

MULTIMEDIA PROJECTOR MODEL XR-32X-L XR-32S-L

OPERATION MANUAL





DEPETURE BY TEXAS INSTRUMENTS

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 \heartsuit or \circledast 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, Chinese, Korean and Arabic. Carefully read through the operation instructions before operating the projector.

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

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

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

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

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

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

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

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

제공된 CD-ROM에는 영어, 독일어, 프랑스어, 스페인어, 이탈리아어, 네 덜란드어, 스웨덴어, 포르투갈어, 중국어, 한국어 그리고 아라비아어로 작성 된 조작 설명서가 포함되어 있습니다. 프로젝터를 조작하기 전에 조작 지침 을 상세하게 숙지하십시오.

يحتوي القرص المضغوط المرفق مع المنتج على تعليمات التشغيل باللغة الإنجليزية، الألمانية، الفرنسية، الإسبانية، الإيطالية، الهولندية، السويدية، البرتغالية، الصينية، الكورية والعربية. برجاء قراءة تعليمات التشغيل بعناية قبل الشروع في تشغيل جهاز الإسقاط.

ENGLISH

Introduction

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: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS EXCEPT LAMP UNIT. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk or electric shock to persons.

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

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

U.S.A. ONLY

INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the operation manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

U.S.A. ONLY

Declaration of conformity

SHARP PROJECTOR, MODEL XR-32X-L/XR-32S-L

This device complies with Part 15 of the FCC rules. Operation is subject to the following conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Responsible Party:

SHARP ELECTRONICS CORPORATION Sharp Plaza, Mahwah, New Jersey 07495-1163 TEL: 1-800-BE-SHARP (1-800-237-4277)

U.S.A. ONLY

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 (XR-32X)/480,000 (XR-32S) 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.

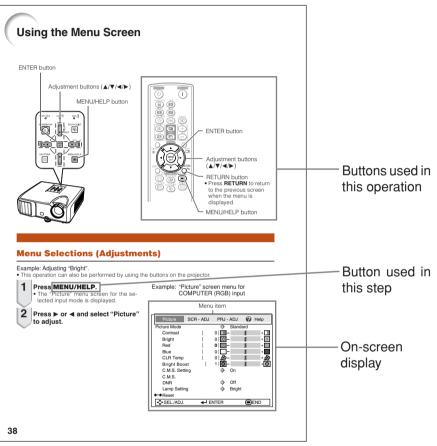
Authorized representative responsible for the European Union Community Market

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

E.U. ONLY

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. The examples used throughout this manual are based on the XR-32X model.



InfoIndicates safeguards for using the projector.

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

For Future Reference



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IMPORTANT SAFEGUARDS

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

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

1. Read Instructions

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

2. Retain Instructions

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

3. Heed Warnings

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

4. Follow Instructions

All operating and use instructions should be followed.

5. Cleaning

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

6. Attachments

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

7. Water and Moisture

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

8. Accessories

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

9. Transportation

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



10. Ventilation

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

11. Power Sources

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

12. Grounding or Polarization

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

- Do not defeat the safety purpose of the plug.
- a. Two-wire type (mains) plug.
- b. Three-wire grounding type (mains) plug with a grounding terminal.

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

13. Power-Cord Protection

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

14. Lightning

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

15. Overloading

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

16. Object and Liquid Entry

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

17. Servicing

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

18. Damage Requiring Service

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

- a. When the power-supply cord or plug is damaged.
- b. If liquid has been spilled, or objects have fallen into the product.
- c. If the product has been exposed to rain or water.
- d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
- e. If the product has been dropped or damaged in any way.
- 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 United States.
- Adobe® Reader® is a trademark of Adobe Systems Incorporated.
- Macintosh[®] is a registered trademark of Apple Computer, Inc. in the United States and/or other countries.
- All other company or product names are trademarks or registered trademarks of their respective companies.
- 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

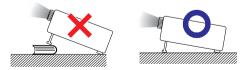
For minimal servicing and to maintain high image quality, SHARP recommends that this projector be installed in an area free from humidity, dust and cigarette smoke. When the projector is subjected to these environments, the vents and lens must be cleaned more often. As long as the projector is regularly 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°F to 140°F (-20°C to +60°C).

Do not block the exhaust and intake vents.

- Allow at least 11 ¹³/₁₆ inches (30 cm) of space between the exhaust vent and the nearest wall or obstruction.
- Ensure that the intake vent and the exhaust vent are not obstructed.
- If the cooling fan becomes obstructed, a protection circuit will automatically put the projector into standby mode to prevent overheat damage. This does not indicate a malfunction. (See pages 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

ТЕМР.

■ If the projector starts to overheat due to setup problems or blockage of the air vents, " **X**" 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.

(6) Double click the language (name of the

(7) Double click the pdf file to access the pro-

folder) that you want to view.

jector manuals.

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)).

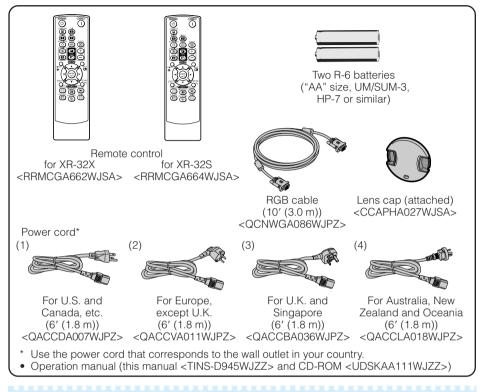
- ① Insert the CD-ROM in the CD-ROM drive.
- 2 Double click the "My Computer" icon.
- 3 Double click the "CD-ROM" drive.
- ④ Double click the "MANUALS" folder.
- (5) Double click the model (name of the folder) that you want to view.

🗞 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



🗞 Note

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

Optional accessories

Lamp unit	AN-F212LP
Ceiling-mount adaptor	AN-60KT AN-XRCM30 (for U.S.A. only)
Ceiling-mount unit	AN-TK201 <for an-60kt=""> AN-TK202 <for an-60kt=""> AN-EP101B <for an-xrcm30=""> (for U.S.A. only)</for></for></for>
 Remote receiver 3 RCA to mini D-sub 15 pin cable (10' (3.0 m)) DIN-D-sub RS-232C adaptor (5 ⁵⁷/₆₄" (15 cm)) 	AN-MR2 AN-C3CP2 AN-A1RS

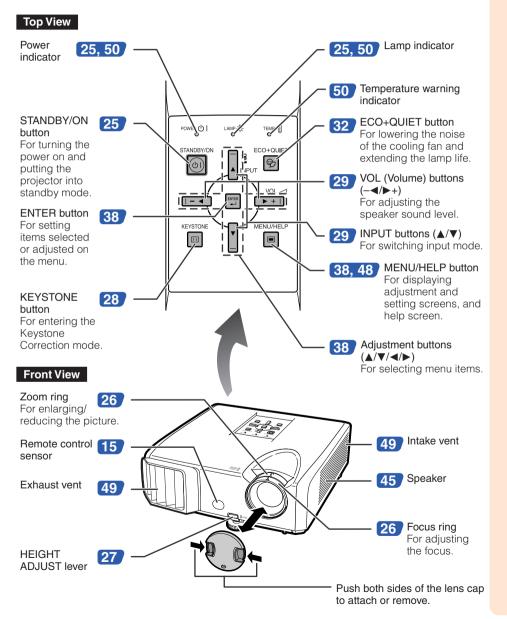
🗞 Note

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

Part Names and Functions

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

Projector

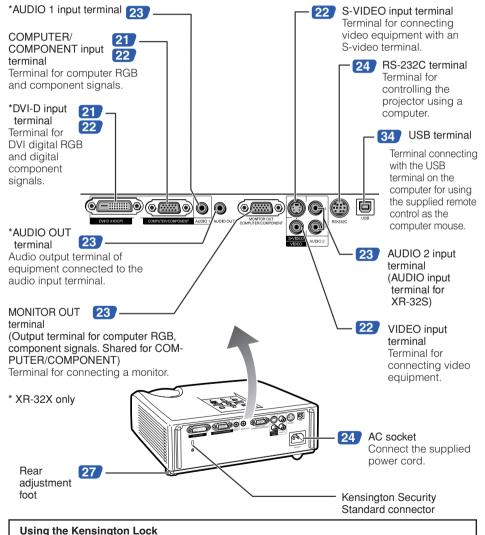


Part Names and Functions (Continued)

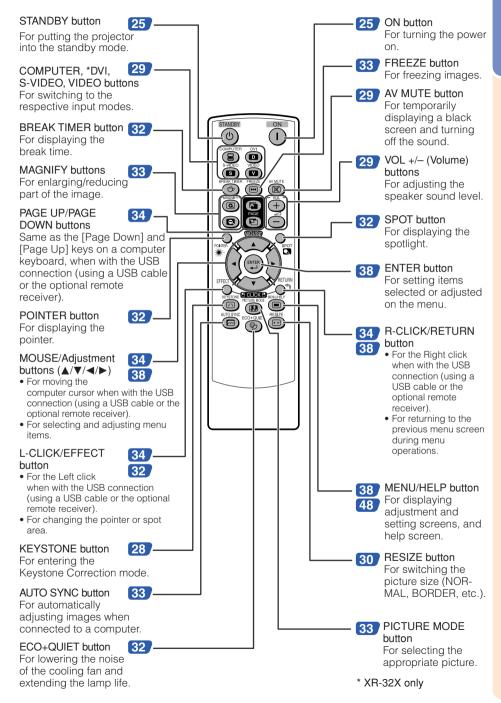
Numbers in pages in this operation manual where the topic is explained.

Rear View



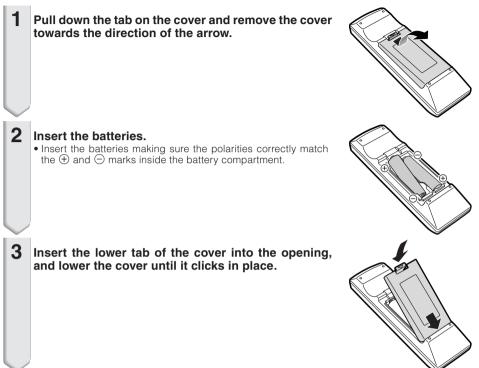


• This projector has a Kensington Security Standard connector for use with a Kensington MicroSaver Security System. Refer to the information that came with the system for instructions on how to use it to secure the projector.



Part Names and Functions (Continued)

Inserting the Batteries



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

🕂 Caution

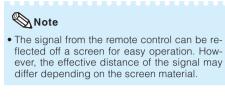
- Danger of explosion if battery is incorrectly replaced. Replace only with alkaline or manganese batteries.
- Insert the batteries making sure the polarities correctly match the \oplus and \bigcirc marks inside the battery compartment.
- Batteries of different types have different properties, therefore do not mix batteries of different types.
- Do not mix new and old batteries.
 This may shorten the life of new batteries or may cause old batteries to leak.
- Remove the batteries from the remote control once they have run out, as leaving them in can cause them to leak.

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

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

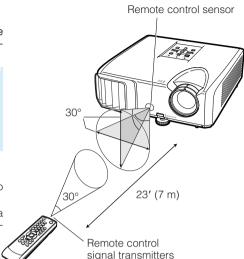
Usable Range

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



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.



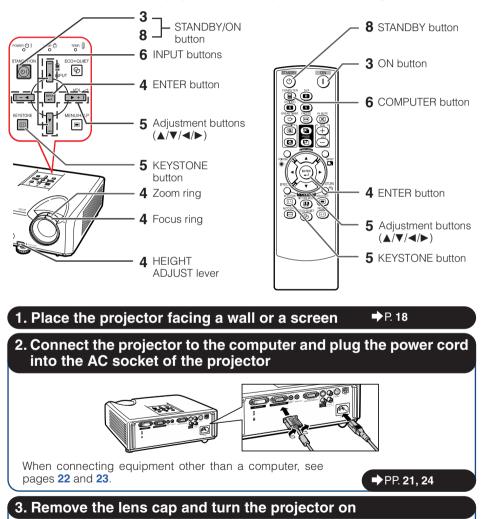
Remote control

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.



On the projector

STANDBY/ON

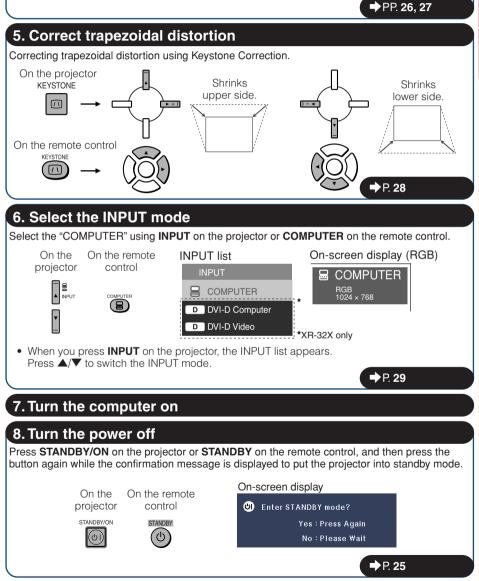
ON

On the remote control

P. 25



- 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.



Setting up the Projector

Setting up the Projector

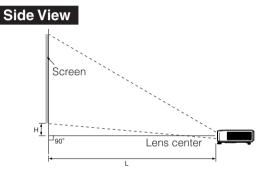
For optimal image quality, position the projector perpendicular to the screen with the projector's feet flat and level. Doing so will eliminate the need for Keystone correction and provide the best image quality. (See page **28**.)

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

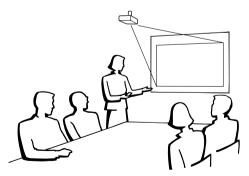


Note

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

Ceiling-mount Setup

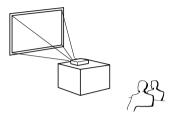
It is recommended that you use the optional Sharp ceiling-mount adaptor and unit for this installation. Before mounting the projector, contact your nearest Sharp Authorized Projector Dealer or Service Center to obtain the recommended ceiling-mount adaptor and unit (sold separately).



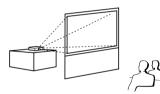
Projection (PRJ) Mode

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.)

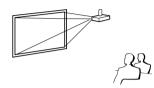
■ Table mounted, front projection [Menu item → "Front"]



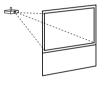
■ Table mounted, rear projection (with a translucent screen) [Menu item → "Rear"]



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

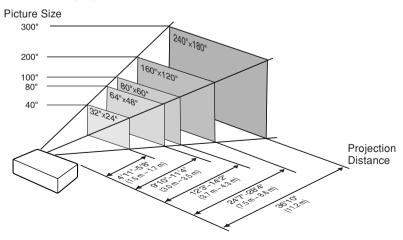


■ Ceiling mounted, rear projection (with a translucent screen) [Menu item → "Ceiling + Rear"]



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	cture (Screen) size Projection distance [L] Distance from the lens center				
Diag. [X]	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)

STRETCH Mode (16:9)

	ture (Screen) s Width	size Height	Projection (Minimum [L1]	distance [L] Maximum [L2]	Distance from the lens center to the bottom of the image [H]	Adjustable range of image position [S]
Diag. [X]		- U			0 ()	
250" (635 cm)	553 cm (218")	311 cm (123")	10.2 m (33' 6")	11.8 m (38′ 8″)	69 cm (27 ¹⁹ / ₆₄ ")	\pm 52 cm (\pm 20 $^{27}/_{64}$ ")
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 (±16 $^{11}\!/_{32}{''})$
150" (381 cm)	332 cm (131")	187 cm (74")	6.1 m (20' 1")	7.1 m (23' 2")	42 cm (16 ³ /8")	±31 cm (±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 (±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 (±6 $^{17}\!/_{32}{''})$
60" (152 cm)	133 cm (52")	75 cm (29")	2.4 m (8' 0")	2.8 m (9' 3")	17 cm (6 35/64")	±12 cm (±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 $^{17}\!/_{64}{''})$

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)

S: Adjustable range of image position (cm/in) See page 43.

The formula for picture size and projection distance

The formula for picture size and projection distance

[Feet/inches]

L1 (ft) = 0.03745 χ / 0.3048

L2 (ft) = 0.04323 × / 0.3048

 $H(in) = 0.064\chi / 2.54$

[m/cm] L1 (m) = 0.0408 L2 (m) = 0.0471 H (cm) = 0.27727 S (cm) = ±0.20754 X

[m/cm]

L1 (m) = 0.03745χ

L2 (m) = 0.04323X

 $H(cm) = 0.064\chi$

 $\label{eq:linear_state} \begin{array}{l} \textbf{[Feet/inches]} \\ \text{L1 (ft)} = 0.0408 \chi \, / \, 0.3048 \\ \text{L2 (ft)} = 0.0471 \chi \, / \, 0.3048 \\ \text{H (in)} = 0.27727 \chi \, / \, 2.54 \\ \text{S (in)} = \pm 0.20754 \chi \, / \, 2.54 \end{array}$

Note

- Refer to page 18 concerning "Projection distance [L]" and "Distance from the lens center to the bottom of the image [H]".
- Allow a margin of error in the values in the diagrams above.

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.

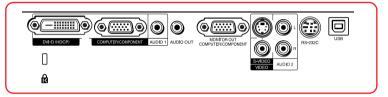
IMPORTANT:

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

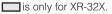
- For more details of connection and cables, refer to the operation manual of the connecting equipment.
- You may need other cables or connectors not listed below.

Terminals on the Projector

Example: Terminals of XR-32X



Equipment	Terminal on connected equipment	Cable	Terminal on the projector
Computer	RGB output terminal	RGB cable (supplied)	
	DVI digital output terminal	DVI Digital cable (commercially available)	



🗞 Note

- See page 62 "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	Cable	Terminal on the
	connected equipment HDMI	HDMI to DVI cable	projector
Video equipment	output	(commercially available)	
	terminal		DVI-D
		DVI Digital cable (commercially available)	DVHD (HDCP)
••	output terminal		
	Component video output	3 RCA to mini D-sub 15 pin cable (optional, AN-C3CP2)	COMPUTER/ COMPONENT
	terminal		())
	$\odot \odot \odot$		COMPUTER/COMPONENT
	S-video output terminal	S-video cable (commercially available)	S-VIDEO
			O
			S-TDEO
	Video output terminal	Video cable (commercially available)	VIDEO
		·/	O
Camera/Video game		Cables for a camera or a video game/3 RCA to mini D-sub 15 pin cable (optional,	COMPUTER/ COMPONENT
	Component video		
	output terminal		00
(management)	termina	RCA adaptor plug (commercially available)	COMPUTER/COMPONENT
	0.11	Cables for a camera or a video game	S-VIDEO
	S-video output		O
	terminal		S-ADEO
	Video	Cables for a camera or a video game	VIDEO
	Video output		
	terminal		V1060

is only for XR-32X.

📎 Note

• Only for XR-32X:

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 trans-

- 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 (XR-32X) AUDIO (XR-32S)
	Audio output terminal	Cables for a camera or a video game	AUDIO 2
Monitor	RGB input terminal	RGB cable (supplied or commercially available)	
Amplifier	ø3.5 mm audio input terminal		AUDIO OUT
	RCA audio input terminal	ø3.5 mm stereo minijack to RCA audio cable (commercially available)	AUDIO OUT

is only for XR-32X.

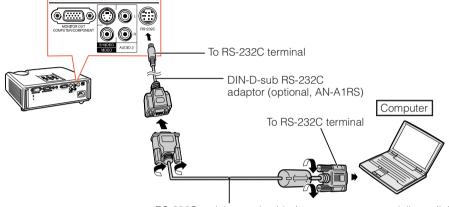
Note 📎

- Only for XR-32X:
 - 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 (optional, AN-A1RS) 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 **57** 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)

🗞 Note

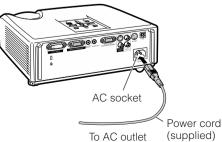
- The RS-232C function may not operate if your computer terminal is not correctly set up. Refer to the
 operation manual of the computer for details.
- See page 56 for connection of an RS-232C serial control cable.

🛄 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

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

🗞 Note

About the Lamp Indicator

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

Green: The lamp is on.

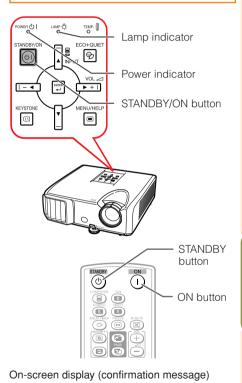
Blinking in green: The lamp is warming up. Red: The lamp is shut down abnormally or the lamp should be replaced.

- 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.

📕 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.



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

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

• The projector cannot be turned on while cooling. () Enter STANDBY mode?

Yes : Press Again

No:Please Wait

🚺 Info

• Direct Power Off function: You can unplug the power cord from the AC outlet even if the cooling fan is still running.

Image Projection

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:

P⁺¹ FOCUS → 2 HEIGHT ADJUST-

— 4 ENTER ← 3 ZOOM ←

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.

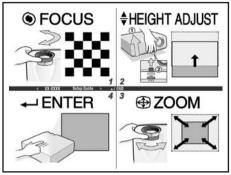
Rotate the focus ring to adjust the focus while watching the projected image.

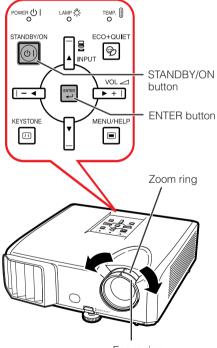
2 Adjusting the Picture Size

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

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

Setup Guide screen





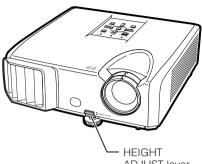
Focus ring

3 Adjusting the Height

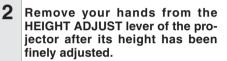
The height of the projector can be adjusted using the adjustment feet at the front and rear of the projector.

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

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







• The angle of projection is adjustable up to 9 degrees from the surface on which the projector is placed.



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

• The projector is adjustable ±2 degrees from the standard position.

📎 Note

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

🛄 Info

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

Rear adjustment foot

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 (XR-32X)/±20 (XR-32S) degrees and the screen can also be set up to an angle of approximately ±40 (XR-32X)/±20 (XR-32S) 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.
- 2 Press **▲**/**▶** or **◄**/**▼** to adjust the Keystone Correction.
 - You can also adjust the Keystone Correction using the adjustment buttons on the projector.

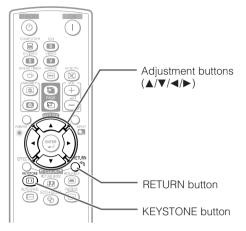
🗞 Note

3

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

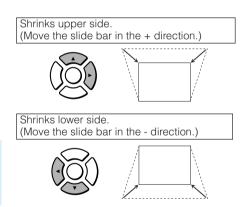
Press KEYSTONE.

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



On-screen display (Keystone Correction mode)

🗥 KEYSTONE	0] 🔽 –		+ 🛆
ADJUST		(A) E	END



📕 Info

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

Switching the Input Mode

Select the appropriate input mode for the connected equipment.

Press COMPUTER. DVI (XR-32X only). 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 (XR-32X only), the INPUT list appears.

Press \blacktriangle/∇ to switch the INPUT mode.

Adjusting the Volume

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

Note

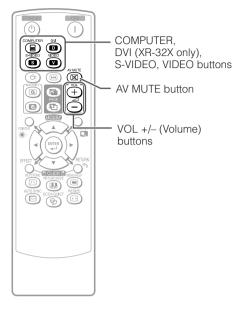
- Pressing VOL-/- will lower the volume.
- Pressing VOL+/>+ will raise the volume.
- When the projector is connected to external equipment, the volume level of the external equipment changes in accordance with the volume level of the projector. Set the projector's volume to the lowest level when turning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

Displaying the Black Screen and Turning off the Sound Temporarily

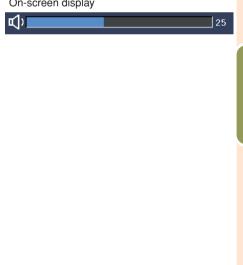
Press AV MUTE on the remote control to temporarily display a black screen and turn off the sound.

Note Note

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



On-screen display



On-screen display



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.

CLICK PI

RESIZE

button

Press RESIZE.

• See page 43 for setting on menu screen.

COMPUTER

	Main resolution	NORMAL	FULL	DOT BY DOT	BORDER	STRETCH
XR-32X	SVGA (800 x 600)	1024 x 768	_	800 x 600	700 570	
	XGA (1024 x 768)	1024 x 700 -		—	768 x 576	1024 x 576
	SXGA (1280 x 1024)	968 x 768	1024 x 768	1280 x 1024	720 x 576	1024 X 576
	1280 x 800	1024 x 640	1024 x 700	1280 x 800	922 x 576	
XR-32S	SVGA (800 x 600)	800 x 600		—	600 x 450	800 x 450
	XGA (1024 x 768)	800 X 800	_	1024 x 768		
	SXGA (1280 x 1024)	750 x 600	800 x 600	1280 x 1024		
	1280 x 800	800 x 500	800 x 800	1280 x 800	720 x 450	

Input signal		For 4:3 screen			For 16:9 screen		
Com	puter	Image type	NORMAL	FULL	DOT BY DOT	BORDER	STRETCH
XR-32X	XR-32S	image type	Norminae	TOLL	501 51 501	Bonben	011121011
Resolution lower than XGA	Resolution lower than SVGA			* 2	$^{\circ}_{\circ}^{\circ}$	* 1, * 3	*1 0000
XGA	SVGA				*2		
Resolution higher than XGA	Resolution higher than SVGA						
SXGA (12	80 × 1024)	5:4 aspect ratio	$^{\circ}$	$\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$			
1280		16:9 aspect ratio	*1 000			*2	*2
	× 768 × 768	10.9 aspect failo		000	$P \cap P$		
1280	× 768		*1	0/0		*1	*1
1280	× 800	16:10 aspect ratio	t ratio				\sim

: Cutout area on which images cannot be projected

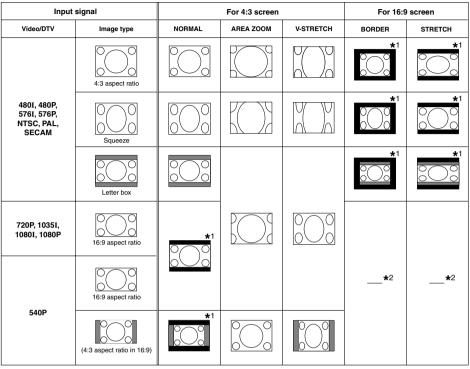
:....::: Area where the signals are off screen

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

*2 Same as NORMAL mode.

*³ For XR-32S model, "Border" cannot be selected with certain resolution selections in which the horizontal part of aspect ratio becomes smaller than 4:3 (such as 1280 × 1024, among others).

VIDEO/DTV



: Cutout area on which images cannot be projected

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

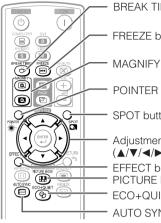
*1 The Image Shift function can be used for these images.

*2 Same as NORMAL mode.

About Copyrights

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

Operating with the Remote Control



BREAK TIMER button

FREEZE button

MAGNIEY buttons

POINTER button

SPOT button

Adjustment buttons $(\blacktriangle/ \bigtriangledown / \checkmark / \bigstar)$ **EFFECT** button **PICTURE MODE button** ECO+QUIET button AUTO SYNC button

Displaying the Pointer

- Press **POINTER** and press $\blacktriangle / \checkmark /$ 1 ◄/► on the remote control to move the pointer.
 - Press **EFFECT** to change the pointer icon (5 types).



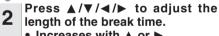
Press POINTER again. 2 • The pointer will disappear.

Using the Spot Function

Displaying and Setting the Break Timer



ð 5:00



- Increases with ▲ or ▶ 5 minutes \rightarrow 6 minutes \rightarrow 60 minutes
- 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

Press BREAK TIMER.



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

Press **SPOT** and press A/V/A/P1 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.

Note Note

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

Auto Sync (Auto Sync Adjustment)

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

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



1

• 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

Press FREEZE.

• The projected image is frozen.

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

Selecting the Picture Mode

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

Press PICTURE MODE.

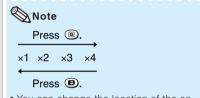
🗞 Note

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

Displaying an Enlarged Portion of an Image

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

- 1 Press (B) MAGNIFY on the remote control.
 - Enlarges the image.
 - Pressing (a) or (B) 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.

📎 Note

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

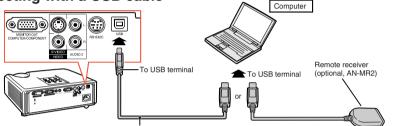
Operating with the Remote Control (Continued)

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.

Connecting with a USB cable



USB cable (commercially available or available as Sharp service part QCNWGA014WJPZ)

PAGE UP/

 (Γ)

S

 PAGE DOWN buttons

MOUSE/Adjustment

buttons $(\blacktriangle/ \bigtriangledown / \checkmark / \checkmark)$

R-CLICK button

I -CI ICK button

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.

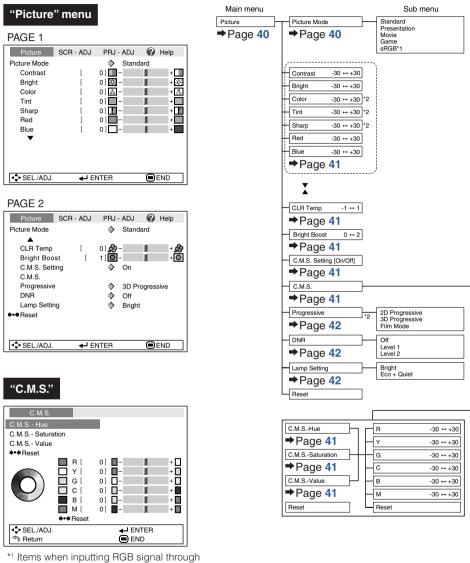
■ When using [Page Up] or [Page Down] Same as the [Page Up] and [Page Down] keys on a computer keyboard. Press PAGE UP or PAGE DOWN.

🗞 Note

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

Menu Items

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



Useful Features

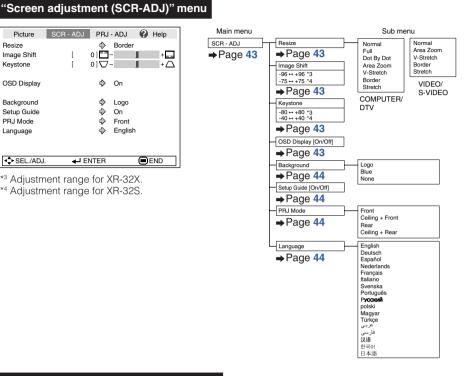
- COMPUTER or DVI (XR-32X only).
- *2 Items when inputting component signal through COMPUTER or DVI (XR-32X only), or when selecting S-VIDEO or VIDEO.

Menu Items (Continued)

Picture	SCR - ADJ	PRJ - AD	oj 🚯	Help
Resize		ф Bo	rder	
Image Shift	[0] 🗂 –		+
Keystone	[0]\[black]-		+ 🛆
OSD Display		🖒 On		
Background		🖒 Lo	qo	
Setup Guide		🗘 On	1	
PRJ Mode		🗘 Fro	ont	
Language		il En	glish	
SEL./ADJ.	- - ∎ El	NTER		END

*3 Adjustment range for XR-32X.

*4 Adjustment range for XR-32S.



"Projector adjustment (PRJ-ADJ)" menu

Picture SCR - ADJ PRJ - ADJ PRJ - Help	Main menu	Sub menu
Auto Sync \u03c6 \u	PRJ - ADJ Auto Sync (On/Off) → Page 45 Auto Power 0fi [On/Off] → Page 45 Auto Restart [On/Off] → Page 45 STANDBY Mode → Page 45 System Sound [On/Off] → Page 45 System Sound [On/Off] → Page 45 System Sound [On/Off] → Page 45 Speaker [On/Off] → Page 45 → Page 45	Standard Eco
* ⁵ This item is available for XR-32X on		*5 Audio 1 Audio 2 9600bps 115200bps 115200bps Mormal High

Lamp Timer(Life) →Page 47

"Help"	menu		
Vertical str	p picture or audio ipes or flickering imag e is not centered led or poor	RJ - ADJ ge appear	? Help
The image Reset all a	is distorted		
SEL.		3	END

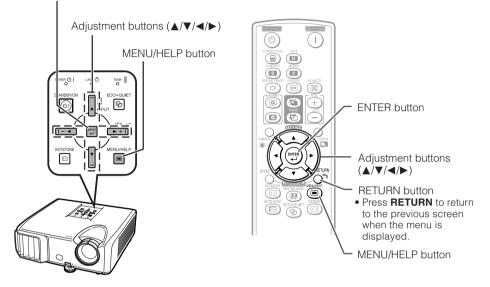
The items you can set with the "Help" menu

"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 (XR-32X only) 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 (XR-32X only) Dynamic range: Auto/Standard/Enhanced
- * The selectable items vary depending on the input signal and the selected input mode.

Using the Menu Screen

ENTER button



Menu Selections (Adjustments)

Example: Adjusting "Bright".

1

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

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

	WICHT	1 		
Picture	SCR - ADJ	PRJ - AD	J 🕜	Help
Picture Mode		🖒 Sta	andard	
Contrast	[0]		+
Bright	[0]		+ ; ; ;
Red	[0]		+
Blue	[0]		+
CLR Temp	[0] 🔗 –		+ 🔗
Bright Boo	st [1] O -		+ O
C.M.S. Sett	ing	🗘 Or	ı	
C.M.S.				
DNR		🗘 Of	f	
Lamp Settir	ng	🖒 Bri	ght	
♦•€Reset				
SEL./ADJ.	↓ E	NTER		END

Menu item

3

Press ▲ or ▼ and select "Bright" to adjust.

• The selected item is highlighted.

To adjust the projected image while watching it Press ENTER.

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

🗞 Note

• Press **ENTER** again to return to the previous screen.

4 Press \blacktriangleleft or \blacktriangleright to adjust the item selected.

The adjustment is stored.

Picture	SCR - ADJ	PRJ - Al	DJ 🕜	Help
Picture Mode		¢ s	tandard	
Contrast	[0]	l	+
Bright	[0] 🔅 –		+ 🔅
Red	[0] 🔲 –		+
Blue]	0]		+
CLR Temp	[0] 🔗 –		+ 🔗
Bright Boo	st [1] O -		+ 0
C.M.S. Sett	ing	¢ 0	'n	
C.M.S.				
DNR		🗘 O	ff	
Lamp Settir	ng	🖒 В	right	
♦ Reset				
SEL./ADJ.	s لے	ingle ADJ		END
	Picture Mode Contrast Bright Red Blue CLR Temp Bright Boo C.M.S. Sett C.M.S. DNR Lamp Settir	Picture Mode Contrast [Bright [Red [Blue [CLR Temp [Bright Boost [C.M.S. Setting C.M.S. DNR Lamp Setting ↓◆Reset	Picture Mode ▷ S Contrast [0] - Bright [0] - Red [0] - Blue [0] - CLR Temp [0] - Bright Boost [1] - C.M.S. Setting ▷ O DNR ▷ O Lamp Setting ▷ B	Picture Mode ♦ Standard Contrast [0] - Bright 0 - Red [0] - Blue [0] - CLR Temp [0] - Bright Boost [1] - C.M.S. Setting ♦ On DNR ♦ Off Lamp Setting ♦ Bright

- Items to be adjusted

	Picture	SCR - ADJ	PRJ - ADJ	0	Help
L	Resize		🖒 Borde	ər	
L	Image Shift Keystone	[0] 🗂 –		+
	Keystone]	0]\		+ 🛆

Press ENTER.

The item displayed by itself

Picture		
Bright	[0]	+ 🔅
SEL./ADJ.	🕂 Rtn. Menu	

Picture	SCR - ADJ	PRJ - AD	J 🕜 Help
Picture Mode		🔷 Sta	ndard
Contrast	[0] 🔲 –	+
Bright	[15] 🔅 –	+ 🔅
Red	[0] 🔲 –	+
Blue	[0] 🗖 –	+
CLR Temp	[0] 🖧 [0	÷&+
Bright Boo	st [1]0-	+ •
C.M.S. Setti	ing	🎝 On	
C.M.S.			
DNR		🗘 Off	
Lamp Settin	ıg	🗘 Brig	ght
♦• Reset			
SEL./ADJ.	9 لے	Single ADJ	END

• The menu screen will disappear.

Press MENU/HELP.

🗞 Note

5

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

Picture Adjustment ("Picture" Menu)

► F	AGE1				► PAGE2	
①- ②-	Picture Mode −Picture Mode Contrast Bright Color Tint Sharp Red Blue ▼	SCR - ADJ [[[[[[[PRJ - ADJ ♦ Stand 0]	<i>P</i> Help Iard + + E3 + + + + + + + + + + + + + + + + + + + + + +	Picture SCR - ADJ PRJ - ADJ Peter Picture Mode theta Standard 3 CLR Temp 0 (2) Bright Boost [1] (4) C.M.S. Setting theta (5) Progressive theta (6) DNR theta (7) Lamp Setting theta	
	SEL./ADJ.	€	NTER		SEL/ADJ ENTER END]

Menu operation -> Page 38

(1) Selecting the Picture Mode

Selectable		The default settings of each item when selecting Picture Mode			
items	Description	CLR Temp	Bright Boost	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/".
 - You cannot set the items, "Red", "Blue", "CLR Temp", "Bright Boost", when "sRGB" is selected.

🛄 Info

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

② Adjusting the Image

Adjustment items	◄ button	▶ button
Contrast	For less	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.
Bright Boost*2	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".

Note 📎

- "Red", "Blue", "Bright Boost" 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	For lower color temperature for warmer, reddish incandescent-like images.	
1	For higher color temperature for cooler, bluish, fluorescent-like images.	

🗞 Note

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

(4) Adjusting the Colors

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.
- 3 Press ▲ 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

◄: darker. ►: brighter.

 To reset the adjustment values of each color to the default settings, select "Reset" and press ENTER.

Picture Adjustment ("Picture" Menu) (Continued)

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) enhance- ment 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.

🔲 Info

- This function is available for 480I and 576I signals using COMPUTER/COMPONENT or DVI (XR-32X only) input.
- This function is available for all signals with S-VIDEO and VIDEO input.

Menu operation → Page 38

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.	

Note

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

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

⑦ Lamp Setting

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

🗞 Note

 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.)

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

Picture PBJ - ADJ Help Resize ♦ Border 0] Image Shift ð 01-+ 🗖 Keystone **(4**) OSD Display On (5) - Background Logo 6 + Setup Guide ♦ On - PRJ Mode ♦ Front $\overline{(7)}$ (8) + Language ⇔ English SEL./ADJ. ENTER END

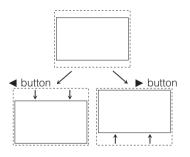
Setting the Resize Mode

📎 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.



🗞 Note

• This function only works in some RESIZE modes. (See pages **30** and **31**.)

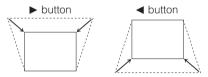
③ Keystone Correction

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.

Menu operation -> Page 38

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 (XR-32X)/ ±20 (XR-32S) 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	Description
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.

Useful Features

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	
On	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 Pycckviř polski Magyar



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

	Picture	SCR - ADJ	PRJ	- ADJ	0	Help
1-	Auto Sync		♦	On		
2-	Auto Power Off		⊳	On		
3-	Auto Restart		⊳	On		
4 -	STANDBY Mod	le	⊳	Standa	ard	
5-	System Sound		⊳	On		
6-	Speaker		⊳	On		
7-	- Audio Input		⊳	Audio	1	
8-	RS-232C		⊳	9600bps		
9-	Fan Mode		⊳	Norma	1	
10-	System Lock		⊳	Disable	э	
11-	Lamp Timer(Li	fe) [0] ł	า	0]m	in (100	1%)
	SEL./ADJ.	e JE	NTER		ΘE	ND

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 automati- cally 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
On	When no input signal is detected for more than 15 minutes, the projector will automatically enter standby mode.
Off	The Auto Power Off function will be disabled.

🗞 Note

 When the Auto Power Off function is set to "On", 5 minutes before the projector enters standby mode, the message "Enter STANDBY mode in X min." will appear on the screen to indicate the remaining minutes. Menu operation → Page 38

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	The audio signal is output from the internal speaker.	
Off	The audio signal is not output from the internal speaker.	

Useful Features

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

(7) Audio Input (XR-32X only)

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.

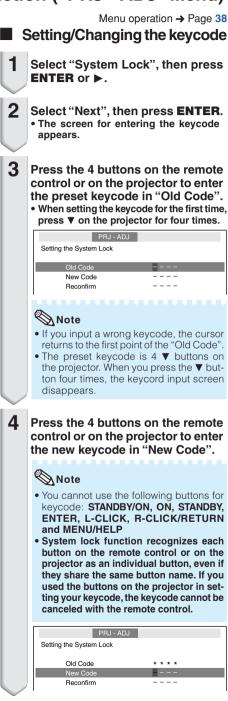
System Lock Function (10)

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

Info

• If you lose or forget your keycode, contact your nearest Sharp Authorized Projector Dealer or Service Center (see page 65). Even if the product warranty is valid, the keycode reset will incur a charge.

Menu operation -> Page 38



5

Enter the same keycode in "Reconfirm".

📎 Note

To cancel the keycode that you have already set

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

When the System Lock is set

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

Input screen for keycode



Checking the Lamp Life Status

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

Lamp usage condition		Remaining lamp life	
	"Life"	100%	5%
Operated exclusively with Lamp Setting set to "Eco +Quiet"		Approx. 4,000 hours	Approx. 200 hours
Operated exclusively with Lamp Setting set to "Bright"		Approx. 2,000 hours	Approx. 100 hours

Note

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

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

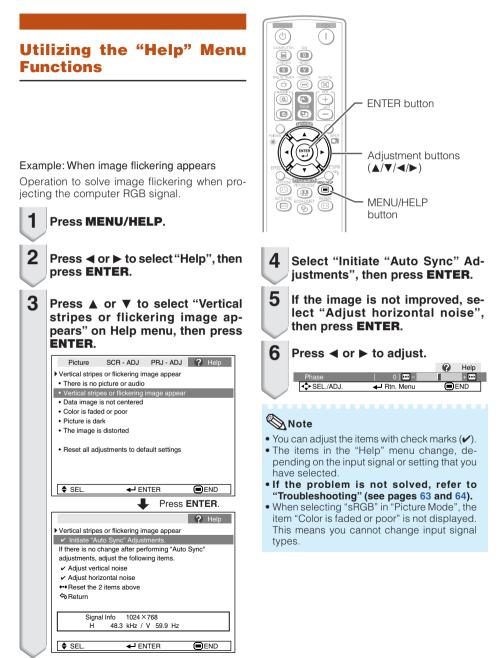
 When the projector is in standby mode, you can release the keylock by holding down ENTER and STANDBY/ON on the projector simultaneously for about 5 seconds.

📕 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 "FREZE" mode or on the "System Lock" screen during warming up.

Troubleshooting with the "Help" Menu

This function advises you to solve the problems during usage.



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.

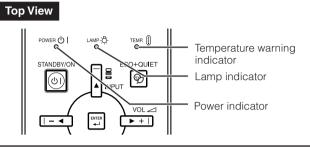


🛄 Info

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.

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.



About the temperature warning indicator

💥 ТЕМР.

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

🄅 Change The Lamp.

■ When the remaining lamp life becomes 5% or less, [20] (yellow) and "Change The Lamp" will be displayed on the screen. When the percentage becomes 0%, it will change to [20] (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.

Power indicator	Red on	Normal (Standby)
	Green on	Normal (Power on)
	Red blinks	Abnormal (See page 51.)
	Green blinks	Normal (Cooling)
Lamp indicator	Green on	Normal
	Green blinks	The lamp is warming up.
	Red on	The lamp is shut down abnormally or requires to be changed. (See page 51 .)
Temperature warning	Off	Normal
indicator	Red on	The internal temperature is abnormally high. (See page 51.)

Indicators on the Projector

Maintenance indicator		Problem	Cause	Possible Solution	
	Normal	Abnormal			
Tempera- ture warning indicator	Off	Red on (Standby)	The internal temperature is abnormally high.	Blocked air intake	• Relocate the projector to an area with proper ventilation. (See page 8.)
				 Cooling fan breakdown Internal circuit failure Clogged air intake 	• Take the projector to your nearest Sharp Authorized Projector Dealer or Service Center (see page 65) 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	np is ming	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 65) 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 65) 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.

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

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

Caution

- 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. Optional accessory

Lamp unit AN-F212LP

STANDBY/ON button

📗 Info

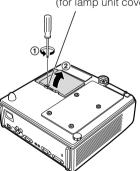
- Do not touch the glass surface of the lamp unit or the inside of the projector.
- To avoid injury to yourself and damage to the lamp, make sure you carefully follow the steps below.
- Do not loosen other screws except for the lamp unit cover and lamp unit.
- **1** Press **STANDBY/ON** on the projector or **STANDBY** on the remote control to put the projector into standby mode.
 - Wait until the cooling fan stops.

2 Disconnect the power cord.

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

3 Remove the lamp unit cover.

 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 (for lamp unit cover)



Appendix

Regarding the Lamp (Continued)



5

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.

6 Replace the lamp unit cover.

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

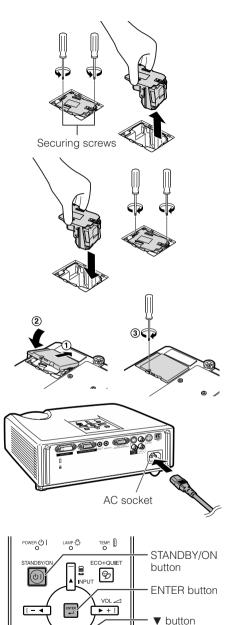
1

 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.

Connect the power cord.

- Plug the power cord into the AC socket of the projector.
- 2 Reset the lamp timer.

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



MENU/HELP

MENU/HELP

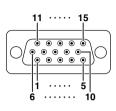
button

KEYSTONE

Connecting Pin Assignments

COMPUTER/COMPONENT input and COMPUTER/COMPONENT output Terminals : mini D-

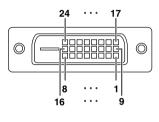
sub 15 pin female connector



COMPUTER Input/Output Pin No. Signal

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

DVI-D Terminal: 24 pin connector (XR-32X only)



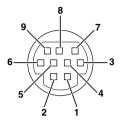
Pin No	
1.	T.M.D.S data 2-
2.	T.M.D.S data 2+
З.	T.M.D.S data 2 shield
4.	Not connected
5.	Not connected
6.	DDC clock
7.	DDC data
8.	Not connected
9.	T.M.D.S data 1–
10.	T.M.D.S data 1+
11.	T.M.D.S data 1 shield
12.	Not connected
13.	Not connected
14.	+5V power
15.	Ground

- COMPONENT Input/Output
- Pin No. Signal PR (CR) 1. 2. Ŷ 3. PB (CB) 4. Not connected 5. Not connected 6. Earth (PR) Earth (Y) Earth (PB) 7. 8 9 Not connected Not connected 10
- 11. Not connected 12. Not connected
- 12. Not connected 13. Not connected
 - 14. Not connected
- 15. Not connected

Pin No.	Signal
16.	Hot plug detection
17.	T.M.D.S data 0-
18.	T.M.D.S data 0+
19.	T.M.D.S data 0 shield
20.	Not connected
21.	Not connected
22.	T.M.D.S clock shield
23.	T.M.D.S clock+
24.	T.M.D.S clock-

Connecting Pin Assignments (Continued)

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



 Pin No.
 Signal

 1.
 2.
 RD

 2.
 SD
 4.

 5.
 SG
 6.

 7.
 RS
 8.
 CS

 9.
 9.
 5.
 5.

 Name
 I/O

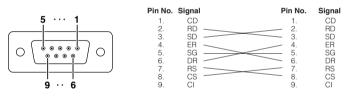
 Receive Data Send Data
 Input Output

 Signal Ground
 Request to Send Clear to Send
 Reference Not connected Connected to internal circuit Not connected Connected to internal circuit Not connected Connected to CS in internal circuit Connected to CS in internal circuit Connected to RS in internal circuit Not connected

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

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

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



🗞 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).



USB Terminal : Type B USB connector

Pin No.	Signal	Name
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 Data 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 for	mat											
	C1	C2	C3	C4	P1	P2	P3	P4				Return code (0DH)
Command 4-digit Parameter 4-digit Response code format												
	nal res		е					Prob	lem res	ponse	e (con	nmunication error or incorrect command)
	0	Κ	F	Returr	n code	e (0D	H)		Е	R	R	Return code (0DH)

lnfo

- 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" "PJN0 _ _ 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.

Note Note

- 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.

RS-232C Specifications and Commands (Continued)

1

Commands

Р

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

Computer 0 W R

Å

⇒

Projector Κ 0 Ą

							Т				RET	URN
	CONTROL CONTE	INTS		CON	ЛМА	AND.	P	PAR	AME	TER	Power ON	Standby mode (or 30-second startup time)
Power	On					VF		-		. 1	OK or ERR	ОК
	Off					VF		-			OK	OK or ERR
	Status		P	C) N	VF	1 ?	2	? ?	?	1	0
Projector Condition			Т	A	E	3 N	1 _	-		. 1	0: Normal	0: Normal
											1: Temp High	1: Temp High
											8: Lamp Life 5% or less	2: Fan Error
											16: Lamp Burn-out	4: Cover Open
											32: Lamp Ignition Failure	8: Lamp Life 5% or less
												16: Lamp Burn-out
												32: Lamp Ignition Failure
												64: Temp Abnormally Hig
Lamp	Status		Т	1	F	- s		t		. 1	0:Off, 1:On, 2:Retry	0:Off, 4:Lamp Error
Lamp	Olalus			1	. .	1	1-	1	- -		3:Waiting, 4:Lamp Error	0.01, 4.Eamp Entri
	Power Statu		т			o lv	/	+	+	1	1:On, 2:Cooling	0:Standby
	Quantity	15	T					+-		1	1	0.0tandby
	Usage Time	(11)				ГТ		+-		1	0 – 9999(Integer)	
								-	- -			
	Usage Time					Γ N		+-		. 1	0, 15, 30, 45	
	Life(Percent		T			r L		-	- -	. 1	0% - 100%(Integer)	
Name	Model Name					A N		-	- -	. 1	A HOLMER AND HOLDE	
	Model Name					R [-		. 1	XR-32X-L/XR-32S-L	
		ame Setting 1	P	J		1	*	1*	* *	*	OK or ERR	
	(First 4 char											
	Projector Na	ame Setting 2	P	J		1 2	: *	1*	• •	*	OK or ERR	
	(Middle 4 ch	aracters) *1										
	Projector Na	ame Setting 3	P	J	N	1 3	*	*	* *	*	OK or ERR	
	(Last 4 char	acters) *1										
	Projector Na	ame Check	P			1 0		-		. 1	Projector Name	
Input Change	Computer		1	R	i G	λE	3 _	1-		. 1	OK or ERR	ERR
	DVI		1	B	10	λE	3 _	1-		2	OK or ERR	ERR
	DVI-D-Co	mputer select *2	1	в	I D) s	5 _	1_		. 1	OK or ERR	ERR
	DVI-D-Vio	1			b s		+		2	OK or ERR	ERR	
	DVI-Analo	1			5 5		+	+	. 3	OK or ERR	ERR	
	S-Video	1					÷	-	1		ERR	
	Video	i					+-		2		ERR	
	Input RGB 0	Shook	i			à E		?	??		1: Computer, 2: DVI (XR-32X only) or ERR	
	Input Video)?			?		
	Input Mode		1									ERR
			1				?				1: Computer	ERR
	Input Check		'	10	1	יוי	٩ŕ	1	۲ <u>۲</u>	1	2: DVI (XR-32X only)	Luu
											3: S-Video	
											4: Video	
						+	+	+	-			ERR
Volume	Volume(0 -					- A		+-			OK or ERR	
		down(-10 - +10)	V			JC		1			OK or ERR	ERR
Keystone		(GA)/-40 – +40 (SVGA)	K			r s		*	* *		OK or ERR	ERR
AV Mute	On					3 K		-		. 1	OK or ERR	ERR
	Off		1			3 K		_		. 0	OK or ERR	ERR
Freeze	On		F	R	t E	ΞZ	- 1	1-		. 1	OK or ERR	ERR
	Off		F	R	} E	ΞZ	:	-		0	OK or ERR	ERR
Auto Sync	Start		A	D	J	JS	- 1	1-		. 1	OK or ERR	ERR
Resize	Computer	Normal				S F		1-	- -	. 1	OK or ERR	ERR
		Stretch				SF		1-	_ _	2	OK or ERR	ERR
		Dot By Dot		A		S F		t.	1.	3	OK or ERR	ERR
		Full				5 F		t	+	5	OK or ERR	ERR
		Border				SF		+		6		ERR
		Area Zoom				S F		+-	. 1		OK or ERR	ERR
		V-Stretch				5 F		+-	- 1		OK or ERR	ERR
	D)//					S F		1-	- '	1	OK of ERR	ERR
	DVI	Normal						+	- -			ERR
		Stretch				S F		+-		2		
		Dot By Dot				S F		-	- -	. 3		ERR
		Full				S F		-		. 5	OK or ERR	ERR
		Border				S F		1-		6		ERR
		Area Zoom	D	IB	IS	S F	1	1.	_ 1	0	OK or ERR	ERR
		V-Stretch		В		S F			. 1		OK or ERR	ERR

is only for XR-32X.

												RETURN		
	CONTROL CONTENT				ЛМА			PA	RAI	METE	ER	Power ON	Standby mode (or 30-second startup tim	
Resize	S-Video	Normal			S			-	_	_	1	OK or ERR	ERR	
		Stretch		A				-	_	_	2	OK or ERR	ERR	
		Border		A				-	_	-	3	OK or ERR	ERR	
		Area Zoom	R	A	s	Ī	/ _	- 1	_	1	0	OK or ERR	ERR	
		V-Stretch	R	A	s	Ì	/ _	_	_	1	1	OK or ERR	ERR	
	Video	Normal			s				_		1	OK or ERR	ERR	
		Stretch			S			-	-	-	2	OK or ERR	ERR	
		Border			s			-	-	-	3	OK or ERR	ERR	
				В				-	-	-	0			
		Area Zoom						-	-			OK or ERR	ERR	
		V-Stretch			s s			-	-	1	1	OK or ERR	ERR	
LL Reset			А					-	-	-	1	OK or ERR	ERR	
omputer INPUT	Picture Mode	Standard	R				S -	-	-	1	0	OK or ERR	ERR	
		Presentation	R	A	(P		S -	-	_	1	1	OK or ERR	ERR	
		Movie	R	A	P	1	S -	-	_	1	2	OK or ERR	ERR	
		Game	R	A	P	1	S		_	1	3	OK or ERR	ERR	
		sRGB			TP			-	-	1	4	OK or ERR	ERR	
	Contrast	-30 - +30	R				_	-	*	*	*	OK or ERR	ERR	
		-30 - +30						-	*	*				
	Bright		R				<u> </u> _	-	*	^ *		OK or ERR	ERR	
	Red	-30 - +30			R			-	_	*	~	OK or ERR	ERR	
	Blue	-30 - +30	R			E		-	*		*	OK or ERR	ERR	
	Color	-30 - +30		A		: 0		-	*	*	*	OK or ERR	ERR	
	Tint	-30 - +30	R	A	Ţ	·	1	Ĵ	*	*	*	OK or ERR	ERR	
	Sharp	-30 - +30			s			_	*	*	*	OK or ERR	ERR	
	CLR Temp	-1 - +1							_	*	*	OK or ERR	ERR	
	Bright Boost	0 - +2						-	-		*	OK or ERR	ERR	
	Progressive		R					-	-	-	0	OK or ERR		
	Progressive	2D Progressive						-	-	-			ERR	
		3D Progressive	R					-	-	-	1	OK or ERR	ERR	
		Film Mode	R	A	1	F	기-	-	_	-	2	OK or ERR	ERR	
	DNR	Off	R	A	N	I	R _	-	_	_	0	OK or ERR	ERR	
		Level 1	R	A	(N	F	3		_	_	1	OK or ERR	ERR	
		Level 2		A		F		+			2	OK or ERR	ERR	
	Picture Reset	Eorore		A				-	-	-	1	OK or ERR	ERR	
		A : : + =						-	-	-	_			
	Signal Type	Auto	1	A			-	-	-	-	0	OK or ERR	ERR	
		RGB	1	A			<u> </u>	-	-	-	1	OK or ERR	ERR	
		Compontent	Ι	A			_	-	_	-	2	OK or ERR	ERR	
	Audio Input	Audio 1	R	A	A		_	-	_	_	1	OK or ERR	ERR	
		Audio 2	R	A	A		1 -	-	_	_	2	OK or ERR	ERR	
VI INPUT	Picture Mode	Standard	R				5 .		_	1	0	OK or ERR	ERR	
		Presentation	R					+		1	1	OK or ERR	ERR	
		Movie		в				-	-	1	2	OK or ERR	ERR	
								-	-					
		Game			P			-	-		3	OK or ERR	ERR	
		sRGB			I P			-	-	1	4	OK or ERR	ERR	
	Contrast	-30 - +30			P			-	*	*	*	OK or ERR	ERR	
	Bright	-30 - +30	R	B	B	F	٦	-	*	*	*	OK or ERR	ERR	
	Red	-30 - +30			R			1	*	*	*	OK or ERR	ERR	
	Blue	-30 - +30			В			+	*	*	*	OK or ERR	ERR	
	Color	-30 - +30						1	*	*	*	OK or ERR	ERR	
	Tint							-	*	*	*	OK of ERR		
		-30 - +30	R					-					ERR	
	Sharp	-30 - +30	R		S			-	~	1	~	OK or ERR	ERR	
	CLR Temp	-1 - +1			C			-	-	*	*	OK or ERR	ERR	
	Bright Boost	0-+2	R	B	5 W	1	=T-	-1	-	_	*	OK or ERR	ERR	
	Progressive	2D Progressive	R	В	1 1	F	-1-	-	-	_	0	OK or ERR	ERR	
		3D Progressive	R			F			-	_	1	OK or ERR	ERR	
		Film Mode	R			Ī		+	-	_	2	OK or ERR	ERR	
	DNR		R					-	-	-	0	OK or ERR		
	DINN	Off			N			-	-	-			ERR	
		Level 1	R		I N			-	-	-	1	OK or ERR	ERR	
		Level 2	R		I N			-	-	-	2	OK or ERR	ERR	
	Picture Reset		R	B	B	ſ	E []	- 1	-	_	1	OK or ERR	ERR	
	Signal Type	Auto			s				_	_	0	OK or ERR	ERR	
		RGB			i s			1	-		1	OK or ERR	ERR	
								-	-	-				
		Compontent		B				-	-	-	2	OK or ERR	ERR	
	Audio Input	Audio 1			A			-	-	-	1	OK or ERR	ERR	
		Audio 2			A			- [_	_	2	OK or ERR	ERR	
	Dynamic Range	Auto	Н	M	1 B	1		-	_	_	0	OK or ERR	ERR	
		Standard			1 B				_		1	OK or ERR	ERR	
					1 8	110	117		-		2	OK or ERR		

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RS-232C Specifications and Commands (Continued)

				T					RE	TURN
	CONTROL CONTENT		COMMAND		PAF	RAN	IETE		Power ON	Standby mode (or 30-second startup time)
S-Video INPUT	Picture Mode	Standard	VAPS		-	-	1			ERR
		Presentation	VAPS	<u>s</u>	-	-	1		OK or ERR	ERR
		Movie	VAPS		-	-	1	2	OK or ERR	ERR
	0.1.1	Game	VAPS		-	-	1	3	OK or ERR OK or ERR	ERR
	Contrast	-30 - +30	VAP		-	<u>^</u>	^ •	-		ERR
	Bright	-30 - +30	VABF		-	<u>^</u>	^ •	- +	OK or ERR	ERR
	Red	-30 - +30			-	<u>^</u>	^ *	- +	OK or ERR	ERR
	Blue	-30 - +30			-	<u>^</u>	^ •	•	OK or ERR	ERR
	Color	-30 - +30	VACO		-	<u>^</u>	î	^ +	OK or ERR	ERR
	Tint Sharp	-30 - +30 -30 - +30	V A T		-	•		*	OK or ERR OK or ERR	ERR
	CLR Temp	-30 - +30	VAC		-	-	*	*	OK of ERR	ERR
	Bright Boost	0-+2	VAWE		-	-	+	*	OK or ERR	ERR
	Progressive	2D Progressive	VAV			-	-	0	OK or ERR	ERR
	Floglessive				-	-		1		ERR
		3D Progressive	VAII		-	-	- 1	2	OK or ERR OK or ERR	ERR
	DNR	Film Mode Off			-	-		2	OK or ERR	ERR
	DINK	Level 1	VANF		-	-		1	OK of ERR	ERR
		Level 2				-			OK of ERR	ERR
	Dicture Do	LCVCI Z			-	-		2		ERR
	Picture Reset	Audio 1			-	-			OK or ERR OK or ERR	
	Audio Input	Audio 1		<u> </u> _	-	-		1	OK or ERR	ERR
Video INPUT	Disture Marda	Audio 2			-	-		2	OK or ERR	
VIGEO INPUT	Picture Mode	Standard Presentation	V B P S		-	-		0	OK or ERR OK or ERR	ERR
					-	-				
		Movie	VBPS		-	-	1		OK or ERR	ERR
	Orinteret	Game	VBPS		-	-	1	3	OK or ERR	ERR
	Contrast	-30 - +30	VBP		-	<u>^</u>	Î	^ +	OK or ERR	ERR
	Bright	-30 - +30	VBBF		-	<u>^</u>	Î	^ +	OK or ERR	ERR
	Red	-30 - +30	VBRD		-	<u>^</u>	Î	^ +	OK or ERR	ERR
	Blue	-30 - +30	VBBB		-	<u>^</u>	Î	^ +	OK or ERR	ERR
	Color	-30 - +30	VBCC		-	<u>^</u>	^ *	^ +	OK or ERR	ERR
	Tint	-30 - +30	VBT		-	Î	î	-	OK or ERR	ERR
	Sharp	-30 - +30	VBSH		-	<u> </u>	<u> </u>	*	OK or ERR	ERR
	CLR Temp	-1 - +1	VBC		-	-	*	*	OK or ERR	ERR
	Bright Boost	0 - +2	VBWE		-	-	-	-	OK or ERR	ERR
	Progressive	2D Progressive	VBIF		-	-		0	OK or ERR	ERR
		3D Progressive	VBIF		-	-		1	OK or ERR	ERR
		Film Mode	VBIF		-	-		2	OK or ERR	ERR
	DNR	Off	VBNF		-	-			OK or ERR	ERR
		Level 1	VBNF	R _	- -	-		1	OK or ERR	ERR
		Level 2	VBNF		-	-		2	OK or ERR	ERR
	Picture Reset		VBRE		-	-		1	OK or ERR	ERR
	Audio Input	Audio 1		1_		-		1	OK or ERR	ERR
		Audio 2		1_		-		2	OK or ERR	ERR
C.M.S. Setting	On		CMCS		- -	-		1	OK or ERR	ERR
	Off			S_	-	-		0	OK or ERR	ERR
C.M.S.	Hue	Red	СМНГ		-	*	*	*	OK or ERR	ERR
		Yellow	СМН		-	*	*	*	OK or ERR	ERR
		Green	СМНО		-	*	*	*	OK or ERR	ERR
		Cyan	СМНО		-	*	*	*	OK or ERR	ERR
		Blue	СМНЕ		-	*	*	*	OK or ERR	ERR
		Magenta	СМНИ		-	*	*	*	OK or ERR	ERR
	-	Reset	CMRE		-	-1	-	2	OK or ERR	ERR
	Saturation	Red	CMSF		-	*	*	*	OK or ERR	ERR
		Yellow	CMS		-	*	*	*	OK or ERR	ERR
		Green	CMSO		- [* [*	*	OK or ERR	ERR
		Cyan	CMSO		-	*	*	*	OK or ERR	ERR
		Blue	CMSE		-	*	*	*	OK or ERR	ERR
		Magenta	CMSN		- [*	*	*	OK or ERR	ERR
		Reset	CMRE		-	-	-	3	OK or ERR	ERR
	Value	Red	CMVF		- [*	*	*	OK or ERR	ERR
		Yellow	CMV		- [*	*	*	OK or ERR	ERR
		Green	CMV		- [*	*	*	OK or ERR	ERR
		Cyan	CMV		-1	*	*	*	OK or ERR	ERR
		Blue	CMVE		-	*	*	*	OK or ERR	ERR
		Magenta	CMVN			*	*	*	OK or ERR	ERR
		Reset	CMRE	E _	_	_1		4	OK or ERR	ERR
	C.M.S. All Res		CMRE		_	_1	_	1	OK or ERR	ERR
Clock	-150 - +150		INCI		*	*	*	*	OK or ERR	ERR
Phase	-30 - +30		INPI		_	*	*	*	OK or ERR	ERR
H-position	-150 - +150		IAHI		*	*	*	*	OK or ERR	ERR
	-60 - +60		IAVE		+	*	*	*	OK or ERR	ERR
V-position				ГI-						

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												RETURN
	CONTROL CONTEN	TS		COM	IMA	ND	P	PAR	AME	rer	Power ON	Standby mode (or 30-second startup time)
Image Shift	-96 - +96 (XC	àA)/-75 – +75 (SVGA)		N				*	*	*	OK or ERR	ERR
OSD Display	On		1	M	I D		-	Τ-		1	OK or ERR	ERR
	Off		1		I D			-		0	OK or ERR	ERR
Video System	Auto		M	E	S	i Y	- 1	-		1	OK or ERR	ERR
	PAL		M	E	S	i Y	′ _	-		2	OK or ERR	ERR
	SECAM		M	E	S	Y	· _	1_		3	OK or ERR	ERR
	NTSC4.43		M		s		<u>ر ا</u>	1-		4	OK or ERR	ERR
	NTSC3.58		M	E	s	i Y	<u>ر ا</u>	1-		5	OK or ERR	ERR
	PAL-M		M	E	s	i Y	1_	1-		6	OK or ERR	ERR
	PAL-N		M	E	s	iΥ	1_	1_		7	OK or ERR	ERR
	PAL-60		M	E			1_	1		8	OK or ERR	ERR
Background	Logo		1		B			1		1	OK or ERR	ERR
	Blue			M				1	1	3	OK or ERR	ERR
	None		li		B			1	1	4	OK or ERR	ERR
Lamp Setting	Bright		T		M			+	1	0	OK or ERR	ERR
Lamp Ootning	Eco + Quiet				M			+		1	OK or ERR	ERR
Auto Sync	On		A					+-		1	OK or ERR	ERR
Auto Oyno	Off		A					+-		0	OK or ERR	ERR
Auto Power Off	On		A		0			+-		1	OK of ERR	ERR
Auto r'Ower Oli	Off		A		0			+-		0	OK or ERR	ERR
Auto Restart	On		A		E			+-		1	OK or ERR	ERR
Auto Restart	Off		A					+-		0		
					E			-		-	OK or ERR	ERR
STANDBY Mode	Standard		M		U			-		1	OK or ERR	ERR
	Eco		M					-		0	OK or ERR	ERR
PRJ Mode	Reverse	On	1		R			-		1	OK or ERR	ERR
		Off	1					-		0	OK or ERR	ERR
	Invert	On	1	1				-		1	OK or ERR	ERR
		Off	1	М		_		-		0	OK or ERR	ERR
Language	English		M					-		1	OK or ERR	ERR
	Deutsch		M					_		2	OK or ERR	ERR
	Español		M					-		3	OK or ERR	ERR
	Nederlands		M			. A	<u>-</u> ا	-		4	OK or ERR	ERR
	Français		M	E	L	. A	<u>-</u> ۱	-		5	OK or ERR	ERR
	Italiano		M	E	L	. A	\ _	-		6	OK or ERR	ERR
	Svenska		M	E	L	. A	<u> </u>	-		7	OK or ERR	ERR
	日本語		M	E	L	. A	\ _	-		8	OK or ERR	ERR
	Português		M	E	L	. A	\ _	1-		9	OK or ERR	ERR
	汉语		M	E	L	. A	\ _	-	. 1	0	OK or ERR	ERR
	한국어		M	E			1-	1-	. 1		OK or ERR	ERR
	Русский		M	E			- 1	1-	. 1	2	OK or ERR	ERR
	عربسي		M			. A		1	1		OK or ERR	ERR
	polski		M					1	1		OK or ERR	ERR
	Türkçe		M	_		_		t	. 1		OK or ERR	ERR
	فارسى		M					1	1		OK or ERR	ERR
	Magyer		M			A		1	1		OK or ERR	ERR
Setup Guide	On		S		G			+	+ ·	1	OK or ERR	ERR
	Off		s					+		0	OK or ERR	ERR
System Sound	On		s		N			+		1	OK or ERR	ERR
oyototti oounu	Off		s		N			+-		0	OK or ERR	ERR
	On		A					+-		1	OK or ERR	ERR
Internal Sneaker								+-		0	OK of ERR	ERR
Internal Speaker			- A			10	1-		- I	10		
	Off		A					+	+	1		
RGB Frequency	Off Horizontal		Т	F	R			-	-	1	kHz(***.* or ERR)	ERR
RGB Frequency Check	Off Horizontal Vertical		T	F	R	C	2 _	-	-	2	kHz(***.* or ERR) Hz(***.* or ERR)	ERR ERR
RGB Frequency	Off Horizontal		Т	F F L	R		2 _	-			kHz(***.* or ERR)	ERR

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		Resolution	Horizontal Frequency	Vertical Frequency	VESA	* DVI-D	Dis	olay
T C/MAC		resolution	(kHz)	(Hz)	Standard	Support	XR-32X	XR-32S
			27.0	60				
		640×350	31.5	70				
			37.5	85	~			
			27.0	60				
		640×400	31.5	70		~		
			37.9	85	~			
		720×350	27.0	60]	
		720×350	31.5	70				
	VGA		27.0	60				Upscale
		720 × 400	31.5	70				
			37.9	85	 ✓]		
			26.2	50]	Upscale	
			31.5	60	~		Opscale	
			34.7	70		1		
		640 × 480	37.9	72	~	1		
			37.5	75	~]		
			43.3	85	 ✓ 	1		
			31.4	50		1		
			35.2	56	 V 	1		
			37.9	60	~	1		
	SVGA	800 × 600	46.6	70		1		True
			48.1	72	~	1		
			46.9	75	~	1		
PC			53.7	85	~			
PC			40.3	50		1		
			48.4	60	~	1		
	XGA	1024 × 768	56.5	70	~	1	True	
			60.0	75	~	1		
			68.7	85	~	1		
		1280×720	45.0	60		1		1
		1280×768	47.8	60	~	1		
		1280 × 800	49.7	60	~	1		
	WXGA	1280 × 800	62.8	75	V	1		Intelligent
		1360 × 768	47.7	60	~	1		Compression
		1366 × 768	47.8	60		1		Compression
			55.0	60		1	Intelligent	
		1152 × 864	66.2	70	1		Compression	
	SXGA		67.5	75	~	1		
		1280 × 1024	64.0	60	~	1		
		1280 × 1024	80.0	75	~		1	
			64.0	60		1		
	SXGA+	1400×1050	65.3	60	~	1		
	UXGA	1600 × 1200	75.0	60	~	1		
MAC 13"	VGA	640×480	34.9	67		1		Upscale
MAC 16"	SVGA	832 × 624	49.7	75		1	Upscale	
MAC 19"	XGA	1024 × 768	60.2	75	1	1	True	Intelligent
MAC 21"				75		1	Intelligent	Compression
	SXGA	1152 × 870	68.7	/5	1		Compression	

* XR-32X only

Note Note

- 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.



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

* XR-32X only

Troubleshooting

Problem	Check	Page
	Projector power cord is not plugged into the wall outlet.	24
	Power to the external connected devices is off.	-
2	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
No picture and no sound	The lamp unit cover is not installed correctly.	53, 54
or projector does not start.	 XR-32X only: 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	 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. 	-
or picture is dark).		
	 Image adjustments are incorrectly set. Make adjustments of "Color" and "Tint" in "Picture Mode" and lower the "Bright Boost" value. 	41
A ROLLAND	 (Video Input only) Video input system is incorrectly set. 	48
Color is faded or poor.		
	Adjust the focus.	26 20
Picture is blurred;	 The projection distance exceeds the focus range. 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) Perform "Fine Sync" Adjustments ("Clock" Adjustment) Perform "Fine Sync" Adjustments ("Phase" Adjustment) Noise may appear depending on the computer. 	48 48
	Cables are incorrectly connected to the projector.	21–24
	 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 the volume of the external device. 	29
Picture appears but no sound is heard.	"Speaker" is set to "Off".	45
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.	-

Appendix

Troubleshooting (Continued)

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. Select "Vertical stripes or flickering image appear" in the "Help" menu and make the necessary adjustments. 	21–24 48
	 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.		
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
	The batteries may be depleted or inserted incorrectly. Make sure the batteries are inserted correctly or insert new ones.	14

* XR-32X only

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.

For SHARP Assistance

If you encounter any problems during setup or operation of this projector, first refer to the "Troubleshooting" section on pages 63 and 64. If this operation manual does not answer your question, please contact the SHARP Service departments listed below.

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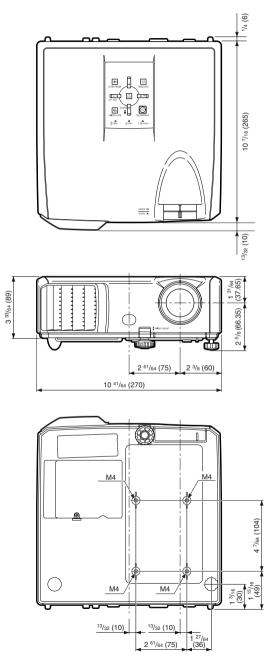
Specifications

Model		XR-32X-L	XR-32S-L
Display devices		0.55" DLP [®] Chip	
Resolution		XGA (1024×768)	SVGA (800×600)
Lens	F number	F 2.5 – 2.6	
	Zoom	Manual, ×1.15 (f = 20.4 – 23.5 mm)	
	Focus	Manual	
Input terminals	DVI-D (Compatible with HDCP)	×1	-
	RGB/Component (mini D-sub 15 pin)	×1	
	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 (Standby)		280 W (5.0 W) with AC 100 V	
		272 W (5.7 W) with AC 240 V	
Operation temperature		41°F to 95°F (+5°C to +35°C)	
Cabinet		Plastic	
Dimensions (main body only) $[W\times H\times D]$		10 ⁴¹ / ₆₄ " × 3 ³³ / ₆₄ " × 10 ⁷ / ₁₆ "	
		$(270 \times 89 \times 265 \text{ mm})$	
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.



Units: inches (mm)



Appendix

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AccessoriesAC socket Adjustment buttonsAC socket AREA ZOOMAspect ratio Audio InputAUDIO 1, 2 terminal AUDIO 0UT terminal AUDIO OUT terminal Auto Power OffAuto Sync (Auto Sync adjustment)33, 37, 45, AUTO SYNC buttonAV MUTE button	24 38 31 30 46 23 45 45 45 45 33 29
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DNR DOT BY DOT DVI button DVI-D input terminal 21,	30 29
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