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SHARP

DATA PROJECTOR

MODEL

PG-F212X-L

OPERATION MANUAL







Merchant.com (800) 281-886

PROJECTOR LAMPS AND ACCESSORIES

IMPORTANT

- For your assistance in reporting the loss or theft of your Projector, please record the Model and Serial Number located on the bottom of the projector and retain this information.
- Before recycling the packaging, please ensure that you have checked the contents of the carton thoroughly against the list of "Supplied accessories" on page 10.

Model No.:

Serial No.:



SPECIAL NOTE FOR USERS IN THE U.K.

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

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

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

DANGER:

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

Under no circumstances should the cut-off plug be inserted elsewhere into a 13A socket outlet, as a serious electric shock may occur.

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

WARNING:

THIS APPARATUS MUST BE EARTHED.

IMPORTANT:

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

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

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

- The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol \(\frac{1}{2}\) or coloured green or green-and-yellow.
- The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
- The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF YOU HAVE ANY DOUBT, CONSULT A QUALIFIED ELECTRICIAN.



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

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

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

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

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

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

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

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

附送之CD-ROM光碟中,有用英文、德文、法文、西班牙文、意大利文、荷蘭文、瑞典文、葡萄牙文和中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。



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

Introduction

ENGLISH

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

1. WARRANTY

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

2. CONSUMER PRODUCT SAFETY ACT

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



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

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

See bottom of projector.



CAUTION

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





CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS EXCEPT LAMP UNIT.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



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



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

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

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INFORMATION

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

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

U.S.A. ONLY

WARNING:

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

PRODUCT DISPOSAL

This product utilizes tin-lead solder, and lamp containing a small amount of mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities, the Electronics Industries Alliance: www.eiae.org, the lamp recycling organization www.lamprecycle.org, or Sharp at 1-800-BE-SHARP.

Caution Concerning Lamp Replacement

See "Replacing the Lamp" on page 52.

This SHARP projector uses a DLP® chip. This very sophisticated panel contains 786,432 pixels (micromirrors). As with any high technology electronic equipment such as large screen TVs, video systems and video cameras, there are certain acceptable tolerances that the equipment must conform to.

This unit has some inactive pixels within acceptable tolerances which may result in inactive dots on the picture screen. This will not affect the picture quality or the life expectancy of the unit.

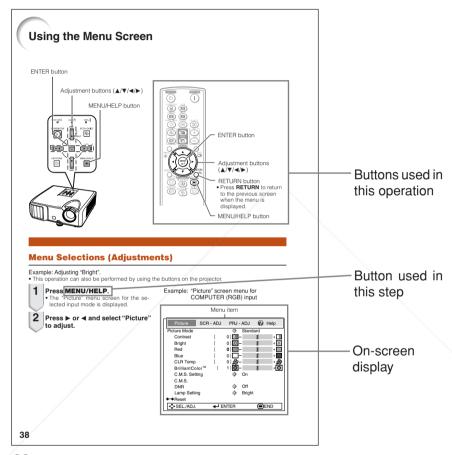
Sponsored by DM

Authorized representative responsible for the European Union Community Market

Sharp electronics (Europe) GmbH ROJECTOR LAMPS AND ACCESSORIES Sonninstraße 3, D-20097 Hamburg

How to Read this Operation Manual

- The specifications are slightly different, depending on the model. However, you can connect and operate all models in the same manner.
- In this operation manual, the illustration and the screen display are simplified for explanation, and may differ slightly from the actual display.



Info XYourDLP.com

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

For Future Reference

Maintenance

Troubleshooting

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IMPORTANT SAFEGUARDS

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

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

1. Read Instructions

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

2. Retain Instructions

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

3. Heed Warnings

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

4. Follow Instructions

All operating and use instructions should be followed.

5. Cleaning

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

6. Attachments

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

7. Water and Moisture

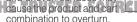
Do not use this product near water-for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.

8. Accessories

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

9. Transportation

FixAo product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may





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 dariage to the product due to lightning and power-line surges.

15. Overloading

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

16. Object and Liquid Entry

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

17. Servicing

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

18. Damage Requiring Service

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

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

19. Replacement Parts

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

20. Safety Check

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

21. Wall or Ceiling Mounting

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

22. Heat

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

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- 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 FiUnited Statesm
- Adobe Reader is a trademark of Adobe Systems Incorporated.
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- Some IC chips in this product include confidential and/or trade secret property belonging to Texas Instruments. Therefore you may not copy, modify, adapt, translate, distribute, reverse engineer, reverse assemble or discompile the contents thereof.

Observe the following safeguards when setting up your projector.

Caution concerning the lamp unit

Potential hazard of glass particles if lamp ruptures. In case of lamp rupture, contact your nearest Sharp Authorized Projector Dealer or Service Center for replacement. See "Regarding the Lamp" on page **52**.



Caution concerning the setup of the projector

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

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

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

Caution regarding placing of the projector

■ Place the projector on a level site within the adjustment range (9 degrees) of the adjustment foot.



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

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

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

Warning about placing the projector in a high position

■ When placing the projector in a high position. make certain it is carefully secure to avoid personal injury caused by the projector falling down.

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

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

Rest your eyes occasionally.

■ Continuously watching the screen for long hours will cause eye strain. Take regular breaks to rest your eyes.

Avoid locations with extremes of temperature.

- The operating temperature of the projector is from 41°F to 95°F (+5°C to +35°C).
- The storage temperature of the projector is from $-4^{\circ}F$ to $140^{\circ}F$ ($-20^{\circ}C$ to $+60^{\circ}C$).

Do not block the exhaust and intake vents.

- Allow at least 11 ¹³/₁₆ inches (30 cm) of space between the exhaust vent and the nearest wall or obstruction.
- Ensure that the intake vent and the exhaust vent are not obstructed.
- If the cooling fan becomes obstructed, a protection circuit will automatically put the proiector into standby mode to prevent overheat damage. This does not indicate a malfunc-
- TRUSTED SOURCE FOR PROJECTtion. (See pages 50 and 51.) Remove the projector power cord from the wall outlet and wait at least 10 minutes. Place the projector where the intake and exhaust vents are not blocked. plug the power cord back in and turn on the projector. This will return the projector to the normal operating condition.

Caution regarding usage of the projector

- If you are not to use the projector for a long time or before moving the projector, make certain you unplug the power cord from the wall outlet, and disconnect any other cables connected to it.
- If the power cord is unplugged while the cooling fan is running, some parts of the projector may still be hot. Use caution when handling the projector.
- Do not carry the projector by holding the lens.
- When storing the projector, ensure you attach the lens cap to the projector. (See page 11.)
- Do not expose the projector to direct sunlight or place next to heat sources. Doing so may affect the cabinet color or cause deformation of the plastic cover.

Other connected equipment

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

Using the projector in other countries

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

Temperature monitor function



TEMP.

If the projector starts to overheat due to setup problems or blockage of the air vents, " and " TEMP." will illuminate in the lower left corner of the picture. If the temperature continues to rise, the lamp will turn off, the temperature warning indicator on the projector will blink, and after a 60-second cooling-off period the projector will enter standby mode. Refer to "Maintenance Indicators" on page 50 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.

How to Access the PDF Operation Manuals

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

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

Accessing the PDF Manuals for Windows® (For Macintosh®, skip step (2)).

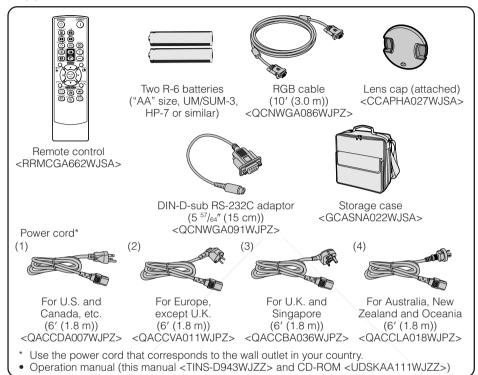
- Fixer the CD-ROM in the CD-ROM drive.
- Double click the "My Computer" icon.
- 3 Double click the "CD-ROM" drive.
- 4 Double click the "MANUALS" folder.
- ⑥ Double click the language (name of the folder) that you want to view.
- O Double click the pdf file to access the projector manuals.
- Double click the model (name of the folder) **ECTOR LAMPS AND ACCESSORIES** that you want to view.

Note

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

Accessories

Supplied accessories





Codes in "< >" are Replacement parts codes.

3 RCA to mini D-sub 15 pin cable (10

Optional accessories

■ Lamp unit

■ Ceiling-mount adaptor

■ Ceiling-mount unit

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AN-F212LP

AN-60KT

AN-XRCM30 (for U.S.A. only)

AN-TK201 <for AN-60KT>

AN-TK202 < for AN-60KT>

AN-EP101B < for AN-XRCM30>

(for U.S.A. only)

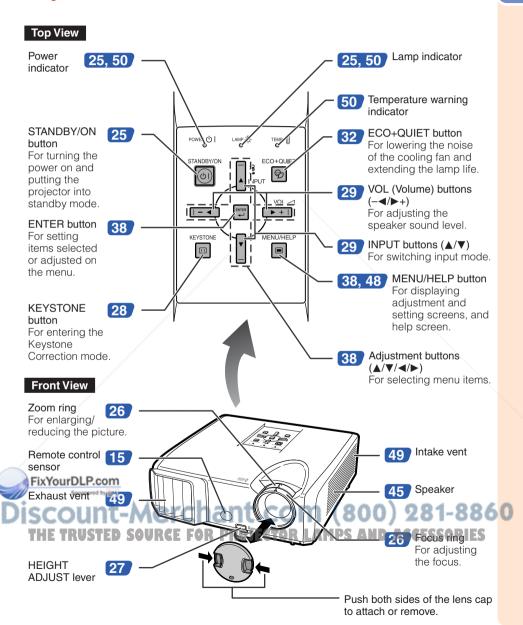
AN-MR2

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

Part Names and Functions

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

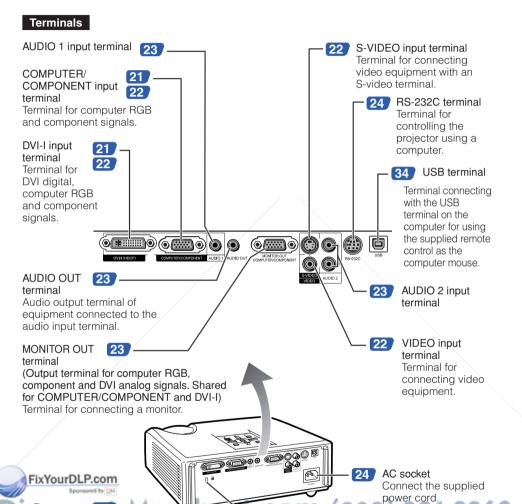
Projector



Part Names and Functions (Continued)

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

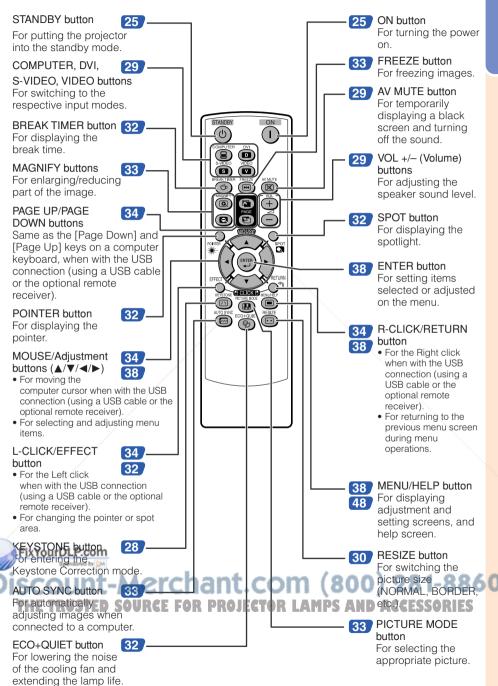
Rear View



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.

Kensington Security RUS Standard connector



Part Names and Functions (Continued)

Inserting the Batteries

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



Insert the batteries.

• Insert the batteries making sure the polarities correctly match the \oplus and \bigcirc 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

- Danger of explosion if battery is incorrectly replaced.
- Replace only with alkaline or manganese batteries.
- Insert the batteries making sure the polarities correctly match the \oplus and \ominus marks inside the battery

- Fix COMPTIPES IN BATTERIES OF DIFFERENT STATES AND ASSESSED FOR THE STATES OF DIFFERENT STATES OF DIFFEREN
- Do not mix new and old batteries.
- This may shorten the life of new batteries or may cause old batteries to leak Remove the batteries from the remote control once they have run out, as leaving them in

to leak Battery fluid from leaked batteries is harmful to skin, therefore ensure you wipe them first them using a cloth.

- The batteries included with this projector may run down in a short period, depending on how they are kept. Be sure to replace them as soon as possible with new batteries.
- Remove the batteries from the remote control if you will not be using the remote control for a long time.
- Comply with the rules (ordinance) of each local government when disposing of worn-out batteries.

Usable Range

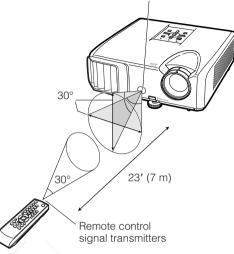
The remote control can be used to control the projector within the ranges shown in the illustration.



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

When using the remote control

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



Remote control sensor

Remote control

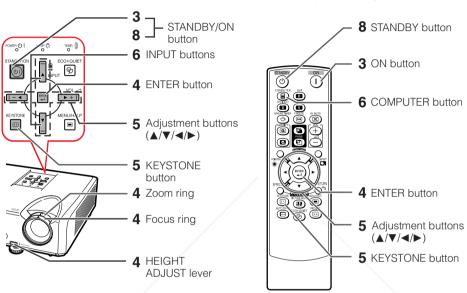


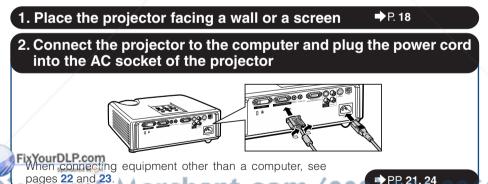
Quick Start

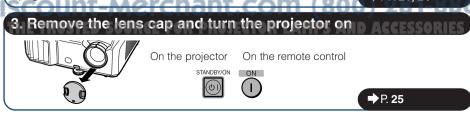
This section shows the basic operation (projector connecting with the computer). For details, see the page described below for each step.

Setup and Projection

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







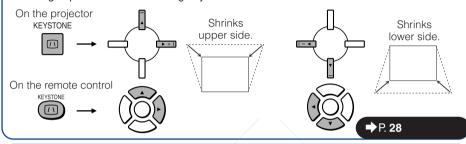
4. Adjust the projected image with the Setup Guide

- **1** After the projector turns on, the Setup Guide appears. (When "Setup Guide" is set to "On". See page 44.)
- **2** Follow the steps in the Setup Guide and adjust the focus, height (angle) and picture size.
- 3 After adjusting the focus, height (angle) and picture size, press ENTER to finish the Setup Guide.

⇒PP. 26, 27

5. Correct trapezoidal distortion

Correcting trapezoidal distortion using Keystone Correction.



6. Select the INPUT mode

Select the "COMPUTER" using INPUT on the projector or COMPUTER on the remote control.

On the On the remote projector control





INPUT list



D DVI-D Computer D DVI-D Video

On-screen display (RGB)



• When you press **INPUT** on the projector, the INPUT list appears. Press ▲/▼ to switch the INPUT mode.

₽ P. 29

7. Turn the computer on

8. Turn the power off

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

On the On the remote





On-screen display

Enter STANDBY mode?

Yes: Press Again No : Please Wait

₱P. 25

Setting up the Projector

Setting up the Projector

For optimal image quality, position the projector perpendicular to the screen with the projector's feet flat and level. Doing so will eliminate the need for Keystone correction and provide the best image quality. (See page 28.)

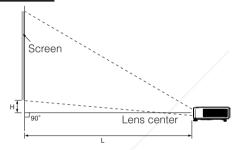
Standard Setup (Front Projection)

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



Example of standard setup

Side View





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

Ceiling-mount Setup

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

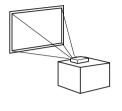


(800) 2 1 3 0

Projection (PRJ) Mode

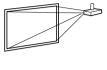
The projector can use any of the 4 projection modes shown in the diagram below. Select the mode most appropriate for the projection setting in use. (You can set the PRJ mode in "SCR-ADJ" menu. See page 44.)

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



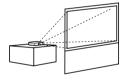


■ Ceiling mounted, front projection [Menu item → "Ceiling + Front"]



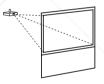
■ Table mounted, rear projection (with a translucent screen)

[Menu item → "Rear"]





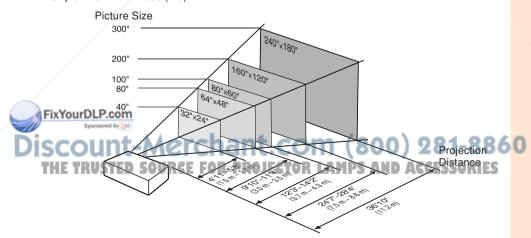
■ Ceiling mounted, rear projection (with a translucent screen) [Menu item → "Ceiling + Rear"]





Indication of the Projection Image Size and Projection Distance

Example: NORMAL Mode (4:3)



Setting up the Projector (Continued)

Screen Size and Projection Distance

NORMAL Mode (4:3)

Pic	Picture (Screen) size		Projection of	distance [L]	Distance from the lens center
Diag. [χ]	Width	Height	Minimum [L1]	Maximum [L2]	to the bottom of the image [H]
300" (762 cm)	610 cm (240")	457 cm (180")	11.2 m (36' 10")	-	19 cm (7 ⁹ / ₁₆ ")
250" (635 cm)	508 cm (200")	381 cm (150")	9.4 m (30′ 9″)	10.8 m (35' 5")	16 cm (6 ¹⁹ / ₆₄ ")
200" (508 cm)	406 cm (160")	305 cm (120")	7.5 m (24' 7")	8.6 m (28' 4")	13 cm (5 ³ / ₆₄ ")
150" (381 cm)	305 cm (120")	229 cm (90")	5.6 m (18' 5")	6.5 m (21' 3")	10 cm (3 ²⁵ / ₃₂ ")
120" (305 cm)	244 cm (96")	183 cm (72")	4.5 m (14' 9")	5.2 m (17′ 0″)	8 cm (3 ¹ / ₃₂ ")
100" (254 cm)	203 cm (80")	152 cm (60")	3.7 m (12' 3")	4.3 m (14' 2")	6 cm (2 ³³ / ₆₄ ")
80" (203 cm)	163 cm (64")	122 cm (48")	3.0 m (9' 10")	3.5 m (11' 4")	5 cm (2 ¹ / ₆₄ ")
70" (178 cm)	142 cm (56")	107 cm (42")	2.6 m (8' 7")	3.0 m (9' 11")	4 cm (1 ⁴⁹ / ₆₄ ")
60" (152 cm)	122 cm (48")	91 cm (36")	2.2 m (7' 4")	2.6 m (8' 6")	4 cm (1 ³³ / ₆₄ ")
40" (102 cm)	81 cm (32")	61 cm (24")	1.5 m (4' 11")	1.7 m (5′ 8″)	3 cm (1 ¹ / ₆₄ ")

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

The formula for picture size and projection distance

[m/cm] [Feet/inches]
L1 (m) = 0.03745χ L1 (ft) = 0.03745χ / 0.3048

L2 (m) = 0.04323χ L2 (ft) = 0.04323χ / 0.3048 H (cm) = 0.064χ / 2.54

STRETCH Mode (16:9)

Picture (Screen) size		Projection distance [L]		Distance from the lens center to	Adjustable range of	
Diag. [χ]	Width	Height	Minimum [L1]	Maximum [L2]	the bottom of the image [H]	image position [S]
250" (635 cm)	553 cm (218")	311 cm (123")	10.2 m (33' 6")	11.8 m (38′ 8″)	69 cm (27 ¹⁹ / ₆₄ ")	$\pm52~{\rm cm}~(\pm20^{~27}\!/_{64}\!'')$
200" (508 cm)	443 cm (174")	249 cm (98")	8.2 m (26' 9")	9.4 m (30′ 11″)	55 cm (21 ⁵³ / ₆₄ ")	±42 cm ($\pm16^{11}/_{32}{}'')$
150" (381 cm)	332 cm (131")	187 cm (74")	6.1 m (20' 1")	7.1 m (23' 2")	42 cm (16 ³ /8")	\pm 31 cm (\pm 12 $^{1}/_{4}$ ")
120" (305 cm)	266 cm (105")	149 cm (59")	4.9 m (16' 1")	5.7 m (18' 7")	33 cm (13 ³ / ₃₂ ")	±25 cm (±9 $^{13}/_{16}{''})$
100" (254 cm)	221 cm (87")	125 cm (49")	4.1 m (13' 5")	4.7 m (15′ 5″)	28 cm (10 ⁵⁹ / ₆₄ ")	± 21 cm ($\pm 8^{11}/64''$)
80" (203 cm)	177 cm (70")	100 cm (39")	3.3 m (10' 9")	3.8 m (12' 4")	22 cm (8 ⁴⁷ / ₆₄ ")	±17 cm ($\pm6^{17}/_{32}{}'')$
60" (152 cm)	133 cm (52")	75 cm (29")	2.4 m (8' 0")	2.8 m (9' 3")	17 cm (6 35/64")	\pm 12 cm (\pm 4 ²⁹ / ₃₂ ")
40" (102 cm)	89 cm (35")	50 cm (20")	1.6 m (5' 4")	1.9 m (6' 2")	11 cm (4 ²³ / ₆₄ ")	\pm 8 cm (\pm 3 ¹⁷ / ₆₄ ")

- X: Picture size (diag.) (in/cm)
- L: Projection distance (m/ft)
- L1: Minimum projection distance (m/ft)
- L2: Maximum projection distance (m/ft)
- H: Distance from the lens center to the bottom of the image (cm/in)
- S: Adjustable range of image position (cm/in) See page 43.

The formula for picture size and projection distance

[m/cm] [Feet/inches] L1 (m) = 0.0408x L1 (ft) = 0.0408x / 0.3048

 $L2 (m) = 0.0400 \chi$ $L2 (m) = 0.0471 \chi$ $L2 (ft) = 0.0471 \chi / 0.3048$

 $H (cm) = 0.27727\chi$ $H (in) = 0.27727\chi / 2.54$ $S (cm) = \pm 0.20754\chi$ $S (in) = \pm 0.20754\chi / 2.54$

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 Refer to page 19 concerning "Projection distance [L]" and "Distance from the lens center to the bottom of the image [H]".

• Allow a margin of error in the values in the diagrams above.

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Connecting the Projector to Other Equipment

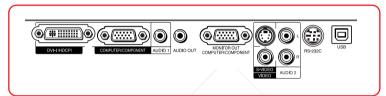
Before connecting, ensure that the power cord of the projector is unplugged from the AC outlet and turn off the equipment to be connected. After making all connections, turn on the projector and then the other pieces of equipment. When connecting a computer, ensure that it is the last equipment to be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

IMPORTANT:

Ensure that the appropriate input mode has been selected on the projector before you turn on the connected equipment.

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

Terminals on the Projector



Equipment	Terminal on connected equipment	Cable	Terminal on the projector
Computer	RGB output terminal	RGB cable (supplied)	COMPUTER/ COMPONENT
	RGB output terminal	mini D-sub 15 pin to DVI cable (commercially available)	DVI-I
	DVI digital output terminal	DVI Digital cable (commercially available)	DVIA (ISDCP)

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Note

- See page 63 "Computer Compatibility Chart" for a list of computer signals compatible with the projector. Use with computer signals other than those listed may cause some of the functions to not work.
- A Macintosh adaptor may be required for use with some Macintosh computers. Contact your nearest Macintosh Dealer.
- Depending on the computer you are using, an image may not be projected unless the
 computer's external output port is switched on (e.g. Press "Fn" and "F5" keys simultaneously
 when using a SHARP notebook computer). Refer to the specific instructions in your computer's
 operation manual to enable your computer's external output port.

Connecting the Projector to Other Equipment (Continued)

Equipment	Terminal on connected equipment	Cable	Terminal on the projector
Video equipment	HDMI output terminal	HDMI to DVI cable (commercially available)	DVI-I
••	DVI digital output terminal	DVI Digital cable (commercially available)	ON-I HISOON
	Component video output terminal	3 RCA to mini D-sub 15 pin cable (optional, AN-C3CP2)	COMPUTER/ COMPONENT
	S-video output terminal	S-video cable (commercially available)	S-VIDEO
	Video output terminal	Video cable (commercially available)	VIDEO
Camera/Video game	Component video output terminal	Cables for a camera or a video game/3 RCA to mini D-sub 15 pin cable (optional, AN-C3CP2) RCA adaptor plug (commercially available)	COMPUTER/ COMPONENT
	S-video output terminal	Cables for a camera or a video game	S-VIDEO
	Video output terminal	Cables for a camera or a video game	VIDEO



- While the projector is connected to video equipment that has an HDMI output terminal, only the video signal can be input to the projector. (Connect the AUDIO input terminal for audio input.)
- Depending on specifications of video equipment or HDMI to DVI digital cable, the signal transmission
 may not work property. (The HDMI specification does not support all connections to video equipment
 that has HDMI digital output terminal using HDMI to DVI digital cable.)
- For details on compatibility for connection, see support information on DVI connection provided by the video equipment manufacturer.
- When you connect video equipment with a 21-pin RGB output (Euro-scart) to the projector, use a commercially available cable that fits in the projector terminal you want to connect.
- The projector does not support RGBC signals via the Euro-scart.

Equipment	Terminal on connected equipment	Cable	Terminal on the projector
Audio equipment	ø3.5 mm audio output terminal	ø3.5 mm stereo or mono audio cable (commercially available or available as Sharp service part QCNWGA038WJPZ)	AUDIO 1
	RCA audio output terminal	RCA audio cable (commercially available)	AUDIO 2
	Audio output terminal	Cables for a camera or a video game	AUDIO 2
Monitor	RGB input terminal	RGB cable (supplied or commercially available)	MONITOR OUT WONTOR OUT COMPTIENCOMPONENT
Amplifier	ø3.5 mm audio input terminal	ø3.5 mm stereo or mono audio cable (commercially available or available as Sharp service part QCNWGA038WJPZ)	AUDIO OUT
	RCA audio input terminal	ø3.5 mm stereo minijack to RCA audio cable (commercially available)	AUDIO OUT



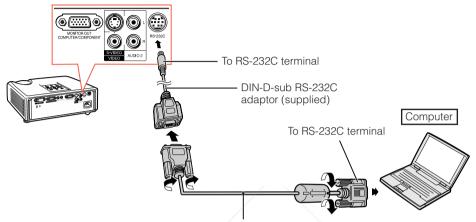
- When using the ø3.5 mm mono audio cable, the volume level will be half of when using the ø3.5 mm stereo audio cable.
- You can select "Audio 1" or "Audio 2" for "Audio Input" in the "PRJ-ADJ" menu. (See page 46.)
- RGB signals and Component signals can be output to the monitor.



Controlling the Projector by a Computer

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

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



RS-232C serial control cable (cross type, commercially available)



- 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 57 for connection of an RS-232C serial control cable.



Info

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

Connecting the Power Cord

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

Then pluginto AC outletz FOR PROJEC



To AC outlet

Turning the Projector On/Off

Turning the Projector on

Note that the connections to external equipment and power outlet should be done before performing the operations written below. (See pages 21 to 24.)

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

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



About the Lamp Indicator

The lamp indicator illuminates to indicate the status of the lamp.

Green: The lamp is on.

Blinking in green: The lamp is warming up.
Red: The lamp is shut down abnormally
or the lamp should be replaced.

- When switching on the projector, a slight flickering of the image may be experienced within the first minute after the lamp has been illuminated. This is normal operation as the lamp's control circuitry is stabilising the lamp output characteristics. It should not be regarded as faulty operation.
- If the projector is put into standby mode and immediately turned on again, the lamp may take some time to start projection.
- When System Lock is set, the keycode input box appears. To cancel the keycode setting, input the keycode that you have already set. See page 46 for details.

Turning LittenPower off (Putting the Projector into Standby Mode)

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

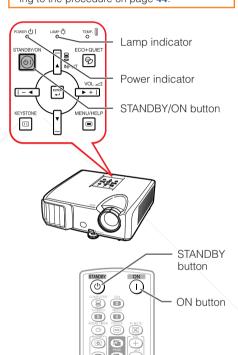
The projector cannot be turned on while cooling.

📗 Info

• When "Auto Restart" is set to "On":

If the power cord is unplugged from the outlet or the breaker switch is turned off when the projector is on, then the projector automatically turns on when the power cord is plugged into the AC outlet or the breaker switch is turned on. (See page 45.)

English is the factory default language. If you want to change the on-screen display to another language, change the language according to the procedure on page 44.



On-screen display (confirmation message)



Enter STANDBY mode?

Yes: Press Again

No: Please Wait



• Direct Power Off function:

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

Image Projection

About the Setup Guide

After turning on the projector, the Setup Guide screen appears to assist you with projector setup.

Guidance items

- 1 FOCUS
- 2 HEIGHT ADJUST
- 3 ZOOM

Press **ENTER** to exit the Setup Guide screen.



• The Setup Guide screen automatically highlights the items in the following order:

However, you can adjust the focus, height (angle), or zoom regardless of the highlighted item.

• If you do not want to display the Setup Guide for the next time, set "Menu" - "SCR - ADJ" - "Setup Guide" to "Off". (See page 44.)

Adjusting the Projected Image

1 Adjusting the Focus

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

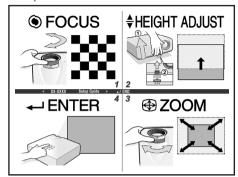
Rotate the focus ring to adjust the focus while watching the projected image.

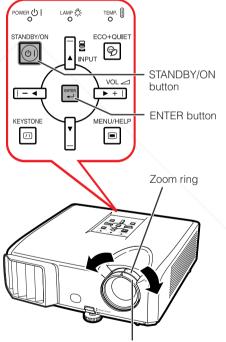
ZACTUS time the Picture Size

You can adjust the picture size using Focus ring the zoom ring on the projector.

Rotate the zoom ring to enlarge or JECTOR LAMPS AND ACCESSORIES shrink the picture size.

Setup Guide screen



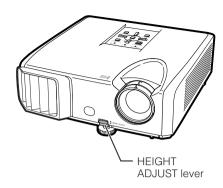


3 Adjusting the Height

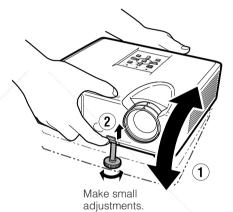
The height of the projector can be adjusted using the adjustment feet at the front and rear of the projector.

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

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



- Remove your hands from the **HEIGHT ADJUST lever of the pro**jector after its height has been finely adjusted.
 - The angle of projection is adjustable up to 9 degrees from the surface on which the projector is placed.



- Use the rear adjustment foot to make the projector level.
 - The projector is adjustable ±2 degrees from the standard position.



 When adjusting the height of the projector, trapezoidal distortion occurs. Follow the procedures in Keystone Correction to correct the distortion. (See pages 28 and 43.)

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Info

 Do not apply too much pressure on the projector when the front adjustment foot comes ECTOR LAMPS AND ACCESSORIES

- When lowering the projector, be careful not to get your fingers caught in the area between the adjustment foot and the projector.
- Hold the projector firmly while lifting or carrying.
- Do not hold by the lens area.



(800) 281-8860

Image Projection (Continued)

Correcting Trapezoidal Distortion

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



 The Keystone Correction can be adjusted up to an angle of approximately ±40 degrees and the screen can also be set up to an angle of approximately ±40 degrees (when the resize mode is set to "NORMAL" (see page 30)).

1 Press **KEYSTONE** to enter the Keystone Correction mode.

 You can also display the on-screen display of the Keystone Correction mode with KEYSTONE on the projector.

Press **▲/**▶ or **◄/**▼ to adjust the Keystone Correction.

 You can also adjust the Keystone Correction using the adjustment buttons on the projector.

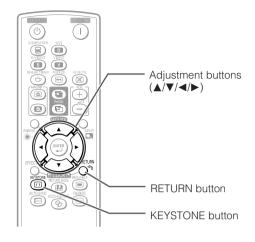


 To return to the default setting, press RETURN while the on-screen display of the Keystone Correction mode is on the screen.

Press **KEYSTONE**.

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

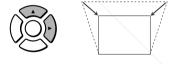
Fix you can also use **KEYSTONE** on the projector.



On-screen display (Keystone Correction mode)



Shrinks upper side.
(Move the slide bar in the + direction.)



Shrinks lower side. (Move the slide bar in the - direction.)







 While adjusting the image using Keystone Correction, straight lines and the edges of the image may appear jagged.

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Switching the Input Mode

Select the appropriate input mode for the connected equipment.

Press COMPUTER, DVI, S-VIDEO or VIDEO on the remote control to select the input mode.

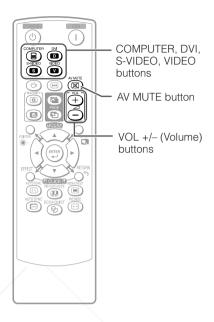
 When you press INPUT on the projector or DVI on the remote control, the INPUT list appears.
 Press ▲/▼ to switch the INPUT mode.

Adjusting the Volume

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



- Pressing **VOL**-/-◀ will lower the volume.
- Pressing VOL+/▶+ will raise the volume.
- When the projector is connected to external equipment, the volume level of the external equipment changes in accordance with the volume level of the projector. Set the projector's volume to the lowest level when turning the projector on/ off or when changing the input signal.
- When you do not want to output the sound from the projector's speaker while the projector is connected to external equipment, set "Speaker" in "PRJ-ADJ" menu to "Off". (See page 45.)



On-screen display

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25

Displaying the Black Screen and Turning off the Sound Feminorarily

Press AV MUTE on the remote control to temporarily display a black screen and turn off the sound RCE FOR PROJECTOR LAMPS AND ACCESSORIES

On-screen display



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



AV MUTE

Image Projection (Continued)

Resize Mode

This function allows you to modify or customize the resize mode to enhance the input image. Depending on the input signal, you can choose a desired image.

RESIZE

button

Press **RESIZE**.

• See page 43 for setting on menu screen.

COMPUTER

	Main resolution	NORMAL	FULL	DOT BY DOT	BORDER	STRETCH
	SVGA (800 × 600)		_	800 × 600	768 × 576	1024 × 576
4.0	XGA (1024 × 768)	4004 700		_		
4:3 aspect ratio	SXGA (1152 × 864)	1024 × 768		1152 × 864		
	UXGA (1600 × 1200)			1600 × 1200		
	SXGA (1280 × 1024)	968 × 768		1280 × 1024	720 × 576	
	1280 × 720	1024 × 576		1280 × 720	_	_
04	1360 × 768	1024 × 578	1024 × 768	1360 × 768	_	_
Other aspect ratios	1366 × 768	1024 × 576	1024 × 700	1366 × 768	_	_
	1280 × 768	1024 × 614		1280 × 768	960 × 576	1001570
	1280 × 800	1024 × 640		1280 × 800	922 × 576	1024 × 576

Input	signal	For 4:3 screen		For 16:9 screen		
Computer	Image type	NORMAL	FULL	DOT BY DOT	BORDER	STRETCH
Resolution lower than XGA						
XGA			*2	*2	*1	*1
Resolution higher than XGA	4:3 aspect ratio			P 9		
SXGA (1280 × 1024)	5:4 aspect ratio					
1280 × 720 FixYourDLP.c		*1			*2	*2
1360 × 768 1366 × 768 1280 × 768	16:9 aspect ratio	chan			0) 28	1-88
1280 × 800	16:10 aspect ratio		JECTOR	P P		

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

^{*2} Same as NORMAL mode.

VIDEO/DTV

Input	signal		For 4:3 screen		For 16:9	screen
Video/DTV	Image type	NORMAL	AREA ZOOM	V-STRETCH	BORDER	STRETCH
	4:3 aspect ratio	000			*1 0 0	*1
480I, 480P, 576I, 576P, NTSC, PAL, SECAM	Squeeze				*1 0 0 0	*1 0 0 0
	Letter box	000			*1 *** ***	*1
720P, 1035I, 1080I, 1080P	16:9 aspect ratio	*1		000		
	16:9 aspect ratio				*2	*2
540P	(4:3 aspect ratio in 16:9)	*1				

: Cutout area on which images cannot be projected

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

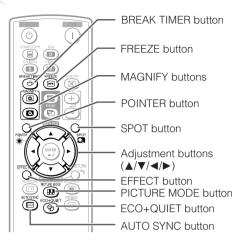
*1 The Image Shift function can be used for these images.

About Copyrights

- When using the RESIZE function to select an image size with a different aspect ratio to a TV program or video image, the image will look different from its original appearance.
 Keep this in mind while choosing an image size.
- The use of the Resize or Keystone Correction function to compress or stretch the image for convenience purposes/public displays in a café, hotel, etc. may be an infringement of copyright protected by law for copyright holders. Please use caution.

^{*2} Same as NORMAL mode.

Operating with the Remote Control



Displaying the Pointer

Press **POINTER** and press **A**/**▼**/ 1 √ on the remote control to move the pointer.

> • Press **EFFECT** to change the pointer icon (5 types).

S	tar	Finger1	Finger2	Heart	Underline
4	>				

Press **POINTER** again. The pointer will disappear.

Displaying and Setting the Break Timer

Press BREAK TIMER.

• The timer starts to count down from 5 minutes

On-screen display



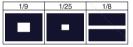
- Press ▲/▼/◄/▶ to adjust the length of the break time.
 - Increases with ▲ or ▶ 5 minutes \rightarrow 6 minutes \rightarrow 60 minutes
 - Shortens with ◀ or ▼ 4 minutes \rightarrow 3 minutes \rightarrow 1 minute
 - The break time can be set in units of one minute (up to 60 minutes).

Canceling the break timer display function ress BREAK

Using the Spot Function

Press **SPOT** and press **△**/**▼**/**⋖**/**▶** 1 on the remote control to move the spot area.

> • Press **EFFECT** to change the spot area size (3 types).



Press **SPOT** again. The spot area will disappear.

Switching the Eco+Quiet Mode

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

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

life will extend AND ACCESSORIES Break Timer does not function while the pro

jector is operating the "Auto Sync", "FREEZE" or "AV MUTE" functions.

Note 🏻

• Refer to "Lamp Setting" on page 42 for details of the Eco+Quiet mode.

Note

Auto Sync (Auto Sync Adjustment)

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

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



 When the optimum image cannot be achieved with Auto Sync adjustment, use the help menu for manual adjustments. (See page 48.)

Freezing a Moving Image

- 1 Press FREEZE.
 - The projected image is frozen.
- Press **FREEZE** again to return to the moving image from the currently connected device.

Selecting the Picture Mode

You can select the appropriate picture mode for the projected image, such as movie or video game.

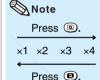
Prese PICTURE MODE.

 When pressing PICTURE MODE, the picture mode changes in the following order: p*STANDARD→PRESENTATION→MOVIE→GAME→\$RGB †

Displaying an Enlarged Portion of an Image

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

- 1 Press MAGNIFY on the remote control.
 - Enlarges the image.
 - Pressing or MAGNIFY enlarges or reduces the projected image.



- You can change the location of the enlarged image using ▲, ▼, ◄ and ►.
- 2 Press **RETURN** on the remote control to cancel the operation.
 - The magnification then returns to ×1.



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

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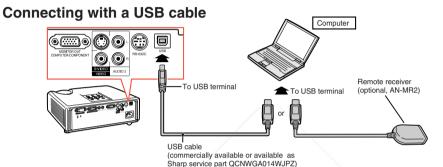
- See page 40 for details on the picture mode.
- * "sRGB" is displayed only when RGB signal is input.

Operating with the Remote Control (Continued)

Using the Remote Control as the Wireless Computer Mouse

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

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

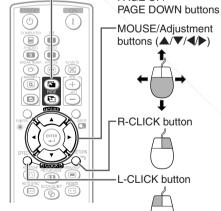


The mouse pointer can be operated in the following way after it is connected.

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

Same as the [Page Up] and [Page Down] keys on a computer keyboard.

Press PAGE UP or PAGE DOWN.



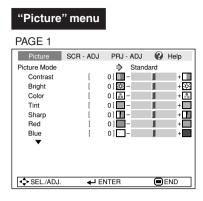
PAGE UP/

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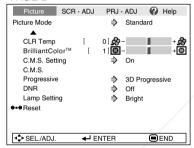
- This function only works with the Microsoft[®] Windows[®] OS and Mac OS[®]. However, this function
 does not work with the following operation systems that do not support USB.
 - Versions earlier than Windows® 95
 - Versions earlier than Windows® NT4.0
 - Versions earlier than Mac OS® 8.5
- You cannot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

Menu Items

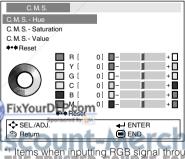
The following shows the items that can be set in the projector.

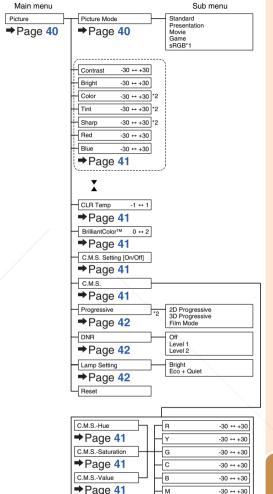






"C.M.S."





** Items when inputting RGB signal through

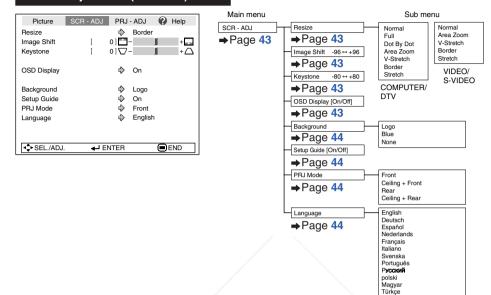
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Reset

^{*2} Items when inputting component signal through COMPUTER or DVI, or when selecting S-VIDEO or VIDEO.

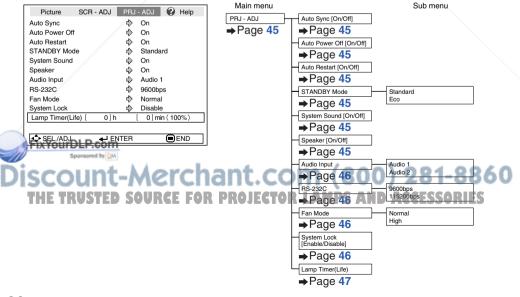
Menu Items (Continued)

"Screen adjustment (SCR-ADJ)" menu

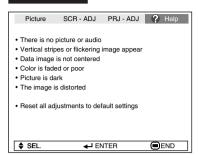


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"Projector adjustment (PRJ-ADJ)" menu



"Help" menu



The items you can set with the "Help" menu

"Help" menu → Page 48

 Vertical stripes or flickering image appear Auto Sync Clock

Phase

 Data image is not centered Auto Sync

H-Pos V-Pos

• Color is faded or poor

COMPUTER/COMPONENT or DVI input Signal type: Auto/RGB/Component S-VIDEO or VIDEO input

Video System: Auto/PAL/SECAM/ NTSC3.58/NTSC4.43/ PAL-M/PAL-N/PAL-60

DVI (Digital) input

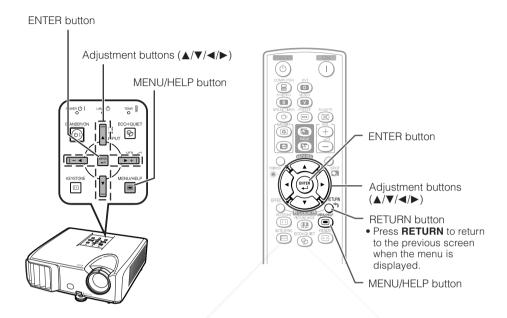
Dynamic range: Auto/Standard/Enhanced

* The selectable items vary depending on the input signal and the selected input mode.



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Using the Menu Screen



Menu Selections (Adjustments)

Example: Adjusting "Bright".

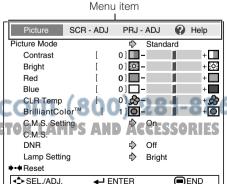
• This operation can also be performed by using the buttons on the projector.

1 Press MENU/HELP.

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

Press ➤ or ◀ and select "Picture" to adjust.

Example: "Picture" screen menu for COMPUTER (RGB) input



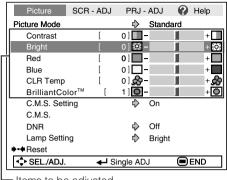


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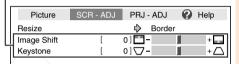
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• The selected item is highlighted.



Items to be adjusted





The item displayed by itself

Picture		
Bright	[0]	+ 🔅
◆ SEL./ADJ.	Rtn. Menu	■ END

To adjust the projected image while watching it Press ENTER.

- The selected item (e.g. "Bright") is displayed by itself at the bottom of the screen.
- When pressing ▲ or ▼, the following item ("Red" after "Bright") will be displayed.

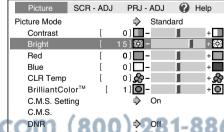


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· Press ENTER again to return to the previous screen.

4 selected.

• The adjustment is stored.



Press MENU/HELP: FOR

• The menu screen will disappear.



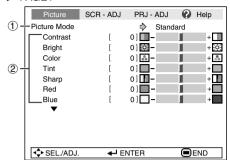


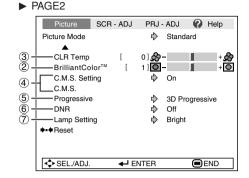
 Menu buttons do not function while the projector is operating the "Auto Sync", "Break Timer", "FREEZE", or "AV MUTE" functions.

Picture Adjustment ("Picture" Menu)

Menu operation → Page 38

► PAGF1





(1) Selecting the Picture Mode

Selectable	Description	The default settings of each item when selecting Picture Mode		
items	Description	CLR Temp	BrilliantColor™	Lamp Setting
Standard	For standard image	0	1	Bright
Presentation	Brightens portions of image for more enhanced presentations.	0	2	Bright
Movie	Gives natural tint to the projected image.	-1	0	Eco + Quiet
Game	Gives sharpness to the projected image.	0	1	Bright
*sRGB	For high fidelity reproduction of images from a computer.	-	-	Bright

- "sRGB" is displayed only when RGB signal is input.
- You can set or adjust each item in the "Picture" menu to your preference. Any changes you make are retained in memory.



- You can also press **PICTURE MODE** on the remote control to select the picture mode. (See page 33.)
- *sRGB is an international standard of color reproduction regulated by the IEC (International Electrotechnical Commission). As the fixed color area has been decided by the IEC, the images are displayed in a natural tint based on an original image, when "sRGB" is selected. For additional information about the sRGB function, visit "http://www.srgb.com/"

Fixe cannot seems, "Red", "Blue", "CLR Temp", "Brilliant Color TM", when "sRGB" is selected.

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

② Adjusting the Image

Adjustment items	◄ button	▶ button
Contrast	For less	For more
	contrast.	contrast.
Bright	For less	For more
	brightness.	brightness.
Color*1	For less color	For more color
	intensity.	intensity.
Tint*1	For making skin	For making skin
	tones purplish.	tones greenish.
Sharp*1	For less	For more
	sharpness.	sharpness.
Red*2	For weaker red.	For stronger red.
Blue*2	For weaker blue.	For stronger blue.
BrilliantColorTM*2 *3	For making the	For making the
	effect weaker.	effect stronger.

- *1 Not displayed in the RGB input mode.
- *2 Not adjustable/selectable when selecting "sRGB".
- *3 BrilliantColor™ uses Texas Instruments'
 BrilliantColor™ technology. As the BrilliantColor™ level is increased, the image becomes brighter while the color reproduction is kept at a high level.

Note

- "Red", "Blue", "BrilliantColor™" and "CLR Temp" cannot be set when "sRGB" is selected.
- To reset all adjustment items, select "Reset" and press ENTER.

3 Adjusting the Color Temperature

Selectable items	Description
-1 FixY@urDL	For lower color temperature for warmer, reddish incandescent-like images. For higher color temperature for cooler, bluish, fluorescent-like images.

4 Adjusting the Colors

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

Selectable items	Description
C.M.SHue	Sets the hue of the main colors.
C.M.SSaturation	Sets the saturation of the main colors
C.M.SValue	Sets the brightness of the main colors.
Reset	The adjustments of "Hue", "Saturation" and "Value" of all colors are reset to the default setting.

Adjusting "Hue", "Saturation", or "Value".

- 1 Select "On" for "C.M.S. Setting" in the "Picture" menu and then press **ENTER**.
- **2**Select "C.M.S." in the "Picture" menu and then press **ENTER**.
- 3Press ▲ or ▼ to select either "Hue", "Saturation", or "Value" and then press ENTER.
- **4** Select the color to be adjusted with **△** or **▼** and adjust it with **⋖** or **▶**.

Example of adjusting the "Hue"

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

- When "Saturation" is selected, the selected color becomes
 - **◄:** lighter. ▶: thicker.
- When "Value" is selected, the selected color becomes
 - d: darker. ►: brighter.
- To reset the adjustment values of each color to the default settings, select "Reset" and press

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 Values on "CLR Temp" are only for general standard purposes.

Picture Adjustment ("Picture" Menu) (Continued)

Menu operation → Page 38

⑤ Progressive

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

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

Note 🌑

- In NTSC or PAL60Hz, even if the 3D Progressive mode has been set, the three-two pull down enhancement will be enabled automatically when the film source has been entered.
- When the image is blurred or noisy, switch to the optimal mode.



- This function is available for 480I and 576I signals using COMPUTER/COMPONENT or DVI input.
- This function is available for all signals with S-VIDEO and VIDEO input.

6 Reducing Image Noise (DNR)

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

Selectable items	Description
Off	The DNR function is not activated.
Level 1	Sets the DNR level for viewing a
Level 2	clearer picture.



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.

② Lamp Setting

Selectable items	Brightness and Power consumption
Eco + Quiet	Approx. 75%
Bright	100%



 In the Eco + Quiet mode, the fan sound and power consumption are lower than those in the Bright mode. (Projection brightness decreases as shown in the chart.)

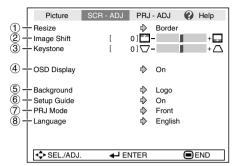


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Feature

Adjusting the Projected Image ("SCR - ADJ" Menu)

Menu operation → Page 38



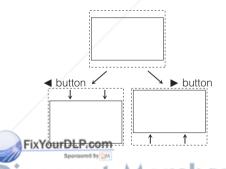
1 Setting the Resize Mode

Note 🌕

- For details of the Resize mode, see pages 30 and 31.
- You can also press RESIZE on the remote control to set the resize mode. (See page 30.)

② Adjusting the Image Position

You can move the projected image vertically.



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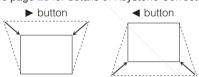
 Inis function only works in some modes. (See pages 30 and 31.)

3 Keystone Correction

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

Select "Keystone" on the "SCR-ADJ" menu and adjust with the slide bar.

See page 28 for details of Keystone Correction.



Note 🎘

- The Keystone Correction can be adjusted up to an angle of approximately ±40 degrees (when "Resize" is set to "Normal").
- You can also press KEYSTONE on the remote control or on the projector to adjust Keystone Correction.

4 Setting the On-screen Display

Selectable items	MPS AND Description SORIES
On	All on-screen displays are displayed.
Off	INPUT/VOLUME/AV MUTE/FREEZE/ AUTO SYNC/RESIZE/PICTURE MODE/ ECO+QUIET/MAGNIFY/ "An invalid button has been pressed." are not displayed.

Adjusting the Projected Image ("SCR - ADJ" Menu) (Continued)

Menu operation → Page 38

(5) Selecting the Background Image

Selectable items	Description
Logo	Sharp logo screen
Blue	Blue screen
None	_

6 Selecting the Setup Guide

Selectable items	Description
	Displaying the Setup Guide
	when turning the projector on.
Off	Not displaying the Setup Guide.

Reversing/Inverting Projected Images

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

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

8 Selecting the On-screen Display Language

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

English
Deutsch
Español
Nederlands
Français
Italiano
Svenska
Português
Русский
polski
Magyar
▼





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Feature

Adjusting the Projector Function ("PRJ - ADJ" Menu)

Menu operation → Page 38

SCR - ADJ PRJ - ADJ Picture Auto Sync On ♦ -Auto Power Off On Auto Restart 0 Οn STANDBY Mode Standard -System Sound ♦ Οn Speaker On - Audio Input Audio 1 . ₽RS-232C 9600bps 9 + Fan Mode Normal -System Lock Disable Lamp Timer(Life) 0 l min (100%) 0] h <\$ SEL./ADJ. **←** ENTER ■ END

1 Auto Sync (Auto Sync Adjustment)

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

Note

- Auto Sync adjustment is also performed by pressing AUTO SYNC on the remote control.
- The Auto Sync adjustment may take some time to complete, depending on the image of the computer connected to the projector.
- When the optimum image cannot be achieved with Auto Sync adjustment, use manual adjustments. (See page 48.)

2 Auto Power Off Function

Selectable items	Description
©ixYourD Spo	Micano input signal is detected for more than 15 minutes, the projector will automatically enter standby mode.
Off CO	The Auto Power Off function will be disabled.



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

3 Auto Restart Function

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

4 STANDBY Mode

When set to "Eco", power consumption is reduced in standby mode.

Selectable items	Description
Eco	The monitor output and RS-232C functions are switched off in standby mode.
Standard	The monitor output and RS-232C functions are activated even if the projector is in standby mode.

(5) Setting the Confirmation Sound (System Sound)

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

6 Speaker Setting

(Selectable items	Description
	on LA	The audio signal is output from the internal speaker.
	Off	The audio signal is not output from the internal speaker.

Adjusting the Projector Function ("PRJ - ADJ" Menu) (Continued) Menu operation → Page 38

(7) Audio Input

This function allows you to select an appropriate combination of audio input terminals for each input mode.

Selectable items	Description
Audio 1	The AUDIO 1 input terminal is used as an audio input terminal.
Audio 2	The AUDIO 2 input terminal is used as an audio input terminal.

8 Selecting the Transmission Speed (RS-232C)

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

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

(9) Fan Mode Setting

This function changes the fan rotation speed.

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

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

System Lock Function

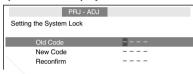
This function prevents unauthorized use of the projector. Once this function is activated, users nust enter the correct keycode each time the projector is turned on. We suggest you record the keycode in a safe place where only authorized users have access.

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• If you lose or forget your keycode, contact your nearest Sharp Authorized Projector Dealer or Service Center (see page 66). Even if the product warranty is valid, the keycode reset will incur a charge.

Setting/Changing the keycode

- Select "System Lock", then press ENTER or ▶.
- Select "Next", then press ENTER. • The screen for entering the keycode appears.
- 3 Press the 4 buttons on the remote control or on the projector to enter the preset keycode in "Old Code".
 - . When setting the keycode for the first time, press ▼ on the projector for four times.





- If you input a wrong keycode, the cursor returns to the first point of the "Old Code".
- The preset keycode is 4 ▼ buttons on the projector. When you press the ▼ button four times, the keycord input screen disappears.
- 4 Press the 4 buttons on the remote control or on the projector to enter the new keycode in "New Code".



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

PRJ - ADJ	
Setting the System Lock	
Old Code	* * * *
New Code	
Reconfirm	

5

Enter the same keycode in "Reconfirm".



To cancel the keycode that you have already set

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

When the System Lock is set

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

Input screen for keycode

System Lock



(1) Checking the Lamp Life Status

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

Lamp usage	Lamp usage condition		g lamp life		
	"Life"	100%	5%		
	Operated exclusively with Lamp Setting set to 'Eco +Quiet"		Approx. 200 hours		
	perated exclusively ith Lamp Setting set to		Approx. 100 hours		



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

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Keylock Function

Locking the Operation Buttons on the Projector

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

■ Locking the Operation Buttons

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

On-screen display

Keylock function ON

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

■ Taking the Keylock off

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

On-screen display

Keylock function OFF

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



Info

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

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Troubleshooting with the "Help" Menu

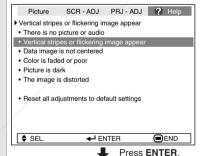
This function advises you to solve the problems during usage.

Utilizing the "Help" Menu Functions

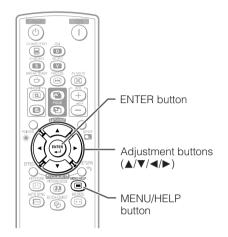
Example: When image flickering appears

Operation to solve image flickering when projecting the computer RGB signal.

- 1 Press MENU/HELP.
- Press ◀ or ▶ to select "Help", then press ENTER.
- Press ▲ or ▼ to select "Vertical stripes or flickering image appears" on Help menu, then press ENTER.







- 4 Select "Initiate "Auto Sync" Adjustments", then press **ENTER**.
- If the image is not improved, select "Adjust horizontal noise", then press **ENTER**.
- Press ◀ or ▶ to adjust.

 Phase

 Phase

 Rtn. Menu

 END



- You can adjust the items with check marks ().
- The items in the "Help" menu change, depending on the input signal or setting that you have selected.
- If the problem is not solved, refer to "Troubleshooting" (see pages 64 and 65).
- When selecting "sRGB" in "Picture Mode", the item "Color is faded or poor" is not displayed. This means you cannot change input signal types.

Maintenance

Cleaning the projector

- Ensure that you have unplugged the power cord before cleaning the projector.
- The cabinet as well as the operation panel is made of plastic. Avoid using benzene or thinner, as these can damage the finish on the cabinet
- Do not use volatile agents such as insecticides on the projector.
 - Do not attach rubber or plastic items to the projector for long periods.
 - The effects of some of the agents in the plastic may cause damage to the quality or finish of the projector.
- Wipe off dirt gently with a soft flannel cloth.
- When the dirt is hard to remove, soak a cloth in a mild detergent diluted with water, wring the cloth well and then wipe the projector. Strong cleaning detergents may discolor, warp or damage the coating on the projector. Make sure to test on a small, inconspicuous area on the projector before use.





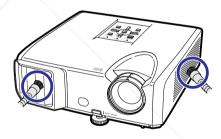
Cleaning the lens

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



Cleaning the exhaust and intake vents

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





Info

• If you want to clean the air vents during projector operation, ensure you press STANDBY/ON on the projector or STANDBY on the remote control and put the projector into standby mode. After the cooling fan has stopped, clean the vents.

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Maintenance Indicators

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

Temperature warning indicator Lamp indicator Lamp indicator Power indicator

About the temperature warning indicator



If the temperature inside the projector increases, due to blockage of the air vents, or the setting location, "TEMP." will illuminate in the lower left corner of the picture. If the temperature keeps on rising, the lamp will turn off and the temperature warning indicator will blink, the cooling fan will run, and then the projector will enter standby mode. After "TEMP." appears, ensure you perform the measures described on page 51.

About the lamp indicator

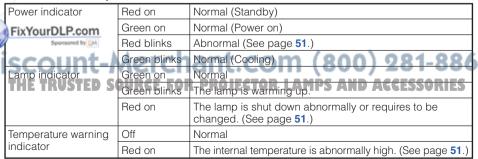


Change The Lamp.

- When the remaining lamp life becomes 5% or less,

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

Indicators on the Projector



Mair	ntenance ind	cator	Problem	Cause	Possible Solution
	Normal	Abnormal			
Tempera- ture warning indicator	Off	Red on (Standby)	The internal temperature is abnormally high.	Blocked air intake	Relocate the projector to an area with proper ventilation. (See page 8.)
				Cooling fan breakdown Internal circuit failure Clogged air intake	Take the projector to your nearest Sharp Authorized Projector Dealer or Service Center (see page 66) for repair.
Lamp indicator	Green on (Green blinks	Red on	The lamp does not illuminate.	The lamp is shut down abnormally.	Disconnect the power cord from the AC outlet, and then connect it again.
	when the lamp is warming		Time to change the lamp.	Remaining lamp life becomes 5% or less.	 Carefully replace the lamp. (See page 52.) Take the projector to your
	up or turning off.)	Red on (Standby)	The lamp does not illuminate.	Burnt-out lamp Lamp circuit failure	nearest Sharp Authorized Projector Dealer or Service Center (see page 66) for repair. Please exercise care when replacing the lamp. Securely install the cover.
Power indicator	Green on/ Red on Green blinks (Cooling)	Red blinks	The power indicator blinks in red when the projector is on.	The lamp unit cover is open.	If the power indicator blinks in red even when the lamp unit cover are securely installed, contact your nearest Sharp Authorized Projector Dealer or Service Center (see page 66) for advice.

Info

- If the temperature warning indicator illuminates, and the projector enters standby mode, follow the possible solutions above and then wait until the projector has cooled down completely before plugging in the power cord and turning the power back on. (At least 10 minutes.)
- If the power is turned off for a brief moment due to power outage or some other cause while using the projector, and the power supply recovers immediately after that, the lamp indicator will illuminate in red and the lamp may not be lit. In this case, unplug the power cord from the AC outlet, replace the power cord in the AC outlet and then turn the power on again.
- The cooling fan keeps the internal temperature of the projector constant and this function is controlled automatically. The sound of the cooling fan may change during operation because the fan speed may change and this is not a malfunction.

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Regarding the Lamp

Lamp

- It is recommended that the lamp (sold separately) be replaced when the remaining lamp life becomes 5% or less, or when you notice a significant deterioration in the picture and color quality. The lamp life (percentage) can be checked with the on-screen display. (See page 47.)
- Purchase a replacement lamp of type AN-F212LP from your place of purchase, nearest Sharp Authorized Projector Dealer or Service Center.

IMPORTANT NOTE TO U.S. CUSTOMERS:

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

Hg LAMP CONTAINS MERCURY For State Lamp Disposal Information

www.lamprecycle.org or 1-800-BE-SHARP

U.S.A. ONLY

Caution Concerning the Lamp

- This projector utilizes a pressurized mercury lamp. A loud sound may indicate lamp failure. Lamp failure can be attributed to numerous sources such as: excessive shock, improper cooling, surface scratches or deterioration of the lamp due to a lapse of usage time.

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

Replacing the Lamp



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

 Wait at least one hour after the power cord is disconnected to allow the surface of the lamp unit to fully cool before removing the lamp unit.
- Carefully change the lamp by following the instructions described in this section.* If you wish, you may have the lamp replaced at your nearest Sharp Authorized Projector Dealer or Service Center.
- * If the new lamp does not light after replacement, take your projector to the nearest Sharp Authorized Projector Dealer or Service Center for repair.

Removing and Installing the Lamp Unit



Warning!

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

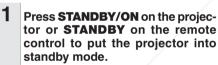




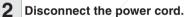
Lamp unit AN-F212LP



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



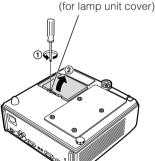
Wait until the cooling fan stops.

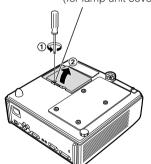


- Unplug the power cord from the AC socket.
- · Leave the lamp until it has fully cooled down (about 1 hour).
- Remove the lamp unit cover.
 - Turn the projector over. Loosen the user service screw (1) that secures the lamp unit cover. Remove the lamp unit cover (2).



User service screw







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Regarding the Lamp (Continued)

4 Remove the lamp unit.

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

Insert the new lamp unit.

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

Replace the lamp unit cover.

Align the tab on the lamp unit cover

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



Info

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

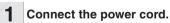
Resetting the Lamp Timer

Reset the lamp timer after replacing the lamp.



Info

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

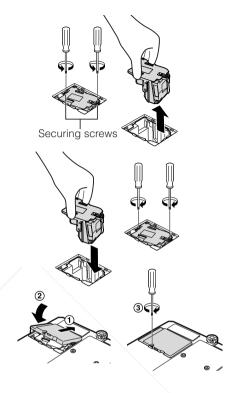


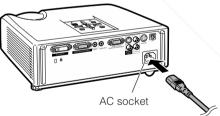
Plug the power cord into the AC socket of the projector.

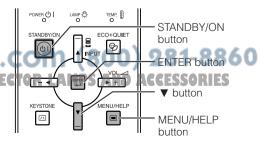
2 Reset the lamp timer.

 While simultaneously holding down MENU/HELP, ENTER and V on the projector, press STANDBY/ON on the projector.

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







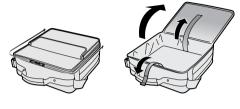
How to Use the Storage Case

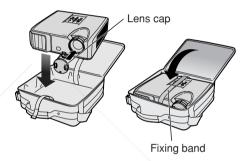
When storing the projector, attach the lens cap to the lens, and place it in the supplied storage case.

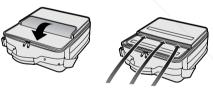
- 1 Open the cover of the storage case.
- 2 Place the projector into the storage case.



- Ensure the projector has cooled down sufficiently before placing it in the case.
- When you place the projector into the storage case, make sure that the cooling fan has stopped.
- Ensure the lens cap is attached to the lens for protection.
- Place the projector into the storage case with the lens facing the handle.
- Ensure the projector is held in place by using the fixing band.
- Do not expose the storage case to direct sunlight or near heat sources. The storage case may change color or become deformed.
- Close the cover of the storage case.
- 4 Place the accessories in the front pocket of the storage case.







Supplied accessories (Remote control, etc.)

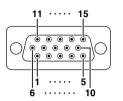


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Appendix

Connecting Pin Assignments

COMPUTER/COMPONENT input and COMPUTER/COMPONENT output Terminals: mini Dsub 15 pin female connector



COMPUTER Input/Output Signal

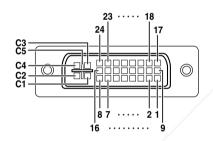
- Video input (red)
- Video input (green/sync on green)
- 3. Video input (blue)
- Not connected
- Not connected
- Farth (red)
- Earth (green/sync on green) Farth (blue) 8.
- 9. Not connected
- GND 10
- Not connected 11 12 Bi-directional data
- Horizontal sync signal: TTL level 13
- Vertical sync signal: TTL level 14
- Data clock

COMPONENT Input/Output

- Pin No. Signal

 - 3. PB (CB) Not connected
 - Not connected
 - Farth (PR)
 - Farth (Y)
 - Farth (PB)
 - Not connected
 - 10 Not connected Not connected
 - Not connected
 - 13 Not connected
 - Not connected
 - Not connected

DVI-I Terminal: 29 pin connector



• DVI Digital Input Pin No.

- . Signal T.M.D.S data 2-T.M.D.S data 2+ T.M.D.S data 2 shield
- Not connected
- Not connected DDC clock
- DDC data
- Not connected T.M.D.S data 1-
- T.M.D.S data 1+
- T.M.D.S data 1 shield Not connected
- 13. Not connected +5V power
- 14. Ground

- Pin No. Signal 16.
 - Hot plug detection 17 T.M.D.S data 0-
 - T.M.D.S data 0+
 - 19. T.M.D.S data 0 shield
 - Not connected
 - Not connected
- T.M.D.S clock shield
- T.M.D.S clock+
- T.M.D.S clock-Not connected
- Not connected
- Not connected
- Not connected
- Ground

DVI Analog RGB Input

'ın No	. Signal	Pin No.	Signal
1.	Not connected	16.	Hot plug detection
2.	Not connected	17.	Not connected
3.	Not connected	18.	Not connected
4.	Not connected	19.	Not connected
5.	Not connected	20.	Not connected
6.	DDC clock	21.	Not connected
7.	DDC data	22.	Not connected
8.	Vertical sync	23.	Not connected
9.	Not connected	24.	Not connected
10.	Not connected	C1.	Analog input Re-
11.	Not connected	C2.	Analog input Gre
			18 una On Craan

C4.

Not connected 13. Not connected

- he een
- (Sync On Green) Analog input Blue Horizontal sync (Composite Sync)

Ground

DVI Analog Component Input

Not connected

Not connected

Pin No.	. Signal	Pin No.	Signal
1.	Not connected	16.	Not connected
2.	Not connected	17.	Not connected
3.	Not connected	18.	Not connected
4.	Not connected	19.	Not connected
5.	Not connected	20.	Not connected
6.	Not connected	21.	Not connected
7.	Not connected	22.	Not connected
8.	Not connected	23.	Not connected
9.	Not connected	24.	Not connected
10.	Not connected	C1.	Analog input Pr/Cr
11.	Not connected	C2.	Analog input Y
12.	Not connected	C3.	Analog input Pb/Cb

C4.

Not connected

Ground

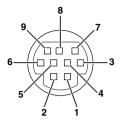
15. Ground

14



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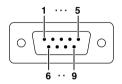
RS-232C Terminal: mini DIN 9 pin female connector



Pin No.	Signal	Name	I/O
2. 3. 4.	RD SD	Receive Data Send Data	Input Output
5. 6.	SG	Signal Ground	
7. 8. 9.	RS CS	Request to Send Clear to Send	

Reference
Not connected
Connected to internal circuit
Connected to internal circuit
Not connected
Connected to internal circuit
Not connected to internal circuit
Not connected to CS in internal circuit
Connected to RS in internal circuit
Not connected to

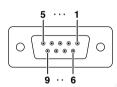
RS-232C Terminal: D-sub 9 pin male connector of the DIN-D-sub RS-232C adaptor



'in No.	Signai	Name	1/0	
1.				
2. 3.	RD	Receive Data	Input	
3. 4.	SD	Send Data	Output	
5.	SG	Signal Ground		
6.				
7.	RS	Request to Send		
8.	CS	Clear to Send		
9.				

Reference Not connected Connected to internal circuit Connected to internal circuit Not connected Connected to internal circuit Not connected Connected to S in internal circuit Connected to RS in internal circuit Not connected

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



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

Note 🏻

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

Projector	Compute
Pin No.	Pin No.
4	r 4
5 ———	
6	<u>\6</u>



USB Terminal: Type B USB connector

al: Type B USB connector ant.com (800) 281-8860

IST Pin No. of Signal CE Name R PROJECTOR LAMPS AND ACCESSORIES



1. VCC USB power 2. USB USB data-3. USB+ USB data+ 4. SG Signal Ground

RS-232C Specifications and Commands

Computer control

A computer can be used to control the projector by connecting an RS-232C serial control cable (cross type, commercially available) to the projector. (See page 24 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.

Parity bit: None

Baud rate*: 9,600 bps / 115,200 bps

Stop bit: 1 bit

Pata length: 8 bits

Flow control: None

*Set the projector's baud rate to the same rate as used by the computer.

Basic format

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

Command format C3 C4 P2 P3 P4 Return code (0DH) Command 4-digit Parameter 4-digit Response code format Normal response Problem response (communication error or incorrect command) 0 K Return code (0DH) Ε R R Return code (0DH)



- 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.
- After sending an input selection or picture adjustment command and then receiving an "OK" response code, the projector may take some time to process the command. If a second command is sent while the projector is still processing the first command, you may receive an "ERR" response code. If this happens, try resending the second command.
- When more than one code is being sent, send each command only after the response code for the previous command from the projector is verified.
- "POWR????" "TABN _ _ 1" "TLPS _ _ 1" "TPOW _ _ 1" "TLPN _ _ 1" "TLTT _ _ 1" "TLTM _ _ 1" "TLTL _ _ 1" "TNAM _ _ 1" "MNRD _ _ 1" "PJNO _ _ 1"
 - When the projector receives the special commands shown above:
 - * The on-screen display will not disappear.
 - * The "Auto Power Off" timer will not be reset.
 - The special commands are available for applications that require continuous polling.

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- If an underbar (_) appears in the parameter column, enter a space.
 If an asterisk (*) appears in the parameter column, enter a value in the range indicated in brackets under Control Contents.
- *1 For setting the projector name, send the commands in the order of PJN1, PJN2 and PJN3.
- *2 This command should be sent only after the "IRGB _ _ _ 2" command is sent and an "OK" response code is received.
- *3 The Lamp Timer Reset command is available only in standby mode.

Commands

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

			Co	omput	ter					Pi	roject	or
P	О	W	R	_	_	_	1	Ą	\rightarrow \leftarrow	О	K	Ą

	NITON CONTEST	0		201		10					RET	
	ONTROL CONTENT	S			IAMI		PA	\RAN	ИЕТ	ER	Power ON	Standby mode (or 30-second startup time)
Power	On				W		_	-	-	1	OK or ERR	OK
	Off				W		_	-	_		OK	OK or ERR
	Status					R		-	_		1	0
Projector Condition			T	ļΑ	B	N	-	-	-	1	0: Normal	0: Normal
			l								1: Temp High	1: Temp High
			l								8: Lamp Life 5% or less	2: Fan Error
			l								16: Lamp Burn-out	4: Cover Open
			l								32: Lamp Ignition Failure	8: Lamp Life 5% or less
			l									16: Lamp Burn-out
			l									32: Lamp Ignition Failure
			l									64: Temp Abnormally Hig
Lamp	Status		Т	L	Р	s		\Box		1	0:Off, 1:On, 2:Retry	0:Off, 4:Lamp Error
Lamp			١.	-	ľ	-	-	-1			3:Waiting, 4:Lamp Error	O.O., I.Lamp Litor
	Power Status		Т	P	1	w	Н	\forall		1	1:On, 2:Cooling	0:Standby
	Quantity		Ϊ́Τ			N	-	-	-	1		0.Glaridby
		ous)	†		-		H	-	-			
	Usage Time(He						닏	\vdash	-		0 – 9999(Integer)	
	Usage Time(M		T				-	-	-		0, 15, 30, 45	
	Life(Percentag		T				-		=		0% – 100%(Integer)	
Name	Model Name C		Т		Α		-		-	1	PGF212XL	
	Model Name C				R		_	-	-	1	PG-F212X-L	
	Projector Name		Р	J	N	1	*	*	*	*	OK or ERR	
	(First 4 charact		L	L	L	L	L	\sqcup		L		
	Projector Name	e Setting 2	Р	J	N	2	*	*	*	*	OK or ERR	
	(Middle 4 chara	acters) *1	l									
	Projector Name		Р	J	N	3	*	*	*	*	OK or ERR	
	(Last 4 charact		l									
	Projector Name		P	J	N	0		_		1	Projector Name	
Input Change	Computer	3 011001	Ť		G		H	-	-	1	OK or ERR	ERR
input Onlinge	DVI		Ė		G		-	-	-	2	OK or ERR	ERR
		outer select *2	i			s	-	-	-	1	OK or ERR	ERR
			H			S	-	-	-	2	OK or ERR	ERR
	DVI-D-Video		i			S	-	-	-	3	OK or ERR	ERR
	DVI-Analog	select "2					-	-	-			ERR
	S-Video		Ţ			D	-	-	-	1	OK or ERR	
	Video		1		E		-	-	-	2	OK or ERR	ERR
	Input RGB Che		1						?	?	1: Computer, 2: DVI or ERR	
	Input Video Ch		1				?			?	1: S-Video, 2: Video or ERR	
	Input Mode Ch	eck	1			D			?		1: RGB, 2: Video	ERR
	Input Check		1	C	H	K	?	?	?	?	1: Computer	ERR
			l								2: DVI	
			l								3: S-Video	
			l								4: Video	
Volume	Volume(0 - 60)	٧	О	L	Α		_	*	*	OK or ERR	ERR
	Volume up/dov				U			*	*	*	OK or ERR	ERR
Keystone	-80 - +80	•	к				*	*	*	*	OK or ERR	ERR
AV Mute	On TOO		ï		В		Н	\vdash		1	OK or ERR	ERR
	Off		Ϊ́		В		H	-	-		OK or ERR	ERR
Freeze	On		F	H.	E	냙	H	H	-	1	OK or ERR	ERR
FIEEZE			F				H	-	-		OK or ERR	ERR
	Off						-	-	-		OK or ERR	ERR
Auto Sync Tesizer Our DLP.com	Start	1	Α				-	-	-	1		
	Computer	Normal	R			R	_	-	-	1	OK or ERR	ERR
Sponsored by DM	I	Stretch		Α		R		-	-	-	OK or ERR	ERR
at a	A 4 -	Dot By Dot	R			R	L		=		OK or ERR	ERR
CCOUNT		Full		Α		R	Н			5	OK or ERR	ERR
3LUUIIL	LIVIE	Border		Α						6	OK or ERR	ERR
	COULT	Area Zoom	R	Α	s	R	_	_	1	0.	OK or ERR	ERR
THE TRUSTED	SOUR	V-Stretch	R			R	K.		4	1	OK or ERR	ERR
	DVI	Normal		В		R		7	7	1	OK or ERR	ERR
	J '	Stretch			s		H	Н	-		OK or ERR	ERR
	1	Dot By Dot	R		s		H	-	-		OK or ERR	ERR
	I				S		H	-	-		OK or ERR	ERR
	I	Full			S		H	-	=		OK or ERR	ERR
	1	Border	R				H	-	-			
	1	Area Zoom			S		느				OK or ERR	ERR
	1	V-Stretch	ĮΒ	B	S	R	l – l	I – I	1	1	OK or ERR	ERR

RS-232C Specifications and Commands (Continued)

,	CONTROL CONTENT	S	0	101	ΛМА	ND		DAD	A B 4 F	TER		ETURN
					_	_		PAR	AME		Power ON	Standby mode (or 30-second startup time
Resize	S-Video	Normal			S			-1-	1	. 1		ERR
		Stretch			S			- -	-1-	. 2		ERR
		Border			S			- -	- -	. 3		ERR
		Area Zoom			S			- -	. 1			ERR
		V-Stretch		Α				- -	. 1			ERR
	Video	Normal			S		_	- -	- -	. 1		ERR
		Stretch			S		_	- -	- -	. 2		ERR
		Border			S		/ -	- -	-1-	. 3		ERR
		Area Zoom			S		/ -	- -	- 1	0		ERR
		V-Stretch	R	В	S	١	/ _	П-	. 1	1	OK or ERR	ERR
ALL Reset		-	Α	L	. R	E	ΕΤ.	- 1 -	. -	. 1	OK or ERR	ERR
Computer INPUT	Picture Mode	Standard	R	Α	l P		3 _	- -	. 1	0	OK or ERR	ERR
		Presentation	R	Α	\ P		3 -	- 1 -	. 1	1	OK or ERR	ERR
		Movie			l P		3 -	- -	. 1	2	OK or ERR	ERR
		Game			l P		3 -	- -	. 1	3		ERR
		sRGB			P		3 _		. 1			ERR
	Contrast	-30 - +30			P		ı İ.				OK or ERR	ERR
	Bright	-30 - +30			В.						OK or ERR	ERR
	Red	-30 - +30			F			,	1.		OK or ERR	ERR
	Blue	-30 - +30			В			,			OK or ERR	ERR
	Color	-30 - +30			C			-			OK or ERR	ERR
	Tint	-30 - +30			T		-	٠,			OK or ERR	ERR
		-30 - +30 -30 - +30						- '			OK or ERR	
	Sharp				S			+	+-	1.		ERR
	CLR Temp	-1 - +1			C			- -	+	+	OK or ERR	ERR
	BrilliantColor™	0-+2			۱ M			- -	- -	- *	OK or ERR	ERR
	Progressive	2D Progressive		Α				- -	- 1-	. 0		ERR
		3D Progressive			1			- -	-1-	. 1		ERR
		Film Mode	R	Α	ιI	F	- ا	- -	- -	. 2	OK or ERR	ERR
	DNR	Off	R	Α	ιN	l F	₹ _	- -	- -	. 0	OK or ERR	ERR
		Level 1	R	Α	N	F	٦ -	- -	Т-	. 1	OK or ERR	ERR
		Level 2	R	Α	N	F	٦ -	- 1 -	- 1 -	. 2	OK or ERR	ERR
	Picture Reset				l F			- 1 -	-1-	. 1	OK or ERR	ERR
	Signal Type	Auto			S				.1.	. 0		ERR
	- 3 ,,	RGB			S			\top	$^{+}$. 1		ERR
		Compontent			S		1	+	+	. 2		ERR
	Audio Input	Audio 1			A		-	+	+	. 1		ERR
	Addio iliput	Audio 2			A		_	+	+	. 2		ERR
OVI INPUT	Picture Mode	Standard			P		_	+	1			ERR
OVI IIVI OT	r icture wode	Presentation			P			+	1			
								+-				ERR
		Movie			P		_	- -	. 1			ERR
		Game			P			- -	. 1			ERR
		sRGB			P			- -	. 1			ERR
	Contrast	-30 - +30			P		_	- '	*	1 *	OK or ERR	ERR
	Bright	-30 - +30			В			- '	1 *	*	OK or ERR	ERR
	Red	-30 - +30			B				1	1	OK or ERR	ERR
	Blue	-30 - +30	R	В	В	E	I.	- "		*	OK or ERR	ERR
	Color	-30 - +30			C			- 1	1	*	OK or ERR	ERR
	Tint	-30 - +30			T		1 -	- "	1 *	1 *	OK or ERR	ERR
	Sharp	-30 - +30			S		1.			*	OK or ERR	ERR
	CLR Temp	-1 - +1			C		г	T	٠.		OK or ERR	ERR
	BrilliantColor™	0-+2			S W			+		. *	OK or ERR	ERR
	Progressive	2D Progressive		В				+	+	. 0		ERR
		3D Progressive			3 1			+	+	. 1		ERR
		Film Mode			1		-	+	+	2		ERR
	DNR	Off			N			+	+	. 0		ERR
	חואם	Level 1			N			+-	+-	1		
	1							-+-	+-			ERR
FixYourDLP.com	1	Level 2			N		-		+	. 2		ERR
	1 lotaro i todot				F			- -	4-	. 1	OIT OF ETHIC	ERR
Spansared by QM	Signal Type	Auto			S		_	- -	-1-	. 0		ERR
at at	A A	RGB 🚪 🦽			S		-	-1-	- -	- 1		ERR
ccalint	LAAZ	Compontent	1/				1			. 2		ERR
SCUUIIL	Audio Input	Audio 1	R	В	A	١,	J.	1		1	OK or ERR	ERR
		Audio 2	R.	В	LA		4			_ 2	OK or ERR	ERB
THE TRUSTED	Dynamic Range	Auto			1 6) [- 11		. 0		ERR
		Standard			B			15	T	1		ERR

									RETURN				
CO	NTROL CONTENTS							PARAM		ER	Power ON	(or 30-second startup time)	
S-Video INPUT	Picture Mode	Standard	٧	Α	Р	S	-	_	1			ERR	
			٧	Α	Р	S	_	_					
F-Video INPUT							_	_					
			٧	Α	Р	S	_	_		3			
	Contrast	-30 - +30	٧	Α	Р	Ι	_	*	*	*	OK or ERR	ERR	
	Bright	-30 - +30	٧	Α	В	R	_	*	*	*	OK or ERR	ERR	
								*	*	*			
							-	*	*	*			
							-	*	*	*			
							-	*	*	*			
							-				OK 01 ENN		
	Snarp						-	-					
	CLR Temp		٧	Α	C		-	-	*	*			
							-	_	_	*			
	Progressive	2D Progressive					_	_	_	0			
		3D Progressive	٧	Α	1	P	-	-	_	1	OK or ERR	ERR	
		Film Mode	٧	Α	Τ	Р	_	_	_	2	OK or ERR	ERR	
	DNR		v			R							
	J						-	F	F				
							-	-	-				
	D: 1 D 1	Level 2					-	-	-				
							-	-	-				
	Audio Input						-	_	_				
		Audio 2	٧	Α	Α	П	L-	L_]	L	2	OK or ERR	ERR	
/ideo INPUT	Power ON Standard V A P S 1 10 10 Kor ERR ERR Power ON Standard V A P S 1 10 10 Kor ERR ERR ERR Movie V A P S 1 10 10 Kor ERR ERR ERR Movie V A P S 1 12 10 Kor ERR ERR ERR ERR Movie V A P S 1 12 10 Kor ERR ERR												
							-	Н					
							-	-					
							-	-		3			
		-30 – +30					-	*	*	*			
			٧				-	*	*	*			
	Red	-30 - +30	٧	В	R	D	_	*	*	*	OK or ERR	ERR	
	Blue		ν	В	В	E		*	*	*	OK or EBB	ERR	
							-	*	*	*			
							-	*	*	*			
							-						
							-	Ŷ	Ĥ	_			
							-	-	*	*			
	BrilliantColor™	0 - +2	٧	В	W	E	-	-	_	*	OK or ERR	ERR	
	Progressive	2D Progressive	٧	В	Τ	Р	_	-	_	0	OK or ERR	ERR	
							-	-	F				
	DND						-	-	-				
	DINK						-	-	-		OK OF ERR		
							-	-	_				
		Level 2					_	_	_				
	Picture Reset		٧	В	R	E	-	-	_	1	OK or ERR	ERR	
	Audio Input	Audio 1	٧	В	Α	1	_	_	_	1	OK or ERR	ERR	
			ν									FRR	
M C Cotting	On	ridaio E					-	F	1				
J.W.S. Setting							-	-					
		L .					-	-		0			
J.M.S.	Hue						-			*			
		Yellow					_	*		*			
		Green	C	M	Н	G	-	*	*	*	OK or ERR	ERR	
	1	Cvan							*			I ====	
	1			M	Н	C	-	*		^	OK or ERR	LERR	
							-	*	*	*			
		Blue	С	М	Н	В	-	*	*	*	OK or ERR	ERR	
		Blue Magenta	C	M	Н	B M	-	*	*	*	OK or ERR OK or ERR	Standby mode (or 30-second startup tir ERR ERR ERR ERR ERR ERR ERR ERR ERR ER	
		Blue Magenta Reset	CCC	M M	H H R	B M E	_ _ _	*	*	* 2	OK or ERR OK or ERR OK or ERR	ERR ERR ERR	
	Saturation	Blue Magenta Reset Red	0000	M M M	H H R	M E R	_ _ _ _	* * -	*	* 2	OK or ERR OK or ERR OK or ERR OK or ERR	ERR ERR ERR	
	Saturation	Blue Magenta Reset Red Yellow	00000	M M M M	H H R S	B M E R Y	- - -	*	· -	* 2 *	OK or ERR	ERR ERR ERR ERR ERR	
	Saturation	Blue Magenta Reset Red Yellow Green	00000	M M M M	H H S S	B M E R Y G	_ _ _ _	* * *	* * *	* 2 * *	OK or ERR	ERR ERR ERR ERR ERR ERR	
	Saturation	Blue Magenta Reset Red Yellow Green	00000	M M M M	H H S S	B M E R Y G		* * * * * *	* * * * *	* 2 * * *	OK or ERR	ERR ERR ERR ERR ERR ERR	
FixYourDLP.com	Saturation	Blue Magenta Reset Red Yellow Green Cyan	000000	M M M M M	H H S S S	B M E R Y G		* * * * * * *	* * * * * *	* 2 * * * * *	OK or ERR	ERR ERR ERR ERR ERR ERR ERR	
	Saturation	Blue Magenta Reset Red Yellow Green Cyan Blue	0000000	M M M M M	H H S S S S	B M E R Y G C B		* * * * * * *	* * * * * *	* 2 * * * * * *	OK or ERR	ERR ERR ERR ERR ERR ERR ERR ERR	
	Saturation	Blue Magenta Reset Red Yellow Green Cyan Blue Magenta	000000000	M M M M M M	H H S S S S	B M E R Y G C B		* * * * * * * *	* * * * * *	* * * *	OK OF ERR	ERR	
		Blue Magenta Reset Red Yellow Green Cyan Blue Magenta Reset Reset	0000000000	M M M M M M M	H H S S S S S S	B M E R Y G C B M	-	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * *	OK or ERR	ERR	
		Blue Magenta Reset Red Yellow Green Cyan Blue Magenta Reset Reset Red		M M M M M M M	H H R S S S S S S S S S	B M E R Y G C B M E R	- - - - - -	* * * * * * * * * * * * * * * * * * *	* * - * * * * * - * * * * * * * * * * *	* * * *	OK OF ERR	ERR	
		Blue Magenta Reset Red Yellow Green Cyan Blue Magenta Reset Red Yellow		M M M M M M M M	H H R S S S S S S S S V V	B M E R Y G C B M E R Y	- - - - - - - - - -	* * * * * * * * * * * * * * * * * * * *		* * * *	OK or ERR	ERR	
SCOUNT		Blue Magenta Reset Red Yellow Green Cyan Blue Magenta Reset Red Yellow Green		M M M M M M M M	H H R S S S S S S S S V V	B M E R Y G C B M E R Y		* * * * * * * * * * * * * * * * * * * *		* * * *	OK or ERR	ERR	
SCOUNT		Blue Magenta Reset Red Yellow Green Cyan Blue Magenta Reset Red Yellow Green		M M M M M M M M M	H H S S S S S S S V V	B M E R Y G C B M E R Y		* * * * * * * * * * * * * * * * * * * *		* * * *	OK or ERR	ERR	
SCOUNT		Blue Magenta Reset Red Yellow Green Cyan Blue Magenta Reset Red Yellow Green Cyan Cyan Blue Magenta Reset Red Yellow Green Cyan		M M M M M M M M M	H H S S S S S S S V V	B M E R Y G C B M E R Y	- - - - - - - - - - - - - - - - - -			* * * *	OK OF ERR	ERR	
scount		Blue Magenta Reset Red Yellow Green Cyan Blue Magenta Reset Hed Yellow Green Cyan Blue Magenta Reset Hed Yellow Green Cyan		M M M M M M M M M M M M	H H R S S S S S S V V V	B M E R Y G C B M E R Y G G C B		* * * * * * * * * * * * * * * * * * * *		* * * *	OK or ERR	ERR	
SCOUNT		Blue Magenta Reset Red Yellow Green Cyan Blue Magenta Reset Red Yellow Gren Green Cyan Blue Magenta Blue Blue Madenta		M M M M M M M M M M M M	H H R S S S S S S S V V V V	B M E R Y G C B M E R Y G C B M E R	- - - - - - - - - -	* * * * * * * * * * * * * * * * * * * *		* * * * * * * * * *	OK OF ERR	ERR	
SCOUNT	Value SOUR(Blue Magenta Reset Red Yellow Green Cyan Blue Magenta Reset Red Yellow Green Cyellow Green Green Green Green Green Green Green		M M M M M M M M M M M M M	H H R S S S S S S S S V V V V V R	B M E R Y G C B M E R Y G C B M E R	- - - - - - - - - -	* * * * * * * * * * * * * * * * * * * *		* * * * * * * * * 4	OK or ERR	ERR	
SCOUNT THE TRUSTED	Value SOUR(C.M.S. All Rese	Blue Magenta Reset Red Yellow Green Cyan Blue Magenta Reset Red Yellow Green Cyellow Green Green Green Green Green Green Green		M M M M M M M M M M M M M M M M M M M	H H R S S S S S S S S V V V V V R R	B M E R Y G C B M E R Y G C B M E R Y G C B M E R Y G C B M E E	- - - - - - - - - - - - - - -	* * * * * * * * * * * * * * * * * * * *		* * * * * * * * * 4	OK or ERR	ERR	
SCOUNT	Value SOUR(C.M.S. All Rese -150 - +150	Blue Magenta Reset Red Yellow Green Cyan Blue Magenta Reset Red Yellow Green Cyellow Green Green Green Green Green Green Green		M M M M M M M M M M M M M M M M M M M	H H R S S S S S S S S V V V V V V R R C	B M E R Y G C B M E R Y G C L L		* * * * * * * * * * * * * * * * * * * *		* * * * * * * * * 4	OK OF ERR	ERR	
SCOUNT THE TRUSTED	Value SOUR(C.M.S. All Rese -150 - +150	Blue Magenta Reset Red Yellow Green Cyan Blue Magenta Reset Red Yellow Green Cyellow Green Green Green Green Green Green Green		M M M M M M M M M M M M M M M M M M M	H H R S S S S S S S S V V V V V R R	B M E R Y G C B M E R Y G C L L	-	* * * * * * * * * * * * * * * * * * * *		* * * * * * * * * 4	OK or ERR	ERR	
SCOUNT THE TRUSTED	C.M.S. All Rese: -150 - +150 -30 - +30	Blue Magenta Reset Red Yellow Green Cyan Blue Magenta Reset Red Yellow Green Cyellow Green Green Green Green Green Green Green		M M M M M M M M M M M M M M M M M M M	H H R S S S S S S S S V V V V V V R R C	B M E R Y G C B M E R Y G C B M E R Y G C B M E R Y G C B M E L H		* * * * * * * * * * * * * * * * * * * *		* * * * * * * * * 4	OK OF ERR	ERR	
SCOUNT THE TRUSTED	Value SOUR(C.M.S. All Rese -150 - +150	Blue Magenta Reset Red Yellow Green Cyan Blue Magenta Reset Red Yellow Green Cyellow Green Green Green Green Green Green Green		M M M M M M M M M M M M M M M M M M M	H H R S S S S S S R V V V V V R R C P	B M E R Y G C B M E E L H P		* * * * * * * * * * * * * * * * * * * *		* * * * * * * * * 4	OK OF ERR	ERR	

RS-232C Specifications and Commands (Continued)

	CONTROL CONTE	NTC		00.		NID.		A D .			R	ETURN
		NIS			ИMA	_	L.	ARAMETER		ER	Power ON	Standby mode (or 30-second startup time
	-96 - +96				1 D			*	*	*	OK or ERR	ERR
OSD Display	On		1		1 D		-	-	-	1	OK or ERR	ERR
	Off				1 D		-	_	- -	0	OK or ERR	ERR
/ideo System	Auto		N.		S			-		1	OK or ERR	ERR
	PAL		N.				-	Ι-		2	OK or ERR	ERR
	SECAM		N.	1 E	S	Y	1_	T	Τ-	3	OK or ERR	ERR
	NTSC4.43		N.	1 E	S	Y	1_	Τ_		4	OK or ERR	ERR
	NTSC3.58		N	1 E	S	Y	1-	1_		5	OK or ERR	ERR
	PAL-M		I.				1_	t		6	OK or ERR	ERR
	PAL-N		N				1_	t	1_	7	OK or ERR	ERR
	PAL-60			1 E				t	$^{+}$	8	OK or ERR	ERR
Background	Logo		- l'i		1 B			F	╫	1	OK or ERR	ERR
Dackground	Blue		- li		1 B			H	┾	3	OK or ERR	ERR
		None			1 B			₽	+-	4	OK or ERR	ERR
SD Display deo System ackground amp Setting uto Sync uto Power Off uto Restart TANDBY Mode RJ Mode anguage etup Guide ystem Sound ternal Speaker GB Frequency								₽	+-			
amp Setting.	Bright		1		l N			₽	+-	0	OK or ERR	ERR
	Eco + Quiet		1		l N			₽	-	1	OK or ERR	ERR
Auto Sync	On		A					1-	-	1	OK or ERR	ERR
	Off		A					_		0	OK or ERR	ERR
ackground amp Setting uto Sync uto Power Off uto Restart TANDBY Mode RJ Mode anguage etup Guide ystem Sound iternal Speaker	On		A			W		l –	- -	1	OK or ERR	ERR
	Off		A	\ P	, C	W	/ _	-		0	OK or ERR	ERR
Auto Power Off Auto Restart STANDBY Mode PRJ Mode	On		A	\ F	RΕ	S	5 -	T	-	1	OK or ERR	ERR
	Off		F	(F	₹ E	Is	<u> </u>	1_		0	OK or ERR	ERR
	Standard		N		υ			t	T	1	OK or ERR	ERR
	Eco		N		υ			t	T	0	OK or ERR	ERR
PR I Mode	Reverse	On	- l ï		1 R			╀	+-	1	OK or ERR	ERR
STANDBY Mode	licvoisc	Off	Ti		1 R			╀	+=	0	OK or ERR	ERR
	Invert	On	- l i					₽	┾	1	OK or ERR	ERR
	invert							₽	+-	0		
		Off				N		₽	-	-	OK or ERR	ERR
.anguage		English		1 E				-	-	1	OK or ERR	ERR
anguage	Deutsch		/ N					1-	-	2	OK or ERR	ERR
	Español		N.					1-	-	3	OK or ERR	ERR
	Nederlands		N.			A		_	- -	4	OK or ERR	ERR
	Français		N.					_	-	5	OK or ERR	ERR
	Italiano		N.					-		6	OK or ERR	ERR
	Svenska		N	1 E	E	A	\ _	Τ_	. _	7	OK or ERR	ERR
	日本語		N.	1 E	E	Α	\ _	Τ_		8	OK or ERR	ERR
	Português		N	1 E	L	A	\ _	1_	. _	9	OK or ERR	ERR
	汉语			1 E	ī	A	1	t	. 1	0	OK or ERR	ERR
	한국어		N					t	. 1		OK or ERR	ERR
	Русский	/	N		L			t	. 1		OK or ERR	ERR
	عربى		I.					F	1		OK or ERR	ERR
	polski		N.					H	1		OK or ERR	ERR
	Türkçe		, N		ī			╀		5	OK or ERR	ERR
	iurkçe		N N					₽	1		OK or ERR	ERR
								₽				
	Magyer		N					₽	. 1	-	OK or ERR	ERR
setup Guide	On		5					1-	-	1	OK or ERR	ERR
	Off		5					1-	- -	0	OK or ERR	ERR
System Sound	On		5					1-	1-	1	OK or ERR	ERR
	Off		5					Ŀ	1-	0	OK or ERR	ERR
nternal Speaker	On		A					E	Œ	1	OK or ERR	ERR
	Off		A	S	P	K	[_	Γ		0	OK or ERR	ERR
RGB Frequency	Horizontal		1	F	F	C	1 _	1_	-	1	kHz(***.* or ERR)	ERR
Check	Vertical		1	F			1_	t_	1_	2	Hz(***.* or ERR)	ERR
an Mode	Normal		H			D		t.	1.	0	OK or ERR	ERR
	High		- i	-				t	Ť	1	OK or ERR	ERR
	Lingii			- 1 -	- 110	10	1 -	I =	1 -			1



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

Computer Compatibility Chart

Computer

 Multiple signal support Horizontal Frequency: 15-110 kHz, Vertical Frequency: 45-85 Hz, Pixel Clock: 12-170 MHz Sync signal: Compatible with TTL level

Compatible with sync on green signal

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

PC/MAC	F	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	VESA Standard	DVI-D Support	Display	
			27.0	60				
		640 × 350	31.5	70	1			
			37.5	85	~	1		
			27.0	60				
		640 × 400	31.5	70		· ·		
			37.9	85	~	1		
			27.0	60				
		720 × 350	31.5	70	1			
	VGA		27.0	60				
		720 × 400	31.5	70	1			
			37.9	85	V	1		
			26.2	50		1		
			31.5	60	~	1	Upscale	
			34.7	70		1		
		640 × 480	37.9	72	~	1		
			37.5	75	~	1		
			43.3	85	~	1		
			31.4	50	-	1		
			35.2	56	_	i		
		800 × 600	37.9	60	-			
	SVGA		46.6	70	-			
	10,000		48.1	72				
			46.9	75	V			
			53.7	85	· ·			
PC			40.3	50	•			
		1024 × 768	48.4	60	· ·		True	
	XGA		56.5	70	V			
	, AGA		60.0	75	V			
			68.7	85	· ·			
	_	1280 × 720	45.0	60	_			
		1280 × 768	47.8	60	~	-		
		1280 × 708	49.7	60	-			
	WXGA	1280 × 800	62.8	75	-	1		
	, , , , , , , ,	1360 × 768	47.7	60	· ·	1		
		1366 × 768	47.8	60	_			
	_	1300 × 700	55.0	60			Intelligent	
			1152 × 864	66.2	70			Compression
	SXGA	1132 \ 004	67.5	75	V		Compression	
	SAGA	1280 × 1024	64.0	60	V			
		1280 × 1024	80.0	75	V			
		1200 / 1024	64.0	60				
	SXGA+	1400 × 1050	65.3	60				
	UXGA	1600 × 1200		60	V			
1110 101	VGA	640 × 480	75.0 34.9	67				
MAC 13"							Upscale	
MAC 16"	SVGA	832 × 624	49.7	75				
MAC 19"	XGA	1024 × 768	60.2	75			True	
MAC 21"	SXGA	1152 × 870	68.7	75			Intelligent Compressi	



- When this projector receives 640 × 350 VESA format VGA signals, "640 × 400" appears on the screen.
- Optimum image quality will be achieved by matching your computer's output resolution to the resolution that corresponds to "True" in the "Display" column shown above.
- When "Screen resolution" of the computer is different from the resolution displayed on the projected image, follow the procedures shown below.
 - -Refer to "Select the resolution" for "Data image is not centered" on the Help menu and select the same
- resolution as the resolution in "Screen resolution" of the computer.

 Depending on the computer you are using, the output signal may not be faithful to the "Screen resolution" adjustment. Check the settings of the computer's signal output. If the settings cannot be changed, it is recommended that the resolution be set to the one that corresponds to "True" in the "Display" column.

DTV TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Signal	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	DVI-D Support (Compatible with HDCP)	Signal	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	DVI-D Support (Compatible with HDCP)
480I	15.7	60		720P	45.0	60	· ·
480P	31.5	60	V	1035I	33.8	60	· · ·
540P	33.8	60		1080I	28.1	50	· · ·
576I	15.6	50		1080I	33.8	60	· ·
576P	31.3	50	~	1080P	56.3	50	· ·
720P	37.5	50	V	1080P	67.5	60	V

Troubleshooting

Problem	Check	Page
	Projector power cord is not plugged into the wall outlet.	24
	Power to the external connected devices is off.	-
	The selected input mode is wrong.	29
	Cables are incorrectly connected to the projector.	21-24
	Remote control battery has run out.	14
	External output has not been set when connecting notebook computer.	21
o picture and no sound	The lamp unit cover is not installed correctly.	53, 54
or projector does not start.	If the connected DVI digital equipment is turned on before the "DVI-D" input mode is selected on the projector, the image may not be projected properly or may not be displayed at all. Ensure that the appropriate input mode has been selected on the projector before you turn on the connected equipment.	21
	Cables are incorrectly connected to the projector.	21–24
	"Bright" is set to minimum position.	41
Sound is heard but no picture appears (or picture is dark).	 Depending on the computer you are using, an image may not be projected unless the signal output setting of the computer is switched to the external output. Refer to the computer's operation manual for how to switch its signal output settings. 	_
	 Image adjustments are incorrectly set. Make adjustments of "Color" and "Tint" in "Picture Mode" and lower the "BrilliantColor™ value. 	41
Color is faded or poor.	(Video Input only) Video input system is incorrectly set.	48
00101 13 14404 01 p001.	a Adjust the feeting	26
6-4-	Adjust the focus. The state of the focus of the foc	
1600	The projection distance exceeds the focus range.	20
Picture is blurred;	 There is fog on the lens. If the projector is carried from a cold room into a warm room, or if it is suddenly heated, condensation may form on the surface of the lens and the image will become blurred. Set up the projector at least one hour before it is to be used. If condensation should form, remove the power cord from the wall outlet and wait for it to clear. 	
noise appears.	(Computer Input only)	
appouro.	Perform "Fine Sync" Adjustments ("Clock" Adjustment) Perform "Fine Sync" Adjustments ("Place" Adjustment)	48
	Perform "Fine Sync" Adjustments ("Phase" Adjustment) Naise may appear depending on the computer	48
/	Noise may appear depending on the computer.	- 04 04
	Cables are incorrectly connected to the projector.	21–24
ixYourselean	Volume is set to minimum. When the projector is connected to an external device and the volume is set to minimum, the sound is not output even if you turn up	29
Picture appears but no	the volume of the external device.	-88
sound is heard.	• "Speaker" is set to "Off". ECTOR LAMPS AND ACCESS	6RIES
Data image is not centered.	Select "Data image is not centered" in the "Help" menu and make the necessary adjustments.	48
	Depending on the computer you are using, the output resolution signal may be different from the one you have set. For details, refer to the operation manual of the computer.	-

Problem	Check	Page
An unusual sound is occasionally heard from the cabinet.	If the picture is normal, the sound is due to cabinet shrinkage caused by room temperature changes. This will not affect operation or performance.	-
Maintenance indicator on the projector illuminates or blinks in red.	See "Maintenance Indicators".	50
The projector cannot be turned on or put into the standby mode using STANDBY/ON on the projector.	The keylock is set. If the keylock is set to "ON", all the buttons are locked.	47
Picture is green on COMPUTER (Component)/ DVI (Component).	Change the input signal type setting. When you cannot select an input signal type, select "Color is faded or poor" in the "Help" menu, after selecting an item other than "sRGB" in "Picture Mode", and then select an input signal type.	48 40, 48
Picture is pink (no green) on COMPUTER (RGB)/ DVI (RGB).		
Picture is too bright and whitish.	Image adjustments are incorrectly set.	41
The cooling fan becomes noisy.	When temperature inside the projector increases, the cooling fan runs faster.	8, 9 49, 50, 51
The lamp does not light up even after the projector turns on.	The lamp indicator is illuminating in red. Replace the lamp.	50, 53
The lamp suddenly turns off during projection.		
The image sometimes flickers.	Cables are incorrectly connected to the projector or the connected equipment works improperly.	21–24
	 Select "Vertical stripes or flickering image appear" in the "Help" menu and make the necessary adjustments. If this happens frequently, replace the lamp. 	53
The lamp needs much time to turn on.	The lamp will eventually need to be changed. While the remaining lamp life draws to a close, replace the lamp.	53
Picture is dark.	3	
The remote control cannot be used.	Operate the remote control while pointing it at the projector's remote control sensor. The remote control may be too far away from the projector. If direct sunlight or a strong fluorescent lamp is shining on the projector's remote control sensor, place the projector where it will not be affected by strong light.	15
FixYourDLP.com	The batteries may be depleted or inserted incorrectly. Make sure the batteries are inserted correctly or insert new ones.	14

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

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 64 and 65. If this operation manual does not answer your question, please contact the SHARP Service departments listed below.

U.S.A. Sharp Electronics Corporation Benelux

1-888-GO-SHARP (1-888-467-4277)

lcdsupport@sharpsec.com http://www.sharpusa.com

Canada Sharp Electronics of Canada Ltd.

(905) 568-7140

http://www.sharp.ca

Mexico Sharp Electronics Corporation

Mexico Branch (525) 716-9000

http://www.sharp.com.mx

Latin America Sharp Electronics Corp. Latin

American Group (305) 264-2277

www.servicio@sharpsec.com http://www.siempresharp.com

Sharp Electronics (Europe) GMBH Germany

01805-234675

http://www.sharp.de

U.K. Sharp Electronics (U.K.) Ltd.

08705 274277

http://www.sharp.co.uk/customersupport

Italy Sharp Electronics (Italy) S.P.A.

(39) 02-89595-1 http://www.sharp.it

France Sharp Electronics France

01 49 90 35 40

hotlineced@sef.sharp-eu.com

http://www.sharp.fr

Spain Sharp Electronica Espana, S.A.

93 5819700

sharplcd@sees.sharp-eu.com

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cattaneo@sez.sharp-eu.com

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Branch Office Austria 0043 1 727 19 123

pogats@sea.sharp-eu.com http://www.sharp.at

SHARP Electronics Benelux BV

0900-SHARPCE (0900-7427723)

Nederland

9900-0159 Belaium http://www.sharp.nl http://www.sharp.be

http://www.sharp.lu

Australia Sharp Corporation of Australia Ptv.

1300-135-022

http://www.sharp.net.au

New Zealand Sharp Corporation of New Zealand

Phone: (09) 573-0111 Fax: (09) 573-0112 http://www.sharp.net.nz

Singapore Sharp-Roxy Sales (S) Pte. Ltd.

65-226-6556

ckng@srs.global.sharp.co.jp http://www.sharp.com.sg

Hong Kong Sharp-Roxy (HK) Ltd.

Taiwan

Malavsia

Thailand

Korea

U.A.E.

(852) 2410-2623

dcmktg@srh.global.sharp.co.jp

http://www.sharp.com.hk

Sharp Corporation (Taiwan) 0800-025111

http://www.sharp-scot.com.tw

Sharp-Roxy Sales & Service Co. (60) 3-5125678

Sharp Middle East Fze

971-4-81-5311

helpdesk@smef.global.sharp.co.ip

Sharp Thebnakorn Co. Ltd.

02-236-0170

svc@stcl.global.sharp.co.jp http://www.sharp-th.com

Sharp Electronics Incorporated of Korea

(82) 2-3660-2002

lcd@sharp-korea.co.kr

http://www.sharpkorea.co.kr

Sharp Business Systems (India) Limited D

(91) 11- 6431313 service@sharp-oa.com

Specifications

Model		PG-F212X-L			
Display devices		0.55" DLP® Chip			
Resolution		XGA (1024 × 768)			
Lens	F number	F 2.5 – 2.6			
	Zoom	Manual, $\times 1.15$ (f = 20.4 – 23.5 mm)			
	Focus	Manual			
Input terminals	DVI-I (Compatible with HDCP)	×1			
	RGB/Component (mini D-sub 15 pin)	x1			
	S-Video (mini DIN 4 pin)	×1			
	Video (RCA)	×1			
	Audio (ø3.5 mm stereo minijack)	×1			
	Audio (RCA)	×1 (L/R)			
Output terminals	RGB/Component (mini D-sub 15 pin)	×1			
	Audio (ø3.5 mm stereo minijack)	×1 (variable audio output)			
Control, others	USB (Type B)	×1			
	RS-232C (mini DIN 9 pin)	×1			
Speakers		2 W (Mono)			
Projection lamp		210 W			
Rated voltage		AC 100 – 240 V			
Rated frequency		50/60 Hz			
Input current		3.0 A			
Power consumption	on (Standby)	280 W (5.0 W) with AC 100 V			
		272 W (5.7 W) with AC 240 V			
Operation temper	ature	41°F to 95°F (+5°C to +35°C)			
Cabinet		Plastic			
Dimensions (mair	body only) $[W \times H \times D]$	10 ⁴¹ / ₆₄ " × 3 ³³ / ₆₄ " × 10 ⁷ / ₁₆ "			
		(270 × 89 × 265 mm)			
Weight (approx.)		6.4 lbs. (2.9 kg)			

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

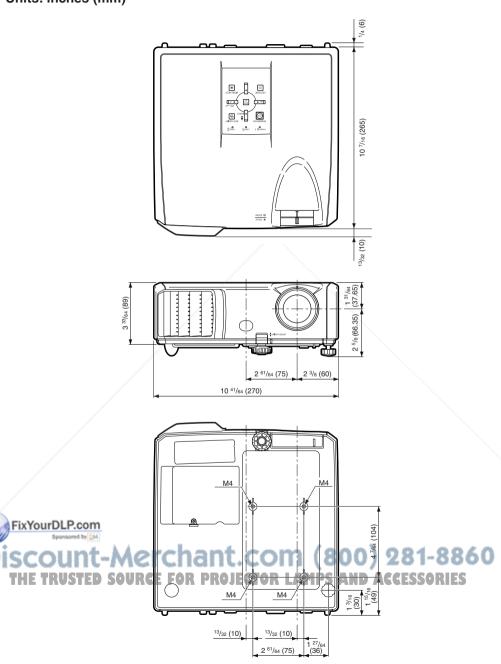


Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Appendix

Dimensions

Units: inches (mm)



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