 dots (1,024 [H] × 768 [V])
	1–1.27 × zoom lens, F1.7–2.2, f = 36.5–46.3 mm
	AC 250 W lamp
	15-pin mini D-sub connector
(INPUT I/2)	Y: 1.0 Vp-p, sync negative, 75 Ω terminated
	P_B : 0.7 Vp-p, 75 Ω terminated P_B : 0.7 Vp-p, 75 Ω terminated
Horizontal resolution	750 TV lines (DTV720P)
	15-pin mini D-sub connector
(INPUT 1/2)	RGB separate/sync on green type analog input: 0–0.7 Vp-p, positive, 75 Ω terminated
	HORIZONTAL SYNC. SIGNAL: TTL level (positive/negative) VERTICAL SYNC. SIGNAL: Same as above
Video input signal	RCA connector: VIDEO, composite video, 1.0 Vp-p, sync negative, 75 Ω
	terminated
	4-pin Mini DIN connector
	Y (luminance signal): 1.0 Vp-p, sync negative, 75 Ω terminated
	C (chrominance signal): Burst 0.286 Vp-p, 75 Ω terminated
Computer control signal (RS-232C)	
	12–230 MHz
Vertical frequency Horizontal frequency	
	ø3.5 mm minijack: AUDIO, 0.5 Vrms, more than 47 k Ω (stereo)
	3.0 W (monaural)
Speaker system	$4 \text{ cm} \times 7 \text{ cm}$
	AC 100–240 V
Input current	
Rated frequency	
	340 W (Standard mode)/290 W (Low power mode) About 0.8 W (When "Mntr.out/RS232" is set to "OFF")
	1,280 BTU/hour
	41°F to 104°F (+5°C to +40°C)
	-4°F to 140°F (-20°C to +60°Ć)
Cabinet	
I/R carrier frequency	
Dimensions (approx.)	$15 \frac{3}{8} \times 3 \frac{7}{6} \times 11 \frac{9}{6} (390 \text{ (W)} \times 99.0 \text{ (H)} \times 294 \text{ (D) mm}) \text{ (main body only)}$
	15 $\frac{1}{2}$ " × 4 $\frac{7}{6}$ " × 11 5%" (393 (W) × 114.0 (H) × 303.2 (D) mm) (including adjustment foot and projecting parts)
Weight (approx.)	11.3 lbs. (5.1 kg)
	Remote control, Two R-6 batteries, Power cord for U.S., Canada etc. (11'10", 3.6 m), Power
	cord for Europe, except U.K. (6', 1.8 m), Power cord for U.K., Hong Kong and Singapore (6',
	1.8 m), Power cord for Australia, New Zealand and Oceania (6', 1.8 m), RGB cable (9'10", 3
	m), USB cable (9'10", 3 m), Computer audio cable (9'10", 3 m), DIN-D-sub RS-232C adap-
	tor (6 ⁴⁵ / ₆₄ ", 15 cm), Extra air filter, Lens cap (attached), Projector manual and technical
	reference CD-ROM, Sharp Advanced Presentation Software CD-ROM, Operation manual, Quick reference label
Replacement parts	Lamp unit (Lamp/cage module) (BQC-XGC50X//1), Remote control (RRMCGA029WJSA),
riopiacomont parto	Two R-6 batteries ("AA" size, UM/SUM-3, HP-7, or similar), Power cord for U.S., Canada etc.
	(QACCDA010WJPZ), Power cord for Europe, except U.K. (QACCV4002CEZZ), Power cord
	for U.K., Hong Kong and Singapore (QACCBA012WJPZ), Power cord for Australia, New
	Zealand and Oceania (QACCL3022CEZZ), RGB cable (QCNWGA012WJPZ), USB cable
	(QCNWGA014WJPZ), Computer audio cable (QCNWGA013WJPZ), DIN-D-sub RS-232C adaptor (QCNWGA015WJPZ), Air filter (PFILDA005WJZZ), Lens cap (PCAPHA003WJSA),
	Projector manual and technical reference CD-ROM (UDSKAA007WJZZ), Sharp Advanced
	Presentation Software CD-ROM (UDSKAA005WJN1), Operation manual (TINS-A163WJZZ),
	Quick reference label
	the with we direct for some size of an address (OOD for all and a size of the for

* Temporary noise may be visible with vertical frequencies above 100Hz if OSD functions are activated.

This SHARP projector uses a LCD (Liquid Crystal Display) panel. This very sophisticated panel contains 786,432 pixels (\times RGB) TFTs (Thin Film Transistors). As with any high technology electronic equipment such as large screen TVs, video systems and video cameras, there are certain accept-

able 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. Appendix







Advanced intelligent compression

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

Anti-theft

If the "Keycode" set in the projector is not correctly entered, the projector will not operate even if signals are entered.

Aspect Ratio

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

Auto Sync

Optimizes projected computer images by automatically adjusting certain characteristics.

Background

Initial setting image projected when no signal is being output.

Border

Projects a 4:3 image fully within a 16:9 screen by keeping the aspect ratio at 4:3.

Clock

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

CLR Temp (Color temperature)

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

C.M.S. (Color Management System)

Function allows you individually adjust the display characteristics of six colors (R: Red, Y: Yellow, G: Green, C: Cyan, B: Blue, M: Magenta)

Digital Shift Setting

Shifts image up or down easily by \blacktriangle , \checkmark buttons when RESIZE mode of input image is BORDER, STRETCH or SMART STRETCH of the video or the DTV signals.

Dot by dot

Mode that projects images in their native resolution.

Gamma

Image quality enhancement function that offers a richer image by brightening the darker portions of the image without altering the brightness of the brighter portions. You can select four different modes: STANDARD, PRESENTATION, CINEMA and CUSTOM.

Keylock Level

Mode that can lock the operation of projector buttons to prevent mischief.

Keystone correction

Function to digitally correct a distorted image when the projector is set up at an angle, smoothens out jaggies on keystone images and compresses the image not only horizontally but vertically keeping the 4:3 aspect ratio.

Notevision Lock Down

A new ceiling mounting mechanism that is effective in anti-theft and realizing improved installation strength.

Password

A password is set so that changes cannot be made in the settings of the "Options (2)" menu.

Phase

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

Picture in Picture

Allows you to add video images onto a data screen image, providing you with even more effective presentations.

Progressive Mode

The progressive display projects a smoother video image. You can select three different modes: 2D Progressive, 3D Progressive and Film Mode.

Resize

Allows you to modify or customize the picture display mode to enhance the input image. You can select six different modes: NORMAL, FULL, DOT BY DOT, BORDER, STRETCH and SMART STRETCH.

Smart Stretch

Projects the image fully in a 16:9 screen by enlarging only the surrounding areas while keeping the aspect ratio in the middle part of the image at 4:3.

sRGB

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 color changes according to LCD features, so that the images are displayed in a natural tint based on an original image, when switching to the "sRGB" mode.

Stretch

Mode that stretches the 4:3 image horizontally to display it fully on a 16:9 screen.

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Pure Glare

SHARP CORPORATION

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