

Supplies, repair &

OPERATION MANUAL MODEL

XG-PH70X (Standard zoom lens attached)

XG-PH70X-N (No lens attached)

MULTIMEDIA PROJECTOR

Conference Series



Quick Start



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IMPORTANT

• For your assistance in reporting the loss or theft of your Projector, please record the Model and Serial Numbers located on the bottom of the projector and retain this information

 Before recycling the packaging, please ensure that you have checked the contents of the carton thoroughly against the list of "Supplied accessories" on page 11.

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 13A fuse. Should the fuse need to be replaced, a BSI or ASTA approved BS 1362 fuse marked 😚 or 🟟 and of the same rating as above, which is also indicated on the pin face of the plug, must be used.

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

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

DANGER:

The fuse from the cut-off plug should be removed and the cut-off plug destroyed immediately and disposed of in a safe manner. Under no circumstances should the cut-off plug be inserted elsewhere into a 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:

Blue

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

Green-and-yellow : Earth : 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 \perp 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, Swedish, Spanish, Italian, Dutch, Portuguese, Chinese, Korean and Japanese. Carefully read through the operation instructions before operating the projector.

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

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

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

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

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

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

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

附送之CD-ROM光碟中,有用英文、德文、法文、瑞典文、西班牙文、意大利文、荷蘭文、葡萄牙文、中文、韓國文和日文所寫 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, 스웨덴어, 스페인어, 이탈리아어, 네덜란드어, 포르투갈어, 중국어, 한국 어, 일본어로 작성된 조작 설명서가 수록되어 있습니다. 프로젝터를 조작하기 전에 조 작 지침을 상세하게 숙지하십시오.

本機に付属のCD-ROMには、英語・ドイツ語・フランス語・スウェーデン語・スペイン語・イタリア語・オランダ語・ ポルトガル語・中国語・韓国語・日本語の取扱説明書が収録されています。本機をご使用の前に、この取扱説明書を よくお読みください。

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 SHAPP may be required to give under the 1972 Consumer Product Safety Act. PLEASE

recall that SHARP may be required to give under the 1972 Consumer Product Safety Act, PLEASE READ CAREFULLY THE IMPORTANT "LIMITED WARRANTY" CLAUSE.

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

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

See bottom of projector.



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

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



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

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

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

 U.S.A. ONLY

 U.S.A. ONLY

INFORMATION

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

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

WARNING:

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

WARNING:

The cooling fan in this projector continues to run for about 90 seconds after the projector enters the standby mode. During normal operation, when putting the projector into standby mode always use the STANDBY button on the projector or on the remote control.

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

PRODUCT DISPOSAL

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

Caution Concerning Lamp Replacement

See "Replacing the Lamp" on page 96.

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

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

- DLP® and the DLP logo are registered trademarks of Texas Instruments.
- 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.

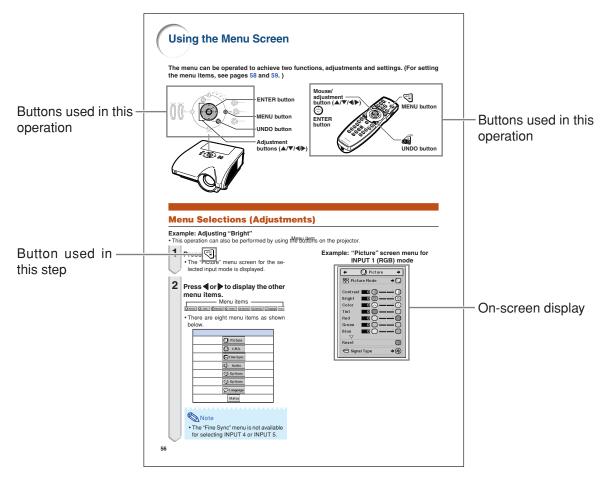
Authorized representative responsible for the European Union Community Market

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

E.U. ONLY

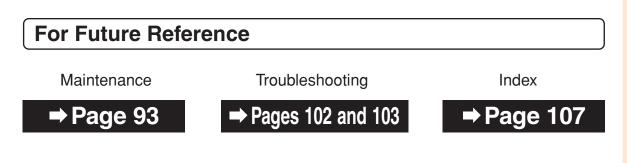
How to Read This Operation Manual

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



InfoIndicates safeguards when using the projector.

NoteIndicates additional information for setting up and operating the projector.



Contents

Preparing

Introduction

How to Read This Operation Manual	3
Contents	4
How to Access the PDF Operation Manuals	7
IMPORTANT SAFEGUARDS	8
Accessories	11
Part Names and Functions	13

Using the Remote Control 17
Usable Range 17
Inserting the Batteries17
Using the Remote Control with a Signal Cable 18
Switching the Remote Control Mode 18
Using the Remote Control as a Wireless Compu-
ter Mouse 19

Quick Start

Quick Star	t	20
-------------------	---	----

Setup

Setting Up the Projector	22
Setting Up the Projector	22
Projecting a Reversed Image	23

Connections

Connections	24
INPUT/OUTPUT Terminals and Connectable	e de la companya de la
Main Equipment	24
Samples of Cables for Connection	25
Connecting to a Computer	27
Connecting with the RGB Cable	27
Connecting with a 5 BNC to 15-pin D-sub	
Cable	28
Connecting with a DVI Digital Cable	29
Connecting to Video Equipment	30
Connecting to Video Equipment That Has	
an HDMI Output Terminal with a DVI to	
HDMI Cable	30

Connecting to Video Equipment That Has a DV	1
Output Terminal with a DVI Digital Cable	31
Connecting to RGB Video Equipment with a	
5 RCA RGB Cable	. 32
Connecting to Video Equipment That Has	
Component Output Terminals	. 33
Connecting with an S-video Cable or a Composition	S-
ite Video Cable	. 34
Controlling the Projector by a Computer	35
Connecting to a Monitor That Has an RGB	
-	36
Connecting to an Amplifier or Other	
Audio Equipment	36
	50

Using

Basic Operation

Turning the Projector On/Off	37
Image Projection	38
Shifting the Lens	38
Using the Adjustment Feet	39
Adjusting the Focus	40
Adjusting the Projected Image Size	40
Correcting Trapezoidal Distortion	41
Switching the Input Mode	45

Useful Features

Menu Items	51
Using the Menu Screen	56
Menu Selections (Adjustments)	. 56
Menu Selections (Settings)	
Picture Adjustment ("Picture" menu)	60
Selecting the Picture Mode	. 60
Adjusting the Image	
Adjusting the Color Temperature	
Emphasizing the Contrast	
Selecting the Progressive Mode	
Reducing Image Noise (DNR)	
Signal Type Setting	. 63
Color Management System	
("C. M. S." menu)	
Selecting the Color Reproduction Mode	
Selecting the Target Color	
Setting the Brightness of the Target Color	
Setting the Chromatic Value of the Target Color	
Setting the Hue of the Target Color	
Resetting User-defined Color Settings	
Overview of All Color Settings	. 67
Computer Image Adjustment	
("Fine Sync" menu)	
Adjusting the Computer Image	
Saving Adjustment Settings	
Selecting Adjustment Settings	
Special Mode Setting	
Checking the Input Signal	
Auto Sync Adjustment	
Auto Sync Display Function	
Audio Adjustment ("Audio" menu)	
Adjusting the Audio	
Setting the Audio Output Type	
Speaker Setting	. 73

Adjusting the Volume	. 46
Turning Off the Sound Temporarily	. 46
Displaying an Enlarged Portion of an Image	. 46
Freezing a Moving Image	. 47
Selecting the Picture Mode	. 47
Resize Mode	. 48
Displaying the Black Screen	. 50
Displaying and Setting the Break Timer	. 50

Using the "Options (1)" Menu	74
Displaying Dual Pictures (Pict in Pict)	. 74
Setting the Resize Mode	. 74
Shifting the Projected Image Vertically	
(Digital Shift)	
Setting On-screen Display	
Setting the Video System	
Capturing Projected Images	
Selecting the Background Image	
Selecting the Startup Image	
Eco Mode	
Detecting the Input Signals Automatically	
Auto Power Off Function	
System Lock Function	. 79
Helpful Functions Set during Installation	
("Options (2)" menu)	
Setting a Password	
Checking the Lamp Life Status	
Setting the Lamp Mode	
Reversing/Inverting Projected Images	. 84
Controlling Multiple Projectors with the One	0.4
Remote Control	
Shortcut to Make Projector Stack Settings Locking the Operation Buttons on the Projector	
Bypassing Unused Input Selections	
Selecting the Fan Mode	
Direct Power On Function	
Selecting the Transmission Speed (RS-232C)	
Monitor Output Settings	
LAN/RS232C Setting	
DHCP Client Setting	
TCP/IP Setting	
Service Mode	
Returning to the Default Settings	
Using the Other Menus ("Language" and	
"Status" menus)	92
Selecting the On-screen Display Language	
Overview of All Menu Settings	

Contents

Reference

Appendix

Maintenance	93
Maintenance Indicators	94
Regarding the Lamp	96
Lamp	. 96
Caution Concerning the Lamp	
Replacing the Lamp	. 96
Removing and Installing the Lamp Unit	
Resetting the Lamp Timer	. 99
Computer Compatibility Chart 1	00
Troubleshooting 1	02
For SHARP Assistance 1	04

Specifications	105
Glossary	106
Index	107

The optional lenses are introduced on page **12**. Please purchase the lens for your desired usage.

How to Access the PDF Operation Manuals

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

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

Accessing the PDF manuals

For Windows®:

- ① Insert the CD-ROM in the CD-ROM drive.
- ② Double click the "My Computer" icon.
- ③ Double click the "CD-ROM" drive.
- When you want to view the operation manual
 1) Double click the "MANUALS" folder.
 - 2) Double click the language (name of the folder) that you want to view.
 - 3) Double click the "PH70_" pdf file to access the projector manuals.

When you want to view the setup manual

- 1) Double click the "SETUP" folder.
- 2) Double click the language (name of the folder) that you want to view.
- 3) Double click the "S_PH7_" pdf file to access the setup manual.

For Macintosh®:

- (1) Insert the CD-ROM in the CD-ROM drive.
- 2 Double click the "CD-ROM" icon.
- When you want to view the operation manual
 1) Double click the "MANUALS" folder.
 - 2) Double click the language (name of the folder) that you want to view.
 - 3) Double click the "PH70_" pdf file to access the projector manuals.

When you want to view the setup manual

- 1) Double click the "SETUP" folder.
- 2) Double click the language (name of the folder) that you want to view.
- Double click the "S_PH7_" pdf file to access the setup manual.

📕 Info

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

SETUP MANUAL

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

Setting up the Screen 2
Screen Size and Projection Distance
Connecting Pin Assignments 10
RS-232C Specifications and Commands 12
Setting up the Projector Network
Environment 17
Controlling the Projector via LAN 23
Setting the Projector Using
RS-232C or Telnet 28

Controlling the Projector Using	
RS-232C or Telnet	31
Stack Projection	38
Video Wall Projection	41
Resetting the Lamp Timer	
of the Projector via LAN	50
Troubleshooting	52
Dimensions	55

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.

13. Power-Cord Protection

lightning and power-line surges.

the product.

15. Overloading

17. Servicing

personnel.

electric shock.

16. Object and Liquid Entry

18. Damage Requiring Service

the product.

operation.

way.

19. Replacement Parts

14. Liahtnina

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

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

Do not overload wall outlets, extension cords, or integral

convenience receptacles as this can result in a risk of fire or

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.

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

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

When the power-supply cord or plug is damaged.

b. If liquid has been spilled, or objects have fallen into

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

e. If the product has been dropped or damaged in any

f. When the product exhibits a distinct change in

performance, this indicates a need for service.

Never spill liquid of any kind on the product.

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

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

outlet

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

Do not use this product near water-for example, near a bath

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

20. Safety Check

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

21. Wall or Ceiling Mounting

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

22. Heat

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



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

Caution concerning the lamp unit

Potential hazard of glass particles if lamp ruptures. In case of lamp rupture, contact your nearest Sharp Authorized Projector Dealer or Service Center for replacement. See "Replacing the Lamp" on page 96.



Caution concerning the setup of the projector

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

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

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

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

Placement should be within 9 degrees of horizontal.

If you have application requiring tilt angle exceeding 9 degrees, please check with your local Sharp sales office.



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

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

Warning about placing the projector in a high position

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

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

Take care with the lens so as not to hit or damage the surface of the lens.

Rest your eyes occasionally.

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

Avoid locations with extremes of temperature.

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

Do not block the intake and exhaust vents.

- Allow at least 11 ¹³/₁₆ inches (30 cm) of space between the exhaust vent and the nearest wall or obstruction.
- Ensure that the intake vents 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 94 and 95.). Remove the projector power cord from the wall outlet and wait at least 10 minutes. Place the projector where the intake and exhaust vents are not blocked, plug the power cord back in and turn on the projector. This will return the projector to the normal operating condition.

Caution regarding usage of the projector

- When using the projector, take care not to subject it to hard impact and/or vibration, as this can result in damage. Take extra care with the lens. If you are not to use the projector for a long time, make certain you unplug the power cord from the wall outlet, and disconnect any other cables connected to it.
- Do not carry the projector by holding the lens.
- When storing the projector, ensure you attach the lens cap to the projector. (See page 13.)
- Do not expose the projector to direct sunlight or near heat sources. The projector may change color or become deformed.

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

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 90-second coolingoff period the projector will enter the standby mode. Refer to "Maintenance Indicators" on page 94 for details.

🔔 Info

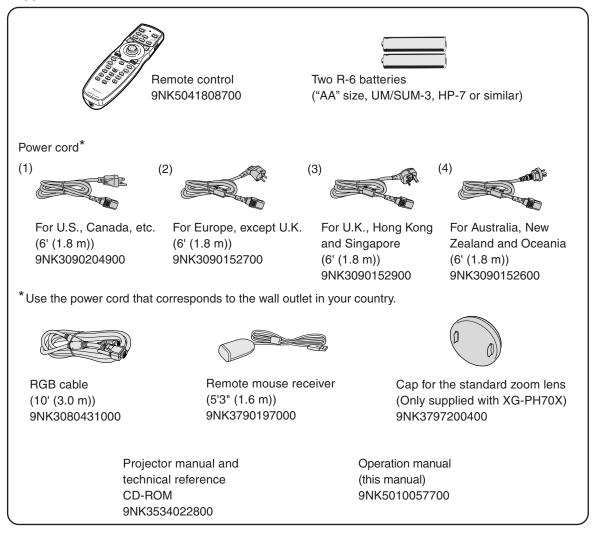
- The cooling fan regulates the internal temperature, and its performance is automatically controlled. The sound of the fan may change during projector operation due to changes in the fan speed. This does not indicate malfunction.
- Even if you unplug the power cord after projector operation, the cooling fan continues to run for a while. When you place the projector into the storage case, make sure that the cooling fan has stopped.

Optional lens installation

Be sure to have service personnel install the optional lenses.



Supplied accessories



Optional accessories

■ Cable 3 RCA to 15-pin D-sub cable (10' (3.0 m))	AN-C3CP2
Lamp Lamp unit 1 AN-PH7LP1 Lamp unit 2 AN-PH7LP2	

🗞 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.

Accessories

Optional lenses

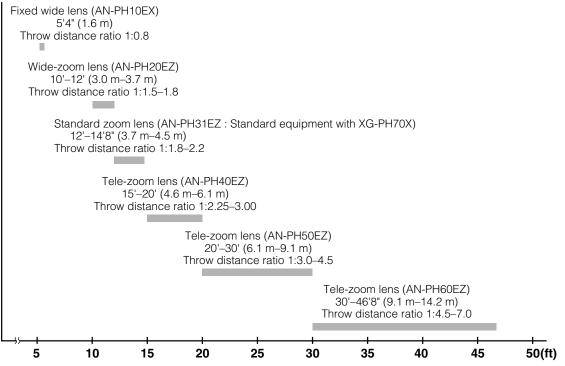
Lens	Projectio	n distance for 100" screen size
Fixed wide lens (× 0.8)	AN-PH10EX	5'4" (1.6 m)
Wide-zoom lens (× 1.5 – 1.8)	AN-PH20EZ	10' – 12' (3.0 m – 3.7 m)
Standard zoom lens (\times 1.8 – 2.2)	AN-PH31EZ	12' – 14'8" (3.7 m – 4.5 m)
(attached to XG-PH70X) Tele-zoom lens (× 2.25 – 3.00)	AN-PH40EZ	15' – 20' (4.6 m – 6.1 m)
$\begin{bmatrix} Tele-zoom lens (\times 3.0 - 4.5) \\ Tele-zoom lens (\times 4.5 - 7.0) \end{bmatrix}$	AN-PH50EZ AN-PH60EZ	20' – 30' (6.1 m – 9.1 m) 30' – 46'8" (9.1 m – 14.2 m)

No lens is attached to XG-PH70X-N. The standard zoom lens is attached to XG-PH70X. The optional lenses from Sharp are also available for specialized application. Please see your nearest Sharp Authorized Projector Dealer for details on all the lenses. (Refer to the lens operation manual when using a lens.) Also, be sure to have service personnel install the optional lenses.

Throw Distance

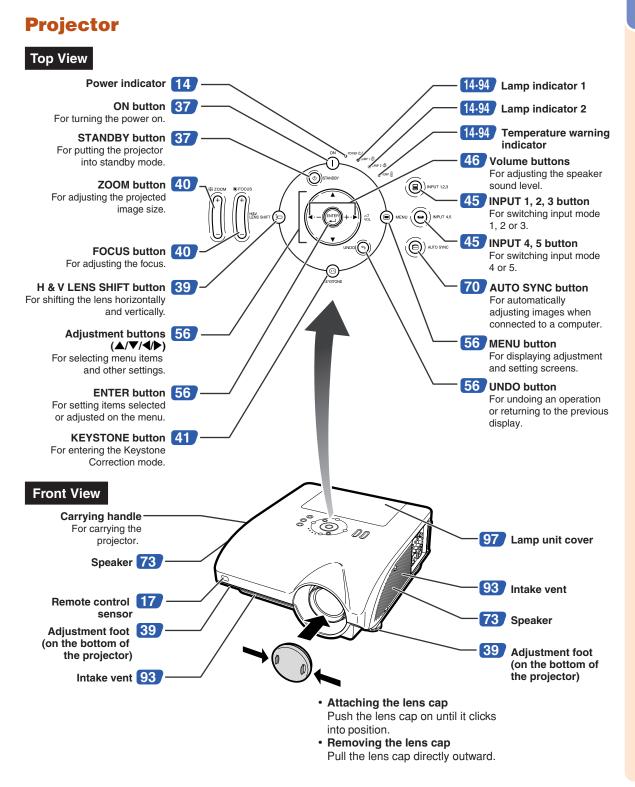
The graph below is for 100 inches (254 cm) screen with 4:3 normal mode.

Screen



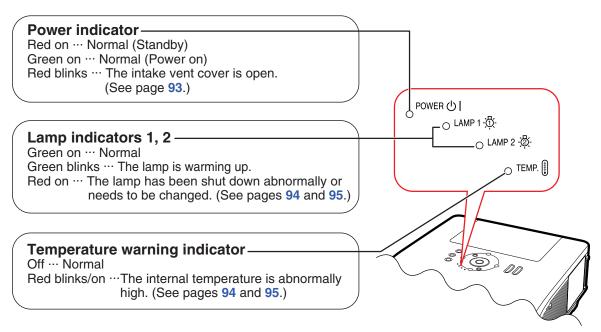
Part Names and Functions

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



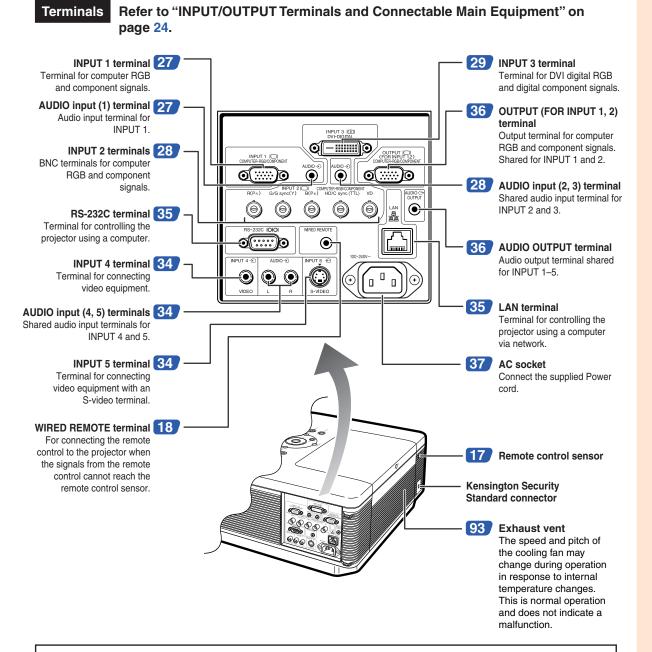
Part Names and Functions

About the Indicators on the Projector



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

Projector (Side View)



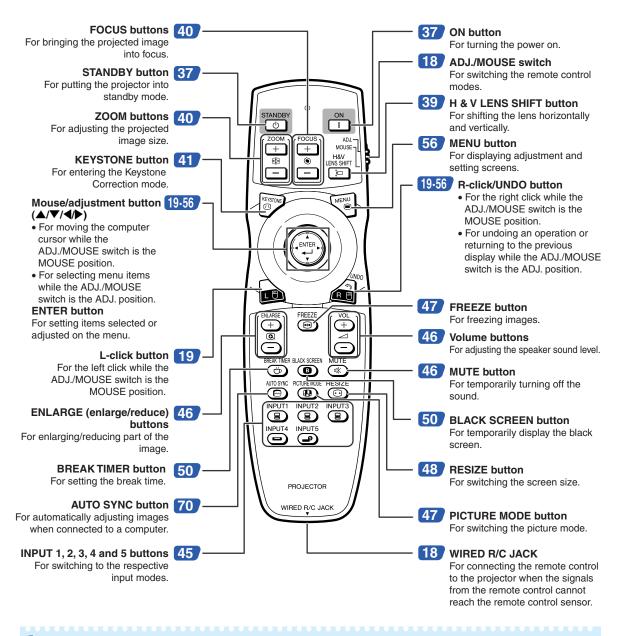
Using the Kensington Lock

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

Part Names and Functions

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

Remote Control



🛇 Note

• All the buttons on the remote control, except the mouse/adjustment button and the ADJ./MOUSE switch, are made of luminous material that is visible in the dark. Visibility will diminish over time. Exposure to light will recharge the luminous buttons.

Using the Remote Control

Usable Range

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

Note 📎

1

2

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

When using the remote control:

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

Inserting the Batteries

Press the tab and lift open the battery cover in the direction of the arrow.

Insert the batteries.

· Insert the batteries making sure the polarities correctly match the (+) and (-)marks inside the battery compartment.

3 Insert the tabs on the end of the battery cover into their slots and press the cover into position.

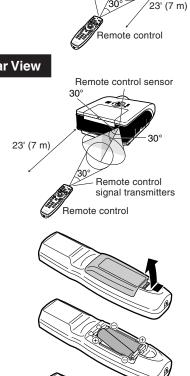
Remote control sensor 30° ිමා 30° Remote control signal transmitters /30 23' (7 m) Remote control **Rear View** Remote control sensor 30 23' (7 m) Remote control signal transmitters Remote control

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

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

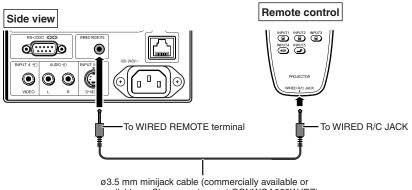


Front View



Using the Remote Control with a Signal Cable

When the signals from the remote control cannot be reached due to the positioning of the projector, use a ø3.5 mm minijack cable to connect the remote control to the projector. Now you can control the projector with the remote control.



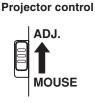
available as Sharp service part QCNWGA038WJPZ)



• The wireless remote function is not possible when the Ø3.5 mm minijack cable is connected to the projector. Should the wireless remote operation be required, the Ø3.5 mm minijack cable should be disconnected from the projector.

Switching the Remote Control Mode

The remote control has two functions. One is projector control and the other is wireless computer mouse. Slide the ADJ./MOUSE switch on the remote control to other side compatible to the desired usage.



Wireless computer mouse



📕 Info

• When using the remote control as the wireless computer mouse, connect the supplied remote mouse receiver to the computer. (See page 19.)

Using the Remote Control as a Wireless Computer Mouse

ADJ.

MOUSE

When connecting the supplied remote mouse receiver to the computer, you can use the remote control as the wireless computer mouse.

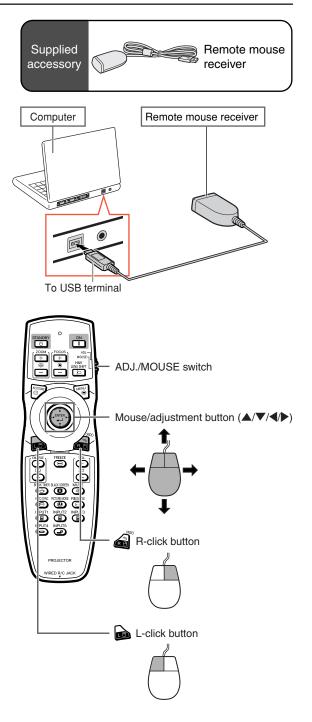
- 1 Connect the supplied remote mouse receiver to the USB terminal on the computer.
- 2 Slide the ADJ./MOUSE switch on the remote control to the MOUSE position.
 - Point the remote control at the remote mouse receiver.
- When moving the cursor Press ▲/▼/◀/▶.
- When left-clicking Press
 .

3

- When right-clicking Press .
- When your computer supports only a one-click mouse (such as Macintosh®) Press a or a. (a nd a have common function.)



- 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.
- Confirm that the computer recognizes the USB connection.
- While the remote control is connected to the projector with a signal cable, you cannot use the wireless computer mouse function.

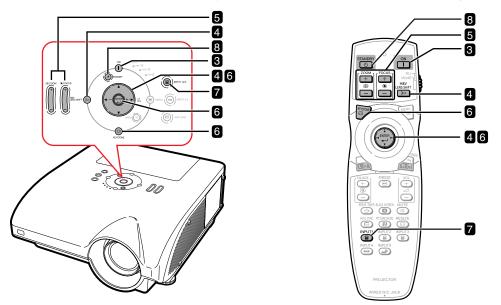


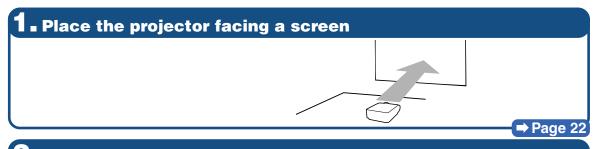
Quick Start

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.





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

When connecting equipment other than the computer, see pages 30–36.



➡ Page 37

 ${f 3}_{f I}$ Remove the lens cap and turn the projector on

Press $\overset{\scriptscriptstyle{(n)}}{\bigcirc}$ on the projector or $\overset{\scriptscriptstyle{(n)}}{\square}$ on the remote control.

4 Adjust the angle

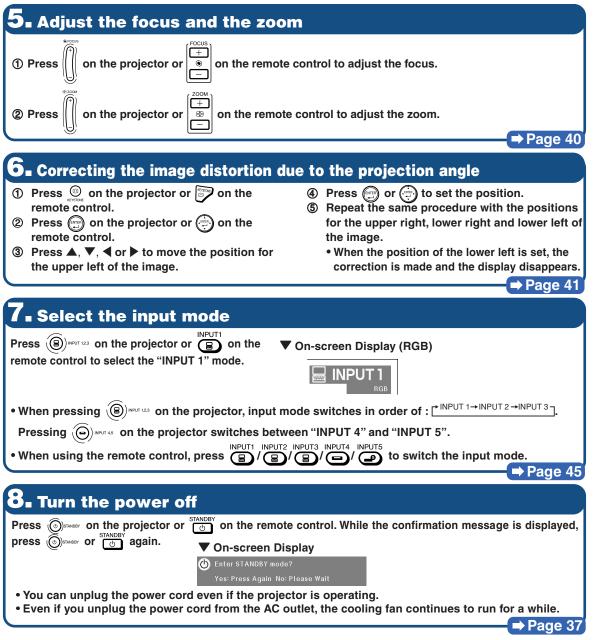
Adjust the projector angle

- Shift the lens horizontally and vertically.
- Press

 in on the projector or
 in on the remote control.
- ② Press ▲, ▼, ◀ or ▶ on the projector or the remote control.
- Adjust the projector angle by rotating the adjustment feet.



⇒ Pages 38, 39



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.

Note Note

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

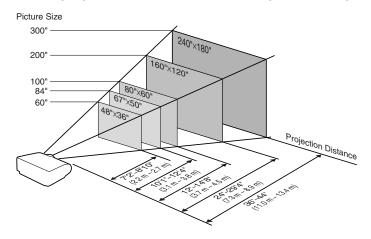
Standard Setup (Front Projection)

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



Indication of the Projection Image Size and Projection Distance

For details, refer to "SETUP MANUAL" contained on the supplied CD-ROM. Example : NORMAL Mode (4:3) for the standard zoom lens (AN-PH31EZ)

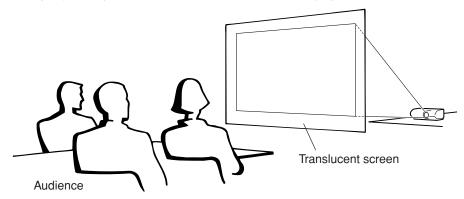


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Projecting a Reversed Image

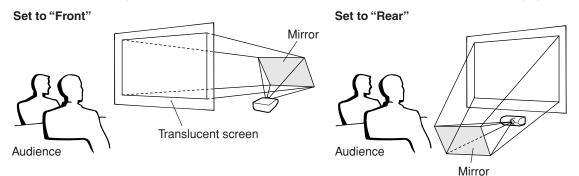
Projection from behind the Screen

- Place a translucent screen between the projector and the audience.
- Reverse the image by setting "Rear" in the "PRJ Mode" menu. (See page 84.)



Projection Using a Mirror

- Place a mirror (normal flat type) in front of the lens.
- When the translucent screen is placed between the mirror and audience, set to "Front" in the "PRJ Mode" menu. (See page 84.)
- When the mirror is placed on the audience side, set to "Rear" in the "PRJ Mode" menu. (See page 84.)



🛄 Info

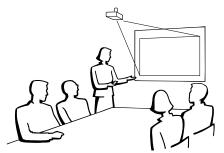
• When using a mirror, ensure that both the projector and the mirror are carefully placed so the projected light does not shine into the eyes of the audience.

Ceiling-mount Setup

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

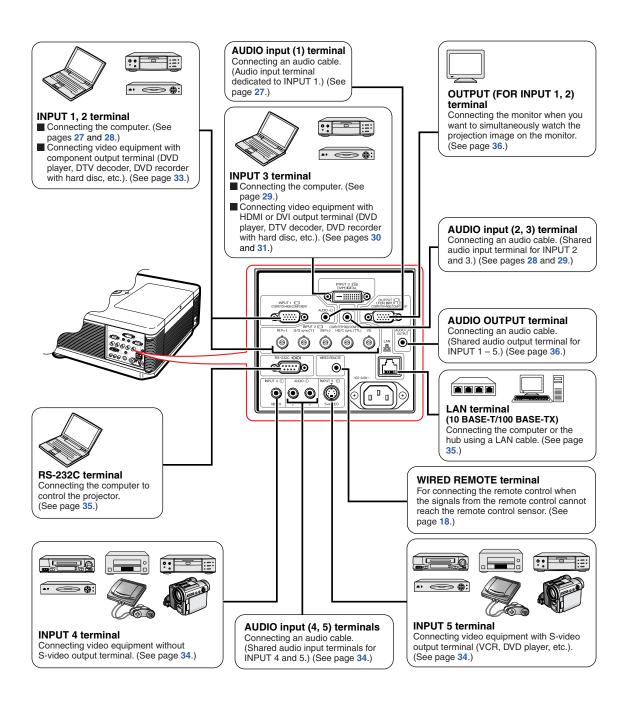
Before mounting the projector, contact your nearest Sharp Authorized Projector Dealer or Service Center to obtain the recommended ceiling-mount bracket (sold separately).

- AN-PHCM20 ceiling-mount bracket, its AN-EP101AP extension tube (for the U.S.A.).
- AN-NV6T ceiling-mount bracket, its AN-TK201 and AN-TK202 extension tubes (for countries other than the U.S.A.).
- Invert the image by setting "Ceiling + Front" in "PRJ Mode". See page 84 for use of this function.



Connections

INPUT/OUTPUT Terminals and Connectable Main Equipment



Samples of Cables for Connection

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

Equipment	Terminal on connected equipment	Cable	Terminal on the
Computer	connected equipment	RGB cable (supplied)	projector INPUT 1
	RGB		
	output terminal	5 BNC to 15-pin D-sub cable (commercially available)	
	DVI digital video output terminal	DVI Digital cable (commercially available)	
	Audio output terminal	ø3.5 mm stereo or mono audio cable (commercially available or available as Sharp service part QCNWGA038WJPZ)	AUDIO (for INPUT 1)
Audio-visual equipment	HDMI output terminal	DVI to HDMI cable (commercially available)	INPUT 3
	DVI digital video output terminal	DVI Digital cable (commercially available)	
	RGB output terminal	5 RCA RGB cable (commercially available) BNC to RCA adaptors (commercially available)	INPUT 2
	Component	3 RCA to 15-pin D-sub cable (optional: AN-C3CP2)	
	video output terminal	BNC to RCA adaptors (commercially available) Component video cable (commercially available)	INPUT 2

Samples of Cables for Connection

Equipment	Terminal on connected equipment	Cable	Terminal on the projector
Audio-visual equipment	Video output terminal	Video cable (commercially available)	INPUT 4
	S-video output terminal	S-video cable (commercially available)	INPUT 5
	Audio output terminal	ø3.5 mm stereo minijack to RCA audio cable (commercially available)	AUDIO (for INPUT 1)
Monitor	RGB input terminal	RGB cable (supplied or commercially available)	
Amplifier	Audio input terminal	ø3.5 mm stereo minijack to RCA audio cable (commercially available)	AUDIO OUTPUT

Connecting to a Computer

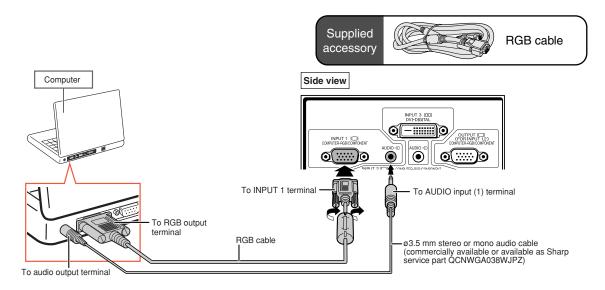
Before connecting, ensure the power cord of the projector from the AC outlet is unplugged, and that the devices to be connected are turned off. After making all connections, turn on the projector and then the other devices. When connecting a computer, ensure that it is the last device to be turned on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

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

Note Note

- See page **100** "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.
- Connecting computers other than the recommended types may result in damage to the projector, the computer, or both.
- 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 with the RGB Cable

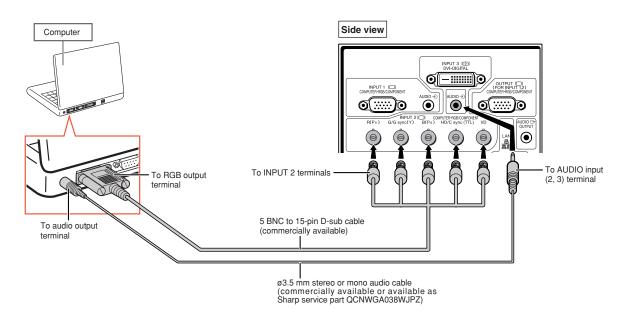


🗞 Note

- With this connection, the projector is not compatible to the sync on green signals.
- 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.

Connecting with a 5 BNC to 15-pin D-sub Cable

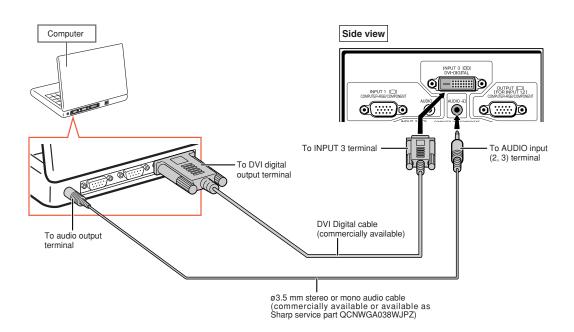
The projector employs a 5 BNC computer input to prevent deterioration of image quality. When connecting the input terminals on the projector to the computer directly, Connect the R (P_B), G/G sync (Y), B (P_B), HD/C sync and VD cables of the 5 BNC to 15-pin D-sub cable (commercially available) to the INPUT 2 terminals on the projector.



- When connecting the projector to a compatible computer other than a PC (VGA/SVGA/XGA/SXGA/UXGA) or Macintosh (i.e. Workstation), a separate cable may be needed. Please contact your dealer for more information.
- \bullet 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.
- The HD/C sync terminal is only for TTL signal.

Connecting with a DVI Digital Cable

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



- When connecting the projector to a computer in this way, select "D. PC RGB" for "Signal Type" in the "Picture" menu.
- 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.

Connecting to Video Equipment

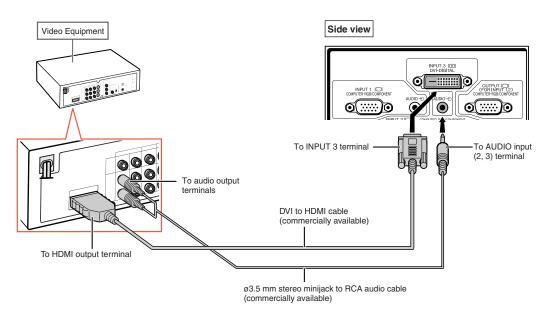
Before connecting, ensure the power cord of the projector from the AC outlet is unplugged, and that the devices to be connected are turned off. After making all connections, turn on the projector and then the other devices.

The projector has a DVD digital terminal, computer-RGB/component terminal, S-video terminal and video terminal for video input. Refer to the listed illustrations on how to connect audio-visual equipment.

If your audio-visual equipment has an RGB output terminal or component output terminal, use the computer-RGB/component terminals (INPUT 1 or 2) on the projector for video connection.

Connecting to Video Equipment That Has an HDMI Output Terminal with a DVI to HDMI Cable

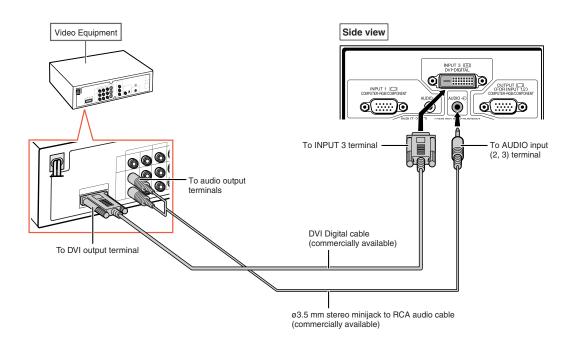
Use a DVI to HDMI cable when connecting HDMI video equipment such as DVD players to the INPUT 3 terminal.



- Select the input signal type of the video equipment. See page 63.
- 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 (2, 3) terminal for audio input.)
- Depending on specifications of video equipment or DVI to HDMI digital cable, the signal transmission may not work property. (The HDMI specification does not support all connections to video equipment that has HDMI digital output terminal using a DVI to HDMI digital cable.)
- For details on compatibility for connection, see support information on DVI connection provided by the video equipment manufacturer.

Connecting to Video Equipment That Has a DVI Output Terminal with a DVI Digital Cable

Use a DVI Digital cable when connecting video equipment with the DVI output terminal such as DVD players to the INPUT 3 terminal.



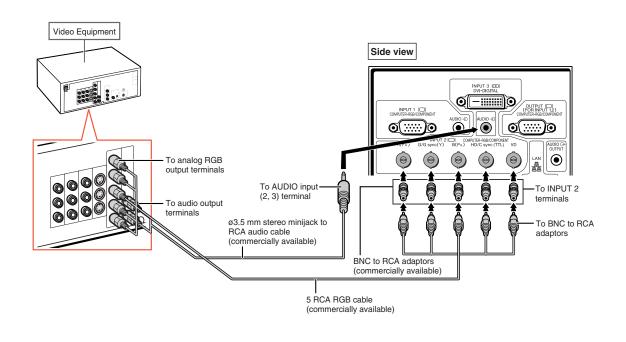
Note

• Select the input signal type of the video equipment. See page 63.

Connecting to RGB Video Equipment with a 5 RCA RGB Cable

Use a 5 RCA RGB cable when connecting the RGB video equipment such as DVD players and DTV* decoders to the INPUT 2 terminals.

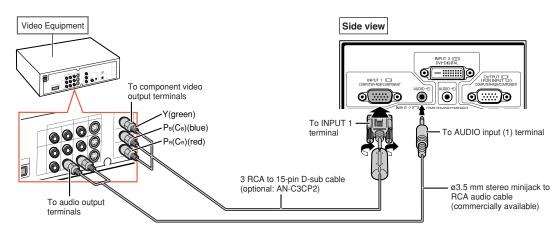
* DTV is the umbrella term used to describe the new digital television system in the United States.



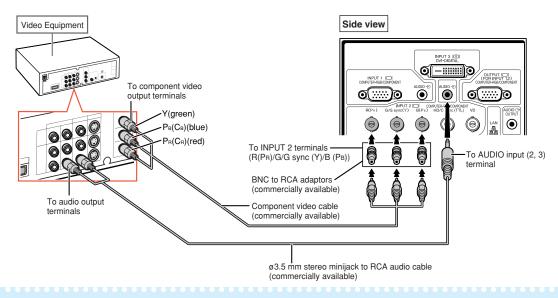
- When connecting the projector to the video equipment in this way, select "RGB" for "Signal Type" in the "Picture" menu. See page 63.
- The HD/C sync and VD terminals may be used depending on the specifications of the DTV decoder connected to this projector. Please refer to the operation manual of the DTV decoder for details.
- The HD/C sync terminal is only for TTL signal.

Connecting to Video Equipment That Has Component Output Terminals

When connecting the video equipment that has component output terminals to the INPUT 1 terminal, use the 3 RCA to 15-pin D-sub cable (optional: AN-C3CP2).



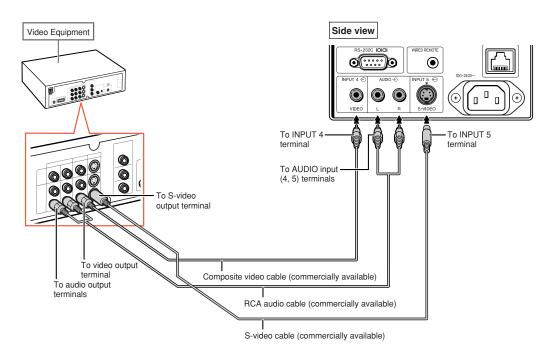
When connecting the video equipment that has component output terminals to the INPUT 2 terminals, use the BNC to RCA adaptors (commercially available).



- ø3.5 mm stereo minijack to RCA audio cable (commercially available) is required for audio input.
- Select "480P/525P" or "576P/625P" for "Special Modes" on the "Fine Sync" menu, if necessary. (See page 69.)
- When you connect video equipment with a 21-pin RGB output (Euro-scart) to the projector, use a commercially available cable that fits in the projector terminal you want to connect.
- The projector does not support RGBC signals via the Euro-scart.

Connecting with an S-video Cable or a Composite Video Cable

Connect the video equipment to the INPUT 4 or 5 terminal using the S-video cable or composite video cable (commercially available).



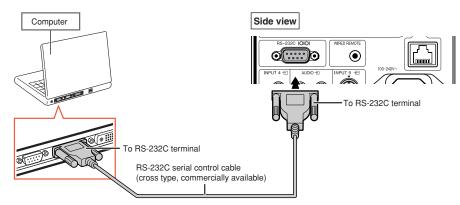
🗞 Note

- The S-video signal input to the S-VIDEO terminal is separated into color and luminance signals for realizing a higher-quality image.
- An RCA audio cable (commercially available) is required for audio input.
- When you connect video equipment with a 21-pin RGB output (Euro-scart) to the projector, use a commercially available cable that fits in the projector terminal you want to connect.

Controlling the Projector by a Computer

When the RS-232C terminal on the projector to the RS-232C serial terminal on the computer, or when the LAN terminal on the projector to the LAN terminal on the computer, the computer can be used to control the projector. Refer to the "SETUP MANUAL" contained on the supplied CD-ROM for details.

When connecting to a computer using an RS-232C serial control cable



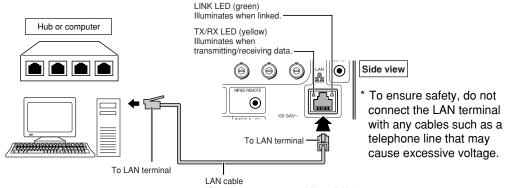
Note

- 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.
- Refer to "SETUP MANUAL" contained on the supplied CD-ROM for the RS-232C specifications and commands.

🔲 Info

- Do not connect the RS-232C cable to a terminal 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.

When connecting to the LAN terminal using a LAN cable

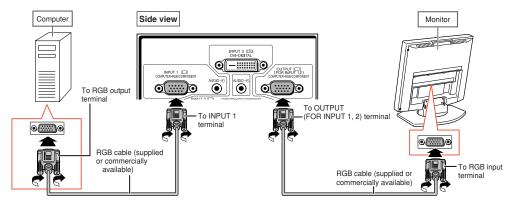


(Category 5 type, commercially available)

📎 Note

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

Connecting to a Monitor That Has an RGB Input Terminal



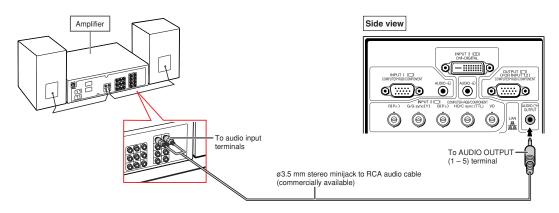
You can display computer images on a monitor using the RGB cables.

🚫 Note

- RGB signals and component signals input from the INPUT 1 or INPUT 2 terminals can be output to the monitor.
- For inputting video signals from the INPUT 1 terminal, another RGB cable (commercially available) is required.

Connecting to an Amplifier or Other Audio Equipment

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



Note 🚫

- ø3.5 mm stereo minijack to RCA audio cable (commercially available) is required for audio input.
- When turning off the power in the case of connecting an amplifier or other audio equipment, first turn off the power of the amplifier and then turn off the power of the projector.
- By using external audio components, the volume can be amplified for better sound.
- For details on Variable Audio Output (VAO) and Fixed Audio Output (FAO), see page 72.

Turning the Projector On/Off

Connecting the Power Cord

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

Turning the Projector On

Before performing the steps in this section, connect any equipment that you use with the projector. (See pages 27–36.)

Remove the lens cap and press $\stackrel{\scriptstyle \curvearrowleft}{\bigcirc}$ on the projector or $\stackrel{\scriptstyle \oslash}{\bigsqcup}$ on the remote control.

- The power indicator illuminates green.
- After the lamp indicator illuminates, the projector is ready to start operation.
- When System Lock is set, the keycode input screen appears. Enter the right keycode to start projection. See page **79** for details.



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

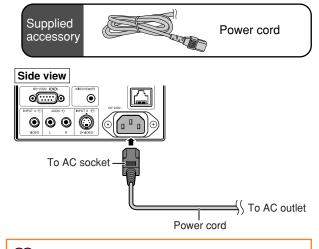
Green: The lamp is on. Blinking green: The lamp is warming up. Red: The lamp is shut down abnormally or the lamp should be replaced.

- When switching on the projector, a slight flickering of the image may be experienced within the first minute after the lamp has been illuminated. This is normal operation as the lamp's control circuitry is stabilizing the lamp output characteristics. This does not indicate malfunction.
- If the projector is put into standby mode and immediately turned on again, the lamp may take some time to illuminate.

Turning the Power Off (Put-

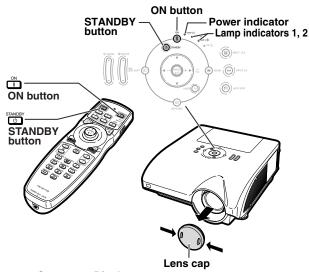
ting the Projector into Standby Mode)

Press () where we control, then projector or on the remote control, then press that button again while the confirmation message is displayed, to put the projector into standby mode.



📕 Info

- If "Direct Power On" is set to "ON", the projector will be turned on automatically when you plug the power cord into the AC outlet. (See page **87**.)
- English is the factory preset language. If you want to change the on-screen display to another language, change the language according to the procedure on page **92**.



▼On-screen Display

🕛 Enter STANDBY mode?

Yes: Press Again No: Please Wait

📕 Info

- You can unplug the power cord even if the projector is operating.
- Even if you unplug the power cord from the projector, the cooling fan continues to run for a while.

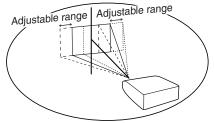
Image Projection

Shifting the Lens

In addition to the zoom function and adjustment of projection angle using the adjustment feet, you can adjust the position of the projection using the lens shift function. This is a useful function in cases such as when the screen cannot be moved.

When moving upward or downward



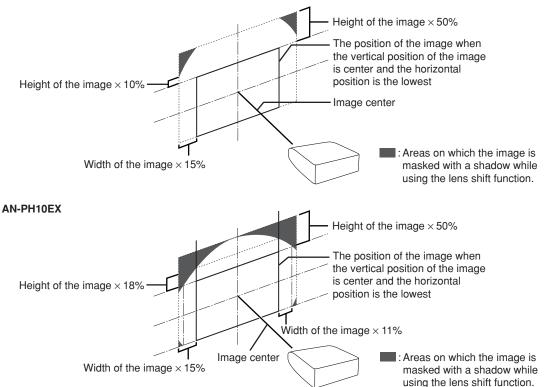


Adjustable range

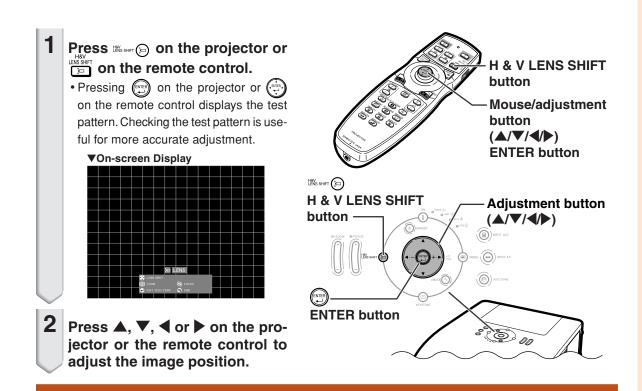
The adjustable range is shown below. Horizontal range: ±15% Vertical range: +50% (to the upper side) The adjustable range has limitations even within the range shown above.

The image can be adjusted as shown on the diagram.

AN-PH20EZ, AN-PH31EZ, AN-PH40EZ, AN-PH50EZ, AN-PH60EZ

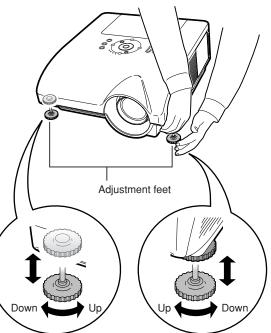


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Using the Adjustment Feet

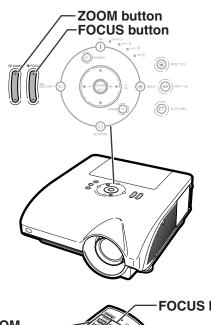
- When the position of the projected image cannot be adjusted with the lens shift function, use the adjustment feet to adjust the projected angle.
- The height of the projector can be adjusted using the adjustment feet when the screen is located higher than the projector, the screen is inclined or when the installation site is slightly inclined.
- Install the projector so that it is as perpendicular to the screen as possible.
 - While lifting the projector, rotate the adjustment feet.
 - The projector is adjustable up to approximately 9 degrees.
- 2 Lower the projector, and then rotate the adjustment feet for the fine adjustment.
 - When lowering the projector, be careful not to get your fingers caught in the area between the adjustment feet and the projector.

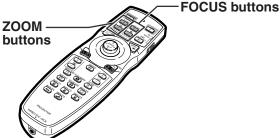


Adjusting the Focus Press II on the projector or the remote control to adjust the focus. ▼On-screen Display

on







Adjusting the Projected Image Size

Press on the projector or ۲ on the remote control to adjust the projected image size.

▼On-screen Display



🛞 Note

- · After you have pressed the FOCUS buttons or the ZOOM buttons on the remote control or the projector, you can display the test pattern by pressing the ENTER button. The test pattern is useful for making more accurate adjustments.
- . For fine adjustments, when pressing the H & V LENS SHIFT buttons, the FOCUS buttons or the ZOOM buttons, the projected image moves a small amount toward the desired direction for approximately one second. Hold down the buttons to move the projected image quickly.

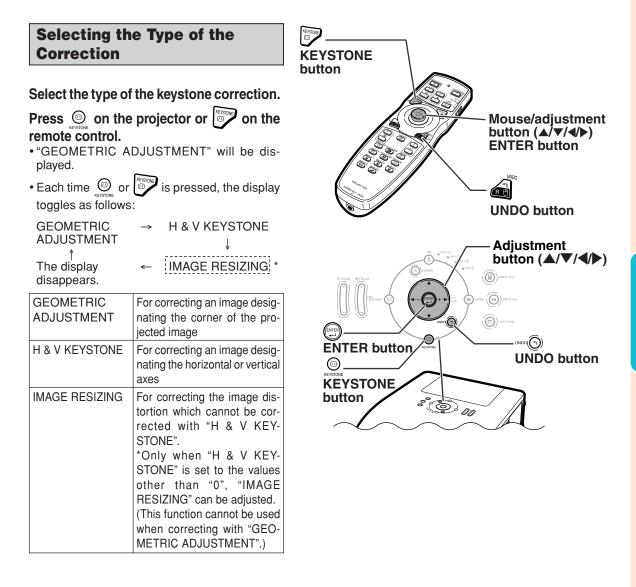
Correcting Trapezoidal Distortion

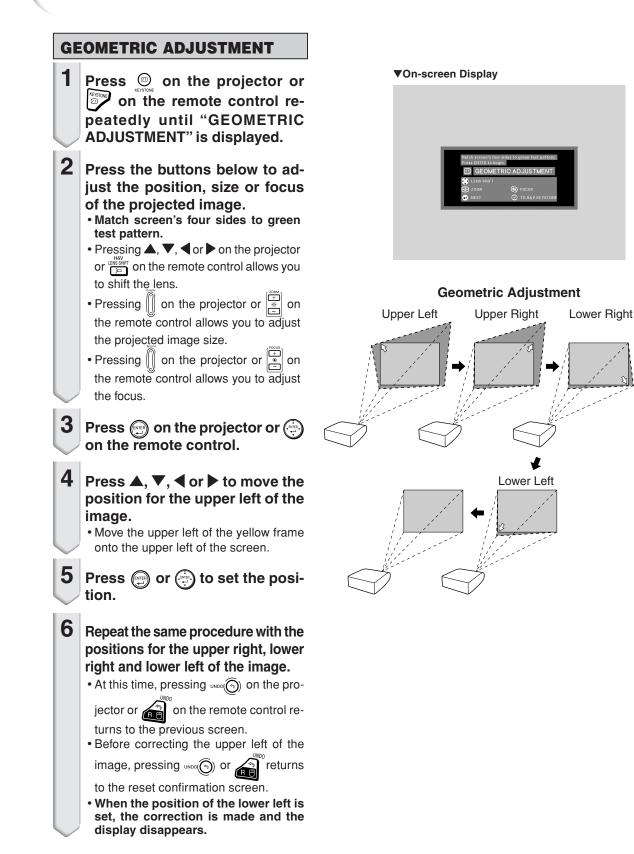
When the image is projected either from the top or from the bottom towards the screen at an angle, the image becomes distorted trapezoidally.

The function for correcting trapezoidal distortion is called Keystone Correction.

There are the two types of the Keystone Correction.

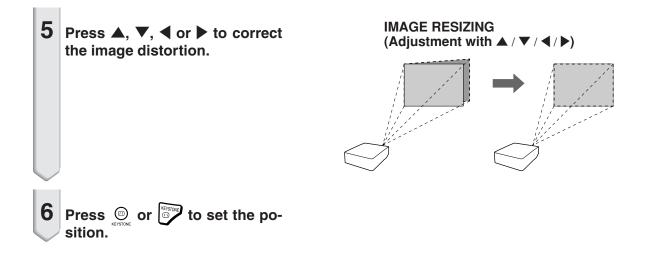
- "GEOMETRIC ADJUSTMENT" for correcting an image designating the corner of the projected image
- 2) "H & V KEYSTONE" for designating the correction of the horizontal and vertical axes





H & V KEYSTONE 1 ▼On-screen Display Press on the projector or on the remote control re-ന H&V KEYSTONE peatedly until "H & V KEY-📄 ADJUST 0 STONE" is displayed. 🔊 RESET آسه TEST PTRN • When the correction has already been made with "GEOMETRIC ADJUST-MENT", the confirmation message for resetting the correction before "H & V KEYSTONE" is displayed, and then reset. **2** Press \blacktriangle or \blacktriangledown to parallelize the **Vertical Keystone Correction** (Adjustment with \blacktriangle / \bigtriangledown) left and right sides of the projected image. **3** Press \triangleleft or \blacktriangleright to parallelize the **Horizontal Keystone Correction** (Adjustment with $\triangleleft / \triangleright$) upper and lower sides of the projected image. 4 Press or to display "IM-▼On-screen Display AGE RESIZING". **IMAGE RESIZING** (11) Only when "H & V KEYSTONE" is set ADJUST 🙆 END to the values other than "0", "IMAGE **RESIZING**" works. 🥱 RESET **44**)

Image Projection



Switching the Input Mode

Select the appropriate input mode for the connected equipment.

Press (B), (B), (NPUT2, NPUT3, NPUT4 or (D) on the remote control to select the input mode.

• When pressing (B) MATTER on the projector, the input mode switches in order of :

ר→INPUT 1 → INPUT 2 → INPUT 3

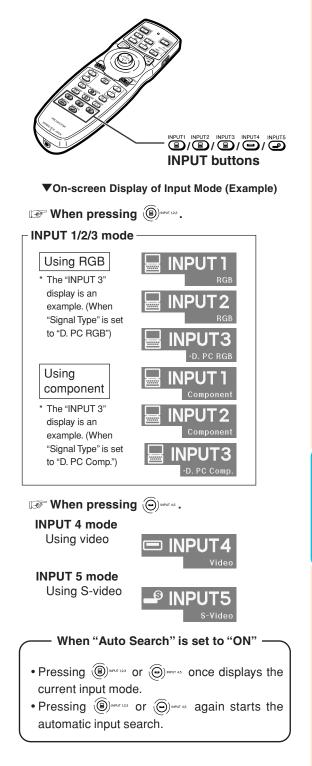
• When pressing () we on the projector, the input mode switches between "INPUT 4" and "INPUT 5".

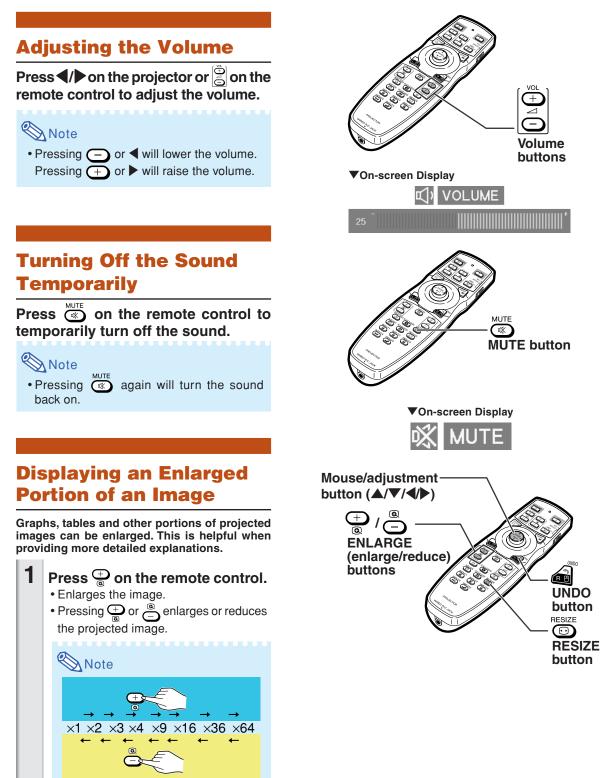
Note 📎

- When no signal is received, "NO SIGNAL" will be displayed. When non-supported signal is received, "NOT REG." is displayed.
- When "Auto Search" of the "Options (1)" menu is set to "ON", the input mode with signal can automatically be detected and displayed. (See page **78**.)
- The input mode is not displayed when "OSD Display" of the "Options (1)" menu is set to "Level A" or "Level B". (See page **75**.)

About the Input mode

About the h	ipatineas
INPUT 1/ INPUT 2 (RGB/ component)	Used for projecting images from equipment that sends RGB signals or component signals connected to the INPUT 1 or 2 terminals.
INPUT 3 (digital PC RGB/digital PC compo- nent/digital video RGB/ digital video component)	Used for projecting images from equipment connected to the INPUT 3 terminal.
INPUT 4 (video)	Used for projecting images from equipment connected to the INPUT 4 terminal.
INPUT 5 (S-video)	Used for projecting images from equipment connected to the INPUT 5 terminal.





2 Press a on the remote control to cancel the operation.

• The magnification then returns to ×1.

Note 🚫

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

- When switching the input mode.
- When 🔊 has been pressed.
- When the input signal is changed.
- When the input signal resolution and refresh rate (vertical frequency) change.
- When in has been pressed.

Freezing a Moving Image

Press on the remote control.
The projected image is frozen.

2 Press equipment.

Selecting the Picture Mode

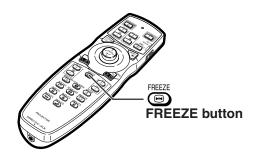
You can select the suitable picture mode for the projected image, such as movie or video game.

Press (a) on the remote control.
When pressing (b), the picture mode changes in order of

→ STANDARD → PRESENTATION → CINEMA → CUSTOM →

Note

- Press a to return to the "STANDARD" mode.
- This function can also be accessed from the OSD menu (see page 60).



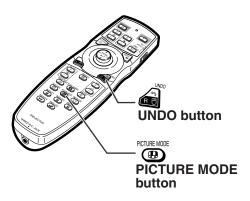


Image Projection

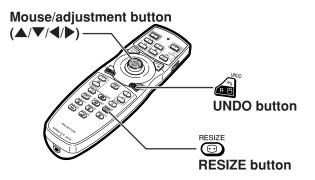
This function allows you to modify or customize the resize mode to enhance the input image. Depending on the input signal, you can choose a desired image.

Resize Mode

Press on the remote control.

• Pressing changes the display as shown.

- To return to the standard image, press while "RESIZE" is displayed on the screen.
- This function can also be accessed from the OSD menu (see page 74).



COMPUTER

		NORMAL	FULL	DOT BY DOT	BORDER	STRETCH
	SVGA (800 × 600)			800 × 600	768 × 576	
4:0 concet ratio	XGA (1024 × 768)	1001 700		1024 × 768		
4:3 aspect ratio	SXGA (1280 × 960)	1024 × 768		1280 × 960		1024 × 576
	SXGA+ (1400 × 1050)			1400 × 1050	_	
	SXGA (1280 × 1024)	968 × 768	1280 × 1024	720× 576		
	1280 × 720	1024 × 576	1024 × 768	1280 × 720		
	1360 × 768	1024 × 578	1	1360 × 768	—	—
Other aspect ratios	1366 × 768	1024 × 576	1	1366 × 768	1	
	1280 × 768	1024 × 614	1	1280 × 768	960 × 576	
	1280 × 800	1024 × 640	1	1280 × 800	922 × 576	1024 × 576

Input	signal	For 4:3 screen		For 16:9		e screen
Computer	Image type	NORMAL	FULL	DOT BY DOT	BORDER	STRETCH
Resolution lower than XGA				$^{\circ}$	*	
XGA					\sim	
SXGA (1280 × 960)						*
Resolution higher than SXGA	4:3 aspect ratio			P q		$^{\circ}$
SXGA (1280 × 1024)	5:4 aspect ratio				*	
1280 × 720		*			Select "	Normal"
1360 × 768 1366 × 768	16:9 aspect ratio		0_0			
1280 × 768			000		*	*
1280 × 800	16:10 aspect ratio				$^{\circ}_{\circ}$	

: Cutout area on which images cannot be projected

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

*The Digital Shift function can be used for these images.

VIDEO

Input	signal	For 4:3	screen		For 16:9 screen	
DTV/video	Image type	NORMAL	FULL	BORDER	STRETCH	SMART STRETCH
	4:3 aspect ratio			*	*	
480I, 480P, 576I, 576P, NTSC, PAL, SECAM	Letter box	$\frac{2}{2}$		*	*	*
	Squeeze			* 0000	*	
540P	16:9 aspect ratio	Select "Stretch"			*	
340F	4:3 aspect ratio in 16:9	Select "Full"			*	
	16:9 aspect ratio	Select "Stretch"		*	*	
720P, 1035I, 1080I	4:3 aspect ratio	Select "Full"		*	*	

: Cutout area on which images cannot be projected : Area on which the image is not included in the original signals *The Digital Shift function can be used for these images.

Displaying the Black Screen

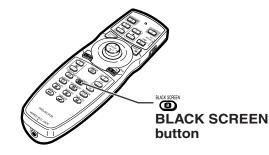
This function allows you to temporarily display the black screen.



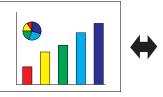
2

Press BLACK SCREEN

Pressing again will turn the projected image back on.



▼Projected Image



BLACK SCREEN

Displaying and Setting the Break Timer

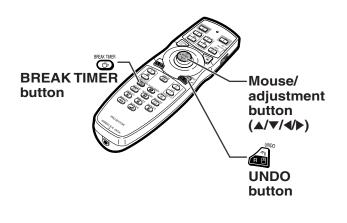
This function allows you to show the remaining time for break during meeting.



- While "^b " is displayed, press
 ▲, ▼, ◀ or ▶ to set the break timer.
 - You can set anywhere between 1 and 60 minutes (in 1 units).
 - The break timer starts to count down as soon as ▲, ▼, ◀ or ▶ is pressed.

Note

- Pressing ivil cancel the break timer.
- Auto Power Off function will be temporarily disabled during the break timer. When no input signal is detected for more than 15 minutes, the projector will automatically enter the standby mode if the break timer has elapsed.
- The break timer will be displayed on the startup image. To change the screen displayed during the break timer, change the setting of "Startup Image" (see page 77).
- When "Slave" is set for "Stack Setting", the break timer is not displayed. (See page 84.)



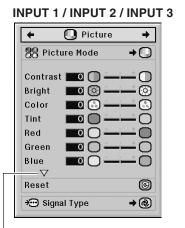
▼On-screen Display



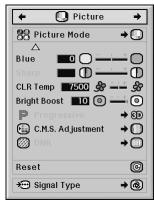
Menu Items

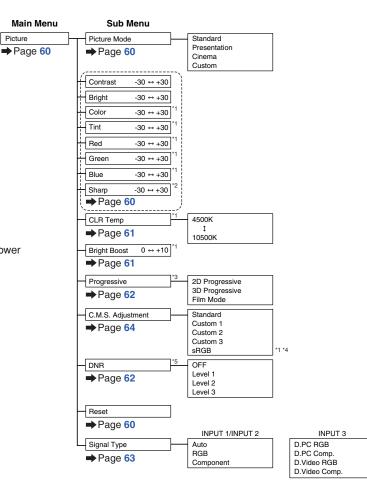
The following shows the items that can be set in the projector.

"Picture" menu



Pressing ∇ displays the items on the lower part of the "Picture" menu.



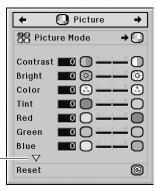


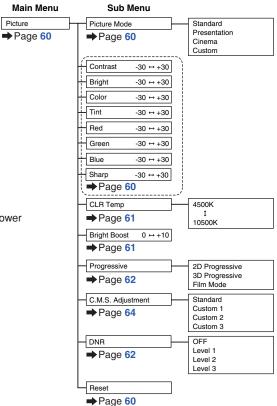
- *1 "Color", "Tint", "Red", "Green", "Blue", "CLR Temp" and "Bright Boost" cannot be adjusted when "C. M. S. Adjustment" is set to "sRGB".
- *2 "Sharp" can be adjusted only when 480I, 480P, 540P, 576I, 576P, 720P, 1035I, or 1080I signal is input.
- *3 "Progressive" can be adjusted only when 480I or 576I signal is input.
- *4 "sRGB" can be selected under the conditions below.
 - When "Signal Type" is set to "RGB", "D. PC. RGB" or "D. Video RGB".
 - When "Signal Type" is set to "Auto" and the input signal is distinguished as "RGB".
- *5 "DNR" can be adjusted only when 480I, 480P, 576I or 576P signal is input.



"Picture" menu

INPUT 4 / INPUT 5





Pressing ∇ displays the items on the lower part of the "Picture" menu.

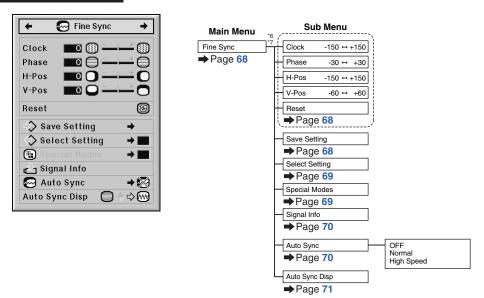
+	🕛 Picture	+
88 Pict	ure Mode	+ O
∆ Blue		
Sharp		
	ost 3 0	
	gressive	→ 3D
🔚 C.M.9 ∅ DNB	S. Adjustment	+0 →@
Reset		C

"C.M.S." menu

+	🛄 C.M.S.	+
🕒 С.М.	S. Adjustment	•1
Target	R	
Lightnes	s 🗖 🛞 🗕 -	-+ 📀
Chroma		-* 🕄
Hue		-* 🕑
Reset (This Color)	C
Reset (All Colors)	C
🕒 Viet	w Settings	

Main Menu	Sub Menu	
с.м.s. ➡Раде 64	C.M.S. Adjustment Standard → Page 64 Custom 2 Custom 3 sRGB	
	Target [R] Red [Y] Yellow G] Green [C] Cyan [B] Blue [M] Magen	
	Lightness -30 ↔ +30 ⇒ Page 65	
	Chroma -30 ↔ +30 → Page 65	
	Hue -30 ↔ +30	
	Reset (This Color) Page 66	
	→ Page 66	
	✓ View Settings → Page 67	

"Fine Sync" menu

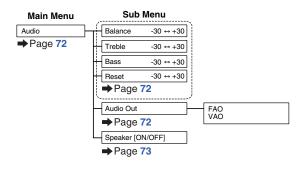


- *6 The "Fine Sync" menu is displayed only while the input mode is INPUT 1, INPUT 2 or INPUT 3.
- *7 "Clock", "Phase", "H-Pos", "V-Pos", "Reset", "Save Setting", "Select Setting" and "Special Modes" can be adjusted only while the input mode is INPUT 1 or INPUT 2.

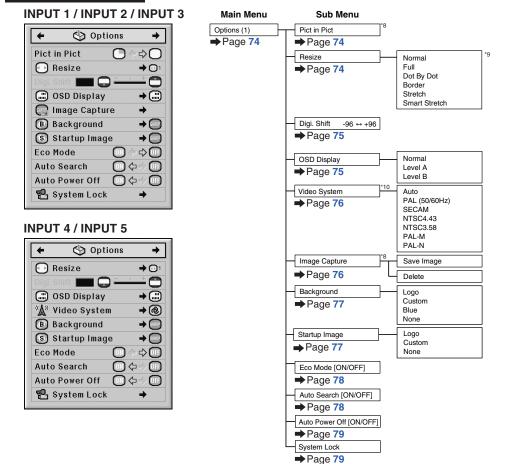


"Audio" menu

+	📢 🛛 Audio	+
Balance Treble	 (□	»
Bass Reset	•	
¶⇒ Audi Speaker		→ ⊈) - → 🕕



"Options (1)" menu



- *8 Item when inputting RGB signal through INPUT 1, INPUT 2 or INPUT 3
- *9 Selectable items in "Resize" mode may differ depending on the signal.
- *10 Item when selecting INPUT 4 or INPUT 5

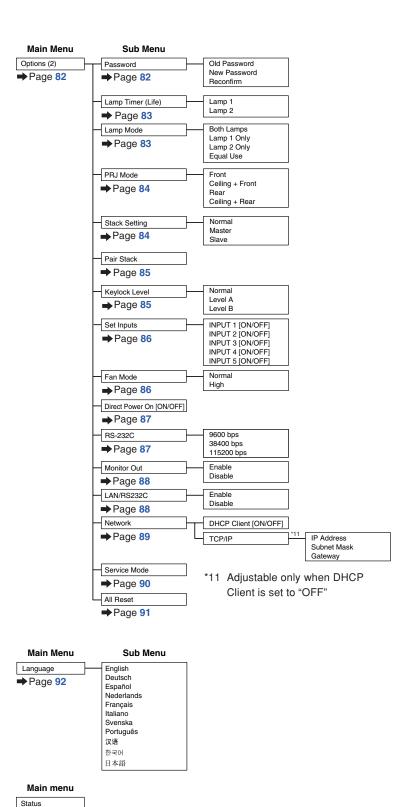
"Options (2)" menu

+	🅎 Options		•
S	Password	•	
Ö	Lamp Timer (Life)		
Ö	Lamp Mode	•	Öð:
Ę	PRJ Mode	•	5
00	Stack Setting	+	
			ŪŪ
A	Keylock Level	+	A
Ð	Set Inputs	+	
8	Fan Mode	+	8
Dire	ect Power On 🛛 🗇	⇔	
10101	RS-232C → 11520	0	bps
	Monitor Out	+	0
	LAN/RS232C	⇒	
0e	Network	+	
6	Service Mode	•	
All	Reset		0

"Language" menu

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

"Status" menu

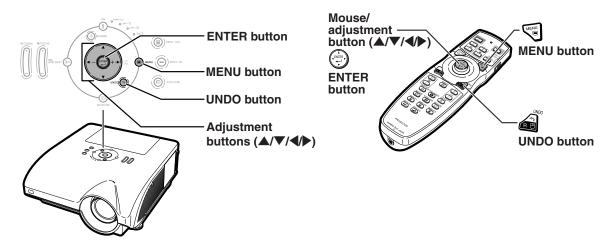


Useful Features

➡ Page 92

Using the Menu Screen

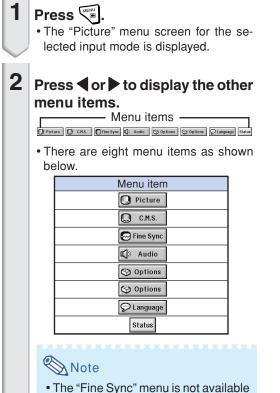
The menu can be operated to achieve two functions, adjustments and settings. (For setting the menu items, see pages 58 and 59.)



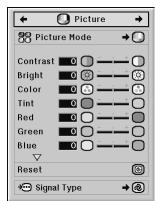
Menu Selections (Adjustments)

Example: Adjusting "Bright"

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



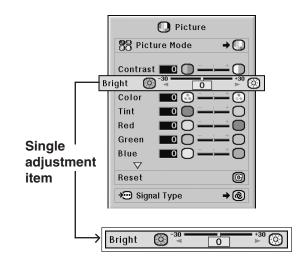
Example: "Picture" screen menu for INPUT 1 (RGB) mode



• The "Fine Sync" menu is not available for selecting INPUT 4 or INPUT 5.

3 Press \blacktriangle or \blacktriangledown to select the item you want to adjust.

To adjust the projected image while viewing it



Press

- The selected single adjustment item (e.g. "Bright") appears instead of the menu.
- When pressing ▲ or ▼, the following item ("Color" after "Bright") will be displayed.

Note

5

Press

- Press for return to the previous screen.
- 4 Press ◀ or ► to adjust the item selected.

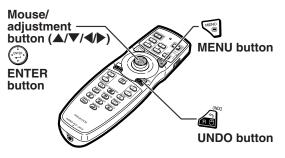
• The menu screen will disappear.

• The adjustment is stored.

Picture **Picture Mode** → □ Contrast 🗖 🔘 Bright \odot ര +15 Color 0 💽 i Tint Red Green \frown Blue • C ∇ Reset © **→**@ → Signal Type

Using the Menu Screen

The menu can be operated to achieve two functions, adjustments and settings. (For adjusting the menu items, see pages 56 and 57.)



Menu Selections (Settings)

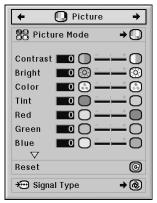
Example: Setting "OSD Display"

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

1 Press 🗐

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

Example: "Picture" screen menu for INPUT 1 (RGB) mode

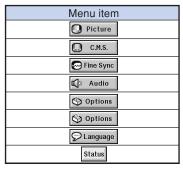


2 Press ◀ or ▶ to display the other menu items.

— Menu items -

Picture C.M.S. Fine Sync 🕼 Audio 😒 Options 😒 Options 💭 Language Stat

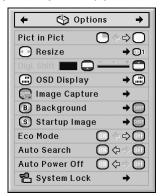
• There are eight menu items as shown below.

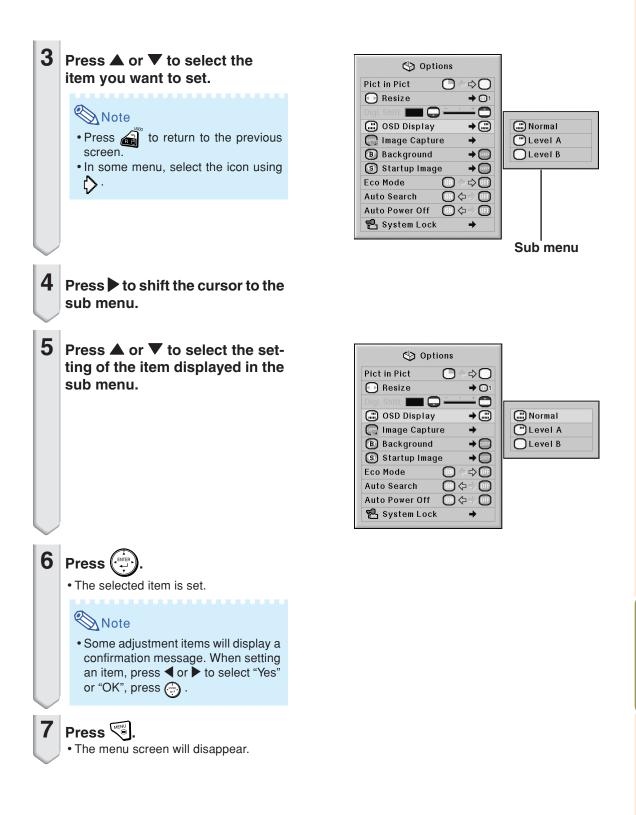


Note 🚫

• The "Fine Sync" menu is not available for selecting INPUT 4 or INPUT 5.

Example: "Options (1)" screen menu





Picture Adjustment ("Picture" menu)

You can adjust the projector's picture to your preferences using the "Picture" menu.

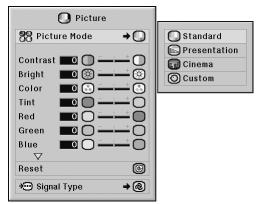
Selecting the Picture Mode

This function allows you to select the picture mode in accordance with brightness of the room or content of the image to be projected.

In all picture modes, items on the "Picture" menu can be adjusted and saved.

Menu operation Page 58

Example: "Picture" screen menu for IN-PUT 1 (RGB) mode



Description of Picture Modes

Selectable items	Description
Standard	For standard image
Presentation	Brightens darker portions of image for more enhanced presentations.
Cinema	Gives greater depth to darker portions of image for a more exciting theater experience.
Custom	The factory preset value is the same as the one of "Standard". Using the dedicated software allows you to adjust the gamma curve. Visit "http://sharp-world.com/projector/" for details.

🗞 Note

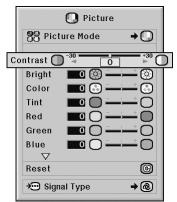
• You can also press (B) on the remote control to select the picture mode. (See page 47.)

Adjusting the Image

Select a picture mode before adjusting the image.

Menu operation Page 56

Example: "Picture" screen menu for IN-PUT 1 (RGB) mode



Description of Adjustment Items

Selectable items	Press <	Press 🕨
Contrast	For less contrast	For more contrast
Bright	For less brightness	For more brightness
Color ^{*1}	For less color intensity	For more color intensity
Tint ^{*1}	For making skin tones	For making skin tones
	purplish	greenish
Red ^{⁺1}	For weaker red	For stronger red
Green ^{*1}	For weaker green	For stronger green
Blue⁺¹	For weaker blue	For stronger blue
Sharp ^{*2}	For less sharpness	For more sharpness

- *1 "Color", "Tint", "Red", "Green" and "Blue" cannot be adjusted when "C.M.S. Adjustment" on the "C.M.S." menu is set to "sRGB". (See page 64.)
- *2 "Sharp" can be adjusted only when 480I, 480P, 540P, 576I, 576P, 720P, 1035I or 1080I DTV signal is input during the INPUT 1, 2 or 3 mode; or the input mode is set to INPUT 4 or 5.

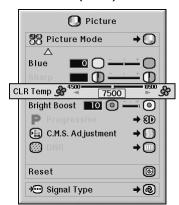
🔕 Note

• To reset all adjustment items, select "Reset" and press (...).

Adjusting the Color Temperature

Menu operation 🌩 Page 56

Example: "Picture" screen menu for IN-PUT 1 (RGB) mode



Description of Color Temperature Settings

Selectable items	Description
4500K	For lower color temperature for warmer,
•	reddish incandescent-like images.
10500K	For higher color temperature for cooler, bluish, fluorescent-like images.

🗞 Note

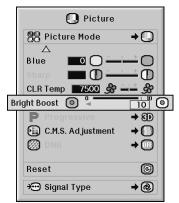
• "CLR Temp" cannot be set when "C.M.S. Adjustment" on the "C.M.S." menu is set to "sRGB". (See page 64.)

Emphasizing the Contrast

This function emphasizes the bright portions of images to obtain a higher contrast image.

Menu operation Page 56

Example: "Picture" screen menu for IN-PUT 1 (RGB) mode



Description of Bright Boost Setting

Press <	Press 🕨
To improve color reproduc-	To increase brightness,
tion, lower bright boost	increase bright boost
setting.	setting.

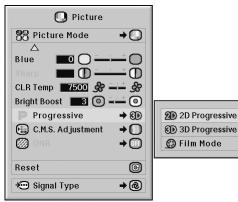
Note 📎

• "Bright Boost" cannot be set when "C.M.S. Adjustment" on the "C.M.S." menu is set to "sRGB". (See page 64.)

Selecting the Progressive Mode

Menu operation 🌩 Page 58

Example: "Picture" screen menu for IN-PUT 1 (RGB) mode



Description of Progressive

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

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

🗞 Note

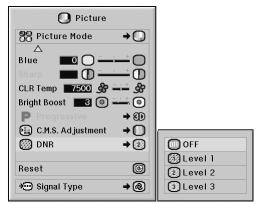
- In NTSC or PAL60Hz, even if the 3D Progressive mode has been set, the three-two pull down enhancement will be enabled automatically when the film source has been entered.
- When the image is blurred or noisy, switch to the optimal mode.
- When using progressive inputs, inputs are directly displayed so that "2D Progressive", "3D Progressive" and "Film Mode" cannot be selected.

Reducing Image Noise (DNR)

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

Menu operation Page 58

Example: "Picture" screen menu for IN-PUT 1 (RGB) mode



Description of DNR

Sele	ectable items	Description
OF	F	DNR does not function.
Le۱	vel 1–3	Sets the DNR level.

Note 📎

• Set a level so as to view a clearer picture. Make sure to set "DNR" to "OFF" in the following cases:

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

🛄 Info

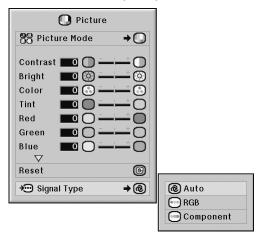
- This function is available for all signals with IN-PUT 4 and 5.
- This function is available for 480I, 480P, 576I and 576P signals with INPUT 1, 2 and 3.

Signal Type Setting

This function allows you to select the input signal type RGB or component for INPUT 1, INPUT 2 or INPUT 3.

Menu operation Page 58

Example: "Picture" screen menu for IN-PUT 1 (RGB) mode



Description of Signal Type Settings

INPUT 1/INPUT 2

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

INPUT 3

Selectable items	Description
D. PC RGB	Set when digital PC RGB signals are
	received from a computer.
D. PC Comp.	Set when digital PC component signals
	are received from a computer.
D. Video RGB	Set when digital video RGB signals are
	received from video equipment.
D. Video Comp.	Set when digital video component
	signals are received from video equip-
	ment.

Color Management System ("C. M. S." menu)

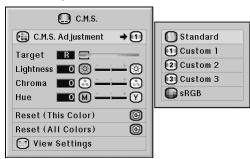
This function allows you to individually adjust the display characteristics of six colors (R: Red, Y: Yellow, G: Green, C: Cyan, B: Blue, M: Magenta).

Selecting the Color Reproduction Mode

This function allows you to select the color reproduction mode for the projected images.

Menu operation Page 58

Example: "C.M.S." screen menu



Description of C.M.S. Adjustment

Selectable items	Description	
Standard	Standard settings	
Custom 1 – 3	"Lightness", "Chroma" and "Hue" can be	
	adjusted for each of the six colors.	
sRGB	A natural tint based on an original im-	
	age from the computer.	

🗞 Note

- 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 "C.M.S. Adjustment" is set to "sRGB".
- You cannot set "Color", "Tint", "Red", "Green", "Blue", "CLR Temp", "Bright Boost" on the "Picture" menu, when "C.M.S. Adjustment" is set to "sRGB".
- For additional information about the sRGB function, visit "http://www.srgb.com/".

📕 Info

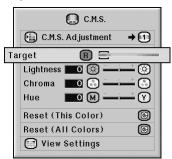
• When "C.M.S. Adjustment" is set to "sRGB", the projected image may become dark, but this does not indicate a malfunction.

Selecting the Target Color

This function allows you to select the target color for adjusting the display characteristics.

Menu operation Page 56

Example: "C.M.S." screen menu



Description of Target Colors

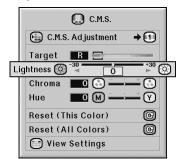
R	Red	0	Cyan
8	Yellow	B	Blue
G	Green	⊠	Magenta

Setting the Brightness of the Target Color

This function allows you to set the brightness of the selected target color.

Menu operation Page 56

Example: "C.M.S." screen menu



Description of Brightness

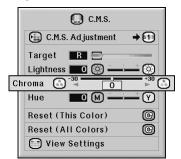
Press <	Press 🕨
For less brightness of the	For more brightness of the
target color	target color

Setting the Chromatic Value of the Target Color

This function allows you to set the chromatic value of the selected target color.

Menu operation Page 56

Example: "C.M.S." screen menu



Description of Chromatic Value

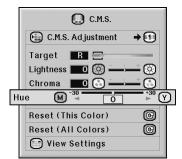
Press <	Press 🕨
For less chromatic value of	For more chromatic value of
the target color	the target color

Setting the Hue of the Target Color

This function allows you to set the hue of the selected target color.

Menu operation Page 56

Example: "C.M.S." screen menu



Description of Hue

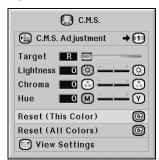
Press <	Press 🕨
For stronger red of the	For stronger yellow of the
target color	target color

Resetting User-defined Color Settings

This function allows you to reset the specific target color or all of the six colors.

Menu operation Page 56

Example: "C.M.S." screen menu



Description of Reset

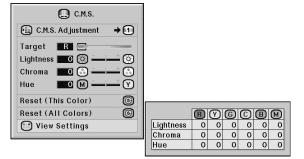
Selectable items	Description
Reset (This Color)	"Lightness", "Chroma" and "Hue" of
	the color selected for "Target" are
	reset.
Reset (All Colors)	"Lightness", "Chroma" and "Hue" of
	all colors are reset.

Overview of All Color Settings

This function allows you to confirm the settings of all the colors.

Menu operation Page 56

Example: "C.M.S." screen menu



Computer Image Adjustment ("Fine Sync" menu)

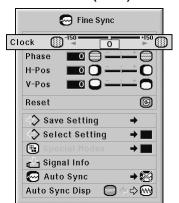
You can adjust the computer image, match the computer display mode, and confirm the input signal using the "Fine Sync" menu.

Adjusting the Computer Image

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

Menu operation Page 56

Example: "Fine Sync" screen menu for INPUT 1 (RGB) mode



Description of Adjustment Items

Selectable items	Description
Clock	Adjusts vertical noise.
Phase	Adjusts horizontal noise (similar to
	tracking on your VCR).
H-Pos	Centers the on-screen image by
	moving it to the left or right.
V-Pos	Centers the on-screen image by
	moving it up or down.

Note 📎

- You can automatically adjust the computer image by setting "Auto Sync" on the "Fine Sync" menu to "Normal" or "High Speed", or pressing

 Image Synce on the projector or
 Image Synce on the remote control. See page 70 for details.
- To reset all adjustment items, select "Reset" and press (......).

Saving Adjustment Settings

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

Menu operation Page 58

Example: "Fine Sync" screen menu for INPUT 1 (RGB) mode

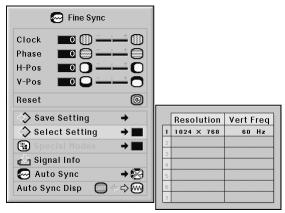
📨 Fine Sync	
Clock 0 () () Phase 0 () H-Pos 0 0 V-Pos 0 0	
Reset ⓒ Save Setting → Select Setting →	Resolution Vert Freq 1 1024 × 768 60 Hz 2
Special Modes → Signal Info Auto Sync Auto Sync → Auto Sync	3 4 5 6 7

Selecting Adjustment Settings

Adjustment settings stored in the projector can be easily accessed.

Menu operation Page 58

Example: "Fine Sync" screen menu for INPUT 1 (RGB) mode



🔕 Note

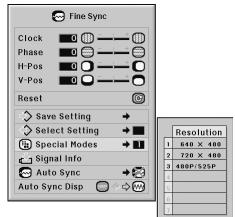
- If a memory has not been set, a resolution and frequency setting will not be displayed.
- When selecting a stored adjustment setting with "Select Setting", you can set the projector in the stored adjustments.

Special Mode Setting

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

Menu operation Page 58

Example: "Fine Sync" screen menu for INPUT 1 (RGB) mode



🗞 Note

- If your computer displays patterns which repeat every other line (horizontal stripes), flickering may occur which makes the image hard to see.
- See "Checking the Input Signal" on page **70** for information on the currently selected input signal.

Checking the Input Signal

Menu operation Page 56

Example: "Fine Sync" screen menu for INPUT 1 (RGB) mode

😔 Fine Sync		
Clock 🔲 🛞 – – – + 🛞		
Phase 🗾 🗐 🛶 🕂 😁		
H-Pos 🔳 🖸 🗖 🗕 🕂 🔘		
V-Pos 🗖 💭 🛶 📥 🗖		
Reset 🔘		
🖒 Save Setting 🔶		
♦ Select Setting →		
🕒 Special Modes 🛛 🔶 🔳		
📩 Signal Info	Resolution	1024 × 768
🐼 Auto Sync 🛛 🔸 🕅	Hor Freq	48.4 kHz
Auto Sync Disp 💿 🗇 🐼	Vert Freq	60 Hz

\delta Note

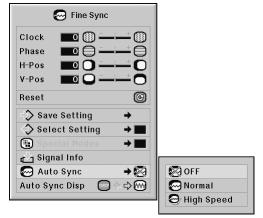
- The projector will display the number of scanned lines available from audio-visual equipment such as a DVD player or Digital Video.
- The projector will display the resolution when connecting the computer.

Auto Sync Adjustment

Used to automatically adjust a computer image.

Menu operation Page 58

Example: "Fine Sync" screen menu for INPUT 1 (RGB) mode



Description of Auto Sync Adjustment

Selectable items	Description
OFF	Auto Sync adjustment is not automati-
OFF	cally performed.
Normal	Auto Sync adjustment will occur when
	the projector is turned on or when the
	input signals are switched, when
	connected to a computer.
High Speed	"Normal" takes more time than "High
	Speed" for more accurate Auto Sync
	adjustment.

🗞 Note

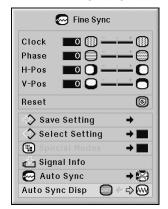
- Auto Sync adjustment is also performed by pressing (a) and the projector or a on the projector or a on the remote control.
- The Auto Sync adjustment may take some time to complete, depending on the image of the computer connected to the projector.
- When the optimum image cannot be achieved with Auto Sync adjustment, use manual adjustments. (See page **68**.)
- When is pressed while "Auto Sync" is "OFF" or "High Speed", Auto Sync will be executed in "High Speed" mode. If the button is pressed again within one minute, Auto Sync will be executed in "Normal" mode.

Auto Sync Display Function

Used to set the display during Auto Sync.

Menu operation Page 56

Example: "Fine Sync" screen menu for INPUT 1 (RGB) mode



Description of Auto Sync Display

Selectable items	Description		
_	The image set as a background image is projected. See page 77 .		
	The computer image being adjusted is displayed.		

Audio Adjustment ("Audio" menu)

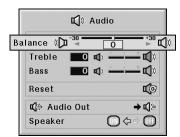
You can adjust the projector's audio to your preferences using the "Audio" menu.

Adjusting the Audio

This function allows you to adjust the projector's audio.

Menu operation Page 56

Example: "Audio" screen menu



Description of Adjustment Items

Selectable items	Press <	Press 🕨
Balance	Increased audio from	Increased audio from
	the left speaker	the right speaker
Treble	For weaker treble	For stronger treble
Bass	For weaker bass	For stronger bass

🗞 Note

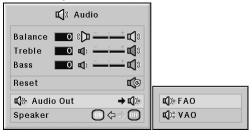
• To reset all adjustment items, select "Reset" and press .

Setting the Audio Output Type

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

Menu operation Page 58

Example: "Audio" screen menu



Description	of	Audio	Out	Settings
-------------	----	-------	-----	----------

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

🛄 Info

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

🗞 Note

When the projector is connected to audio equipment:

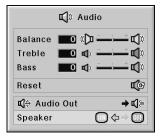
- It is recommended that "FAO" be selected on "Audio Out". Because the audio signal from the audio equipment does not vary in strength with the volume level of the projector, you can enjoy better sound.
- When "FAO" be selected on "Audio Out", video and audio may not synchronize.
 - When connecting audio equipment that has a function for adjusting audio delay time, adjust the delay time for synchronizing video and audio.
- When the audio equipment does not have such a function and the unsynchronized video and audio bothers you, select "VAO" on "Audio Out". Selecting "VAO" synchronizes video and audio automatically.

Speaker Setting

This function allows you to turn the audio output of the internal speaker on or off when the projector is connected to an external amplifier.

Menu operation Page 56





Description of Speaker Settings

Selectable items	Description		
ON	The audio signal is output from the internal		
	speaker.		
OFF	The audio signal is not output from the		
	internal speaker.		

Using the "Options (1)" Menu

You can use the "Options (1)" menu to enhance the usage for the projector.

Displaying Dual Pictures (Pict in Pict)

The Pict in Pict (picture in picture) function allows you to display two pictures on the same screen. You can display the image input from INPUT 4 or 5 as an inset picture overlapping the main picture input from INPUT 1, 2 or 3.

Menu operation Page 56

Example: "Options (1)" screen menu for INPUT 1 (RGB) mode



🔊 Note

- You can press $\textcircled{O}_{\text{NPUT4}}$ on the projector or $\textcircled{O}_{\text{PUT4}}$, on the remote control to select the inset picture image.
- You can press \blacktriangle / \checkmark / \blacklozenge / \blacklozenge on the projector or on the remote control to change the location of the inset picture image.

(The inset picture frame will be displayed. To display the inset picture to the desired position, move the frame and press () on the projector or () on the remote control.)

- Inset picture can only be displayed in composite video or S-video signal of NTSC/PAL/SECAM.
- The audio of the inset picture will come out of the projector's speakers.
- While the "Pict in Pict" function is working, the "FREEZE" function only works for the inset picture.
- The "Pict in Pict" function does not work when the following signals are input to the main picture. –UXGA/SXGA+/SXGA/WXGA signal
 - -480I/480P/540P/576I/576P/720P/1035P/1080I signal -Interlaced RGB signal

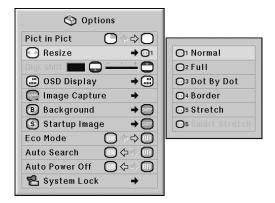
 - All signals (when "Resize" is set to "Dot by Dot")
 - -No signal (or when the resolution or refresh rate (vertical frequency) of the signal is changed)

Setting the Resize Mode

Depending on the input signal, you can select the screen image.

Menu operation Page 58

Example: "Options (1)" screen menu for INPUT 1 (RGB) mode



Selectable Items of Resize Mode

When inputting RGB signal	When inputting DTV/video signal
Normal	Normal
Full	Full
Dot By Dot	Border
Border	Stretch
Stretch	Smart Stretch

🛞 Note

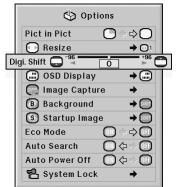
- For details of the Resize mode, see pages 48 and 49.
- You can also press () on the remote control to change the resize mode. (See page 48.)

Shifting the Projected Image Vertically (Digital Shift)

For easier viewing, this function shifts the image projected on the screen up or down eliminating either the upper or lower black band found in 16:9 and other wide aspect ratios.

Menu operation 🌩 Page 56

Example: "Options (1)" screen menu for INPUT 1 (RGB) mode



Description of Digital Shift

Press <	Press 🕨	
Shifts the projected image	Shifts the projected image	
down.	up.	

Note 📎

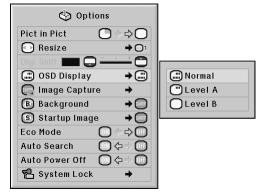
• The "Digital Shift" function works with the "NORMAL", "BORDER", "STRETCH" or "SMART STRETCH" image. (See page 49.)

Setting On-screen Display

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

Menu operation Page 58

Example: "Options (1)" screen menu for INPUT 1 (RGB) mode



Description of OSD Display Settings

Selectable items	Description			
Normal	All on-screen displays are displayed.			
	INPUT/VOLUME/MUTE/BLACK SCREEN/			
	FREEZE/AUTO SYNC/ENLARGE/ "An in-			
Level A	valid button has been pressed." are not dis-			
	played.			
	All on-screen displays are not displayed. (ex-			
Level B	cept the menu, H & V LENS SHIFT, KEY-			
	STONE, FOCUS, ZOOM, "All buttons on Pro-			
	jector are locked." and warning displays)			

Note

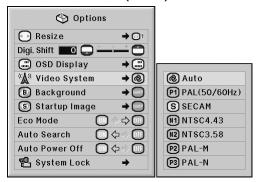
• While "Keylock Level" is "Level A" or "Level B", pressing () where displays "All buttons on Projector are locked." despite the "OSD Display" setting.

Setting the Video System

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

Menu operation Page 58

Example: "Options (1)" screen menu for INPUT 4 (video) mode



Description of Video Systems

Selectable items	Description	
PAL (50/60 Hz)	When connected to PAL video equipment.	
SECAM	When connected to SECAM video equipment.	
NTSC4.43	When reproducing NTSC signals in PAL	
	video equipment.	
NTSC3.58	When connected to NTSC video equipment.	

Note 📎

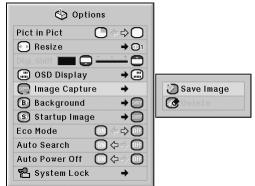
- The video signal can only be set in INPUT 4 or INPUT 5 mode.
- When "Video System" is set to "Auto", you may not receive a clear picture due to signal differences. Should this occur, switch to the video system of the source signal.
- While "Video System" is set to "Auto", when PAL-M or PAL-N signal is input, the image from PAL signal will be displayed.

Capturing Projected Images

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

Menu operation Page 58

Example: "Options (1)" screen menu for INPUT 1 (RGB) mode



🗞 Note

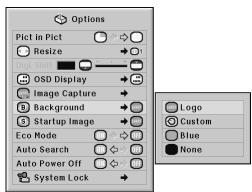
- Images can be captured only when they are from XGA (1024 × 768) non-interlace signals in INPUT 1, INPUT 2 or INPUT 3 mode with "RESIZE" set to "Normal".
- The saved image is reduced to 256 colors.
- Images from equipment connected to INPUT 4 or INPUT 5 terminal cannot be captured.
- Only one image can be captured and saved.
- The color of images may differ before and after saving if an image is captured on which image adjustment has been performed using the "C.M.S." function.
- To delete the captured image, select "Delete", and then press .

Selecting the Background Image

Selecting the Startup Image

Menu operation Page 58

Example: "Options (1)" screen menu for INPUT 1 (RGB) mode



Description of Background Images

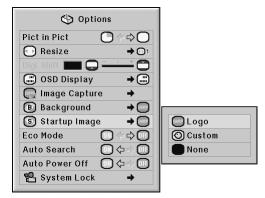
Selectable items	Description		
Logo	Default image		
Custom	User customized image (e.g. company logo)		
Blue	Blue screen		
None	Black screen		

📎 Note

- You can set a captured image as a background image by selecting "Custom".
- When "Custom" is selected, an image saved using "Image Capture" can be displayed as a background image.

Menu operation Page 58

Example: "Options (1)" screen menu for INPUT 1 (RGB) mode



Description of Startup Images

Selectable items	Description	
Logo	Default image	
Custom	User customized image (e.g. company logo)	
None	Black screen	

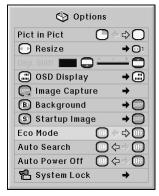
\delta Note

- You can set a captured image as a startup image by selecting "Custom".
- When "Custom" is selected, an image saved using "Image Capture" can be displayed as a startup image.

Eco Mode



Example: "Options (1)" screen menu for INPUT 1 (RGB) mode



Description of Eco Mode

Selectable items	Brightness	Power consumption (When using AC 100V)	Lamp life
ON	Approx. 86%	Approx. 570 W	Approx. 2,500 hours*
OFF	100%	650 W	Approx. 2,000 hours*

* This is a reference value and is not guaranteed.

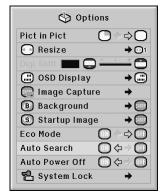
Note 📎

• When "Eco Mode" is set to "ON", the power consumption will decrease and the lamp life will extend. (Projection brightness decreases approximately 14%.)

Detecting the Input Signals Automatically

Menu operation Page 56

Example: "Options (1)" screen menu for INPUT 1 (RGB) mode



Description of Auto Search

Selectable items	Description
ON	Automatically searches for and switches to
	the input mode in which signals are being
	received.
OFF	"Auto Search" does not function.

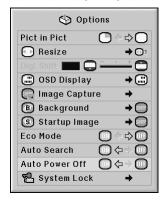
🗞 Note

• While the "Auto Search" function is detecting the input signal, pressing a button on the projector or the remote control stops the "Auto Search" function. After the "Auto Search" function finishes completely, press the desired button.

Auto Power Off Function

Menu operation Page 56

Example: "Options (1)" screen menu for INPUT 1 (RGB) mode



Description of Auto Power Off

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

🗞 Note

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

System Lock Function

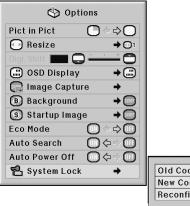
This function prevents unauthorized use of the projector. Once this function is activated, users must enter the correct keycode each time the projector is turned on. We suggest you record the keycode in a safe place where only authorized users have access.

📕 Info

 If you lose or forget your keycode, contact your nearest Sharp Authorized Projector Dealer or Service Center (see page 104). Even if the product warranty is valid, the keycode reset will incur a charge.

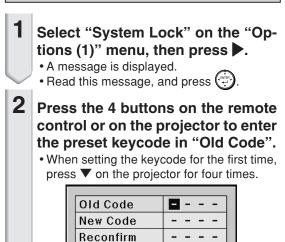
Menu operation Page 58

Example: "Options (1)" screen menu for INPUT 1 (RGB) mode



Old Code	-	-	-	-
New Code	-	-	-	-
Reconfirm	-	-	-	-

Setting the keycode



Using the "Options (1)" Menu

📎 Note

- If you input a wrong keycode, the cursor returns to the first point of the "Old Code".
- The preset keycode is 4 ▼ buttons on the projector. If this keycode is set, the keycode input screen does not appear when turning the power on.

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

🗞 Note

- You cannot use the following buttons for keycode:
 - ON button
- STANDBY button
- ENTER button
- L-click button
- R-click/UNDO button
- MENU button
- ZOOM buttons
- FOCUS buttons
- H & V LENS SHIFT button
- System Lock function recognizes each button on the remote control or on the projector as an individual button, even if they share the same button name. If you set the keycode with the buttons on the projector, use only those buttons on the projector. If you set the keycode with the buttons on the remote control, use only those buttons on the remote control.

Enter the same keycode in "Reconfirm".

🇞 Note

Not displaying the keycode input screen when turning the projector on

• Press ▼ on the projector for four times in steps 2 and 3 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. Failure to enter the keycode will cause images not to be projected even when signals are entered to the projector.

Changing the keycode

Old Code	-	-	-	-
New Code	-	-	-	-
Reconfirm	-	-	-	-

- Press the 4 buttons on the remote control or on the projector to enter the preset keycode in "Old Code".
- **2** Press the 4 buttons on the remote control or on the projector to enter the new keycode in "New Code".
- **3** Enter the same keycode in "Reconfirm".

When the system lock is set

If you have set the system lock, enter the keycode and follow the procedure below to release the system lock.

▼Input screen for keycode



📎 Note

- When System Lock is set, the keycode input screen appears after the power is turned on.
- If no keycode is entered, the image will not be displayed, even if the projector receives the input signal.
- **1** Press \square on the remote control or \bigcirc on the projector to turn on the projector.
- 2 When the keycode input screen appears, enter the right keycode to start projection.

🗞 Note

 System Lock function recognizes each button on the remote control or on the projector as an individual button, even if they share the same button name. If you set the keycode with the buttons on the projector, use only those buttons on the projector. If you set the keycode with the buttons on the remote control, use only those buttons on the remote control.

Helpful Functions Set during Installation ("Options (2)" menu)

Setting a Password

- There is no factory preset for the password, so the "Options (2)" menu is enabled.
- If you do not want others to operate the "Options (2)" menu, set a password.

Example: "Options (2)" screen menu

Menu operation Page 58

🍪 Options			
G Password	→	Old Password	
💍 Lamp Timer (Life)		New Password	
💍 Lamp Mode	⇒ Öö:	Reconfirm	
PRJ Mode	⇒□		
🔚 Stack Setting	→ 🗆		
Pair Stack	00		
🛱 Keylock Level	→ 🖰		
net Inputs	+		
🛞 Fan Mode	⇒⊗		
Direct Power On 🔘 🗇	⇒◯		
1000 RS-232C → 11520	DO bps		
🖸 Monitor Out	→ 🔘		
LAN/RS232C	⇒ °_0		
🖥 Network	+		
🕞 Service Mode	→		
All Reset	C		

- **1** Select "Password" from the "Options (2)" menu, and press ▶.
- Press ▲ or ▼ to set the first digit in "New Password" and then press ▶.
- **3** Enter the remaining 3 digits and press .
- Enter the same password in "Reconfirm" and press .

📘 Info

• The password must be entered to use the "Options (2)" menu when a password has been set.

Changing the password

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

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

Note 📎

• If you do not want to set a password, leave the fields blank in steps 2 and 3 and press (...).

• To cancel the password settings, press

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

 $Press \stackrel{\alpha}{\mathbb{O}} \rightarrow \stackrel{\alpha}{\mathbb{O} \rightarrow \stackrel{\alpha}{\mathbb{O}} \rightarrow \stackrel{\alpha}{\mathbb{O}} \rightarrow \stackrel{\alpha}{\mathbb{O} \rightarrow \stackrel{\alpha}{\mathbb{O}} \rightarrow \stackrel{\alpha}{\mathbb{O}} \rightarrow \stackrel{\alpha}{\mathbb{O} \rightarrow \stackrel{\alpha}{\mathbb{O}} \rightarrow \stackrel{\alpha}{\mathbb{O} \rightarrow \stackrel{\alpha}{\mathbb{O}} \rightarrow \stackrel{\alpha}{\mathbb{O} \rightarrow \stackrel{\alpha}{\mathbb{O}} \rightarrow \stackrel{\alpha}{\mathbb{O} \rightarrow \stackrel{\alpha}{\mathbb{O} \rightarrow \stackrel{\alpha}{\mathbb{O}} \rightarrow \stackrel{\alpha}{\mathbb{O} \rightarrow \stackrel{\alpha}{\mathbb{O}$

Checking the Lamp Life Status

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

Menu operation Page 56

Example: "Options (2)" screen menu Options 圮 Password → Ö 5h (99%) Lamp 1 🖧 Lamp Timer (Life) Lamp 2 Ö 5h (99%) ⇒ 05 🖧 Lamp Mode PRJ Mode ⇒□ 🗄 Stack Setting → 🗆 9 → 🖰 🛱 Keylock Level 🏖 Set Inputs → → 🛞 🛞 Fan Mode Direct Power On 🔘 ⇔ INCOM RS-232C → 115200 bps O Monitor Out → ○ → 🔓 🖫 LAN/RS232C Network → 📻 Service Mode ⇒ All Reset ©

Description of Lamp Timer (Life)

	Remaining lamp life		
Lamp usage condition	100%	5%	
Operated exclusively while "Eco Mode" is "ON".	Approx. 2,500 hours*	Approx. 125 hours*	
Operated exclusively while "Eco Mode" is "OFF".	Approx. 2,000 hours*	Approx. 100 hours*	

* This is a reference value and is not guaranteed.

🗞 Note

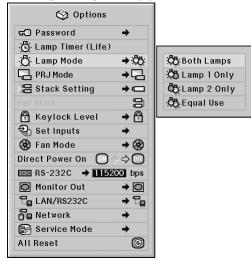
- It is recommended that the lamp be changed when the remaining lamp life becomes 5%.
- The table above indicates rough estimates in the case of using only in each mode shown.
- The lamp life may vary depending on the usage condition.

Setting the Lamp Mode

This function allows you to select the usage of the two lamps installed in the projector.

Menu operation Page 58

Example: "Options (2)" screen menu



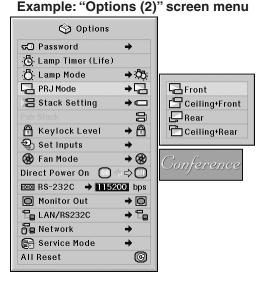
Description of Lamp Mode

Selectable items	Description
Both Lamps	Both lamps are used for greater
	brightness.
Lamp 1 Only	The lamp 1 is used.
	When the lamp 1 burns out, the lamp 2
	automatically switches in use.
Lamp 2 Only	The lamp 2 is used.
	When the lamp 2 burns out, the lamp 1
	automatically switches in use.
Equal Use	Both lamps are used alternately for
	certain periods.

Reversing/Inverting Projected Images

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

Menu operation Page 58



Description of PRJ Modes

Selectable items	Description
Front	Normal image
Ceiling + Front	Inverted image
Rear	Reversed image
Ceiling + Rear	Reversed and inverted image

🗞 Note

• This function is used for the reversed image and ceiling-mount setups. (See page 23.)

Controlling Multiple Projectors with the One Remote Control

This function allows you to control multiple projectors with the one remote control during the stack projection or the video wall projection. When using this function, connect the projectors with LAN cables and assign a projector as the master and the other projectors as the slaves. See page 35 for connecting LAN cables.

Menu operation Page 58

Example: "Options (2)" screen menu

🍪 Options		
G Password	+	
🔁 Lamp Timer (Life)		
👸 Lamp Mode	⇒ Öö	
PRJ Mode	⇒□	
🔚 Stack Setting	⇒ 🚥	🗖 Normal
Pair Stack	00	n Master
🛱 Keylock Level	⇒ 🖰	🔚 Slave
🥹 Set Inputs	→	
🛞 Fan Mode	⇒ 🛞	
Direct Power On 🔘	⇐⇒ः	
1001 RS-232C → 1152	200 bps	
🔘 Monitor Out	→ 🔘	
LAN/RS232C	÷₽	
🔂 Network	→	
🕞 Service Mode	→	
All Reset	C	

Description of Stack Setting

Selectable items	Description
Normal	The stack setting is not available.
Master	Set the projector as the master.
Slave	Set the projector as the slave.

🗞 Note

- When controlling multiple projectors with the one remote control, settings via web browser are required. Refer to the "SETUP MANUAL" contained on the supplied CD-ROM for details.
- Only when controlling two projectors with the one remote control, using "Pair Stack" allows you to skip settings via web browser. (See page **85**.)
- When "Slave" is selected on "Stack Setting", the slave projector cannot be controlled with the remote control. To control the slave projector with the remote control, connect the remote control to the projector. (See page 18.)

Shortcut to Make Projector Stack Settings

Normally, settings via web browser are required for the stack projection. You can skip the settings via web browser by using "Pair Stack", only when you use the two projectors for the stack projection.

Menu operation Page 56



• Before setting "Pair Stack", select "Master" or "Slave" on "Stack Setting".

Example: "Options (2)" screen menu



Select "Pair Stack" on the "Option

(2)" menu, and then press 💮 .

• The confirmation screen will be displayed.

2 Select "OK", and then press 💮 .

• The network settings of the projector will change as shown below.

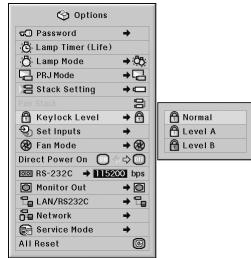
\sim				
	Master	Slave		
IP Address	192.168.150.2	192.168.150.3		
Subnet Mask	255.255.255.0	255.255.255.0		
DHCP Client	OFF	OFF		
Gateway	0.0.0.0	0.0.0.0		
User Name	(Reset)	(Reset)		
Password	(Reset)	(Reset)		
Data Port	10002	10002		
Download from Www Somanual				

Locking the Operation Buttons on the Projector

This function can be used to lock the use of certain operation buttons on the projector.

Menu operation Page 58

Example: "Options (2)" screen menu



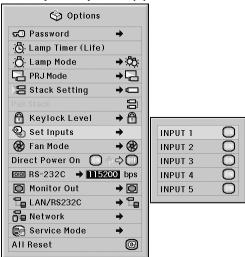
Description of Keylock Level

Selectable items	Description					
🔒 Normal	All operation buttons are functional.					
🔒 Level A	Only INPUT/VOLUME buttons on the					
	projector are available.					
🔒 Level B	All operation buttons on the projector					
	are unavailable.					

Bypassing Unused Input Selections

This function allows you to skip the input mode that you rarely use. You can skip the input modes when pressing INPUT 1, 2, 3 button or INPUT 4, 5 button on the projector.

Menu operation Page 58



Example: "Options (2)" screen menu

Description of Set Inputs

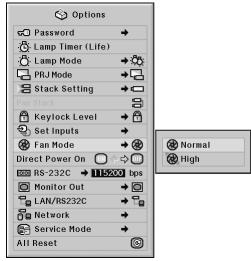
Selectable items		Description					
	ON	Sets the INPUT 1–5 mode selectable					
INPUT 1-5		respectively.					
	OFF	Sets the INPUT 1–5 mode unavail-					
	OFF	able respectively.					

Selecting the Fan Mode

This function changes the fan rotation speed.

Menu operation Page 58

Example: "Options (2)" screen menu



Description of Fan Mode

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

🗞 Note

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

Direct Power On Function

Menu operation 🌩 Page 56

Example: "Options (2)" screen menu



Description of Direct Power On

Selectable items	Description
ON	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 is turned on manually (see page 37), and does not turn on automatically when the power cord is plugged into the AC outlet or the breaker switch is turned on.

Selecting the Transmission Speed (RS-232C)

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

Menu operation Page 58

Example: "Options (2)" screen menu

🍪 Options			
圮 Password	+		
🔆 Lamp Timer (Life)		
💍 Lamp Mode	⇒ Ö5		
PRJ Mode	⇒□		
泪 Stack Setting	⇒ 📼		
	3		
🛱 Keylock Level	→ 🖰		
ञ्चे Set Inputs	+		
🛞 Fan Mode	⇒⊗		
Direct Power On 🔲	⇐⇒◯		
1000 RS-232C → 115	200 bps	9600	bps
Monitor Out	→ 🔘	38400	bps
LAN/RS232C	÷₽	115200	bps
🔂 Network	→		
🕞 Service Mode	→		
All Reset	C		

Description of RS-232C

Selectable items	Description
9600 bps	Transmission speed is slow.
38400 bps	\$
115200 bps	Transmission speed is rapid.

Note 🔊

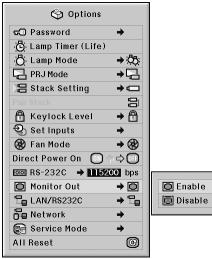
- Refer to the "SETUP MANUAL" contained on the supplied CD-ROM for RS-232C Specifications and Command Settings.
- Refer to the computer's operation manual for instructions for setting the computer's baud rate.

Monitor Output Settings

When the Monitor Out has been set to "Enable", the monitor output is activated and power is consumed even in the standby mode. It is recommended that the Monitor Out be set to "Disable" when it is not connected. This reduces power consumption when the projector is in the standby mode.

Menu operation Page 58

Example: "Options (2)" screen menu



Description of Monitor Out

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

LAN/RS232C Setting

When the LAN/RS232C has been set to "Enable", the LAN/RS232C is activated and power is consumed even in the standby mode. It is recommended that the LAN/RS232C be set to "Disable" when it is not connected. This reduces power consumption when the projector is in the standby mode.

Menu operation Page 58

Example: "Options (2)" screen menu

🇳 Options		
圮 Password	→	
🙆 Lamp Timer (Life)		
👸 Lamp Mode	⇒ Öö	
PRJ Mode	⇒□	
泪 Stack Setting	→ 🚥	
	00	
🛱 Keylock Level	→ 🛱	
🥹 Set Inputs	→	
🛞 Fan Mode	→ 🛞	
Direct Power On 🔲	⇐⇔ः	
10101 RS-232C → 1152	200 bps	
Monitor Out	→ 🖸	
LAN/RS232C	⇒ ⊑	Enable
🖥 Network	→	∑∎Disable
🕞 Service Mode	→	
All Reset	©	

Description of LAN/RS232C

Selectable items	Description
Enable	The LAN/RS232C function is activated
	even if the projector is in standby mode.
Disable	The LAN/RS232C function is switched off
Disable	when the projector is in standby mode.

🗞 Note

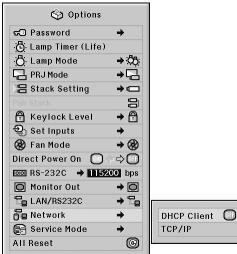
- When you want to control the projector using the LAN/RS232C function, select "Enable."
- The item "LAN/RS232C" will be made unavailable for setting when "Master" or "Slave" is selected on "Stack Setting". ("LAN/RS232C" will be set to "Enable" automatically.) (See page 84.)

DHCP Client Setting

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

Menu operation Page 58

Example: "Options (2)" screen menu



Description of DHCP Client

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

🗞 Note

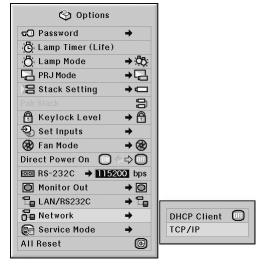
- Select "ON" for "DHCP Client". "Obtaining IP Address..." appears, then the message "The network settings have been changed.", IP Address, Subnet Mask and Gateway will be displayed.
- If the DHCP server is not available, "Could not obtain IP Address." appears.
 In this case, set the TCP/IP manually. (See "TCP/IP Setting" at right.)

TCP/IP Setting

Set the TCP/IP manually.

Menu operation Page 58

Example: "Options (2)" screen menu



- **1** Select "TCP/IP", then press 💮.
- 2 Enter "IP Address" using ▲, ▼, ▶ and ◀, then press ⊕.

TCP/IP												
IP Address	1	9	2	. 1	6	8	. 1	5	0	. 0	0	2
Subnet Mask	2	5	5	. 2	5	5	. 2	5	5	<u>,</u> 0	0	0
Gateway	0	0	0	. 0	0	0	. 0	0	0	. 0	0	0

Enter "Subnet Mask" using ▲, ▼, and ◀, then press ⊕.

4

Enter "Gateway" using \blacktriangle , \bigtriangledown , \blacktriangleright and \triangleleft , then press .

Description of TCP/IP

Selectable items	Description							
IP Address	Factory default setting:							
	192.168.150.002							
	Enter an IP address appropriate for the							
	network.							
Subnet Mask	Factory default setting:							
	255.255.255.000							
	Set the subnet mask to the same as that							
	of the computer and equipment on the							
	network.							
Gateway	Factory default setting:							
	000.000.000.000							
	* When not in use, set to:							
	"000. 000. 000. 000".							

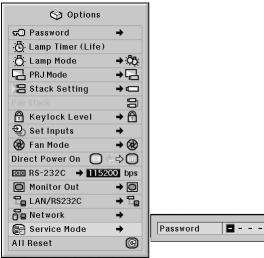
🗞 Note

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

Service Mode

Only the service centers use the menu. Do not use the menu.

Example: "Options (2)" screen menu

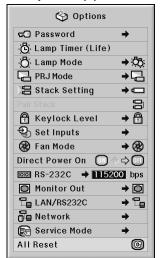


Returning to the Default Settings

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

Menu operation Page 56

Example: "Options (2)" screen menu



🗞 Note

About the network settings

• "IP Address", "Subnet Mask", "Gateway" and other network setting items are initialized.

The following items or menu cannot be initialized.

- "C. M. S." menu "Lightness", "Chroma" and "Hue" respectively saved for Custom 1-3 on the "C.M.S." menu.
- "Fine Sync" menu Special Modes
- "Options (1)" menu System Lock
- "Options (2)" menu Lamp Timer (Life)
- "Language" menu
- · Image stored using "Image Capture"

Selecting the On-screen Display Language

The projector can switch the on-screen display language among 11 languages: English, German, Spanish, Dutch, French, Italian, Swedish, Portuguese, Chinese, Korean or Japanese.

Menu operation Page 58

Example: "Language" screen menu

🗩 Language
English
Deutsch
Español
Nederlands
Français
Italiano
Svenska
Português
汉语
한국어
日本語

Overview of All Menu Settings

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

Menu operation Page 56

Example: "Status" screen menu

🔲 Picture / 🕻	🕼 Audio	😔 🛛 Fine Sync	🍪 🍪 Options	/ Other	
88 ¢○ Picture Mode	38 7500 CLR Temp	O O Clock		Oh (100%) Lamp 1	RS-232C
O 0 Contrast		Phase 0	Digi. Shift	Oh (100%) Lamp 2	Projector
O O Bright	⊕ ⇔O C.M.S. Adjustment			¦Ö: ⇒≎Ö: Lamp Mode	O ← ⇔O DHCP Client
Color 0	Ø ⇔ DNR	O O V-Pos	B ⇔ Background	PRJ Mode ⇔	192.168.150.2 IP Address
O 0 Tint		Select Setting		Stack Setting	255.255.255.0 Subnet Mask
Sharp	K∭ 0 Balance	Special Modes	 EcoMode	Reylock Level	0.0.0.0 Gateway
Red 0	1 0	❷ ⇒⊠		1,2,3,4,5	
O O Green	Bass	auto Sync Disp	Auto Power Off	⊗ ⇔⊗ Fan Mode	1.00 Firmware1
O O Blue	द्ध⇔ ⇔द्धि Audio Out		O (⇒) Direct Power On		1.00 Firmware2
	C ⇔ D Speaker			LAN/RS232C	Serial Number

Maintenance

Cleaning the projector

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

Do not attach rubber or plastic items to the projector for long periods.

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



- Wipe off dirt gently with a soft flannel cloth.
- When the dirt is hard to remove, soak a cloth in a mild detergent diluted with water, wring the cloth well and then wipe the projector.

Strong cleaning detergents may discolor, warp or damage the coating on the projector. Make sure to test on a small, inconspicuous area on the projector before use.

Cleaning the lens

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

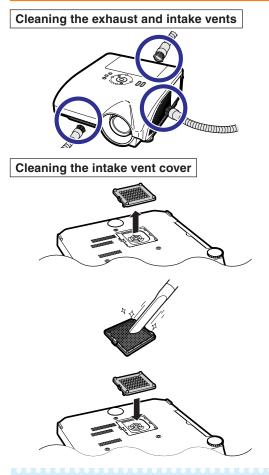


Cleaning the air vents and the intake vent cover

Use a vacuum cleaner to clean dust from the exhaust vent, the intake vents and the intake vent cover (on the bottom of the projector).

🛄 Info

• If you want to clean the air vents and the intake vent cover during projector operation, ensure you press on the projector or of on the remote control and put the projector into standby mode. After the cooling fan has stopped, unplug the power cord from the AC socket and clean the air vents and the intake vent cover.

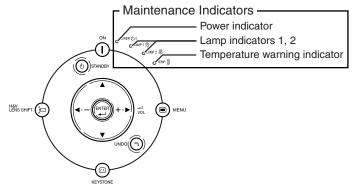


Note

- The air vents and the intake vent cover should be cleaned every 100 hours of use. Clean the air vents and the intake vent cover more often when the projector is used in a dusty or smoky location.
- Ensure the intake vent cover is securely installed. The power will not turn on unless it is correctly installed.

Maintenance Indicators

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



About the temperature warning indicator



If the temperature inside the projector increases, due to blockage of the air vents, or the setting location, "TEMP." will illuminate in the lower left corner of the picture. If the temperature keeps on rising, the lamp will turn off and the temperature warning indicator will blink, the cooling fan will run for a further 90 seconds, and then the projector will enter the standby mode. After "TEMP." appears, ensure you perform the measures described on page 95.

About the lamp indicator

Change The Lamp. (LAMP 1)

"Change The Lamp. (LAMP 2)" is displayed when the remaining life of the lamp 2 becomes 5% or less.

- When the remaining lamp life becomes 5% or less, "We (yellow) and "Change The Lamp. (LAMP 1/2)" will be displayed on the screen.
- When the percentage becomes 0%, it will change to " (red), the lamp will automatically turn off. 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 lamp whose life is 0% will not light up.

Maint	enance indicat	or	Problem	Cause	Possible solution						
Normal		Abnormal	Fibbletti Cause								
Temperature warning indicator				Blocked air intake	• Relocate the projector to an area with proper ventilation. (See page 9.)						
	Off	Red on (Standby)	emperature is abnormally high. blogged air intake clogged intake vent clogged intake vent		 Take the projector to your nearest Sharp Authorized Projector Dealer or Service Center for repair. (See page 104.) Clean the air vents and the intake vent cover. (See page 93.) 						
	Ip tors Green on Green blinks when the lamp is warming up. Red on not illuminate. dov Red on Time to change the lamp. • Ref bec Red on Time to change the lamp. • Ref bec	Green blinks when the lamp								• The lamp is shut down abnormally.	• Disconnect the power cord from the AC outlet, and then connect it again.
Lamp indicators 1, 2			Red on	0	Remaining lamp life becomes 5% or less.	 Carefully replace the lamp. (See page 97.) Take the projector to your nearest Sharp Authorized Projector Dealer 					
		Burnt-out lamp Lamp circuit failure	or Service Center for repair. (See page 104.) • Please exercise care when replacing the lamp.								
Power indicator	Green on/ Red on	Red blinks	The power indicator blinks in red when the projector is on.	The intake vent cover is open.	 Securely install the cover. If the power indicator blinks even when the intake vent cover is securely installed, contact your nearest Sharp Authorized Projector Dealer or Service Center for advice. (See page 104.) 						

🛄 Info

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

Regarding the Lamp

Lamp

- It is recommended that the lamp units (optional: AN-PH7LP1 and AN-PH7LP2) 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 83.
 Purchase a replacement lamp unit of type AN-PH7LP1 and AN-PH7LP2 from your place of purchase,
- nearest Sharp Authorized Projector Dealer or Service Center.

IMPORTANT NOTE TO U.S. CUSTOMERS:

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

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

U.S.A. ONLY

Caution Concerning the Lamp

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

Replacing the Lamp

Caution

- Do not remove the lamp unit from the projector right after use. The lamp will be very hot and may cause burn or injury.
- Wait at least one hour after the power cord is disconnected to allow the surface of the lamp unit to fully cool before removing the lamp unit.
- Carefully change the lamp by following the instructions described in this section. *If you wish, you may have the lamp replaced at your nearest Sharp Authorized Projector Dealer or Service Center.
- * If the new lamp does not illuminate after replacement, take your projector to the nearest Sharp Authorized Projector Dealer or Service Center for repair.

Removing and Installing the Lamp Unit

Info

- Ensure the lamp unit is removed using the handle. Ensure the glass surface of the lamp unit or the inside of the projector are not touched.
- 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.

(Only the silver screws are loosened.)

- 1 Press (()) STANDBY on the projector or on the remote control to put the projector into standby mode.
 - Wait until the cooling fan stops.

Warning!

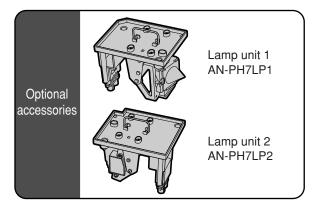
• Do not remove the lamp unit from the projector right after use. The lamp and parts around the lamp will be very hot and may cause burn or injury.

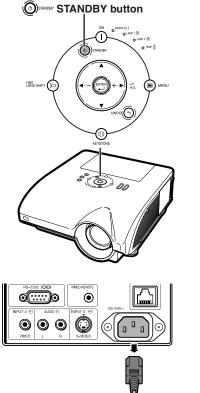
2 Disconnect the power cord.

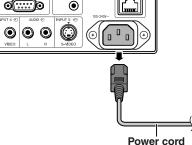
- Unplug the power cord from the AC socket.
- · Leave the lamp until it has fully cooled down (about 1 hour).

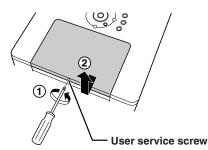
3 Remove the lamp unit cover.

• Loosen the user service screw (1) that secures the lamp unit cover. Remove the lamp unit cover (2).









Regarding the Lamp

4 Remove the lamp unit. · Loosen the securing screws (two for each lamp) from the lamp unit. Hold the lamp unit by the handle and pull it in the direction of the arrow. At this time, keep the lamp unit horizontal and do not tilt it. 5

Insert the new lamp unit.

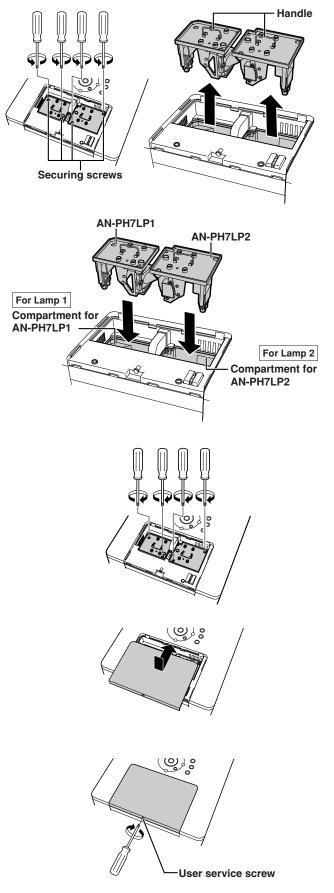
- · Press the lamp unit firmly into the lamp unit compartment. Fasten the securing screws.
- •Be sure that AN-PH7LP1 and AN-PH7LP2 are respective type.

6 Replace the lamp unit cover.

· Align the lamp unit cover and slide it to close. Then tighten the user service screw to secure the lamp unit cover.

lnfo

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



Resetting the Lamp Timer

Reset the lamp timer after replacing the lamp.

📕 Info

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

1

2

Connect the power cord.

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

Reset the lamp timer.

For Lamp 1

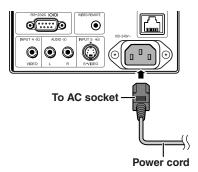
- When you reset the timer for AN-PH7LP1, while simultaneously holding
- down \bowtie and \bigoplus , press \bigoplus on the projector.
- "LAMP 1 100%" is displayed, indicating that the lamp timer is reset.

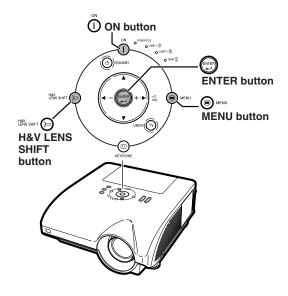
For Lamp 2

• When you reset the timer for AN-PH7LP2, while simultaneously holding

down o were and o, press o on the projector.

• "LAMP 2 100%" is displayed, indicating that the lamp timer is reset.





Computer Compatibility Chart

The table below lists signal codes that are compatible with the projector. When the images are distorted or cannot be projected, adjust the output signal of your computer and so forth while referring to the table below.

Computer

 Multiple signal support Horizontal Frequency: 15–126 kHz Vertical Frequency: 43–200 Hz Pixel Clock: 12–230 MHz Sync signal: Compatible with TTL level

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

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

PC/ MAC/ WS	R	esolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	VESA Standard	DVI Support	Display	PC/ MAC/ WS	R	esolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	VESA Standard	DVI Support	Display															
			27.0	60						1,280×720	45.0	60	~	~																
		640×350	31.5	70						$1,280 \times 768$	47.8	60	~	~																
			37.9	85	<					1,280 × 800	62.7	75																		
		720 × 350	27.0	60						$1,360 \times 768$	47.6	60	~		7															
			31.5	70						$1,366 \times 768$	47.8	60																		
		640 × 400 720 × 400	27.0	60		~					54.3	60		~																
			31.5	70		~					64.0	70																		
			37.9	85	~	~					64.1	72																		
			27.0	60		~				1,152×864	67.5	75	~	~																
			31.5	70		~					75.7	80																		
			37.9	85	~	~					77.3	85																		
	VGA		26.2	50							90.2	100			Advanced Intelligent															
	10.71		31.5	60		~			SXGA		54.8	60			Compression															
			34.7	70				PC	0/10/1	1,152×882	65.9	72																		
			37.9	72	~	~					67.4	74																		
			37.5	75	~	~					64.0	60	~	~																
		640×480	43.3	85	~	~					74.6	70																		
		040 × 400	47.9	90			Upscale			1 000	78.1	74																		
			53.0	100			opsoulo		1,280×1,024	80.0	75	 ✓ 																		
			61.8	120							91.1	85	~																	
			78.5	150			-				108.4	100																		
			80.9	160					SXGA+	1,400×1,050	64.0	60	~	~																
			100.4	200						74.7	52																			
PC			31.4	50							75.0	60	~																	
			35.1	56	~	~					81.3	65	~																	
			37.9	60	~	~			_				UXGA	1,600×1,200	87.5	70	~													
			44.5	70									90.1	72			Intelligent Compression													
			48.1	72	~	~					93.8	75	~		Compression															
			46.9	75	~	~					106.3	85	~																	
	SVGA	800 imes 600	53.7	85	~	~	~			~	~						~	MAC 13"	VGA	640×480	34.9	67			Upscale					
			56.8	90																MA			MAC 16"	SVGA	832×624	49.6	75			Opscale
			64.0	100																				MAC 19"	XGA 1 024 V 768	48.4	60			True
			77.2	120																			1,024 × 766	60.0	75			illue		
			98.3	150				MAC 21"	SXGA	1,152×870	68.5	75																		
			102.1	160				HP (WS)		1,280×1,024	78.1	72			Advanced															
			125.6	200				PC (WS)		1,280 × 960	60.0	60	~		Intelligent															
			35.5	43		~			WS	SXGA		85.9	85			Compression														
			40.3	50				SUN (WS)		$1,152 \times 900$	60.9	66																		
			48.4	60	~	~		. ,			71.9	76																		
			56.5	70	~	~																								
			58.1	72																										
	XGA	1,024 × 768	60.0	75	~	~	True																							
		,	68.7	85	~	~																								
			73.5	90	4																									
			77.2	96	4																									
			80.6	100	ļ																									
			98.8	120	ļ																									
			113.2	140																										

Note 📎

- Depending on the notebook computer, the image cannot be displayed or noise may appear in simultaneous (CRT/LCD) mode. In this case, turn off the LCD display on the notebook computer. For more details, refer to the operation manual of the notebook computer.
- When this projector receives 640×350 VESA format VGA signals, " 640×400 " appears on the screen.
- When projecting the RGB interlace signal using INPUT 1/2 with "Signal Type" set to "Auto" or "RGB", the image may not be projected as desired. In this case, select either INPUT 4 (video) or INPUT 5 (S-video).

DTV

Signal	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	DVI Support (Compatible with HDCP)
480I/525I	15.7	60	
480P/525P	31.5	60	✓
540P	33.8	60	
576I/625I	15.6	50	
576P/625P	31.3	50	
720P/750P	45.0	60	✓
720P/750P	37.5	50	✓
1035I/1125I	33.8	60	✓
1080I/1125I	33.8	60	✓
1080I/1125I	28.1	50	 Image: A start of the start of

Troubleshooting

Projector power cord is not plugged into the wall outlet.	37
Power to the external connected devices is off.	—
The selected input mode is wrong.	45
Cables incorrectly connected to side panel of the projector.	27–36
No picture and no sound • Remote control batteries have run out.	17
or projector does not start. • External output has not been set when connecting notebook computer.	27
Cables incorrectly connected to the side panel of the projector.	27–36
	60
The "BLACK SCREEN" function is working.	50
Sound is heard but no picture appears.	
picture appears.	
Image adjustments are incorrectly set.	60
(INPUT 1, INPUT 2, INPUT 3 only)	
Input signal type (RGB/Component) is incorrectly set.	63
 (INPUT 4, INPUT 5 only) Video Input system is incorrectly set. 	76
Color is faded or poor.	70
	40
Adjust the focus.	22
The projection distance exceeds the focus range. There is fag on the long. If the projector is corried from a cold	22
• There is fog on the lens. If the projector is carried from a cold room into a warm room, or if it is suddenly heated,	_
condensation may form on the surface of the lens and the	
image will become blurred. Please set up the projector at least	
one hour before it is to be used. If condensation should form, remove the power cord from the wall outlet and wait for it to	
clear.	
Picture is blurred; (Computer Input only)	
noise appears • Perform "Fine Sync" Adjustments. ("Clock" Adjustment)	68
Perform "Fine Sync" Adjustments. ("Phase" Adjustment)	68
Turn off the LCD display of the notebook computer.	101
Noise may appear depending on the computer.	_
Cables incorrectly connected to side panel of the projector.	27–36
Volume is set to minimum.	46
The "MUTE" function is working.	46
• The "Speaker" menu is set to "OFF".	73
Picture appears but no sound is heard.	
An unusual sound is • If the picture is normal, the sound is due to cabinet shrinkage	
occasionally heard caused by room temperature changes. This will not affect	
from the cabinet. operation or performance. Maintenance • See "Maintenance Indicators".	04
Maintenance • See "Maintenance Indicators".	94
blinks in red.	

Problem	Check	Page
The projector cannot be turned on or put into the standby mode using the ON or STANDBY button on the projector.	 If the "Keylock Level" menu is set to "Level A" or "Level B", all or specific buttons on the projector are unavailable. Use the remote control to operate the projector. 	85
All buttons on the projector and the remote control are unavailable.	• If the "Stack Setting" menu is set to "Slave" and the "Keylock Level" menu is set to "Level B", all buttons on the projector and the remote control are unavailable. Connect the remote control to the projector, and then use the remote control to operate the projector.	18 84 85
Picture is green on INPUT 1or 2 (COMPONENT).	Change the input signal type setting.	63
Picture is pink (no green) on INPUT 1, 2 or 3 (RGB).		
Picture is too bright and whitish.	 Image adjustments are incorrectly set. 	60
The cooling fan becomes noisy.	 When temperature inside the projector increases, the cooling fan runs faster. 	9, 10 93 <i>—</i> 95
The lamp does not light up even after the projector turns on.	The lamp indicator is illuminating in red. Replace the lamp.	94
The lamp suddenly turns off during projection.		
The image sometimes flickers.	 Cables incorrectly connected to the projector or the connected equipment works improperly. If this happens frequently, replace the lamp. 	27–36 97
The lamps take a long time to turn on. Picture is dark.	• The lamps will eventually need to be changed. The lamps have reached the end of its life. Replace the lamps.	97
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 light is shining on the projector's remote control sensor, place the projector where it will not be affected by strong light. 	17
	• The batteries may be depleted or inserted incorrectly. Make sure the batteries are inserted correctly or insert new ones.	17

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

For SHARP Assistance

If you encounter any problems during setup or operation of this projector, first refer to the "Troubleshooting" section on pages 102 and 103. If this operation manual does not answer your question, please contact the SHARP Service departments listed below.

Sharp Electronics Corporation 1-888-GO-SHARP (1-888-467-4277) lcdsupport@sharpsec.com http://www.sharplcd.com	Benelux	SHARP Electronics Benelux BV 0900-SHARPCE (0900-7427723) Nederland 9900-0159 Belgium http://www.sharp.nl
Sharp Electronics of Canada Ltd. (905) 568-7140 http://www.sharp.ca		http://www.sharp.be http://www.sharp.lu
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
Sharp Electronics Corp. Latin American Group (305) 264-2277	New Zealand	Sharp Corporation of New Zealand (09) 634-2059, (09) 636-6972 http://www.sharp.net.nz
www.servicio@sharpsec.com http://www.siempresharp.com	Singapore	Sharp-Roxy Sales (S) Pte. Ltd. 65-226-6556 ckng@srs.global.sharp.co.jp
01805-234675 http://www.sharp.de	Hong Kong	http://www.sharp.com.sg Sharp-Roxy (HK) Ltd.
Sharp Electronics (U.K.) Ltd. 08705 274277 http://www.sharp.co.uk/customersupport		(852) 2410-2623 dcmktg@srh.global.sharp.co.jp http://www.sharp.com.hk
Sharp Electronics (Italy) S.P.A. (39) 02-89595-1	Taiwan	Sharp Corporation (Taiwan) 0800-025111 http://www.sharp-scot.com.tw
Sharp Electronics France	Malaysia	Sharp-Roxy Sales & Service Co. (60) 3-5125678
hotlineced@sef.sharp-eu.com http://www.sharp.fr	U.A.E.	Sharp Middle East Fze 971-4-81-5311 helpdesk@smef.global.sharp.co.jp
Sharp Electronica Espana, S.A. 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 http://www.sharp-th.com
Sharp Electronics (Schweiz) AG 0041 1 846 63 11 cattaneo@sez.sharp-eu.com http://www.sharp.ch	Korea	Sharp Electronics Incorporated of Korea (82) 2-3660-2002 Icd@sharp-korea.co.kr
Sharp Electronics (Nordic) AB (46) 8 6343600 vision.support@sen.sharp-eu.com	India	http://www.sharpkorea.co.kr Sharp Business Systems (India)
http://www.sharp.se Sharp Electronics (Europe) GMBH Branch Office Austria 0043 1 727 19 123 pogats@sea.sharp-eu.com		Limited (91) 11- 6431313 service@sharp-oa.com
	1-888-GO-SHARP (1-888-467-4277) Icdsupport@sharpsec.com http://www.sharplcd.com Sharp Electronics of Canada Ltd. (905) 568-7140 http://www.sharp.ca Sharp Electronics Corporation Mexico Branch (525) 716-9000 http://www.sharp.com.mx Sharp Electronics Corp. Latin American Group (305) 264-2277 www.servicio@sharpsec.com http://www.siempresharp.com Sharp Electronics (Europe) GMBH 01805-234675 http://www.sharp.de Sharp Electronics (U.K.) Ltd. 08705 274277 http://www.sharp.co.uk/customersupport Sharp Electronics (Italy) S.P.A. (39) 02-89595-1 http://www.sharp.it Sharp Electronics France 01 49 90 35 40 hotlineced@sef.sharp-eu.com http://www.sharp.fr Sharp Electronics (Schweiz) AG 0041 1 846 63 11 cattaneo@sez.sharp-eu.com http://www.sharp.ch Sharp Electronics (Nordic) AB (46) 8 6343600 vision.support@sen.sharp-eu.com http://www.sharp.se Sharp Electronics (Europe) GMBH Branch Office Austria 0043 1 727 19 123	1-888-GO-SHARP (1-888-467-4277) Icdsupport@sharpsec.com http://www.sharplcd.comAustraliaSharp Electronics of Canada Ltd. (905) 568-7140 http://www.sharp.caAustraliaSharp Electronics Corporation Mexico Branch (525) 716-9000 http://www.sharp.com.mxNew ZealandSharp Electronics Corp. Latin American Group (305) 264-2277 www.servicio@sharpsec.com http://www.siempresharp.comSingaporeSharp Electronics (Europe) GMBH 01805-234675 http://www.sharp.deHong KongSharp Electronics (Europe) GMBH 01805-234675 http://www.sharp.deHong KongSharp Electronics (U.K.) Ltd. 08705 274277 http://www.sharp.co.uk/customersupportTaiwanSharp Electronics (Italy) S.P.A. (39) 02-89595-1 http://www.sharp.itMalaysiaSharp Electronics France 01 49 90 35 40 hotlineced@sef.sharp-eu.com http://www.sharp.deU.A.E.Sharp Electronics Espana, S.A. 93 5819700 sharplcd@sees.sharp-eu.com http://www.sharp.chThailandSharp Electronics (Schweiz) AG (0041 1 846 63 11 cattaneo@sez.sharp-eu.com http://www.sharp.chKoreaSharp Electronics (Nordic) AB (46) 8 6343600 vision.support@sen.sharp-eu.com http://www.sharp.seIndiaSharp Electronics (Europe) GMBH Branch Office Austria 0043 1 727 19 123 0ogats@sea.sharp-eu.comIndia

Specifications

		Multimedia Projector
		XG-PH70X (standard zoom lens attached)/XG-PH70X-N (no lens attached) NTSC3.58/NTSC4.43/PAL/PAL-M/PAL-N/PAL-60/SECAM/
	Display device	DTV480I/DTV480P/DTV540P/DTV576I/DTV576P/DTV720P/DTV1035I/DTV1080I 0.7" DLP® chip × 1
		No. of dots: 786,432 dots (1,024 [H] × 768 [V])
	Standard zoom lens Projection lamp	1.2 × electric zoom/focus lens, F1.8–F2.0, f = 25.6–31.3 mm (standard equipment with XG-PH70X)
	Component input (INPUT 1)/	15-pin mini D-sub connector
	output (OUTPUT) signal	Y: 1.0 Vp-p, sync negative, 75 Ω terminated P _B : 0.7 Vp-p, 75 Ω terminated
		$P_B: 0.7 \text{ Vp-p}, 75 \Omega$ terminated $P_B: 0.7 \text{ Vp-p}, 75 \Omega$ terminated
		750 TV lines (DTV720P)
	Component input (INPUT 2) signal	Y: 1.0 Vp-p, sync negative, 75 Ω terminated
	- 3 - 4	P_{B} : 0.7 Vp-p, 75 Ω terminated
	BGB input (INPLIT 1/2)/output	P _R : 0.7 Vp-p, 75 Ω terminated 15-pin mini D-sub connector, 5 BNC connector: RGB separate/composite sync (TTL)/sync
	(OUTPUT) signal	on green type analog input: 0–0.7 Vp-p, positive, 75 Ω terminated
		Horizontal sync. signal: TTL level (positive/negative) or composite sync (Apple only) Vertical sync. signal: Same as above
F	RGB digital input signal (INPUT 3)	DVI connector (24-pin), RGB (digital), 250 –1,000 mV, 50 Ω (Compatible with HDCP)
	Video input signal	RCA connector: VIDEO, composite video, 1.0 Vp-p, sync negative, 75 Ω terminated
	S-video input signal	4-pin mini DIN connector
	(INPUT 5)	Y (luminance signal): 1.0 Vp-p, sync negative, 75 Ω terminated
	Audio input signal	C (chrominance signal): Burst 0.286 Vp-p, 75 Ω terminated ø3.5 mm stereo minijack, RCA terminal
	1 0	0.5 Vrms, more than 22 k Ω
	Audio output signal (AUDIO OUTPUT 1–5)	0.5 Vrms, less than 2.2 k Ω
	RS-232C terminal	9-pin D-sub connector
		8-pin RJ-45 modular connector 12–230 MHz
	Vertical frequency	43–200 Hz
	Horizontal frequency	15–126 kHz 3.0 W (stereo)
	Speaker system	3.3 cm round × 2
		AC 100–240 V 6.6 A (AC 100 V)–2.7 A (AC 240 V)
	Rated frequency	
	Power consumption	650 W (when "Eco Mode" is "OFF")/570 W (when "Eco Mode" is "ON") with AC 100 V 620 W (when "Eco Mode" is "OFF")/550 W (when "Eco Mode" is "ON") with AC 240 V
		0.8 W (AC 100 V) – 1.1 W (AC 240 V) (When "Monitor Out" and "LAN/RS232C" are set to "Disable".)
	Heat dissipation	2,440 BTU/hour (when "Eco Mode" is "OFF")/2,140 BTU/hour (when "Eco Mode" is "ON") with AC 100 V
		2,330 BTU/hour (when "Eco Mode" is "OFF")/2,070 BTU/hour (when "Eco Mode" is "ON")
	Operating tomporature	with AC 240 V 41°F to 104°F (+5°C to +40°C)
		-4° F to 140°F (-20° C to $+60^{\circ}$ C)
	Cabinet	
	I/R carrier frequency Dimensions (approx.)	38 KHZ 16 ⁵ /32" × 7 ³ /32" × 18 ³⁵ /64" (410 (W) × 180 (H) × 471 (D) mm) (main body only)
		16 ⁵ / ₃₂ " × 7 ³⁷ / ₆₄ " × 18 ³⁵ / ₆₄ " (410 (W) × 192.1 (H) × 471 (D) mm) (including adjustment foot
	Weight (approx.)	and projecting parts) XG-PH70X: 32.9 lbs. (14.9 kg)
	0 (11)	XG-PH70X-N: 30.3 lbs. (13.7 kg)
	Replacement parts	Remote control, Power cord for U.S., Canada, etc., Power cord for Europe, except U.K., Power cord for U.K., Hong Kong and Singapore, Power cord for Australia, New Zealand and
		Oceania, RGB cable, Remote mouse receiver, Cap for the standard zoom lens, Projector
		manual and technical reference CD-ROM, Operation manual

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.

Advanced intelligent compression (Page 100)

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

Aspect ratio (Page 48)

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

Auto Sync (Page 70)

Optimizes projected computer images by automatically adjusting certain characteristics.

Background (Page 77)

Initial setting image projected when no signal is being output.

Border (Page 48)

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

Clock (Page 68)

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

CLR Temp (Color temperature) (Page 61)

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

C.M.S. (Color Management System) (Page 64)

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

Dot by Dot (Page 48)

Mode that projects images in their native resolution.

Keylock Level (Page 85)

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

Keystone Correction (Page 41)

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

Phase (Page 68)

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

Pict in Pict (Page 74)

The Pict in Pict (picture in picture) function allows you to display two pictures on the same screen. You can display the image input from a video as an inset picture overlapping the main picture input from a computer.

Picture Mode (Page 60)

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

Progressive (Page 62)

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

Resize (Page 48)

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

Shifting the lens (Page 38)

Function to adjust the position of the projected image for the position of the screen by shifting the lens horizontally and vertically.

Smart Stretch (Page 49)

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

sRGB (Page 64)

An international standard of color reproduction regulated by the IEC (International Electrotechnical Commission). As the fixed color area has been decided by the IEC, the color changes according to DLP features, so that the images are displayed in a natural tint based on an original image, when "C.M.S. Adjustment" is set to "sRGB".

Stack Setting (Page 84)

Setting for the stack projection that allows you to increase the brightness of an image by stacking multiple projectors and projecting same image simultaneously. You can control projectors for the stack projection by assigning a projector as the master and the other projectors as the slaves.

Stretch (Page 48)

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

System Lock (Page 79)

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

Index

AC socket ADJ./MOUSE switch	37
Adjustment buttons	56
Adjustment feet	39
Advanced intelligent compression 1 All Reset	00
Aspect ratio	48
Audio	72
AUDIO input (1) terminal	27
AUDIO input (2, 3) terminal AUDIO input (4, 5) terminals	20 34
Audio Out	72
AUDIO OUTPUT terminal Auto Power Off	36
Auto Search	78
Auto Sync (Auto Sync adjustment)	70
AUTO SYNC button	70
Background BLACK SCREEN button	77
Border	48
BREAK TIMER button	50
Bright Boost	
C.M.S. (Color Management System)	64
C.M.S. Adjustment Carrying handle	64
Clock	68
CLR Temp (Color Temperature)	61
DHCP Client	89
Digi. Shift	75
Direct Power On DNR	
Dot By Dot	
Eco Mode	
ENLARGE buttons	46
ENLARGE buttons ENTER button	46 56
ENLARGE buttons ENTER button Exhaust vent	46 56 93
ENLARGE buttons ENTER button Exhaust vent Fan Mode	46 56 93 86
ENLARGE buttons ENTER button Exhaust vent Fan Mode Fine Sync	46 56 93 86 68
ENLARGE buttons ENTER button Exhaust vent Fan Mode	46 56 93 86 68 40
ENLARGE buttons ENTER button Exhaust vent Fan Mode Fine Sync FOCUS buttons FREEZE button	46 56 93 86 68 40 47
ENLARGE buttons ENTER button Exhaust vent Fan Mode Fine Sync FOCUS buttons	46 56 93 86 68 40 47 90
ENLARGE buttons ENTER button Exhaust vent Fan Mode Fine Sync FOCUS buttons FREEZE button Gateway Geometric adjustment H & V keystone	46 56 93 86 68 40 47 90 42 43
ENLARGE buttons ENTER button Exhaust vent Fan Mode Fine Sync FOCUS buttons FREEZE button Gateway Geometric adjustment	46 56 93 86 68 40 47 90 42 43
ENLARGE buttons ENTER button Exhaust vent Fan Mode Fine Sync FOCUS buttons FREEZE button Gateway Geometric adjustment H & V keystone H & V LENS SHIFT button Image Capture	46 56 93 86 68 40 47 90 42 43 39 76
ENLARGE buttons ENTER button Exhaust vent Fan Mode Fine Sync FOCUS buttons FREEZE button Gateway Geometric adjustment H & V keystone H & V LENS SHIFT button Image Capture Image resizing	46 56 93 86 68 40 47 90 42 43 39 76 44
ENLARGE buttons ENTER button Exhaust vent Fan Mode Fine Sync FOCUS buttons FREEZE button Gateway Geometric adjustment H & V keystone H & V LENS SHIFT button Image Capture Image resizing INPUT 1 – 5 modes	46 56 93 86 68 40 47 90 42 43 39 76 44 45
ENLARGE buttons ENTER button Exhaust vent Fan Mode Fine Sync FOCUS buttons FREEZE button Gateway Geometric adjustment H & V keystone H & V LENS SHIFT button Image Capture Image resizing	46 56 93 86 68 40 47 90 42 43 39 76 44 45 27
ENLARGE buttons ENTER button Exhaust vent Fan Mode Fine Sync FOCUS buttons FREEZE button Gateway Geometric adjustment H & V keystone H & V LENS SHIFT button Image Capture Image resizing INPUT 1 – 5 modes INPUT 1 terminal INPUT 2 terminals INPUT 3 terminal	46 56 93 86 68 40 47 90 42 43 39 76 44 45 27 28 29
ENLARGE buttons ENTER button Exhaust vent Fan Mode Fine Sync FOCUS buttons FREEZE button Gateway Geometric adjustment H & V keystone H & V LENS SHIFT button Image Capture Image resizing INPUT 1 – 5 modes INPUT 1 terminal INPUT 3 terminal INPUT 4 terminal	46 56 93 86 68 40 47 90 42 43 39 76 44 45 27 28 34
ENLARGE buttons ENTER button Exhaust vent Fan Mode Fine Sync FOCUS buttons FREEZE button Gateway Geometric adjustment H & V keystone H & V LENS SHIFT button Image Capture Image resizing INPUT 1 – 5 modes INPUT 1 terminal INPUT 2 terminals INPUT 3 terminal	46 56 93 86 68 40 47 90 42 43 39 76 44 45 27 28 34 34
ENLARGE buttons ENTER button Exhaust vent Fan Mode Fine Sync FOCUS buttons FREEZE button Gateway Geometric adjustment H & V keystone H & V LENS SHIFT button Image Capture Image resizing INPUT 1 – 5 modes INPUT 1 terminal INPUT 2 terminals INPUT 3 terminal INPUT 5 terminal INPUT 5 terminal INPUT buttons Intake vent	46 56 93 86 68 40 47 90 42 43 90 42 43 39 76 44 527 28 93 44 593
ENLARGE buttons ENTER button Exhaust vent Fan Mode Fine Sync FOCUS buttons FREEZE button Gateway Geometric adjustment H & V keystone H & V LENS SHIFT button Image Capture Image resizing INPUT 1 – 5 modes INPUT 1 terminal INPUT 2 terminals INPUT 3 terminal INPUT 4 terminal INPUT 5 terminal INPUT 5 terminal INPUT buttons Intake vent IP Address	46 56 93 86 68 40 47 90 42 43 39 76 445 27 28 29 34 45 93 90
ENLARGE buttons ENTER button Exhaust vent Fan Mode Fine Sync FOCUS buttons FREEZE button Gateway Geometric adjustment H & V keystone H & V LENS SHIFT button Image Capture Image resizing INPUT 1 – 5 modes INPUT 1 terminal INPUT 2 terminals INPUT 3 terminal INPUT 4 terminal INPUT 5 terminal INPUT 5 terminal INPUT 5 terminal INPUT buttons Intake vent IP Address Kensington Security Standard connector	46 56 93 86 68 40 47 90 42 43 39 76 445 27 28 29 34 45 90 15
ENLARGE buttons ENTER button Exhaust vent Fan Mode Fine Sync FOCUS buttons FREEZE button Gateway Geometric adjustment H & V keystone H & V LENS SHIFT button Image Capture Image resizing INPUT 1 – 5 modes INPUT 1 terminal INPUT 2 terminals INPUT 3 terminal INPUT 4 terminal INPUT 5 terminal INPUT 5 terminal INPUT 5 terminal INPUT buttons Intake vent IP Address Kensington Security Standard connector Keycode	46 56 93 86 68 40 47 90 42 43 97 64 45 27 82 93 44 59 90 15 79
ENLARGE buttons ENTER button Exhaust vent Fan Mode Fine Sync FOCUS buttons FREEZE button Gateway Geometric adjustment H & V keystone H & V LENS SHIFT button Image Capture Image resizing INPUT 1 – 5 modes INPUT 1 terminal INPUT 2 terminals INPUT 3 terminal INPUT 3 terminal INPUT 4 terminal INPUT 5 t	46 56 93 86 86 40 47 90 42 39 76 445 228 334 453 90 15 78 541
ENLARGE buttons ENTER button Exhaust vent Fan Mode Fine Sync FOCUS buttons FREEZE button Gateway Geometric adjustment H & V keystone H & V LENS SHIFT button Image Capture Image resizing INPUT 1 – 5 modes INPUT 1 terminal INPUT 2 terminals INPUT 3 terminal INPUT 3 terminal INPUT 5 terminal INPUT 5 terminal INPUT 5 terminal INPUT 5 terminal INPUT buttons Intake vent IP Address Kensington Security Standard connector Keycode Keylock Level KEYSTONE button	46 56 93 86 840 47 942 43 9 7445 2289 344539 90 15 78541 41
ENLARGE buttons ENTER button Exhaust vent Fan Mode Fine Sync FOCUS buttons FREEZE button Gateway Geometric adjustment H & V keystone H & V LENS SHIFT button Image Capture Image resizing INPUT 1 – 5 modes INPUT 1 terminal INPUT 2 terminals INPUT 3 terminal INPUT 3 terminal INPUT 4 terminal INPUT 5 terminal INPUT 6 terminal INPUT 5 t	46 56 93 86 840 47 942 43 9 744 57 28 94 345 90 15 78 541 40 96
ENLARGE buttons ENTER button Exhaust vent Fan Mode Fine Sync FOCUS buttons FREEZE button Gateway Geometric adjustment H & V keystone H & V LENS SHIFT button Image Capture Image resizing INPUT 1 – 5 modes INPUT 1 terminal INPUT 2 terminals INPUT 3 terminal INPUT 3 terminal INPUT 5 terminal INPUT 5 terminal INPUT 5 terminal INPUT 5 terminal INPUT buttons Intake vent IP Address Kensington Security Standard connector Keycode Keylock Level KEYSTONE button	46 56 93 86 86 40 47 90 42 39 76 44 52 28 93 44 53 90 15 78 54 1 90 41 90 90 90 90 90 90 90 90 90 90 90 90 90

Lamp Timer (Life)	83
Lamp unit cover	97 35
LAN/RS232C	88
Language	
Lens cap	13
MENU button	56
Monitor Out	
Mouse button	
Network Normal	
ON button	37
Options (1)	
Options (2) OSD Display	
OUTPUT (FOR INPUT 1, 2) terminal	36
Pair Stack	
Password Phase	
Pict in Pict	
Picture	
Picture Mode PICTURE MODE button	60 47
Power cord	37
Power indicator	
PRJ Mode Progressive	64 62
R-click button	19
Remote control	17
Remote control sensor Remote mouse receiver	
Resize	48
RESIZE button RGB cable	48
RS-232C	
RS-232C terminal	35
Save Setting	68
Select Setting Service Mode	69 90
Set Inputs	86
Signal Info	
Signal Type Smart Stretch	49
Speaker	73
Special Modes sRGB	
Stack Setting	84
STANDBY button	
Startup Image Status	
Stretch	48
Subnet Mask System Lock	
TCP/IP	
Temperature warning indicator	94
UNDO button	56
Video System Volume buttons	
WIRED R/C JACK WIRED REMOTE terminal	18 18
ZOOM buttons	40

Appendix



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