

This user manual is provided as a free service by FixYourDLP.com. FixYourDLP is in no way responsible for the content of this manual, nor do we guarantee its accuracy. FixYourDLP does not make any claim of copyright and all copyrights remain the property of their respective owners.

About FixYourDLP.com

FixYourDLP.com (http://www.fixyourdlp.com) is the World's #1 resource for media product news, reviews, do-it-yourself guides, and manuals.

Informational Blog: http://www.fixyourdlp.com Video Guides: http://www.fixyourdlp.com/guides User Forums: http://www.fixyourdlp.com/forum

FixYourDLP's Fight Against Counterfeit Lamps: http://www.fixyourdlp.com/counterfeits

Sponsors:

RecycleYourLamp.org – Free lamp recycling services for used lamps: http://www.recycleyourlamp.org

Lamp Research - The trusted 3rd party lamp research company: http://www.lampresearch.com

Discount-Merchant.com – The worlds largest lamp distributor: http://www.discount-merchant.com





OPERATION MANUAL MODEL

XG-C50X



LCD PROJECTOR



iscount-Merchant.

PROJECTOR LAMPS AND ACCESSORIES

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, 중국어(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.



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

Introduction **ENGLISH**

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

This is to assure that you immediately receive the full benefit of the parts, service and labor warranty applicable to your purchase.

2. CONSUMER PRODUCT SAFETY ACT

To ensure that you will promptly receive any safety notification of inspection, modification, or recall that SHARP may be required to give under the 1972 Consumer Product Safety Act, PLEASE READ CAREFULLY THE IMPORTANT "LIMITED WARRANTY" CLAUSE. U.S.A. ONLY

[쿄※▷]

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.



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



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

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

INFORMATION

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

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

his 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.

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.

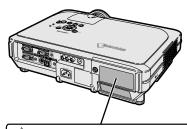
DURING NORMAL OPERATION, NEVER TURN THE PROJECTOR OFF BY DISCONNECTING THE POWER CORD. FAILURE TO OBSERVE THIS WILL RESULT IN PREMATURE LAMP FAILURE.

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.

Caution Concerning the Lamp Replacement

See "Replacing the Lamp" on page 85.



LAMP REPLACEMENT CAUTION

EFORE REMOVING THE SCREW, DISCONNECT POWER CORD.
HOT SURFACE INSIDE. ALLOW 1 HOUR TO COOL BEFORE REPLACING THE LAMP.
REPLACE WITH SAME SHARP LAMP UNIT TYPE BQC-XGC50X/1 ONLY.
UV RADIATION: CAN CAUSE EYE DAMAGE. TURN OFF LAMP BEFORE SERVICING.
MEDIUM PRESSURE LAMP: RISK OF EXPLOSION. POTENTIAL HAZARD OF GLASS
PARTICLES IF LAMP HAS RUPTURED. HANDLE WITH CARE. SEE OPERATION MANUAL.

PRECAUTIONS A OBSERVER LORS DU REMPLACEMENT DE LA LAMPE.

DEBRANCHER LE CORDON D'ALIMENTATION AVANT DE RETIRER LES VIS.
L'INTERIEUR DU BOITIER ETANT EXTREMEMENT CHAUD, ATTENDRE 1 HEURE
AVANT DE PROCEDER AU REMPLACEMENT DE LA LAMPE.
NE REMPLACER QUE PAR UNE LAMPE SHARP DE TYPE BOC-XGC50X/1.
RAYONS ULTRAVIOLETS: PEUVENT ENDOMMAGER LES YEUX.
ETEINDRE LA LAMPE AVANT DE PROCEDER A L'ENTRETIEN.
LAMPE A MOYENNE PRESSION: RISQUE D'EXPLOSION. DANGER POTENTIEL
DE PARTICULES DE VERRE EN CAS D'ECLATEMENT DE LA LAMPE.
A MANIPULER AVEC PRECAUTION, SE REPORTER AU MODE D'EMPLOI.



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.

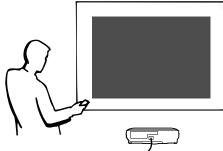
Enables individual settings of lightness, chromatic value and hue for six target colors.

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

ixYourDLPTMs 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 is the projector can be more rigidly installed than in the past, it is effective both for preventing theft and in terms of safety.

Contents

Introduction	Adjusting the Picture	
	- Adjusting Image Preferences	
Outstanding Features 3		
Contents4	9	
IMPORTANT SAFEGUARDS 6	, , , , ,	
How to Access the PDF Operation Manuals	When Auto Sync is OFF	
(Windows, Macintosh)9		
Part Names 10		
Projector (Front and Top View)10		
Projector (Rear View)		
Remote Control (Front View)		
Remote Control (Top View)		50
Using the Remote Control 13		
Available Range of the Remote Control 13	Easy to Use Functions	
Inserting the Batteries13		
Accessories 14	Selecting the Picture Display Mode	
	Displaying a Still Image	
Connections and Setup	Enlarging a Specific Portion of an Image	
Connections and Cetap	Gamma Correction Function	
Connecting the Projector to Other Devices 16	Displaying Dual Pictures (Pict in Pict)	57
Before Connecting	Black Screen Function	58
This projector can be connected to:16	Displaying the Break Timer	59
Connecting the Power Cord	Color Management System (C. M. S.)	60
Connecting the Projector to a Computer 18		
Connecting to Video Equipment	Selecting the Target Color	
Connecting to an Amplifier	Setting the Brightness of the Target Color	
Controlling the Projector by a Computer 23	Setting the Chromatic Value of the Target Color	
Connecting to a Monitor24	Setting the Hue of the Target Color	
Using the Wireless Presentation Function of the	Resetting User-Defined Color Settings	
Remote Control	Overview of 7 th Color Cettings	62
Using as a Wired Remote Control	Setting the Audio Output Type	63
Setup 27	Setting on/off the Internal Speaker	
Using the Adjustment Feet	Auto Search Function	
Adjusting the Lens	Video Digital Noise Reduction	
Setting up the Screen29	(DNR) System	65
Screen Size and Projection Distance30	Setting On-screen Display	
Projecting a Reversed/Inverted Image		
	Setting the Video System	
Basic Operation	Saving Projected Images	
	Capturing the Image	
Setting with the Buttons	Deleting the Captured Image	
mage Projection34	Setting a Background Image	
Basic Procedure34	Selecting a Startup Image	
Selecting the On-screen Display Language36	Colocting the Economy Mede	69
Correcting Trapezoidal Distortion	Setting the Power Save Mode	69
Ur (Keystone Correction)	Monitor Out/RS-232C Off Function	
	Automatic Power Oil Function	70
Setting with the Menus	Displaying the Remaining Lamp Life	
Menu Bar Items		
Menu Selections (Adjustments)	JE Locking the Operation Buttons ACCESS on the Projector	9 RIES
	Setting up the Keylock	71

Canceling the Reylock Setting	. 12
Selecting the Transmission Speed	
(RS-232C)	
Setting up a Password	73
Entering the Password	
Changing the Password	
If You Forget Your Password	
Setting the Anti-Theft	
Entering the Keycode	
Changing the Keycode	
Initializing the Settings	
Displaying the Adjustment Settings	78
Appendix	
Maintenance	
Replacing the Air Filter	81
Maintenance Indicators	83
Regarding the Lamp	85
Lamp	85
Caution Concerning the Lamp	. 85
Replacing the Lamp	
Removing and Installing the Lamp Unit	
Resetting the Lamp Timer	
Connecting Pin Assignments	88
(RS-232C) Specifications and	
Command Settings	89
Wired Remote Control Terminal	
Specifications	92
Computer Compatibility Chart	
Troubleshooting	
For SHARP Assistance	
Specifications	
Dimensions	
Glossary	99
Index	001



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.

case or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

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

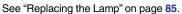
- You have acquired a product that includes software licensed to SHARP Corporation by Lineo, Inc. ("Lineo"). The Software is protected by copyright laws, international copyright treaties, and other intellectual property laws and treaties. Lineo and its suppliers retain all ownership of, and intellectual 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.
- Adobe Acrobat is a trademark of Adobe Systems Incorporated.
- Macintosh is a registered trademark of Apple Computer, Inc. in the United States and/or other countries.
- 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 compa-

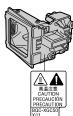
ixYourDleP.com

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.





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 "" 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.



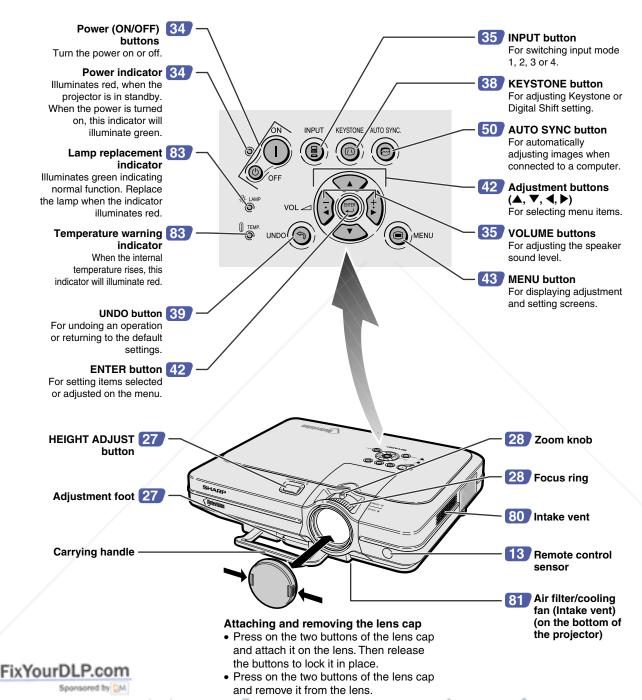
- If the desired pdf file cannot be opened by double clicking the mouse, start Acrobat Reader first, then specify the desired file using the "File", "Open" menu.
- See the "readme.txt" file on the CD-ROM for important information not included in this operation manual.



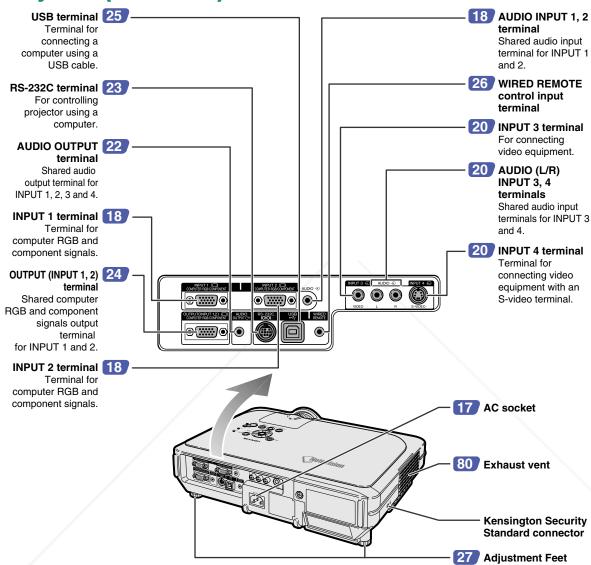
Part Names

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

Projector (Front and Top View)

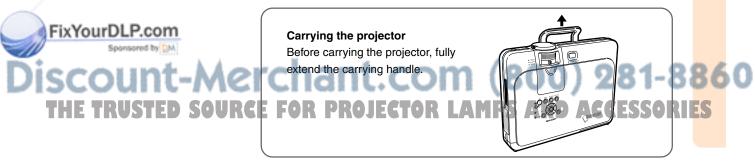


Projector (Rear View)



Using the Kensington Lock

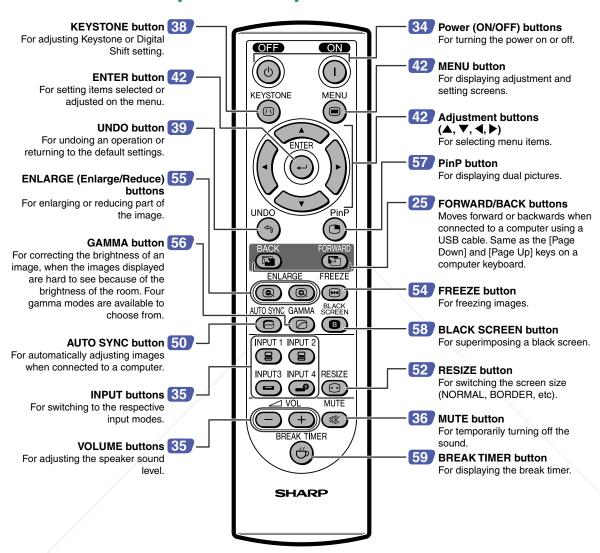
• This projector has a Kensington Security Standard connector for use with a Kensington MicroSaver Security System. Refer to the information that came with the system for instructions on how to use it to secure the projector.



Part Names

Remote Control (Front View)

Remote Control (Top View)





26 WIRED R/C JACK

For controlling the projector by

Using the Remote Control

Available Range of the Remote Control

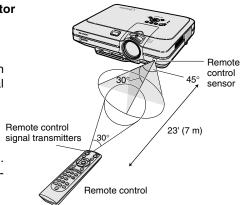
■ The remote control can be used to control the projector within the ranges shown in the illustration.



• 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:

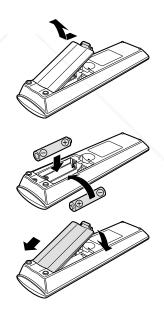
- Be sure not to drop, expose to moisture or high temperature.
- The remote control may malfunction under a fluorescent lamp.
 Under that circumstance, move the projector away from the fluorescent lamp.



Inserting the Batteries

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

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



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

∕!∖ Caution

- Insert the batteries making sure the polarities correctly match the ⊕ and ⊝ marks inside the battery compartment.
- Batteries of different types have different properties, therefore do not mix batteries of different types.
- Do not mix new and old batteries.
- This may shorten the life of new batteries or may cause old batteries to leak.
- Remove the batteries from the remote control once they have run out, as leaving them 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.



Accessories

Supplied accessories

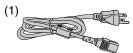


Remote control RRMCGA029WJSA



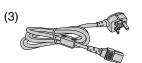
Two R-6 batteries ("AA" size, UM/SUM-3, HP-7 or similar)

Power cord











For U.S., Canada, etc. (11'10" (3.6m)) QACCDA010WJPZ

(6' (1.8m)) QACCV4002CEZZ

For Europe, except U.K. For U.K., Hong Kong and Singapore (6' (1.8m)) QACCBA012WJPZ

For Australia, New Zealand and Oceania (6' (1.8m)) QACCL3022CEZZ



• Depending on the region, projectors are shipped only one power cord (see above). Use the power cord that corresponds to the wall outlet in your country.









RGB cable (9'10" (3m)) QCNWGA012WJPZ

USB cable (9'10" (3 m)) QCNWGA014WJPZ

Computer audio cable (ø3.5 mm stereo minijack cable) adaptor (6 45/64" (15 cm)) (9'10" (3 m)) QCNWGA013WJPZ

DIN-D-sub RS-232C QCNWGA015WJPZ



Lens cap (attached) PCAPHA003WJSA



Extra air filter PFILDA005WJZZ

Projector manual and technical reference CD-ROM UDSKAA007WJZZ

Sharp Advanced Presentation Software CD-ROM UDSKAA005WJN1

Operation manual (this manual) Quick reference label

Optional cables

3 RCA to 15-pin D-sub cable (9'10" (3.0 m)) Computer RGB cable (32'10" (10.0 m))

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

5 BNC to 15-pin D-sub cable (9'10" (3.0 m)) RS-232C serial control cable (32'10" (10.0m))

AN-C10RS



ixYourDLP.com

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

Connections and Setup



Connecting the Projector to Other Devices

Before Connecting

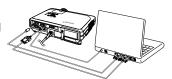


- Before connecting, be sure to turn off both the projector and the devices to be connected. After making all connections, turn on the projector and then the other devices.
- When connecting a computer, be sure that it is the last device to be turned on after all the connections are made
- Be sure to read the operation manuals of the devices to be connected before making connections.

This projector can be connected to:

A computer using:

- An RGB cable and a computer audio cable (See page 18.)
- A DIN-D-sub RS-232C adaptor and an RS-232C serial control cable (AN-C10RS) (sold separately) (See page 23.)



Component video or audio-visual equipment:

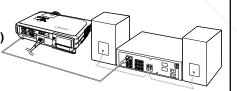
- A VCR, Laser disc player or other audio-visual equipment (See page 20.)
- A DVD player or DTV* decoder (See page 21.)

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



An amplifier or audio components using:

■ An audio cable (commercially available) (See page 22.)



A monitor using:

- An RGB cable (See page 24.)
- A computer RGB cable (AN-C10BM, AN-C10MC or AN-C10PC) (sold separately) (See page 24.)



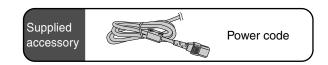


scount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

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

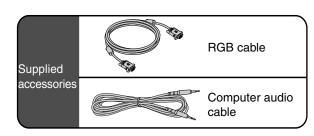
Connecting the Projector to a Computer

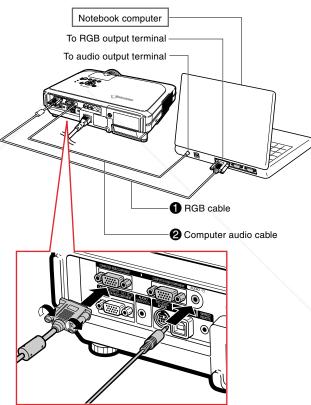
Connecting to a Computer Using the RGB Cable

- 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.



- 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.

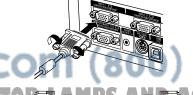




Connecting the thumbscrew cables

Connect the thumbscrew cable making sure that it is to be a 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



281-8860

Ferrite core

"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 guick and easy setup.
- Before using the "Plug and Play" function, be sure to turn on the projector first and the connected computer last.



• 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

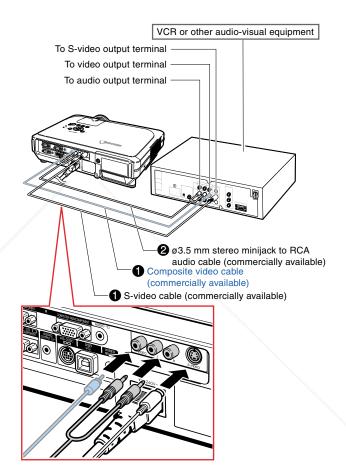
Connecting to Video Equipment Using an S-video, a Composite Video or an Audio Cable

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 S-video 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).



- 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.





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).



- 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.

Optional cable

3RCA to 15-pin D-sub cable Type: AN-C3CP (9'10" (3.0 m))

To analog component output terminal

To audio output terminal

DVD player or DTV* decoder

3 RCA to 15-pin
D-sub cable (sold separately)

Ø 3.5 mm stereo minijack to RCA audio cable (commercially available)



Connecting the Projector to Other Devices

Connecting to an Amplifier

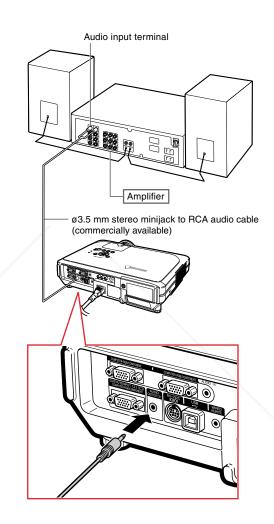
Connecting to an Amplifier or Other Audio Components

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).



- 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.





Controlling the Projector by a Computer

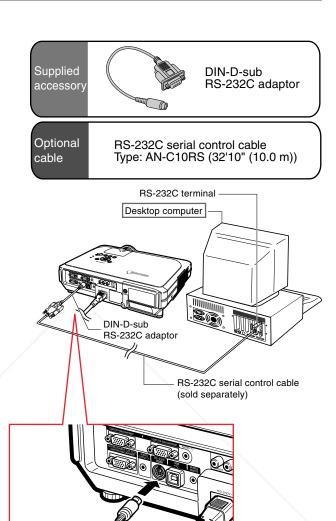
Connecting to a Computer Using a DIND-sub RS-232C Adaptor and an RS-232C Serial Control Cable

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.



- 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

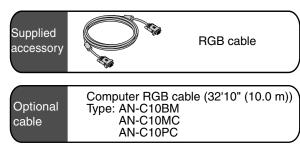
Watching Images on Both the Projector and a Monitor

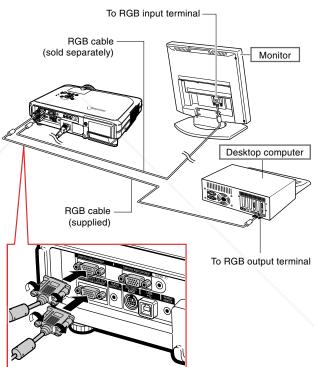
You can display computer images on both the projector and a separate monitor using two sets of an RGB cable. An RGB cable is supplied with this projector. You need to buy another RGB cable for connecting the projector to a monitor.

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



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







Using the Wireless Presentation Function of the Remote Control

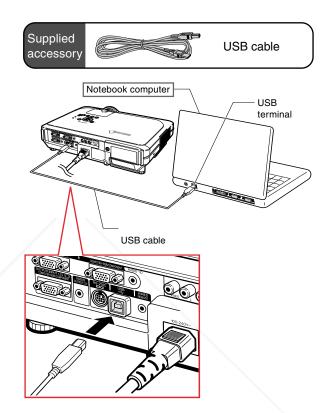
The Wireless Presentation function on the projector works the same as the [Page Up] and [Page Down] keys on a computer keyboard. It can also be used to move forward or backward when viewing images of presentation software such as PowerPoint™.

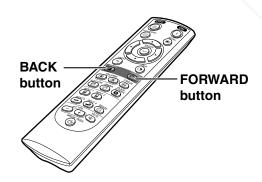
Using the Wireless Presentation Function

1 Connect the projector to the computer using the supplied USB cable.



- This function only works with the Microsoft Windows OS and Mac OS. However, this function does not work with the following operation systems that do not support USB.
- Versions earlier than Windows 95.
- Versions earlier than Windows NT4.0.
- Versions earlier than Mac OS 8.5.
- Press or while using presentation software on your computer.
 - Press to move the page up.
 - Press Press to move the page down.





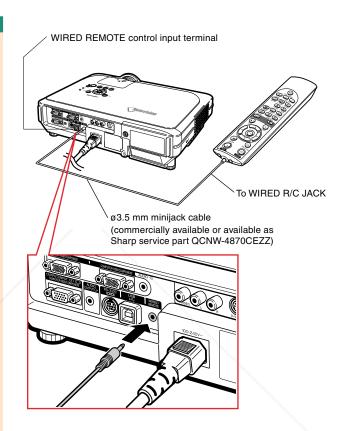


Connecting the Projector to Other Devices

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 REMOTE control input terminal.





Setup

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.

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

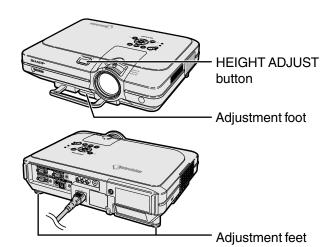


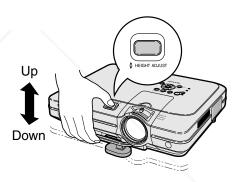
- When returning the projector to its original position, hold the projector firmly, press HEIGHT ADJUST and then gently lower it.
- The projector is adjustable up to approximately 12 degrees on the front and 3 degrees on the back from the standard position.

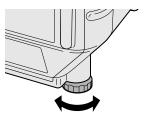


- Do not press **HEIGHT ADJUST** when the adjustment foot is extended without firmly holding the projector.
- Do not hold the lens when lifting or lowering the projector.

not to get your finger caught in the area between the adjustment foot and the projector.









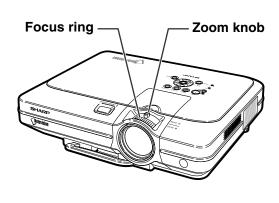


Adjusting the Lens

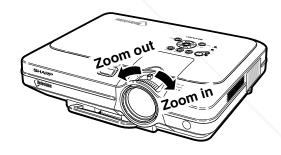
The image is focused and adjusted to the desired size using the focus ring or zoom knob on the projector.

The focus is adjusted by rotating the focus ring.

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.

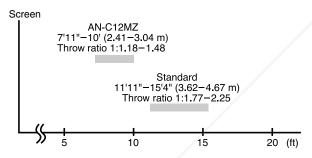


- The projector lens should be centered in the middle of the screen. If the horizontal line passing through the lens center is not perpendicular to the screen, the image will be distorted, making viewing difficult.
- For optimal image, position the screen so that it is not in direct sunlight or room 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.)

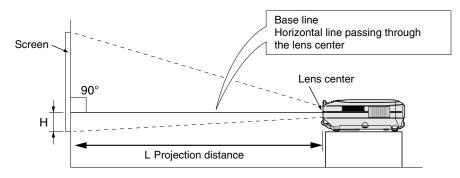


Example of Standard Setup Side View Audience

- The distance from the screen to the projector may vary depending on the size of the screen.
 - P.30
- The default setting can be used, when placing the projector in front of the screen. If the projected image is reversed or inverted, readjust the setting to "Front" in "PRJ Mode". P.71
- Place the projector so that an imaginary horizontal line that passes through the center of the lens is perpendicular to the screen.



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	Maxi	Maximum (L1) Minimum (L2) to the bottom of the		Minimum (L2)		f 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) / 0.3048 L2 (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	ture (Screen)	e (Screen) size Projection distance (L) Distance from the lens cente			Projection distance (L)				
Diag. (X)	Width	Height	Maximum (L1) Minimum (L2) to the bottom of the image		` ′				
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)	11'11"	(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)	10'11"	(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

Discount-Merchant.com (800) 281-8860

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

FixYo

AN-C12MZ Throw ratio 1:1.18 to 1.48

NORMAL Mode (4:3)

Pict	Picture (Screen) size Projection distance (L) Distance from the lens ce			Projection distance (L)			he lens center				
Diag. (X)	Width	Height	Maxir	num (L1)	М	Minimum (L2)		to tl	to the bottom 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' 1	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
- H: Distance from the lens center the bottom of the image (in)

STRETCH Mode (16:9)

Pictu	re (Screen) s	size	Projection distance (L)						ance from the lens center
Diag. (X)	Width	Height	2 Columbia non incident		` ,		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



- 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

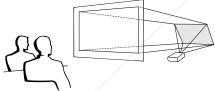
Projection from behind the screen

- 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.





 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.

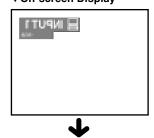
Before mounting the projector, contact your nearest Sharp Authorized Projector Dealer or Service Center to obtain the recommended ceiling-mount bracket (sold separately.) (ANXGCM55 ceiling-mount bracket, its AN-EP101B extension tube and AN-JT200 universal bracket, adaptor for non-level ceiling installation (for U.S.A.), BB-M20T ceiling adaptor, its BB-NVHOLDER280, BB-NVHOLDER550, BB-NVHOLDER900 ceiling mount systems (for GERMANY), or AN-60KT ceiling-mount 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

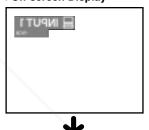
of this function.

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



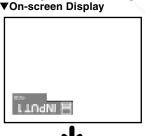
The image is reversed.

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



The image is reversed.

When using the default setting.



The image is inverted.

m (800) 281-8860 LAMPS AND ACCESSORIES

Basic Operation

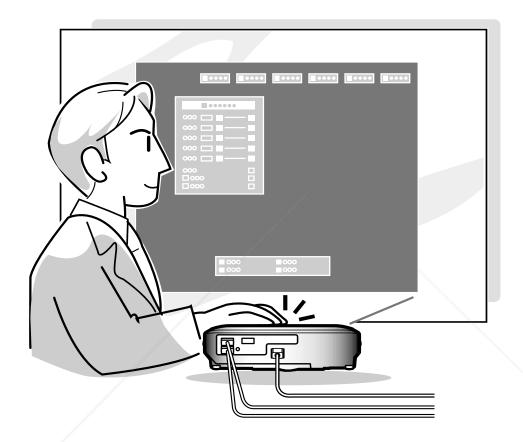


Image Projection

Basic Procedure

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



• 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.

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.



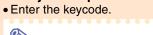
• The lamp replacement indicator illuminates, indicating the status of the

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.

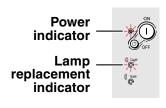
When "Anti-Theft" (see page 75) is set, the keycode input box will appear.

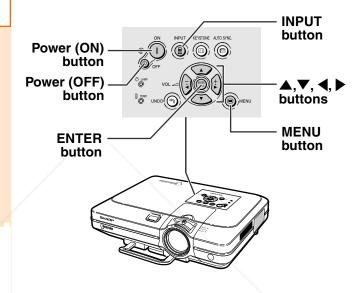


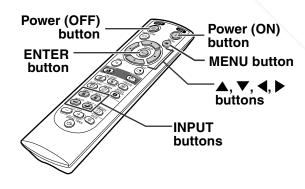
ixYourDLP when entering the keycode, press the buttons previously set on the projector or the remote control.

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.)











Press , input 2 input 3 or on on the remote control to select the INPUT mode.

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



- •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 images from equipment that sends RGB signals or component signals connected to the RGB input terminal.
INPUT 3 (Video)	Used for projecting images from equipment connected to the VIDEO input terminal.
INPUT 4 (S-Video)	Used for projecting images from equipment connected to the S-VIDEO input terminal.

4 Press or on the remote control to adjust the volume.



• Pressing () will lower the volume. Pressing (+) will raise the volume.

FixYourDL P On the projector, the volume can be

adjusted by pressing () or (+

on the projector operate

.com (800) 281-8<mark>86</mark>0 as cursor buttons (◀, ▶) when the TOR LAMPS AND ACCESSORIES menu screen is active.

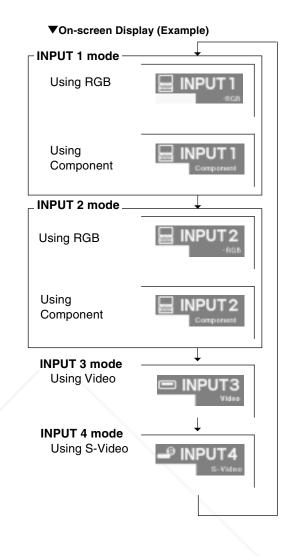






Image Projection

Fress to temporarily turn off the sound.



- Pressing again will turn the sound back on.
- Press (b), then press (c) again while the confirmation message is displayed, to turn off the projector.

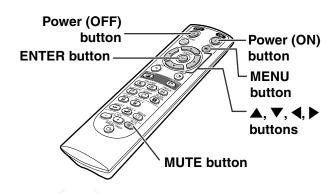


• If you accidentally pressed (b) and do not want to turn off the power, wait until the confirmation message disappears.



- Do not unplug the power cord during projection or cooling fan operation. This can cause damage due to the rise in internal temperature, as the cooling fan also stops.
- When connected to equipment such as an amplifier, be sure to turn off the power to the equipment connected first and then to the projector.

MUTE



Turn Power OFF?
Yes: Press Again No: Please Wait

Selecting the On-screen Display Language

 The on-screen display language of the projector can be set to English, German, Spanish, Dutch, French, Italian, Swedish, Portuguese, Chinese, Korean or Japa-



1 Press .

• The menu will be displayed. hant.com (800) 281-8860

Press of or Jun select Clamprojector LAMPS AND ACCESSORIES guage".

3 Press ▲ or ▼ to select the desired language, and then press (<u>O</u>)•



Press .

• The desired language will be set as the on-screen display.





ount-Merchant.com (800) 281-8<mark>86</mark>0 THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Correcting Trapezoidal Distortion (Keystone Correction)

Correcting Trapezoidal Distortion

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



 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.

1 Press .

 Pressing again while the BOR-DER, STRETCH or SMART STRETCH screen is displayed will start the Digital Shift function. See page 39.

Press ▲, ▼, ◀ and ▶ to adjust the Keystone correction.

If you want to make more detailed corrections, press to display the test pattern, and then press , ▼, ◀ and to make the adjustments.



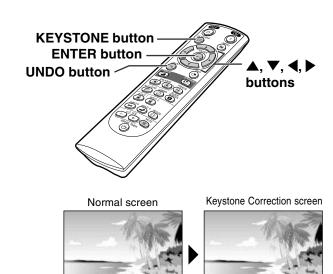
- Since the trapezoidal distortion of the image can be corrected up to an angle of approximately ±35 degrees, the actual screen can be diagonally set up to that angle as well.
- Press to cancel Keystone Correction.
- When no signal is detected, the test pattern will be displayed without pressing (a).

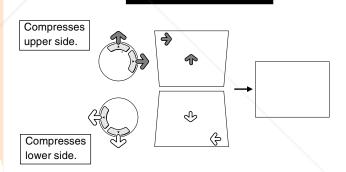


urDLP.com

 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.

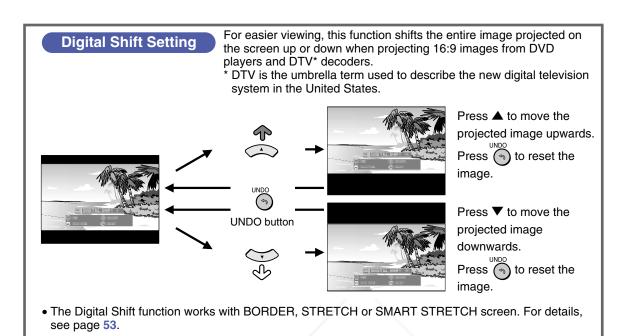








ROJECTOR LAMPS AND ACCESSORIES



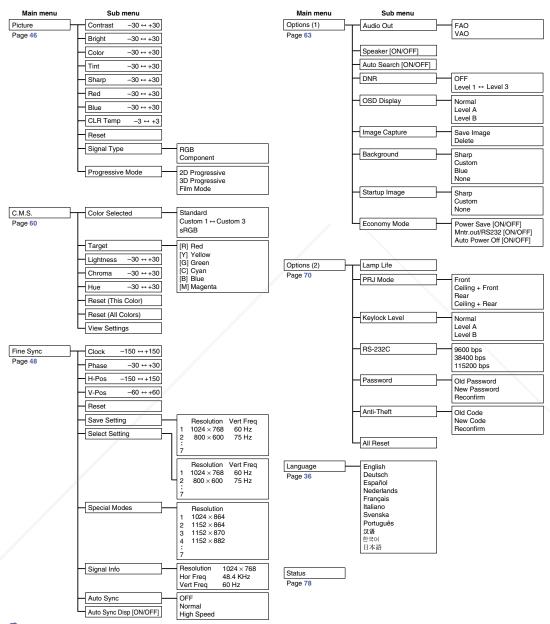


Discount-Merchant.com (800) 281-8860 THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Menu Bar Items

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

■ INPUT 1 / 2 Mode

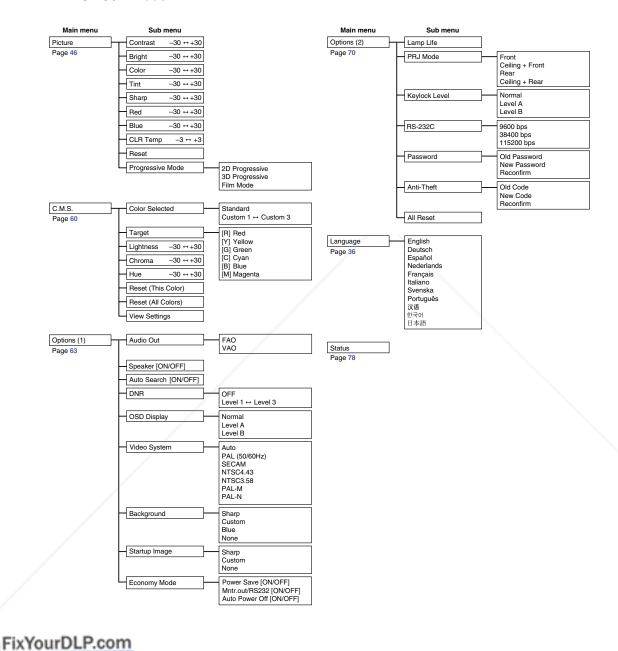


FixYou DLR.com

- 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.
- "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



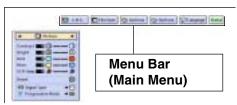
Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

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 screen for INPUT 3 or INPUT 4 Mode



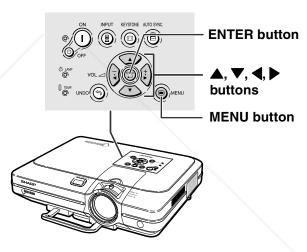
Menu Selections (Adjustments)

1 Press .

• The menu screen is displayed.



- 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

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES



FixYourDLP.com

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



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

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

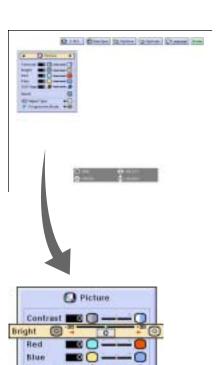


• To display a single adjustment item, press after selecting the item. Only the menu bar and the selected adjustment item will be displayed. Then if you press ▲ or ▼, the following item ("Red" is after "Bright") will be displayed.



- Press (to return to the previous screen.
- 4 Press ◀ or ▶ to adjust the item selected.
 - The adjustment is stored.

Fix You Fress . The menu screen will disappear.



+ 😑





Reset 19 Signal Type

Progressive Hode

Merchant.com (800) 281-8<mark>86</mark>0 SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Using the Menu Screen

Menu Selections (Settings)

1 Press .

• The menu screen is displayed.



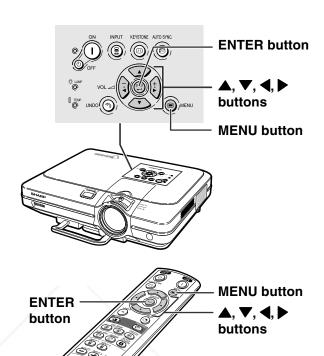
- The "Picture" menu screen for the selected input mode is displayed.
- The on-screen display shown on the lower right is displayed when INPUT 1 or 2 mode is selected.
- Press ◀ or ▶ to select the menu you want to adjust.



- 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.



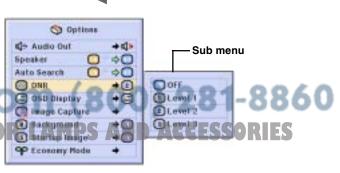
- Press on to return to the previous screen.
- In some menus, select the icon using "



▼ Menu screen







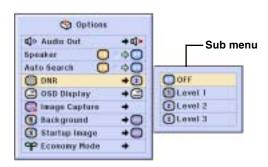


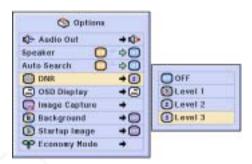
SCOUNT-Merchant.co



• The cursor shifts to the sub menu.

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





Press .

The item selected is set.

•••••



 Some adjustment items will display a confirmation message.
 When setting an item, press ◀ or
 to select "Yes" or "OK" and then press (



iscount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

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.



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.

Fix Yo Selecti Signal Type in the "Picture" menu on the menu screen.

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



-8860

• DCB

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.
→For operating the menu screen, see

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



• 2D Progressive

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

• III 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.

• D 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 three-two pull down enhancement will be enacted 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

Thas been entered JURGE FOR PROJECTOR LAMPS AND ACCESSORIES





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.

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



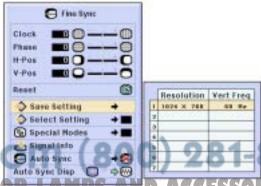
 Computer image adjustments can be made easily by pressing (E). See page 50 for details.

Saving Adjustment Settings

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

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

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



THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

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.

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



- 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.

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



- 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

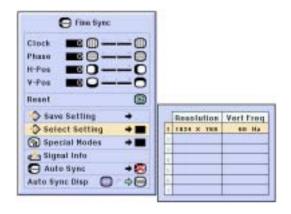
This function allows you to check the current input signal information.

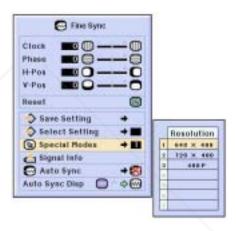
Select "Signal Info" in the "Fine Sync" ix Yomenu on the menu screen.

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

Note FD SOURCE FOR PROJ • The projector will display the number of

 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.

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



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:

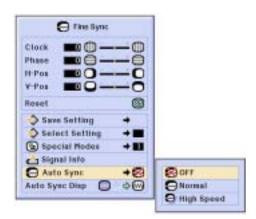
- When the optimum image cannot be achieved with Auto Sync adjustment. See page 48.
- Auto Sync adjustment may take some time to complete, depending on the image of the computer connected to the projector.
- When setting "Auto Sync" to "OFF" or "High Speed", and if Display is pressed Auto Sync will be 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

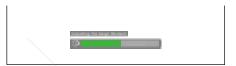
Used to set the screen displayed during Auto Sync.

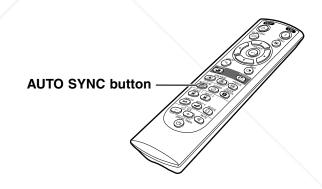
Select "Auto Sync Disp" in the "Fine Sync" menu on the menu screen.

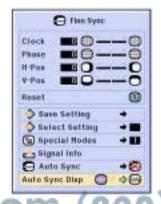
→ For operating the menu screen, see pages 42 to 45.



Screen display during Auto Sync







Note

..... The image set as a background image is projected.

• The computer image being ad-PROJECTOR LAMPS AND ACCESSORIES justed is displayed.

Easy to Use Functions

Easy to Use Functions



FixYourDLP.com

Sponsored by DM

Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

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.

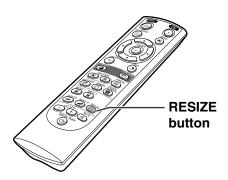
Switching the Picture Display Using Different Input Signals

Press .

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



- 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.



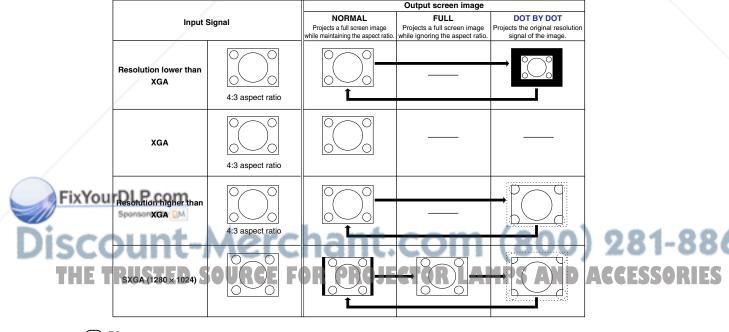
Screen display of the picture display mode



COMPUTER

		NORMAL	FULL	DOT BY DOT
	SVGA (800 × 600)	1024 × 768	_	800 × 600
4.0	XGA (1024 × 768)	1024 × 768	_	_
4:3 aspect ratio	SXGA (1280 × 960)	1024 × 768	_	1280 × 960
	UXGA (1600 × 1200)	1024 × 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.



VIDEO

		NORMAL	FULL	BORDER	STRETCH	SMART STRETCH
480I, 480P, 580I, 580P, NTSC, PAL, SECAM	4:3 aspect ratio. 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 image	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	1		→ ° ° −		
480I, 480P, 580I, 580P, NTSC, PAL, SECAM	Letter box	<u> </u>		→		
	Squeeze			→ ° ° ° −		
	16:9 aspect ratio		1			
540P	16:9 aspect ratio (4:3 aspect ratio in 16:9 screen)	/—			→ ° ° °	
720P, 1035I, 1080I	16:9 aspect ratio					



SCOUNT-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Displaying a Still Image

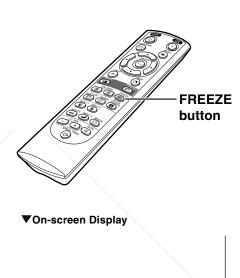
This function allows you to instantly freeze a moving image. This is useful when you want to display a still image from a computer or video, giving you more time to explain the image to the audience.

Storing an Image in Still Image Format

1 Press (B).

• The projected image is frozen.

Press again to return to the moving image from the currently connected device.



FREEZE ON

FREEZE OFF



Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

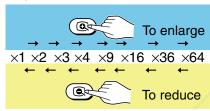
Enlarging a Specific Portion of an Image

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 (a).
 - Enlarges the image.
 - Pressing a or enlarges or reduces the projected image.





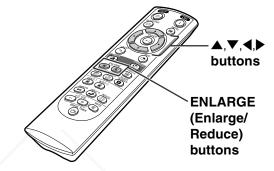
- You can change the location of the enlarged image using ▲, ▼, ◀ and
- When an image with a resolution higher than SXGA is displayed, "x2" and "x3" cannot be selected.
- Press to cancel the operation, then the magnification returns to ×1.



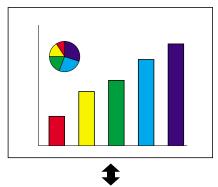
In the following cases, the image will return to the normal size $(\times 1)$.

- When switching the INPUT mode.
- When has been pressed.
- When the input signal is changed.
- When the input signal resolution

FixYourDLP 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

1

Press .

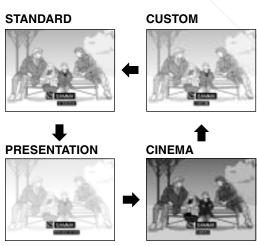
• Each time is pressed, the gamma level toggles between the different types of gamma modes.

To return to the default settings, press when "GAMMA" is displayed.



• 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".







iscount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

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.

Displaying the Inset Picture

- 1 Press .
- Press or on the remote control or on the projector to switch the image in the inset picture.
- Press ▲, ▼, ◀ and ▶ to set the position of the inset picture.
 - Press to stop the frame from moving or to make the frame disappear.
- Press to move the inset picture.
 - The inset picture will be moved to the inset picture frame.

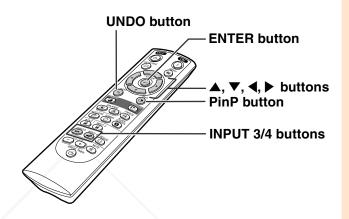
Note

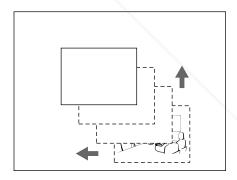
- The inset picture can only be displayed with composite video (NTSC/PAL/SECAM) or S-Video signal.
- The Freeze function works only with the inset picture, when the Pict in Pict mode is in operation.

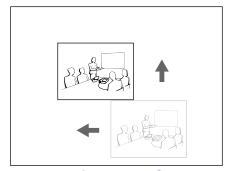
When the signal entered into INPUT 1 or 2 is as follows, Pict in Pict does not work:

- With a resolution that exceeds SXGA.
- When the input signal is 480I, 480P, 540P, 580I, 580P, 720P, 1035I or 1080I.
- When the input signal has changed to the Interlace mode using RGB signals.
- When the picture display mode is set to "DOT BY DOT".

 When no signals are sent to INPUT 1 or
 2, or when the resolution or refresh rate (vertical frequency) is changed.







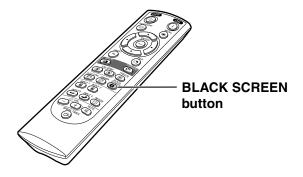
SCOUNT-MERCHANT.COM (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Black Screen Function

This function can be used to display a black screen.

Blacking out the Projected Image

- Press BLACK SCREEN
 - The screen turns black and "BLACK SCREEN" is displayed on the screen.
- 2 To return to the original projected image, press SCREEN again.







-Merchant.com (800) 281-8860

Easy to Use Functions

Displaying the Break Timer

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

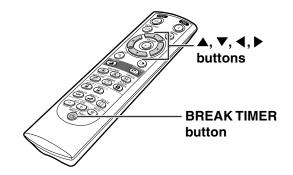
Displaying and Setting the Break Timer

- Press . The break timer starts to count down from 5 minutes.
- When "♥" is displayed, press

 ♠, ♥, ◀ or ▶ to set the break timer.
 - You can set anywhere between 1 and 60 minutes (in 1 minute units).
 - The break timer starts to count down as soon as ▲, ▼, ◀ or ▶ is pressed.
- Press to cancel the break timer.



- Auto Power Off will be temporarily disabled during the break timer.
 When no input signal is detected for more than 15 minutes, the projector will automatically shut off if the break timer has elapsed.
- 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).



▼On-screen Display





iscount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

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).



Selecting the Color Reproduction Mode

Select "Color Selected" in the "C.M.S." menu on the menu screen.

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



- 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.



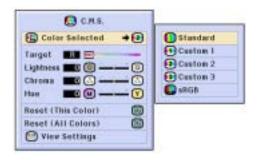
 When "sRGB" is selected, the projected image may become dark; however, this does not indicate a malfunction.

Selecting the Target Color

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

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

Sponsored by DM



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





Easy to Use Functions

Setting the Brightness of the Target Color

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

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



Setting the Chromatic Value of the Target Color

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

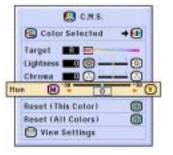
→ For operating the menu screen, see pages 42 to 45.



Setting the Hue of the Target Color

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

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





Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Color Management System (C.M.S.)

Resetting User-Defined Color Settings

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

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

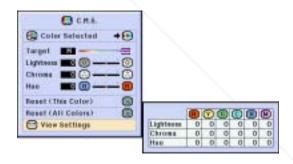


Selected item	Description
Reset (This Color)	"Lightness", "Chroma" and "Hue" of the color selected for "Target" are reset.
Reset (All Colors)	"Lightness", "Chroma" and "Hue" of all colors are reset.

Overview of All Color Settings

Select "View Settings" in the "C.M.S." menu on the menu screen.

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





Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Easy to Use Functions

Setting the Audio Output Type

This function allows you to set the audio output type.

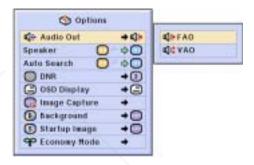


Selected Item	Description
FAO (Fixed audio output)	Audio output that does not vary in strength with the volume level of the source projector.
VAO (Variable audio output)	Audio output that varies in strength with the volume level of the source projector.

Setting the Audio Output Type

Select "Audio Out" in the "Options (1)" menu on the menu screen.

→ 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.

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



281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

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.



Using Auto Search

Select "Auto Search" in the "Options (1)" menu on the menu screen.

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



• 🔲 ON

Automatically switches to the input mode in which signals are being received, when turning on the projector or pressing on the projector.

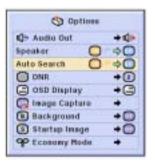
• 🕕 OFF

For switching input modes manually in order by pressing on the projector.

• To stop searching for the input mode, press (a) on the projector, or (a), (a), (b) or (b) on the remote control.

Info

- Even while this function is searching for input signals, whenever ⓐ, ⓐ, ⊕ or or on the remote control is pressed, the 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.

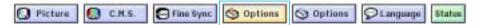




Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Video Digital Noise Reduction (DNR) System

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



Reducing Image Noise

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

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



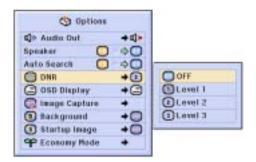
• Set a level so as to view a clearer picture.

Make sure to set DNR to "OFF" in the following cases:

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



• 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 "Level A" or "Level 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.
C 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.))

FixYourDLP.com 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.





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.



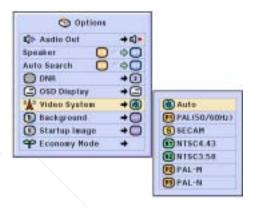
Setting the Video System

Select "Video System" in the "Options (1)" menu on the menu screen.

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



- 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.



iscount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Easy to Use Functions

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.



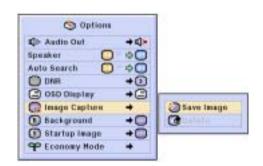
Capturing the Image

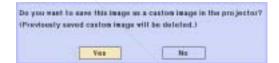
Select "Image Capture" in the "Options (1)" menu on the menu screen.

- → For operating the menu screen, see pages 42 to 45.
- Press ▲ or ▼ to select " Save Image" and press (-).
 - The projected image is captured. It may take some time for capturing.
- 2 ① Press ◀ or ▶ to select "Yes".
 - 2 Press (-).



- Only images from XGA (1024 × 768) noninterlace signals in INPUT 1 or INPUT 2 mode can be captured.
- The saved image is reduced to 256 colors.
- Images from equipment connected to INPUT 3 or INPUT 4 terminal cannot be captured.
- Only one image can be captured and saved.
- The color of images may differ before and after saving if an image is captured on which image adjustment has been performed using the "C.M.S." function.





This cauten image saved in the projector will be deleted.

Deleting the Captured FixYourDLR com

Select " Delete" and press ... 2 Press or to select OK". PROJECTOR LAMPS AND ACCESSORIES

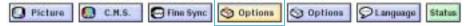
2 Press .

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
Custom *1	User customized image (e.g. company logo)
Blue	Blue screen
None	Black screen *2

- *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.



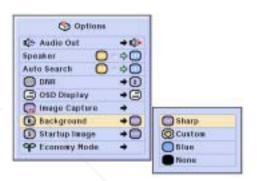
Selecting a Background Image

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

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



- 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
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 Fix Yo (1)" in the menu screen.

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





- Note 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.



Selecting the Economy Mode

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



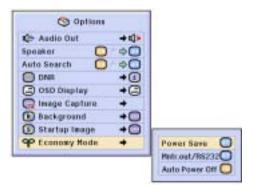
Setting the Power Save Mode

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

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



- 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".



	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

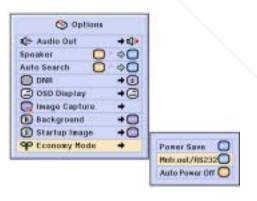
Monitor Out/RS-232C Off Function

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.

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

	ON	Monitor Out/RS-232C connection is set to "ON".
)	ur&LP.	Monitor Out/RS-232C connection



scon (800) 281-8860

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

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".

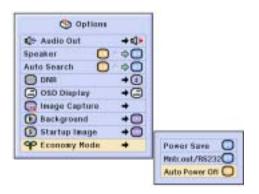
The Auto Power Off function will be disabled when it has been set to "OFF".

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

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



 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.





Displaying the Remaining Lamp Life (Percentage)



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.

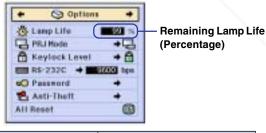
→ For operating the menu screen, see pages 42 to 45.



•It is recommended that the lamp be changed when the remaining lamp life FIXYOUT 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		
	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	
com (8	300)	281-8	B860

OJECTOR LAMPS AND ACCESSORIES

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							
Front	Normal image							
Ceiling + Front	Inverted image							
Rear	Reversed image							
Ceiling + Rear	Reversed and inverted image							



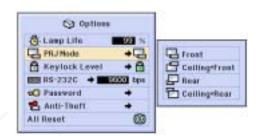
Setting the Projection Mode

Select "PRJ Mode" in the "Options (2)" menu on the menu screen.

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



- 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.						
	All operation buttons on the projector are unavailable.						

Setting up the Keylock

Fix Yo Select "Keylock Level" in the "Options (2)" menu on the menu screen.

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



 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

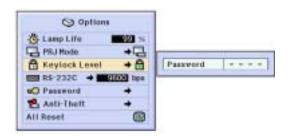
When the Keylock Level is set to "Normal", all buttons are functional.

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

→ 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.



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.

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





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.

Persente the computer's energical manual.

Refer to the computer's operation manual projector LAMPS AND AGESSORIES for instructions for setting the computer's baud rate.

Easy to Use Functions

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.



Entering 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 ▲ or ▼ to select the desired number and then press ▶.
- Enter the 3 remaining digits and press .
- Enter the password again in "Reconfirm" and press .



 When a password is set, you need to enter the password to change "PRJ Mode", "Keylock Level", "RS-232C", "Anti-Theft" and "All Reset" settings.







Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Setting up a Password

Changing the Password

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

- → For operating the menu screen, see pages 42 to 45.
 - Press ▲, ▼ and ▶ to enter the password in "Old Password" and press ⑤.
- Press ▲, ▼ and ▶ to set the new password and press ⑤.
- Enter the new 4-digit password again in "Reconfirm" and press ...



- If you do not want to set a password, leave the fields in procedures 2 and 3 blank and press (5).
- To cancel the password settings, click (5).

If You Forget Your Password

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

Press $\stackrel{\text{ON}}{\square} \rightarrow \stackrel{\text{\tiny ENTER}}{\bigcirc} \rightarrow \stackrel{\text{\tiny ON}}{\square} \rightarrow \stackrel{\text{\tiny ENTER}}{\bigcirc} \rightarrow$

$$\stackrel{\text{ON}}{|} \rightarrow \stackrel{\text{\tiny ENTER}}{|} \rightarrow \stackrel{\text{\tiny MENU}}{|}$$







iscount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Easy to Use Functions

. . . .

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.



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



FixYourDLR the following buttons on the remote control and projector cannot be set

- as keycodes: nt.com (800) 281-8<mark>86</mark>0 POWER (ON/OFF) buttons
 - **ENTER** button
- UNDO button R C E PROJECTOR LAMPS AND ACCESSORIES
 - MENU button
 - FORWARD button
 - BACK button





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".



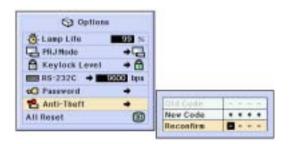
• The Keylock function will become temporarily disabled.

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

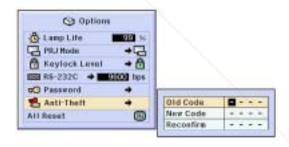
 Press the buttons on the remote control if the buttons on the remote control are used for setting the keycode. In the same manner, press the buttons on the projector if the buttons on the projector are used for setting the keycode.

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.
 - Press the buttons on the remote control or the projector to enter the preset 4-digit keycode in "Old Code".
 - Press any button you like on the remote control or the projector to enter the new keycode.







FixYous Enter the same 4-digit keycode in "Reconfirm".

SCONOTE Note This you do not want to set a keycode, leave PROJECTOR LAMPS AND ACCESSORIES

the keycode field blank in steps 2 and 3 and press .

Easy to Use Functions

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.

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



Options.

& Lamp Life



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"



Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Displaying the Adjustment Settings

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



Overview of All Menu Settings

Select the "Status" menu on the menu screen and press ().

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

Q feier	€ IME	C tentre	() lieben	CD Falme	. 200441
Contract	Color Intended	O A	C #C	A m	O Tengina
ES -	a Zenwer	O e	0+ 0	G +G	200
		C s	D =O	D TO	
B		C	B +0	#1 (21)	Contract of the last of the la
D. Time		toroil felling	0 +0	Facetoria	Tarrest .
Elipse ham		Samuel States	8 .0	And there	
P + 400 Proprogramation		G	0 +0	Carolle Fee	0.0200
		O +B	D +O		tiols bale statics
		4	O CO	AND THE OWN	CONTRACTOR .



Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Appendix



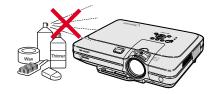
Maintenance

Cleaning the projector

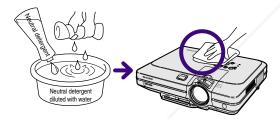
- Be sure to unplug the power cord before cleaning the projector.
- The cabinet as well as the operation panel is made of plastic. Avoid using benzene or thinner, as these can damage the finish on the cabinet.
- Do not use volatile agents such as insecticides on the projector.

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.

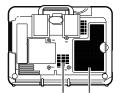




Discount-Merchant.com (800) 281-8860 THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

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.



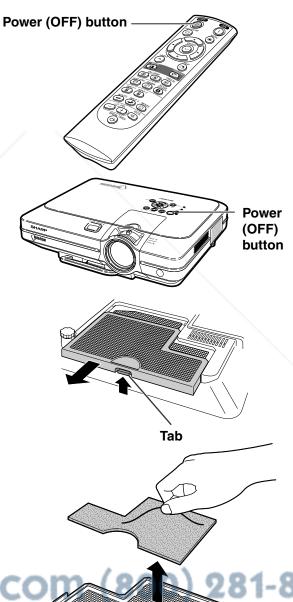
Air filter Air filter (not removable)

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.



- Turn over the projector. Grab the tab and slide open the filter cover in the direction of the arrow.
- 3 Remove the air filter.
 - Pick the air filter up with your fingers and lift it out of the filter cover.





ount-Merchant.cor

Appendix

Replacing the Air Filter

4 Clean the air filter.

• Clean the dust off the air filter and cover with a vacuum cleaner extension hose.

5 Replace the air filter.

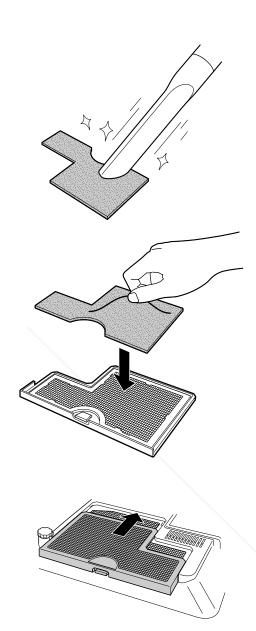
 Place the air filter underneath the tabs on the filter cover.

6 Replace the filter cover.

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



- •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.

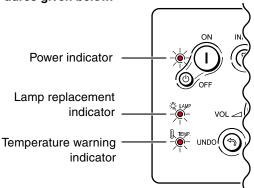




Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

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.



About the temperature warning indicator

If the temperature inside the projector increases, due to blockage of the air vents, or the setting location, "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 "Temperature warning indicator will be shut off. After appears, be sure to perform the following measures.



About the lamp replacement indicator



- The lamp life becomes 0%, when used for approximately 2,000 hours with "ON" in "Power Save" or when used for approximately 1,500 hours with "OFF" in "Power Save" (see page 69).
- When the remaining lamp life becomes 6% or less, "will be displayed on the screen in yellow. When the percentage becomes 0%, "will change to "red), the lamp will automatically turn off and then the projector as well. At this time, the lamp replacement indicator will illuminate in red.
- If you try to turn on the projector a fourth time without replacing the lamp, the projector will not turn on.

	Maint	tenance indicat	or	Condition	Problem	Possible Solution
		Normal	Abnormal	The internal	Blocked air intake	Relocate the projector to an area with proper ventilation.
	Temperature warning indicator	Off Red on/ Power off abnormally high. Red on/ temperature is abnormally high. • Cooling fan bre down - Internal circuit		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 Green	Red blinks/ Red on	Time to change the lamp	Remaining lamp life becomes 6% or under.	Carefully replace the lamp. (See page 86) Take the projector to your nearest
0	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.
E	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.

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 (a) 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).

U.S.A. ONLY

Caution Concerning the Lamp

- This projector utilizes a pressurized mercury lamp. A loud sound may indicate lamp failure. Lamp failure can be attributed to numerous sources such as: excessive shock, improper cooling, surface scratches or deterioration of the lamp due to a lapse of usage time. The period of time up to failure largely varies depending on the individual lamp and/or the condition and the frequency of use. It is important to note that failure can often result in the bulb cracking.
- When the lamp replacement indicator and on-screen display icon are illuminated 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



- 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.



iscount-Merchant.com (800) 281-88
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIE

Regarding the Lamp

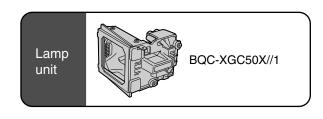
Removing and Installing the Lamp Unit

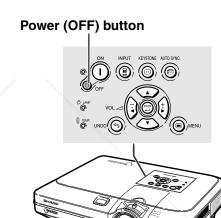


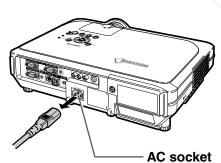
- Be sure to remove the lamp unit by the handle. Be sure not to touch the glass surface of the lamp unit or the inside of the projector.
- To avoid injury to yourself and damage to the lamp, be sure to carefully follow the steps below.
- Do not loosen other screws except for the lamp unit cover and lamp unit.
 (Only the silver screws are loosened).
- Please refer to the installation manual included with the lamp unit.
- Press 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).
- Fix our Debugged He had been seen the user service screw that secures the lamp unit cover. Then open the cover in the direction of the











 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.

7 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.

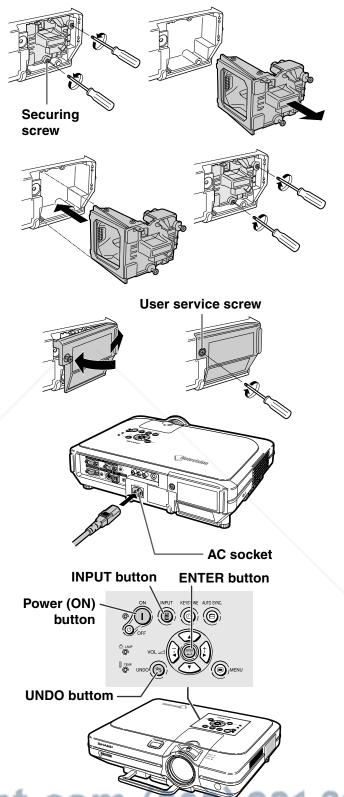
• Plug the power cord into the AC socket of the projector.

2 Reset the lamp timer.

- While pressing simultaneously (a), (b) and (b) on the projector, press (c) 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.

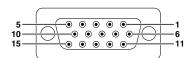


ppendi

HE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIE

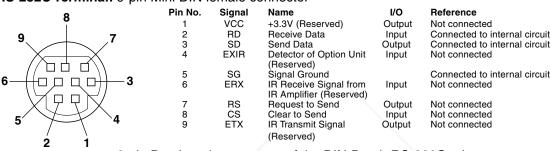
Connecting Pin Assignments

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

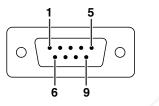


RGB Input Component Input Video input (red) Video input (green/sync on green) 1. P_R (C_R) 2. Y Video input (blue) 3. P_B (C_B) Reserve input 1 Not connected Composite sync Not connected Earth (red) Earth (PR) Earth (green/sync on green) Earth (blue) Earth (Y) 8. 8. Earth (P_B) Not connected 9. Not connected 10. GND 10. Not connected GND Not connected 12. Bi-directional data 12. Not connected Horizontal sync signal 13. Not connected Vertical sync signal 14. Not connected Data clock 15. Not connected

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

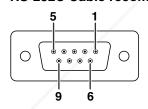


9-pin D-sub male connector of the DIN-D-sub RS-232C adaptor



Piı	n 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

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



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



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







(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.

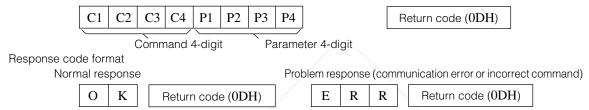
Signal format: Conforms to RS-232C standard.

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





- 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.

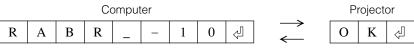


 When using the computer control function of the projector, the projector's operating status cannot be read by the computer. Therefore, confirm the status by transmitting the display commands for each adjustment menu and checking the status with the on-screen display. If the projector receives a command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

Commands

Example:

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





	CONTROL CONTENTS	C	COMMAND		PA	IRAN	/ETI	ER	RETURN		
_	BLACK SCREEN ON	ı	M	В	K	_	_	_	1	OK OR ERR	
L KEY	BLACK SCREEN OFF	1	M	В	K	_		_	0	OK OR ERR	
REMOTE CONTROL	INPUT 1	ı	R	G	В		=	_	1	OK OR ERR	
SON	INPUT 2	١	R	G	В	F		H	2	OK OR ERR	Ö
E	INPUT 3	ı	٧	E	D			L	1	OK OR ERR	С
EM	INPUT 4	1	٧	E	D	_		_	2	OK OR ERR	7
ठ०	INPUT CHECK	li.	C	H	K				0	OK OR ERR	
NS O	FREEZE ON	F	R	E	Z		_4	-	4	OK OR ERR	
BUTTONS	FREEZE OFF	F	R	E	z	_	_	-	0	OK OR ERR	
	AUTO SYNC START	A	D	J	s	_	_	_	1	OK OR ERR	

(RS-232C) Specifications and Command Settings

$\overline{\ }$	CONTROL CONTENTS	C	OM	MAI	ND	P	(RA)	METE	ER	RETURN
	INPUT 1 RESIZE : NORMAL	R	Α	s	R	Г	Г	Г	1	OK OR ERR
	INPUT 1 RESIZE : FULL	R	Α	ŀ···	R	ΙΞ.	I.T.		5	OK OR ERR
	INPUT 1 RESIZE : DOT BY DOT	R		S	···	Ξ.	 .		3	
	INPUT 1 RESIZE : STRETCH	R	Α	S	R	Ξ.	ļ		2	
	INPUT 1 RESIZE : SMART STRETCH	R			R	Ξ.	l		4	OK OR ERR
	INPUT 2 RESIZE : NORMAL	R	В	S	R	-	F	-	1	OK OR ERR
	INPUT 2 RESIZE : FULL	R	···	S	R	Ξ.	Ε.		5	OK OR ERR
	INPUT 2 RESIZE : DOT BY DOT	R	В	S	R	Ξ.	. .		3	OK OR ERR
	INPUT 2 RESIZE : STRETCH	R	В	S	R	Ξ.	Ξ.			OK OR ERR
Æ	INPUT 2 RESIZE : SMART STRETCH	R	В		R	Ξ.	Ξ.		4	
1-	INPUT 3 RESIZE : NORMAL	R	A	S	V	-	F	-	1	OK OR ERR OK OR ERR
CONTRO	INPUT 3 RESIZE : BORDER	R	···	S	v	Ξ.	Ξ.		3	
18		R		···		Ξ.	Ε.			
ě	INPUT 3 RESIZE : STRETCH	···	A	S	۷	Ξ.			4	OK OR ERR OK OR ERR
ONS & REMOTE	INPUT 3 RESIZE : SMART STRETCH	R R	A	S	v	-	H	-	1	
§	INPUT 4 RESIZE : NORMAL	ł	В	S	ļ	Ξ.	l=.			OK OR ERR
ΙĒ	INPUT 4 RESIZE : BORDER	R	В	S	٧	Ξ.	Ξ.		3	OK OR ERR
🗟	INPUT 4 RESIZE : STRETCH	R	В	···	٧	Ξ.	Ξ.		2	
	INPUT 4 RESIZE : SMART STRETCH	R	В	S	٧	-	-	_	4	OK OR ERR
	RGB GAMMA : STANDARD	G	ļ	M	R	Ξ.	<u>.</u>		1	OK OR ERR
	RGB GAMMA : PRESENTATION	G		M	R	Ξ.	Ξ.		2	OK OR ERR
	RGB GAMMA : CINEMA	G	A	ŀ	R	Ξ.	Ξ.		3	OK OR ERR
	RGB GAMMA : CUSTOM	G		M	R	Ξ.	Ξ.		4	OK OR ERR
	VIDEO GAMMA : STANDARD	G		M	۷	Ξ.			1	OK OR ERR
	VIDEO GAMMA : PRESENTATION	G	ļ	M	٧	Ξ.	<u>.</u>			OK OR ERR
	VIDEO GAMMA : CINEMA	G	···	M	٧	Ξ.	Ξ.		3	
	VIDEO GAMMA : CUSTOM	G	-	M	٧	-	-	-	4	
	INPUT 1 CONTRAST (-30 - +30)	R	A	P		Ξ.	*			OK OR ERR
	INPUT 1 BRIGHT (-30 - +30)	R		В	R	Ξ.	 *	 *	 *	OK OR ERR
	INPUT 1 RED (-30 - +30)	R	ļ	R	D	Ξ.				OK OR ERR
	INPUT 1 BLUE (-30 - +30)	R	···	В	E	Ξ.	*	*	*	OK OR ERR
	INPUT 1 COLOR (-30 - +30)	R	A	C	0	Ξ.		*	*	OK OR ERR OK OR ERR
	INPUT 1 TINT (-30 - +30)	R	A			Ξ.	*		*	
	INPUT 1 SHARP (-30 - +30)	R	A	S	H	Ξ.		*	*	OK OR ERR OK OR ERR
	INPUT 1 CLR TEMP (-3 - +3) INPUT 1 DISPLAY	R	ļ	R	E	Ξ.	Ξ.		0	OK OR ERR
	INPUT 1 ADJUSTMENT RESET	R		R	E	Ξ.	Ε.		1	OK OR ERR
		R	⊢	P	1	-	-	- *	*	OK OR ERR
	INPUT 2 CONTRAST (-30 - +30)	ļ			···	Ξ.			*	
	INPUT 2 BRIGHT (-30 - +30)	R	В		R	Ξ.			*	OK OR ERR
	INPUT 2 RED (-30 - +30)	R	В	R	D	Ξ.			*	OK OR ERR
	INPUT 2 BLUE (-30 - +30)	R R	···	В	E	Ξ.		*	*	
	INPUT 2 COLOR (-30 - +30)	n R	В	C	0	Ξ.			*	OK OR ERR
ľ	INPUT 2 TINT (-30 - +30)	ļ	В	T	ļ	Ξ.				OK OR ERR
흔	INPUT 2 SHARP (-30 - +30)	R	В		H	Ξ.	ļ	. <u>.</u> .		OK OR ERR
П	INPUT 2 CLR TEMP (-3 - +3)	R	В	C	T	Ξ.	Ξ.			OK OR ERR
	INPUT 2 DISPLAY	R	В	ŀ	E	Ξ.	Ε.		0	OK OR ERR
1	INPUT 2 ADJUSTMENT RESET INPUT 1 SIGNAL TYPE : RGB	ı	B A	⊢	E	-	H	-	1	
	INPUT 1 SIGNAL TYPE : COMPONENT	i	A	S	ï	Ξ.	Ξ.			OK OR ERR OK OR ERR
	INPUT 2 SIGNAL TYPE : RGB	ı	⊢	S	i	F	F	-	⊢	OK OR ERR
	INPUT 2 SIGNAL TYPE : COMPONENT	i	ļ	S	ļ	Ξ.	l			OK OR ERR
	INPUT 1 2D PROGRESSIVE	R	A	ı	P	-	F	-	⊢	OK OR ERR
	INPUT 1 3D PROGRESSIVE	R	A	÷	P	Ξ.	Ι			OK OR ERR
	INPUT_1 FILM MODE	R	A	ï	P	Ι	۳.	Ι	2	
u	INPUT 2.2D PROGRESSIVE	R	В	ı	P	F	F	F	-	OK OR ERR
100	INPUT 2 3D PROGRESSIVE	R	В	ŀ	P	Ε.	Ι		1	OK OR ERR
	INPUT 2 FILM MODE	ļ	В		P	Ε.	Ι		2	
-	INPUT 3 CONTRAST (-30 - +30)	٧	A	P	1	,	*	*	*	OK OR ERR
	INPUT 3 BRIGHT (–30 - +30)	V	A	В	R	=	*	*	*	OK OR ERR

/	CONTROL CONTENTS	C	OMI	MAI	ND	PA	ARAI	METE	R	RETURN
Ì	INPUT 3 BLUE (-30 - +30)	٧	Α	В	Ε		*	*	*	OK OR ERR
	INPUT 3 COLOR (-30 - +30)	٧		C			*	*	*	OK OR ERR
	INPUT 3 TINT (-30 - +30)	V		T	l···		*	*	*	OK OR ERR
	INPUT 3 SHARP (-30 - +30)	V		S			*	*		OK OR ERR
	INPUT 3 CLR TEMP (-3 - +3)	V		C	ł···	π.	···	*		OK OR ERR
	INPUT 3 DISPLAY	v		R		π.	Ι			OK OR ERR
	INPUT 3 ADJUSTMENT RESET	v	A		E	Ξ.	ļ		• • • •	OK OR ERR
		v	⊢	P	ı	-	+	*	*	
	INPUT 4 CONTRAST (-30 - +30)	v				π.	*			OK OR ERR
	INPUT 4 BRIGHT (-30 - +30)	ļ.ī.		В	···	Ξ.				OK OR ERR
	INPUT 4 RED (-30 - +30)	۷		R		Ξ.	 *			OK OR ERR
N.E	INPUT 4 BLUE (-30 - +30)	۷		В		Ξ.				OK OR ERR
PICTURE	INPUT 4 COLOR (-30 - +30)	۷		C		Ξ.		*		OK OR ERR
_	INPUT 4 TINT (-30 - +30)	۷		T	1	<u></u> .	*	*	*	OK OR ERR
	INPUT 4 SHARP (-30 - +30)	۷	В	S	Н	Ξ.	*	*	*	OK OR ERR
	INPUT 4 CLR TEMP (-3 - +3)	۷	В	C	T	<u></u>	ļ	*	*	OK OR ERR
	INPUT 4 DISPLAY	۷	В	R	Ε	<u></u>	ļ		0	OK OR ERR
	INPUT 4 ADJUSTMENT RESET	٧	В	R	Ε	_	_	_	1	OK OR ERR
	INPUT 3 2D PROGRESSIVE	٧	A	ı	P	_	_	_	0	OK OR ERR
	INPUT 3 3D PROGRESSIVE	٧	Α	I	Р	_	L	_	1	OK OR ERR
	INPUT 3 FILM MODE	٧	Α	ī	Р	_	_	_	2	OK OR ERR
	INPUT 4 2D PROGRESSIVE	٧	В	ı	Р	_			0	OK OR ERR
	INPUT 4 3D PROGRESSIVE	v	В	ï	Р	_	Ľ	_	1	OK OR ERR
	INPUT 4 FILM MODE	v	В	ī	Р		ļ			OK OR ERR
	COLOR SELECTED : STANDARD	С	М	C	_	Ē	Ē	0	_	OK OR ERR
	COLOR SELECTED : SRGB	C		C	···	Ι	ΙΞ.			OK OR ERR
	COLOR SELECTED : CUSTOM 1	C		C	···	π.	Ι		• • • •	OK OR ERR
	COLOR SELECTED : CUSTOM 2	C		C		Ξ.	Ι	1		OK OR ERR
	COLOR SELECTED : CUSTOM 3	C	M			Ξ.	Ι		• • • •	OK OR ERR
		\vdash	_	Т	\vdash	-	F	•		OK OR ERR
	TARGET: WELLOW	C			···	Ξ.	Ξ.		• • • •	
s.	TARGET : YELLOW	C		T	···	Ξ.	Ι	Ξ.	• • • •	OK OR ERR
Ė	TARGET : GREEN	C		T		Ξ.	-			OK OR ERR
ن	TARGET: CYAN	C		T		Ξ.	-	Ξ.		OK OR ERR
	TARGET : BLUE	C	M		ł···		-		• • • •	OK OR ERR
	TARGET : MAGENTA	C	⊢	T	⊢	_	F	_	Н	OK OR ERR
	LIGHTNESS (-30 - +30)	C		S	ł···	Ξ.	*	*	*	OK OR ERR
	CHROMA (-30 - +30)	C	M	S	C	<u></u> .	*	*	*	OK OR ERR
	HUE (-30 - +30)	C	M	S	Н	_	*	*	*	OK OR ERR
	Reset (THIS COLOR)	C	M	R	E	. .	ļ		1	OK OR ERR
	Reset (All COLORS)	C	M	R	E	_	_	_	2	OK OR ERR
	CLOCK (-150 - +150)	1	N	C	L	*	*	*	*	OK OR ERR
	PHASE (-60 - +60)	ı	N	P	Н	_	*	*	*	OK OR ERR
	H-POSITION (-150 - +150)	Ī	A	Н	Р	*	*	*	*	OK OR ERR
	V-POSITION (-60 - +60)	ī	Α	٧	Р	<u> </u>	*	*	*	OK OR ERR
	RGB INPUT DISPLAY	ī	Α	R	Ε	_	L	_	0	OK OR ERR
	RGB ADJUSTMENT RESET	ı		R	ł···	_	Ľ	_	1	OK OR ERR
	SAVE SETTING (1 - 7)	M		M		L	L			OK OR ERR
S.	SELECT SETTING (1 - 7)	-	-	M	-	Ē	Ē	Ē	*	OK OR ERR
E E	RGB HORIZONTAL FREQUENCY CHECK	Т	-	R	-	Ē	Ē	Ē	1	
4	RGB VERTICAL FREQUENCY CHECK	T		R	i	Ι	Ē		• • • •	Hz (***. * OR _)
	AUTO SYNC OFF	A	-	D	-	F	F	F		OK OR ERR
	NORMAL AUTO SYNC	Α		D	1	π.	ļ=.			OK OR ERR
	HIGH SPEED AUTO SYNC	Α		D	1	Ι	1=			OK OR ERR
		+	-	-	-	F	F	H	Н	
	AUTO SYNC DISPLAY ON	1		A	ł···	 .	ļ			OK OR ERR
	AUTO SYNC DISPLAY OFF		ı₩	Α	S	l_	I_	I_	U	OK OR ERR

.COM (800) 281-8860 JECTOR LAMPS AND ACCESSORIES

	CONTROL CONTENTS CO				ID	PA	RAN	METI	ER	RETURN
	FAO	Α	0	U	Т				1	OK OR ERR
	VA0	Α	0	U	T	_	_	_	2	OK OR ERR
	SPEAKER ON	Α	s	Р	K	_		_	1	OK OR ERR
	SPEAKER OFF	Α	S	Р	K	_	_	_	0	OK OR ERR
	PICT IN PICT : BOTTOM RIGHT	Р	ı	N	Р			1	1	OK OR ERR
	PICT IN PICT : BOTTOM LEFT	Р	ī	N	Р	_	_	1	2	OK OR ERR
	PICT IN PICT : UPPER RIGHT	Р	ï	N	Р	_	_	1	3	OK OR ERR
	PICT IN PICT : UPPER LEFT	Р	ī	N	Р	_	_	1	4	OK OR ERR
	PICT IN PICT OFF	Р	ï	N	Р	_	_	_	0	OK OR ERR
	POWER SAVE: STANDARD	Т	Н	M	D	_		_	0	OK OR ERR
	POWER SAVE: LOW POWER	Т	Н	M	D	_	_	_	1	OK OR ERR
	DNR: OFF	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	ı	N	s	E	_		_	0	OK OR ERR
	AUTO SEARCH: ON	ï	N	S	Ε	_	_	_	1	OK OR ERR
=	OSD DISPLAY NORMAL	ı	M	D	I	_		_	1	OK OR ERR
) SN	OSD DISPLAY LEVEL A	ï	M	D	1	_	_	_	2	OK OR ERR
SNOITAC	OSD DISPLAY LEVEL B	ï	M	D	ı	_	_	_	0	OK OR ERR
6	BLACK SCREEN DISPLAY ON	ı	M	В	0	-	_	_	1	OK OR ERR
	BLACK SCREEN DISPLAY OFF	ï	M	В	0	_		_	0	OK OR ERR
	VIDEO SYSTEM SELECTION : AUTO	М	Ε	s	Υ	_		_	1	OK OR ERR
	VIDEO SYSTEM SELECTION : PAL (50/60 Hz)	M	Ε	S	Υ	_		_	2	OK OR ERR
	VIDEO SYSTEM SELECTION : SECAM	M	Ε	S	Υ	_		_	3	OK OR ERR
	VIDEO SYSTEM SELECTION : NTSC4.43	М	Ε	S	Υ	_		_	4	OK OR ERR
	VIDEO SYSTEM SELECTION : NTSC3.58	М	Ε	s	Υ	_		_	5	OK OR ERR
	VIDEO SYSTEM SELECTION : PAL_M	M	E	S	Υ	_		_	6	OK OR ERR
	VIDEO SYSTEM SELECTION : PAL_N	M	Ε	S	Υ	-	_	_	7	OK OR ERR
	BACKGROUND SELECTION : SHARP	ı	M	В	G	-	_	_	1	OK OR ERR
	BACKGROUND SELECTION : CUSTOM	ī	M	В	G	_		_	2	OK OR ERR
	BACKGROUND SELECTION : BLUE	ï	M	В	G	_		_	3	OK OR ERR
	BACKGROUND SELECTION : NONE	ï	M	В	G	_	_	_	4	OK OR ERR
	STARTUP IMAGE SELECTION : SHARP	ı	M	S	I		_	_	1	OK OR ERR
	STARTUP IMAGE SELECTION : CUSTOM	ı	M	s	I	_		_	2	OK OR ERR
	STARTUP IMAGE SELECTION : NONE	ī	M	S	I	_		_	3	OK OR ERR
	AUTO POWER OFF : NO USE	A	Р	0	w		[]	_	0	OK OR ERR
	AUTO POWER OFF : USE	Α	Р	0	w	_		_	1	OK OR ERR

\angle	CONTROL CONTENTS	C	MC	MAI	ND	P/	\RAI	METI	ER	RETURN
	LAMP LIFE (PERCENTAGE)	Т	L	Т	L	_	_	_	1	0-100 (INTEGER)
	LAMP STATUS	Ţ		Р					1	0:0FF, 1:0N, 2:RETRY,
	LAMP STATUS	'	_	Г	3	-	-	-	'	3:WAITING, 4:LAMP ERROR
(2)	PRJ MODE : REVERSE OFF	I	M	R	Ε	_	_	_	0	OK OR ERR
DPTIONS (2)	PRJ MODE : REVERSE ON	ï	M	R	Ε	_	_	_	1	OK OR ERR
OPT	PRJ MODE : INVERT OFF	ï	M	ï	N	_	_	_	0	OK OR ERR
	PRJ MODE : INVERT ON	ï	M	ī	N	_	_	_	1	OK OR ERR
	KEYLOCK LEVEL : NORMAL	K	Ε	Υ	L	_	_	_	0	OK OR ERR
	KEYLOCK LEVEL : LEVEL A	K	Ε	Υ	L	_	_	_	1	OK OR ERR
	KEYLOCK LEVEL : LEVEL B	K	Ε	Υ	L	_	_	_	2	OK OR ERR
	LANGUAGE SELECTION : ENGLISH	M	Ε	L	A	_	_	_	1	OK OR ERR
	LANGUAGE SELECTION : DEUTSCH	M	Ε	L	A	_	_	-	2	OK OR ERR
	LANGUAGE SELECTION : ESPAÑOL	M	Ε	L	A	_	_	_	3	OK OR ERR
	LANGUAGE SELECTION : NEDERLANDS	M	Ε	L	A	_	_	_	4	OK OR ERR
명	LANGUAGE SELECTION : FRANÇAIS	M	Ε	L	A	_	_	_	5	OK OR ERR
ANGUAGE	LANGUAGE SELECTION : ITALIANO	M	Ε	L	A	_	_	_	6	OK OR ERR
LAN	LANGUAGE SELECTION : SVENSKA	M	Ε	L	Α	_	_	_	7	OK OR ERR
	LANGUAGE SELECTION: 日本語	M	Ε	L	A	_	_	_	8	OK OR ERR
	LANGUAGE SELECTION : PORTUGUÊS	M	Ε	L	A	_	_	_	9	OK OR ERR
	LANGUAGE SELECTION:汉语	M	Ε	L	A	_	_	1	0	OK OR ERR
	LANGUAGE SELECTION : 한국어	M	Ε	L	A	_	_	1	1	OK OR ERR
	MODEL NAME CHECK	M	N	R	D	_	_	_	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)	ļ						ļ		OK OILEIII
	PROJECTOR NAME SETTING 2	Р	J	N	2	*	*	*	*	OK OR ERR
	(Middle four characters)		ļ					ļ	ļ	
	PROJECTOR NAME SETTING 3 (Last four characters)	Р	J	N	3	*	*	*	*	OK OR ERR
	PROJECTOR NAME CHECK	P	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	SYSTEM CODE			DATA CODE					EXTERNAL CODE						
ITEM	C1	C2	СЗ	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	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	1	0	1	1	0	1	0	1	1	0

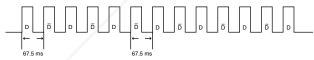
CONTROL	S	YST	ЕМ	COL	ÞΕ	DATA CODE				EXTERNAL CODE					
ITEM	C1	C2	СЗ	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15
AUTO SYNC	1	0	1	1	0	0	1	0	1	1	1	1	1	1	0
A	1	0	1	1	0	0	0	1	1	1	0	0	1	1	0
▼	1	0	1	1	0	1	0	1	1	1	0	0	1	1	0
▲	1	0	1	1	0	0	0	0	0	1	0	1	0	1	0
>	1	0	1	1	0	1	1	1	1	0	0	1	0	1	0
GAMMA	1	0	1	1	0	0	0	0	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	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	0	1	1	0	1	1	0	0	1	0
INPUT 3	1	0	1	1	0	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

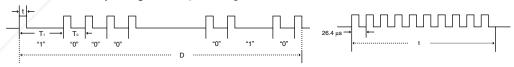
- System codes C1 to C5 are fixed at "10110".
- Codes C14 and C15 are reverse confirmation bits, with "10" indicating "Front" and "01" indicating "Rear".

Sharp remote control signal format

Transmission format: 15-bit format



Wave form of output signal: Output using Pulse Position Modulation



- $t = 264 \mu s$
- Pulse carrier frequency = 455/12 kHz
- T₀ = 1.05 msT₁ = 2.10 ms
- Duty ratio = 1:1

• 11 = 2.10 ms

FixYotransmission control code

15 bitmsored by []M

Example of Reverse D to \overline{D}

D C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15

1 0 1 1 0 0 1 0 0 0 0 0 0 1 0

C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15

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	Resolution		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 × 350	31.5	70			
			27.0	60			
		640 × 400	31.5	70			
			37.9	85	~		
			27.0	60			
		720 × 400	31.5	70			
	VGA		37.9	85	~		
	VGA		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		Орзсаю	
			61.8	120			
			78.5	150			
			80.9	160			
			100.4	200			
PC			31.4	50			
FC			35.1	56	~		
	SVGA		37.9	60			
			44.5	70			
		800 × 600	48.1	72	~		
			46.9	75	/		
		000 / 000	53.7	85	~		
			56.8	90			
			64.0	100		1	
			77.2	120			
			98.3	150			
			102.1	160			
			125.6	200			
			35.5	43			
			40.3	50			
			48.4	60	<i>\</i>		
			56.5	70	~		
	V 0 4		58.1	72			
	XGA	$1,024 \times 768$	60.0	75	<i>V</i>	True	
			68.7	85	~		
			73.5	90			
			77.2	96			
			80.6	100			
			98.8	120			
100			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			
		$1,152 \times 864$		75		1	
			75.7	80	•	1	
			77.3	85			
			90.2	100			
	SXGA		54.8	60			
	Onan	$1,152 \times 882$	65.9	72			
			67.4	74			
			64.0	60	~	l	
		4 000	74.6	70		Advanced Intelligent	
PC		1,280	78.1	74		Compression	
		1,024	80.0	75	~	Compression	
		1,024	91.1	85	~		
			108.4	100			
	SXGA+	SXGA+ 1,400 ×1,050		60			
/	UXGA	\ \ \	74.7	52			
			75.0	60	~	1	
		1,600	81.3	65	~		
		1,200	87.5	70	~	1	
			90.1	72		Intelligent Compression	
			93.8	75	~	Compression	
			106.3	85	~	1	
PC/ MAC 13"	VGA	640 × 480	34.9	67		Upscale	
PC/	VCA	1 004 700	48.4	60	~	_	
MAC 19"	XGA	$1,024 \times 768$	60.0	75	~	True	
PC/ MAC 21"	SXGA	1,280×1,024	80.0	75	V	Advanced Intelligent Compression	
MAC	0)/04	800 × 600	46.8	75		Universalia	
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)		1 200 × 000	60.0	60	~	Advance	
WS	00/04	$1,280 \times 960$	85.9	85		Advanced Intelligent	
SGI (WS)	SXGA	1,280×1,024	53.5	50		Compression	
odi (vvo)		1,200×1,024	76.8	72			
OLINI (IAIO)		1 150 000	60.9	66			
SUN (WS)		$1,152 \times 900$	71.9	76			

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



- 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.

ourDLP.com

Signa	l 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	7 7 9 50
720P	45.0	60
1035	33.8	60
1080	33.8	60
1080	28.1	50

OM (800) 281-88 OR LAMPS AND ACCESSORIE

Troubleshooting

Problem	Check	Page
	Projector power cord is not plugged into the wall outlet.	17
	Power to the external connected devices is off.	
	The selected input mode is wrong.	35
	Cables incorrectly connected to rear panel of the projector.	18
No picture and no sound or projector does not start.	Remote control batteries have run out.	13
	External output has not been set when connecting notebook computer.	18
	The cover of the lamp unit is not installed correctly.	87
	Cables incorrectly connected to the rear panel of the projector.	18
?	"Bright" is set to minimum position.	46
Sound is heard but no picture appears.		
	Picture adjustments are incorrectly set.	46
	(Video Input only) • Video input system is incorrectly set. (INPUT 1 and 2 only)	66
(6.50 C. 20 C. 20)	Input signal type (RGB/Component) is incorrectly set.	46
Color is faded or poor.		
	Adjust the focus.	28
	The projection distance exceeds the focus range.	29
Picture is blurred;	(Computer Input only) • Perform "Fine Sync" Adjustments ("Clock" Adjustment) • Perform "Fine Sync" Adjustments ("Phase" Adjustment) • Noise will appear depending on the computer.	48 48 —
noise appears.	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 B 1 -

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

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



SCOUNT-Merchant.com (800) 281-8 2850 THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

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.

l	J.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.
ľ	Mexico	Sharp Electronics Corporation Mexico Branch		1300-135-022 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
L	atin America	Sharp Electronics Corp. Latin American Group (305) 264-2277 www.servicio@sharpsec.com http://www.siempresharp.com	Singapore	Sharp-Roxy Sales (S) Pte. Ltd. 65-226-6556 ckng@srs.global.sharp.co.jp http://www.sharp.com.sg
(Germany	Sharp Electronics (Europe) GMBH 01805-234675 http://www.sharp.de	Hong Kong	Sharp-Roxy (HK) Ltd. (852) 2410-2623 dcmktg@srh.global.sharp.co.jp
				http://www.sharp.com.hk
•	J.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
ı	taly	Sharp Electronics (Italy) S.P.A. (39) 02-89595-1 http://www.sharp.it	U.A.E.	Sharp Middle East Fze 971-4-81-5311 helpdesk@smef.global.sharp.co.jp
F	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	Korea	Sharn Electronics Incorporated of
9	Spain	Sharp Electronica Espana, S.A. 93 5819700	Korea	Sharp Electronics Incorporated of Korea (82) 2-3660-2002
		sharplcd@sees.sharp-eu.com http://www.sharp.es		webmaster@sharp-korea.co.kr http://www.sharp-korea.co.kr
5	Switzerland	Sharp Electronics (Schweiz) AG 0041 1 846 63 11	India	Sharp Business Systems (India) Limited
Οl	urDLP.com Sponsored by DM	cattaneo@sez.sharp-eu.com http://www.sharp.ch		(91) 11- 6431313 service@sharp-oa.com
	Sweden	violetinoapport o comonarp carcom	om ((800) 281-8860
9.1	IDUCTED	http://www.sharp.se	IAD LAMI	DC AND ACCECCADIEC

PROJECTOR LAMPS AND ACCESSORIES

Specifications

Product type LCD Projector Model XG-C50X Video system 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 LCD panel Panel size: 0.99" (25.1 mm) (15 [H] × 20 [W] mm) No. of dots: 786,432 dots $(1,024 [H] \times 768 [V])$ Standard lens $1-1.27 \times \text{zoom lens}$, F1.7-2.2, f = 36.5-46.3 mm Projection lamp AC 250 W lamp Component input signal 15-pin mini D-sub connector (INPUT1/2) Y: 1.0 Vp-p, sync negative, 75 Ω terminated $P_{\text{B}}\text{: }0.7\text{ Vp-p, }75\ \Omega$ terminated P_R : 0.7 Vp-p, 75 Ω terminated Horizontal resolution 750 TV lines (DTV720P) Computer RGB input signal 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 (INPUT 3) terminated S-video input signal 4-pin Mini DIN connector (INPUT 4) 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) 9-pin mini DIN connector Pixel clock 12-230 MHz Vertical frequency 43-200 Hz* Horizontal frequency 15-126 kHz Audio input signal $\varnothing 3.5$ mm minijack: AUDIO, 0.5 Vrms, more than 47 k Ω (stereo) Audio output 3.0 W (monaural) Speaker system $4 \text{ cm} \times 7 \text{ cm}$ Rated voltage AC 100-240 V Input current 3.4 A Rated frequency 50/60 Hz Power consumption (normal) 340 W (Standard mode)/290 W (Low power mode) Power consumption (standby) About 0.8 W (When "Mntr.out/RS232" is set to "OFF") Heat dissipation 1,280 BTU/hour Operating temperature 41°F to 104°F (+5°C to +40°C) Storage temperature -4°F to 140°F (-20°C to +60°C) Cabinet Plastic I/R carrier frequency 38 kHz Dimensions (approx.) 15 %" × 3 %" × 11 %" (390 (W) × 99.0 (H) × 294 (D) mm) (main body only) 15 $\frac{1}{2}$ " \times 4 $\frac{7}{16}$ " \times 11 $\frac{5}{8}$ " (393 (W) \times 114.0 (H) \times 303.2 (D) mm) (including adjustment foot and projecting parts) Weight (approx.) 11.3 lbs. (5.1 kg)

Supplied accessories 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 adaptor (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

FixYourDLP.com

Lamp unit (Lamp/cage module) (BQC-XGC50X//1), Remote control (RRMCGA029WJSA), 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

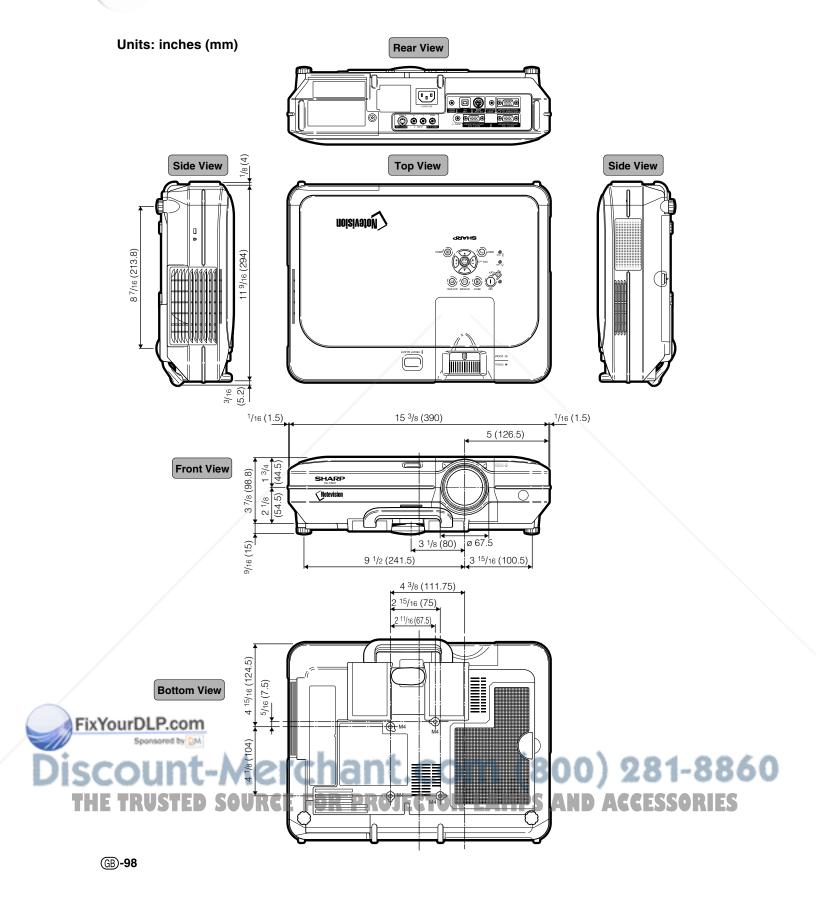
Temporary noise may be visible with vertical frequencies above 100Hz if OSD functions are activated.

This SHARP projector uses a LCD (Liquid Crystal Display) panel. This very sophisticated panel contains 786,432 pixels (× 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.

Specifications are subject to change without notice.

Dimensions



Glossary

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 ▲, ▼ 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 nicher 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.

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.

THE Keylock Teve) SOURCE FOR PROJECTOR LAMPS AND ACCESSORII

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

Index

2D Progressive	47 47
AC socket Adjusting Computer Images Adjusting the Lens Adjusting the Picture Adjustment buttons Adjustment feet Air filter All Reset Anti-Theft Aspect ratio AUDIO input 1, 2 terminal AUDIO (L/R) input 3, 4 terminals AUDIO OUTPUT terminal Auto Power off Auto Search Auto Sync adjustment AUTO SYNC button Auto Sync Disp	48 46 42 27 81 77 75 52 18 20 22 70 64 50 50
BACK button Background Batteries BLACK SCREEN button BORDER BREAK TIMER button	. 68 . 13 . 58 . 53
Carrying handle	32 61 48 46 60
Digital Shift Setting DIN-D-sub RS-232C adaptor DNR DOT BY DOT	23
ENLARGE buttons	42
FAO	47 48 28 25 54

GAMMA button	56
HEIGHT ADJUST button	61
Image Capture INPUT 1 terminal INPUT 1 – 4 modes INPUT 2 terminal INPUT 3 terminal INPUT 4 terminal INPUT button Intake vent	18 35 18 20 20 34
Kensington Security Standard connector Keylock level KEYSTONE button Keystone correction	71 38 38
Lamp	70 83 10 61
MENU button	
NORMAL	52
Optional cables	14 65 69
Password	9 48 57 57 34 17 34 69 71 47
Remote control Remote control sensor Replacing the lamp RESIZE button Reversing/Inverting Projected Images RGB cable RS-232C terminal	13 85 52 71 18



Save Setting	. 49 . 36
Signal TypeSMART STRETCH	. 46 . 53
Speaker	. 49
Startup image	. 68
STRETCH	
Target Temperature warning indicator	
UNDO button	. 25
VAO	66
WIRED R/C JACKWIRED REMOTE control input terminal	. 26
Zoom knoh	28



SCOUNT-Merchant.com (800) 281-8 THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

SHARP SHARP CORPORATION



This user manual is provided as a free service by FixYourDLP.com. FixYourDLP is in no way responsible for the content of this manual, nor do we guarantee its accuracy. FixYourDLP does not make any claim of copyright and all copyrights remain the property of their respective owners.

About FixYourDLP.com

FixYourDLP.com (http://www.fixyourdlp.com) is the World's #1 resource for media product news, reviews, do-it-yourself guides, and manuals.

Informational Blog: http://www.fixyourdlp.com Video Guides: http://www.fixyourdlp.com/guides User Forums: http://www.fixyourdlp.com/forum

FixYourDLP's Fight Against Counterfeit Lamps: http://www.fixyourdlp.com/counterfeits

Sponsors:

RecycleYourLamp.org – Free lamp recycling services for used lamps: http://www.recycleyourlamp.org

Lamp Research - The trusted 3rd party lamp research company: http://www.lampresearch.com

Discount-Merchant.com – The worlds largest lamp distributor: http://www.discount-merchant.com

