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Dear SHARP Customer

Welcome to the SHARP Family. We are pleased that you are now the owner of a SHARP Color LCD Projector built for outstanding quality, reliability and performance.

Every SHARP Color LCD Projector is adjusted for a proper picture and has passed through the most stringent quality control tests at the factory. We have prepared this OPERATION MANUAL so that you have the ability to adjust the picture and color to your personal viewing preference. We sincerely hope that you will be satisfied with the quality and performance of your Color LCD Projector for many years to come.

Please read the instructions carefully, and keep them handy for future reference.

IMPORTANT

For your assistance in reporting the loss or theft of your Color LCD Projector, please record the Serial Number located on the rear of the projector and retain this information.

Model No.: XG-NV3XU

Serial No.:

Important Information

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

1. WARRANTY

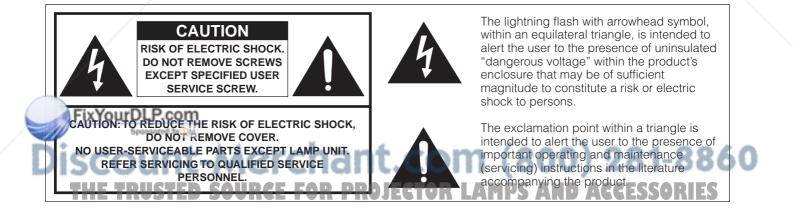
This is to assure that you immediately receive the full benefit of the parts, service and labor warranty applicable to your purchase.

2. CONSUMER PRODUCT SAFETY ACT

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

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.



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

U.S.A. ONLY

INFORMATION

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

U.S.A. ONLY

The enclosed RGB signal cable and Macintosh adaptor must be used with the device. The cable and adaptor are provided to ensure that the device complies with FCC Class A verification.

U.S.A. ONLY

Important Safeguards

Electrical energy can perform many useful functions. This unit has been engineered and manufactured to ensure your personal safety. But IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARD. In order not to defeat the safeguards incorporated into this LCD Projector, observe the following basic rules for its installation, use and servicing. For your own protection and reliable usage of your LCD Projector, please be sure to read these "Important Safeguards" carefully before use.

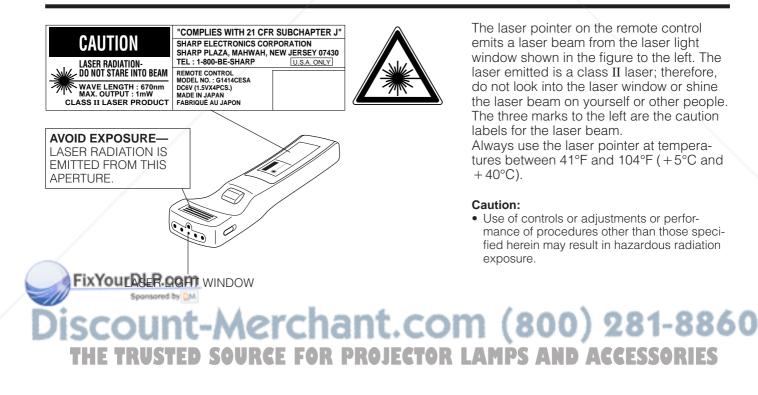
- 1. Read Instructions—All the safety and operating instructions should be read before the product is operated.
- 2. Retain Instructions—The safety and operating instructions should be retained for future reference.
- 3. Heed Warnings—All warnings on the product and in the operating instructions should be adhered to.
- 4. Follow Instructions—All operating and use instructions should be followed.
- 5. Cleaning—Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 6. Attachments—Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- 7. Water and Moisture—Do not use this product near water for example, near a bathtub, 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. 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
- provided or the manufacturer's instructions have been adhered to.
 Power Sources—This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
- 12. Grounding or Polarization—This product is equipped with a three-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.
- 13. Power-Cord Protection—Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

- 14. Lightning—For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the product due to lightning and power-line surges.
- 15. Overloading—Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- 16. Object and Liquid Entry—Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- 17. Servicing—Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 18. Damage Requiring Service—Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power-supply cord or plug is damaged.
 - b. If liquid has been spilled, or objects have fallen into the product.
 - c. If the product has been exposed to rain or water.
 - d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
 - e. If the product has been dropped or damaged in any way.
 - f. When the product exhibits a distinct change in performance—this indicates a need for service.
- 19. Replacement Parts—When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or with 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—The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
- 22. Heat—The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Cautions Concerning the Laser Pointer



Notes on Operation

About the Temperature Monitor Function:

- If the projector starts to overheat due to set-up problems or a dirty air filter, "TEMP." will flash in the upper-left corner of the picture. If the temperature continues to rise, then the lamp will turn off, the TEMPERATURE WARNING indicator will flash, and after a 90-second cooling-off period the power will shut off. Refer to page 30, "Maintenance Indicators," when the "TEMP." warning appears in the picture.
- The cooling fan regulates the internal temperature, and its performance is automatically controlled. The sound of the fan may change during operation due to changes in the fan speed.

Outstanding Features

Allows easy projection of large screen, full-color computer and video images.

- Can be projected directly onto a video screen or white wall
- Lightweight, convergence-free system for easy installation.

DIRECT COMPUTER COMPATIBILITY

A multi-scan RGB Input accepts signals from SXGA $(1,280 \text{ dots} \times 1,024 \text{ lines compressed}), XGA (1,024 \text{ dots})$ × 768 lines), SVGA (800 dots × 600 lines), VGA (640 dots \times 480 lines) and Mac (1,024 dots \times 768 lines maximum) compatible computers without the need for any additional hardware.

HIGH PICTURE QUALITY

The three LCD panels contain 786,432 \times RGB pixels to achieve exceptionally bright, high quality images.

INTELLIGENT COMPRESSION

SXGA images are compressed and projected without

VERSATILE REMOTE CONTROL

- Built-in wireless mouse allows simultaneous operation of projector and computer.
- Built-in Laser Pointer for professional presentations.

FLEXIBLE USE

- In addition to the standard front projection mode, the menu driven functions can be used to instantly reverse the image for rear projection, and invert the image for ceilina mountina.
- Screen projection size adjusts from 40 to 300 inches.

BUILT-IN STEREO SPEAKERS

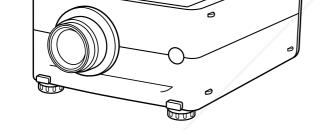
Built in 2 W + 2 W stereo amplifiers and speakers eliminate the need for external audio components.

USE WITH "PLUG AND PLAY"

"Plug and Play" compatible with VESA DDC 1 and DDC 2B standards.

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

image data loss.

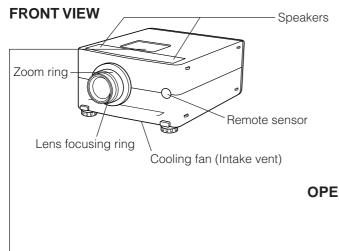






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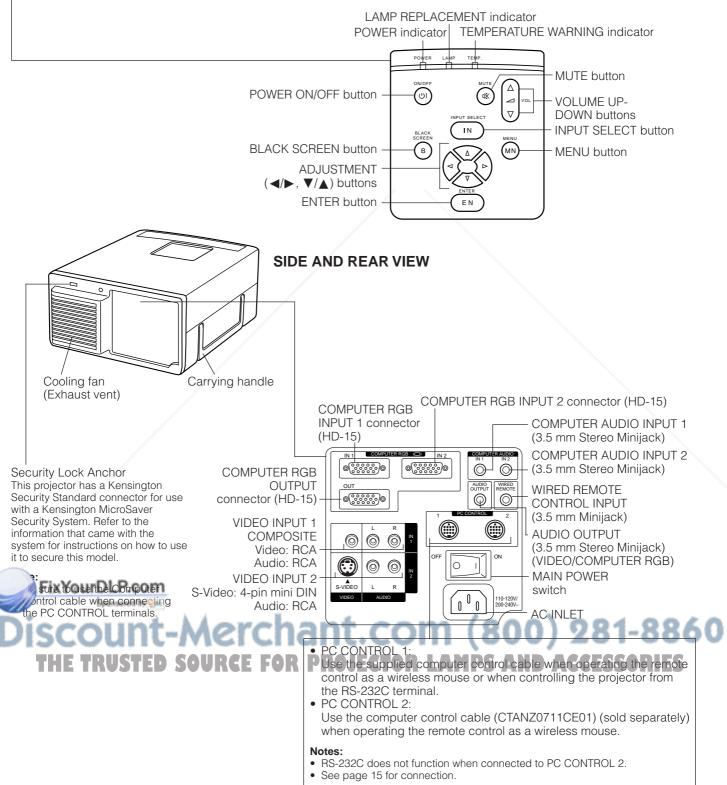
Location of Controls



Cautions:

- The exhaust vent, the lamp cage cover and adjacent areas may be extremely hot during projector operation. To prevent injury, do not touch these areas until they have sufficiently cooled.
- Allow at least 4" (10 cm) of space between the cooling fan (exhaust vent) and the other nearest wall or obstruction.
- If the cooling fan becomes obstructed, a protection device will automatically turn off the projector lamp. This does not indicate a malfunction. Remove the projector plug from the wall outlet and wait 10 minutes. Then turn on the power by plugging the cord back in. This will return the projector to its normal mode.

OPERATION PANEL ON TOP OF PROJECTOR

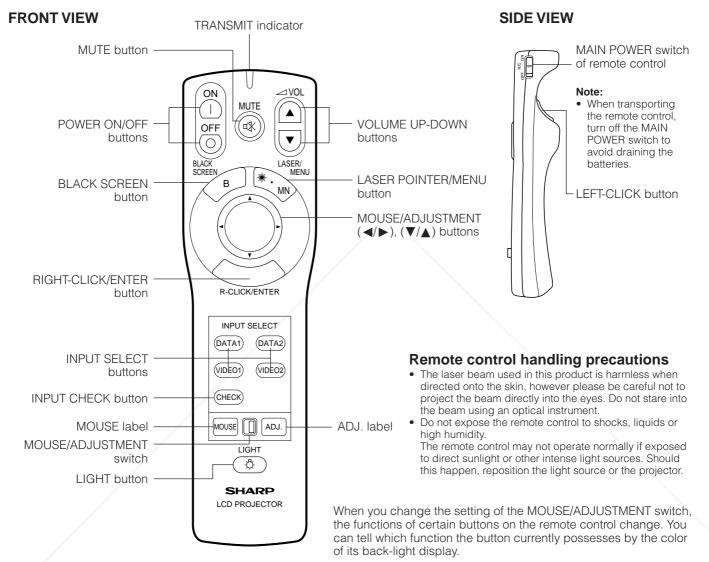


Operating the Wireless Mouse Remote Control

The functions of your personal computer's mouse have been built into the remote control enabling you to operate your projector and personal computer with the remote control.

- 1. Slide the MAIN POWER switch on the rear of the projector on.
- 2. Press the POWER ON button on the front panel of the remote control to turn the projector power on.
- 3. When using the remote control as a wireless mouse, move the MOUSE/ADJUSTMENT switch to the MOUSE position. When using the remote control to operate the projector, move the MOUSE/ADJUSTMENT switch to the ADJ. position. To activate the remote control key back-light feature, press the LIGHT button on the remote control. The colors of the buttons will change as shown in the table at the bottom of this page.

Wireless Mouse Remote Control

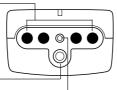


Using the remote control in a dark	Button name	Position of MOUSE/ADJUSTMENT switch				
room		MOUSE	ADJ.			
Prese the UCHT button to turn on the back- lights for the operation buttons for about 5 sec-	LASER POINTER/MENU	LASER POINTER (GREEN)	MENU (RED)			
onds. The back-light colors are described in the	RIGHT-CLICK/ENTER	RIGHT-CLICK (GREEN)	ENTER (RED)			
table to the right.	MOUSE/ADJUSTMENT	MOUSE (NOT LIT)	ADJ. ◀/▶, ▼/▲ (NOT LIT)			
DISCOUNT-MERCI	LEFT-CLICK	ON (NOT LIT)	201-0000			
If the MAIN POWER switch on the remote con-	BLACK SCREEN	BLACK SCREEN (RED)				
trol is left on for more than 10 minutes without	POWER ON/OFFCTU	I LAMPS AND A	ICCESSORIES			
operation, the power will automatically turn off. To turn the power back on, press any button on	VOLUME UP-DOWN					
the remote control for at least one second.	MUTE	ON (RED)				
	DATA 1					
	DATA 2					
	VIDEO 1					
	VIDEO 2					
	INPUT CHECK					

TOP VIEW

REMOTE CONTROL SIGNAL TRANSMITTER

WIRED REMOTE CONTROL INPUT (3.5 mm Minijack)



LASER LIGHT WINDOW Laser light shines out of this window.



"COMPLIES WITH 21 CFR SUBCHAPTER J" SHARP ELECTRONICS CORPORATION SHARP PLAZA, MAHWAH, NEW JERSEY 07430 TEL : 1-800-BE-SHARP U.S.A. ONLY REMOTE CONTROL MODEL NO.: G1414CESA DC6V (1.5VX4PCS.) MADE IN JAPAN FABRIQUÉ AU JAPON



Notes:

Using the optional cable with the remote control When the remote control cannot be used due to the

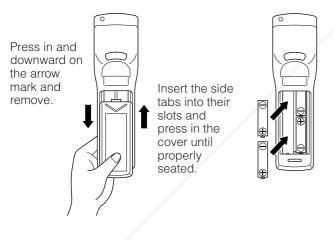
range or positioning of the projector (rear projection, etc.), connect the optional cable from the Wired Remote Control Input jack on the remote control to the Wired Remote Input on the rear of the projector.

Note:

• The signal transmitter does not function when the optional cable is connected to the remote control.

> The laser pointer on the remote control emits a laser beam from the laser light window shown in the figure to the left. The laser emitted is a class II laser; therefore, do not look into the laser window or shine the laser beam on yourself or other people. The two marks to the left are the caution labels for the laser beam.

Always use the laser pointer at temperatures between 41°F and 104°F (+5°C and +40°C).



30

45

distance

30°

cated · Remove the batteries if the remote control will not be operated for an extended period of time.

Incorrect use of batteries may cause them to leak or burst.

• Insert the batteries with the (+) and (-) polarities as indi-

Remove the battery cover as shown and insert four AA size batteries making sure their polarities match the (+)

and (-) marks inside the battery compartment.

Maintain the batteries in a clean condition.

Inserting the batteries

- Do not mix different brands of batteries. The life expectancy of the new batteries will be shortened and the old batteries may leak.
- When the batteries have been used up, remove them immediately to prevent leakage and damage. Leaked battery fluid may irritate the skin. Remove any battery fluid by wiping with a cloth.
- Due to storage conditions and the shelf life of the supplied batteries, they may run out after a short time. If so, replace them with new batteries as soon as possible.

Remote control positioning

Use the remote control as shown in the figures on the left.

Note:

Reception range

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

MPS AND ACCESSORIES

Transmission range

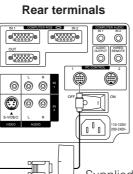
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REAR VIEW

Wireless Mouse Functions

Connection Example

Personal computer



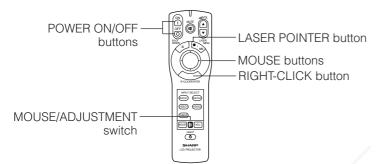
Supplied computer control cable

Functions and Operations

To mouse terminal

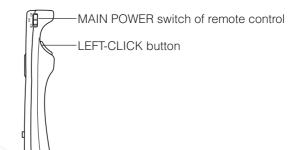
Supplied mouse control cable (for IBM

PS/2, serial and Apple ADB type mouse)



The wireless mouse functions and laser pointer on the remote control can help you create a more professional presentation.

• By connecting the supplied computer control cable to the PC CONTROL terminal on your projector and the supplied mouse control cables to the mouse terminal on your personal computer, you can use the wireless mouse on the remote control, instead of the mouse equipped with your personal computer, to operate your personal computer. The wireless mouse functions will work with personal computers compatible with IBM PS/2, serial (RS-232C) or Apple ADB type mouse systems.



- First, connect the units as shown above, and turn the projector power on.
- Second, turn the computer power on.
- Next, slide the MAIN POWER switch on the side of the remote control.
- When using the remote control as a wireless mouse, move the MOUSE/ADJUSTMENT switch to the MOUSE position.

Notes:

- In some situations the wireless mouse may be inoperable if your computer port is not correctly set-up. Please refer to your computer owners manual for details on setting-up/installing the correct mouse driver
- Be sure to use the computer control cable when connecting the PC CONTROL terminals.
- Do not connect or remove the mouse control cables and computer control cable to/from your computer while it is on. This may damage your computer.
- Only one set of connection cables is supplied with your projector. For additional connection cables, contact your nearest Authorized Sharp Industrial LCD Products Dealer or Service Center
- Do not connect the mouse input terminal for IBM/Mac and the mouse input terminal for PC98 simultaneously.

MOUSE buttons

By lightly pressing the up/down and right/left arrow buttons located on the front of the remote control, you can move the mouse cursor on your monitor screen.

Note:

The amount of pressure applied to the MOUSE button determines the speed the mouse cursor travels. Pressing lightly on the periphery of the MOUSE button makes the mouse cursor move slowly. Pressing hard makes it move quickly.

LEFT-CLICK button

The LEFT-CLICK button on the back of the remote control corresponds to the left button of the mouse on two-button mouse systems.

RIGHT-CLICK button

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The RIGHT-CLICK button on the front of the remote control corresponds to the right button on two-button mouse systems.

Note: For one-button mouse systems use either the LEFT-CLICK or RIGHT-CLICK button.

ASER POINTER button Press the LASER POINTER button to activate the laser pointer.

When the button is pressed, the light stays on; when the button is released, the light goes off. However, even when the button is pressed continuously, the light automatically goes off 1 minute after it goes on. To turn it on again press the laser pointer button S conemore time. R PROJECTOR

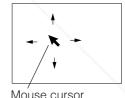


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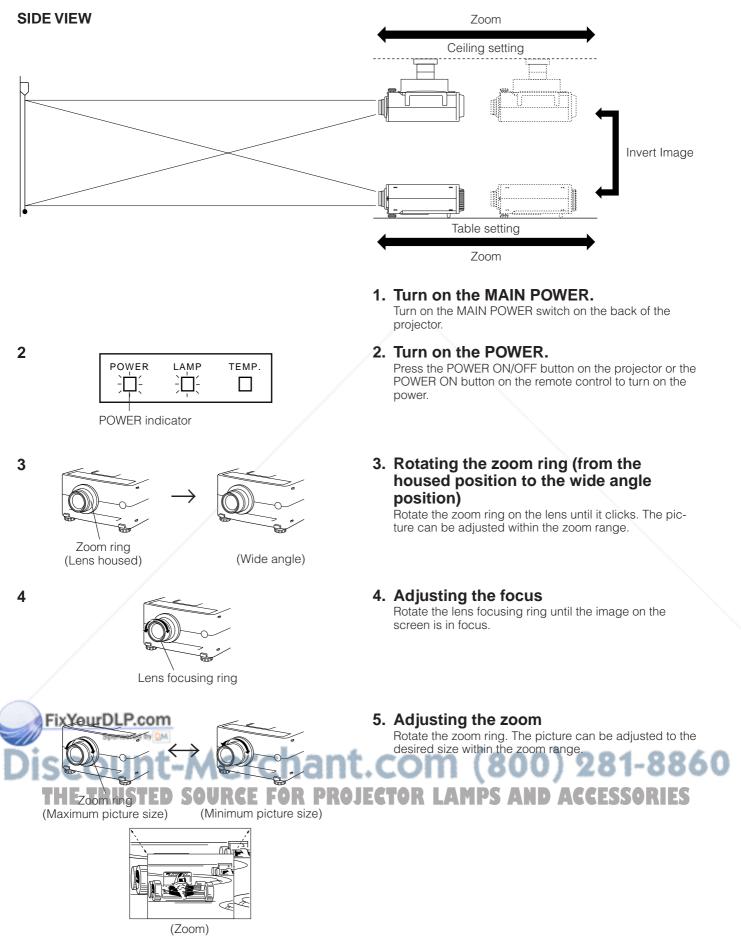
The laser pointer on the remote control emits a laser beam from the laser light window. The laser emitted is a class II laser; therefore, do not look into the laser window or shine the laser beam on yourself or other people. The two marks to the left are the caution labels for the laser beam.

Always use the laser pointer at temperatures between 41°F and 104°F (+5°C and +40°C).



Using the Focus and Zoom

- Zoom, Focus and Reversed/Inverted Image mode functions broaden your options for projector placement.
- See pages 10, 11 and 12 for details on projector setup.



Projector Distance and Picture Size Relationship

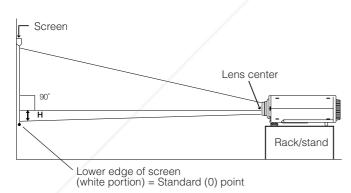
- The zoom lens allows adjustment of the image size within the projector's range.
- For optimum picture adjustment, the projector should be placed and adjusted at a distance between 4.6 ft (1.4 m) and 57.4 ft (17.5 m) from the screen.

Distance from screen	Picture size	Projection of	distance (L)
Picture size: 100 inches (254 cm)	(diag.)	Maximum projection distance	Minimum projection distance
	300 in. (240 " W × 180 " H)	57.4 ft (17.5 m)	35.8 ft (10.9 m)
	200 in. (160 " W × 120 " H)	38.4 ft (11.7 m)	23.9 ft (7.3 m)
	150 in. (120 " W × 90 " H)	28.5 ft (8.7 m)	17.7 ft (5.4 m)
Zoom adjustment range: 19.0 ft-11.8 ft	100 in. (80 " W × 60 " H)	19.0 ft (5.8 m)	11.8 ft (3.6 m)
	80 in. (64 " W $ imes$ 48 " H)	15.1 ft (4.6 m)	9.5 ft (2.9 m)
	60 in. (48 " W × 36 " H)	11.5 ft (3.5 m)	6.9 ft (2.1 m)
	40 in. (32" W $ imes$ 24" H)	7.5 ft (2.3 m)	4.6 ft (1.4 m)
<	Lens center	distance $y_1 = (0.0586x - 0)$ $y_2 = (0.0367x - 0)$ x: Picture size (constrained on the size (constrained on the size) (constrained on the si	0.0702) × 3.28
Maximum L: 19.0 ft (5.8 m)	>	0	
Distance between lens and scree	n: L		

• Above is an illustration of maximum and minimum projection distances for the XG-NV3XU with a picture size of 100 inches (254 cm). Move the projector forward or backward if the edges of the image are distorted.

Height of Projector

Adjust to match the setup configuration.



Picture size (diag.)	Distance from lens center to lower edge of screen (H)
300 in. (240 " W × 180 " H)	26.0 in. (66 cm)
200 in. (160 " W × 120 " H)	17.3 in. (44 cm)
150 in. (120 " W × 90 " H)	13.0 in. (33 cm)
100 in. (80 " W × 60 " H)	8.7 in. (22 cm)
80 in. (64 " W × 48 " H)	7.1 in. (18 cm)
60 in. (48 " W × 36 " H)	5.1 in. (13 cm)
40 in. (32" W × 24" H)	3.5 in. (9 cm)
	()

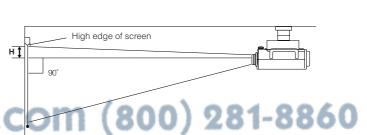
• Ceiling Mount

Note:

When the projector is in the inverted position, use the high edge of the screen as the base line.

TRUSTED SOURCE FOR PROJECT



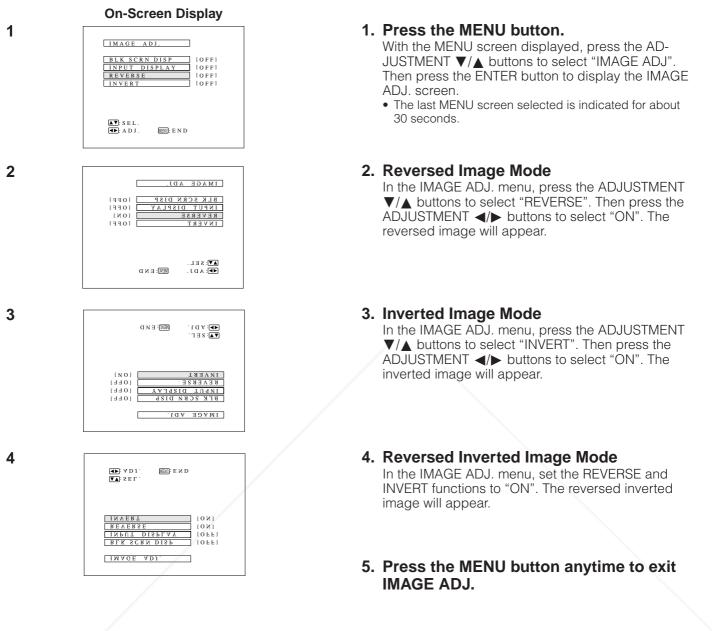


AMPS AND ACCESSORIES

• Optimal image quality is produced with the projector positioned perpendicular to the screen with all feet flat and level.

0R

This projector is equipped with an image invert/reverse function. The projected image can be inverted or reversed by using the MENU button and the ADJUSTMENT V/A and A/P buttons.



How to set up the projector and screen

Cautions: When setting up the projector

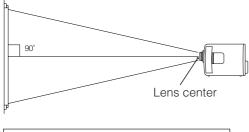
• For minimal servicing and to maintain high image quality, SHARP recommends that this projector be installed in an area free from humidity, dust and cigarette smoke. When the projector is subjected to these environments, the lens and filter must be cleaned more often. Periodically the filter should be replaced and the proiector should be cleaned internally. As long as the projector is properly maintained in this manner, use in these invironments. Will not reduce the overall operation life. Please note that all internal cleaning must be performed oy an Authorized Sharp Industrial LCD Products Dealer or Service Center.



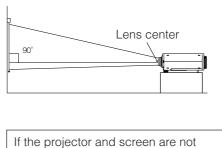
- Position the screen so that it is not in direct sunlight or room light. Light falling directly onto the screen washes out colors, making viewing difficult. Close the curtains and dim the lights when using the screen in a bright or sunny room.
- The best picture will be obtained when the projector is at a 90 degree angle to the screen. Position the projector and screen as shown.

Example of a standard setup

TOP VIEW



The projector lens should be centered in the middle of the screen.



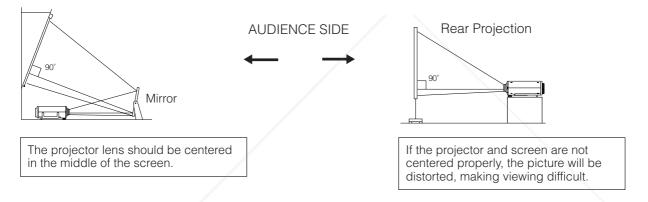
SIDE VIEW

If the projector and screen are not centered properly, the picture will be distorted, making viewing difficult.

Using the horizontal reverse function makes the following setups possible.

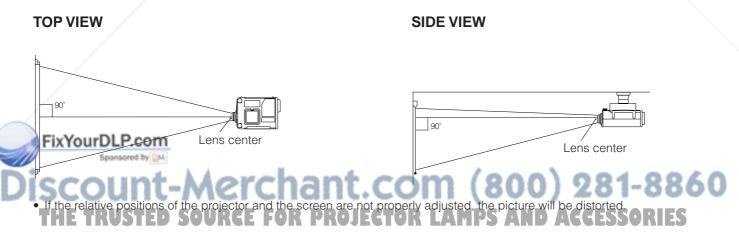
Example of a reversed image setup

- By placing a mirror (normal flat type) in front of the lens and using the horizontal reverse function, the image reflected from the mirror can be projected onto the screen.
- Rear projection with a rear projection screen is also possible when using the horizontal reverse function.



Example of a ceiling-mount setup

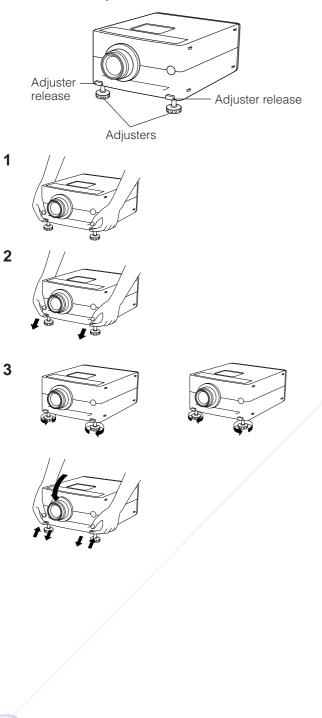
Before mounting the projector, be sure to contact your nearest Authorized Sharp Industrial LCD Products Dealer to obtain the manufacturer recommended ceiling mount bracket (sold separately). (AN-XGCM40 Ceiling Mount Bracket, AN-EP101AP Extension Tube for AN-XGCM40).



E-12

Adjusting the Height of the Picture

Use the adjuster release to adjust the angle of the projector and height of the picture. Minor adjustments can be made with the adjusters.



1. Press the adjuster release and lift the projector to the desired angle with both hands.

- The adjuster legs will extend to the surface of the table.
- 2. Remove your hand from the adjuster release.
 - The adjuster legs will lock in position. Release the projector once you are sure the adjuster legs have locked in position.
- 3. Make any minor adjustments necessary.
 - Turn the adjusters to further adjust the angle of the projector.

Returning the projector to its original position

• While holding the projector with both hands, press the adjuster release and slowly lower the projector to its original position.

Notes:

- Adjustable up to approximately 5° from the horizontal.
- When adjustments are made with the adjusters, the picture may become distorted, depending on the relative positions of the projector and the screen.
- After adjusting, in some cases, all of the adjuster legs may not be resting on the table.

To prevent the projector from wobbling, adjust the adjuster legs so that they firmly contact the table.

Cautions:

- Do not press the adjuster release when the adjuster legs are extended without firmly holding the projector.
- When lowering the projector, be careful not to get your fingers caught in the area between the adjusters and the projector.
- Do not hold the lens when lifting or lowering the projector.

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Use the carrying handle when carrying the projector. (800) 281-8

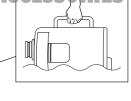
When transporting the projector, carry it by the handle located on the LAMPS AND ACCESSORI side of the unit.

Note:

• Always put on the lens cap to prevent damage to the lens when transporting the projector.

Caution:

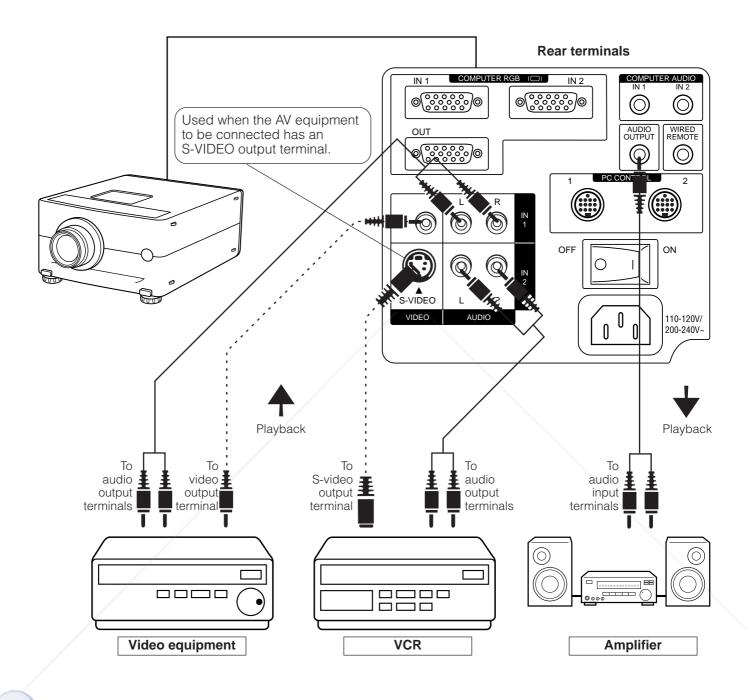
 Do not lift or carry the projector by the lens or the lens cover as this may damage the lens. Carrying handle



Connecting the Projector (VIDEO 1, VIDEO 2)

To playback audio and video with the projector connected to a VCR, Laser Disc Player or external audio amplifier, make the following connections.

• Always turn off the LCD Projector while connecting to video equipment, in order to protect both the projector and the equipment being connected.



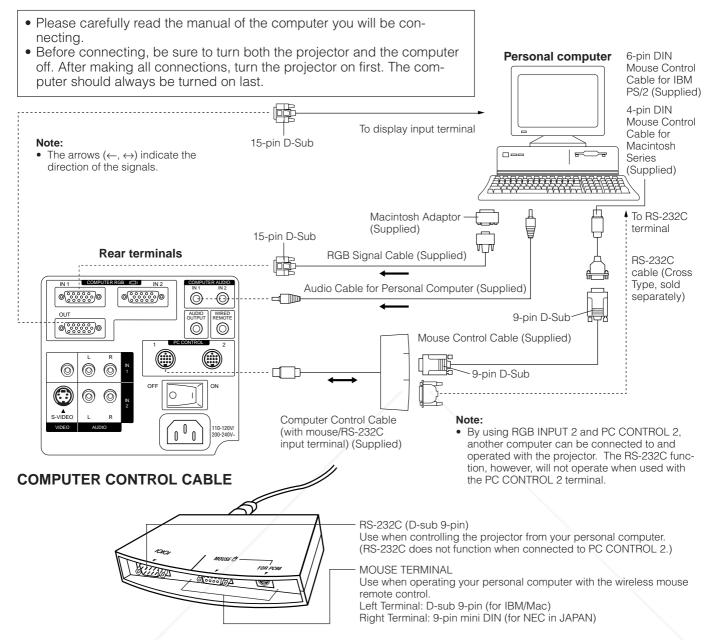
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Select the audio you want to output by selecting VIDEO 1 or VIDEO 2.

Note the following when using the S-VIDEO INPUT terminal:
The S-VIDEO INPUT terminal uses a video signal system in which the picture is separated into a color and a luminance signal

to realize a higher-quality picture. • By using the external amplifier, the volume can be amplified for greater sound. PS AND ACCESSORIES

Connecting the Projector (RGB 1, 2: Computer)



- You can connect your projector to a computer for easy projection of full color computer images and an external monitor for simultaneous viewing. See pages 16 and 17 for details of the connections.
- Refer to page 18 for a list of personal computers connectable to the projector. Use with computers other than those listed may cause some of the functions not to work.
- When the RS-232C terminal on this unit is connected to a personal computer via an RS-232C cable (cross type) and the supplied computer control cable, the personal computer can control the projector and the status of the projector can be checked. See pages 34 and 35 for details.
- By connecting the supplied computer control cable to the PC CONTROL terminal on your projector and the supplied mouse control cables to the mouse terminal on your personal computer, you can use the wireless mouse on the remote control, instead of the mouse equipped with your personal computer, to operate your personal computer. Refer to page 8 for details.

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We RS-232C function will only operate when the connection cable is connected to the PC CONTROL 1 terminal on the projector.

- The wireless mouse or RS-232C function may not operate if your computer port is not correctly set-up. Please refer to your computer owners manual for details on setting-up/installing the correct mouse driver.
- Do not connect or remove the computer control cable, mouse control cables, or RS-232C cable to/from your computer while it is on. T
- damage your computer.
 Do not connect to the mouse input terminals on the computer control cable for IBM/Mac and PC98 simultaneously C
 Be sure to use the supplied computer control cable when connecting the PC CONTROL terminals.

"Plug and Play" Function

This projector is compatible with VESA-standard DDC 1/DDC 2B.

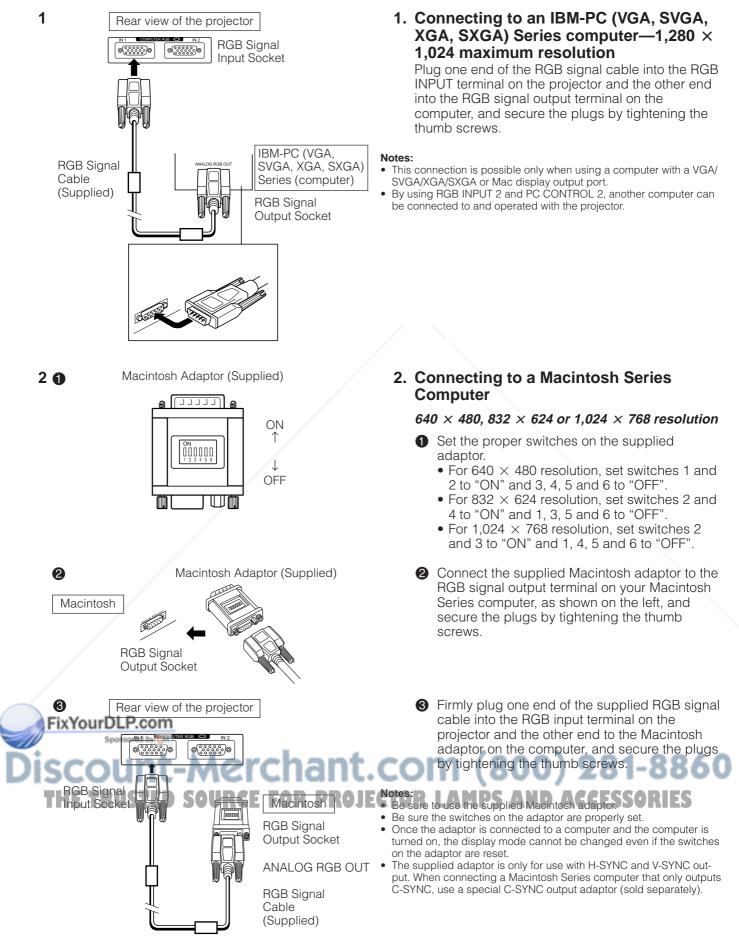
This projector and a VESA DDC compatible computer will communicate their setting requirements, allowing for quick and easy set-up.

Note:

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

Connecting to the Computer RGB Input (RGB 1, 2)/Output Terminals

You can connect your projector to a computer for easy projection of full-color computer images, and an external monitor for simultaneous viewing.



3. Connecting to other compatible computers

When connecting the projector to a compatible computer other than an IBM-PC (VGA/SVGA/XGA/SXGA) or Macintosh series, a separate cable may be needed. Please contact your dealer for ordering information.

Notes:

- Connecting computers other than the recommended types may result in damage to the projector, the computer, or both
- Connect the audio from the computer to the COMPUTER AUDIO INPUT terminal.

4. Connecting to the COMPUTER AUDIO INPUT

- The COMPUTER AUDIO INPUT 1 accepts audio from the COMPUTER RGB 1 input, and the COMPUTER AUDIO INPUT 2 accepts audio from the COMPUTER RGB 2 input.
- · Connect a 3.5 mm Stereo Minijack cable from the audio output terminal on the computer to the COMPUTER AUDIO INPUT terminal on the projector.

5. Connecting an external monitor

Connect your computer monitor to the projector's COM-PUTER RGB OUTPUT terminal to view images simultaneously on the external monitor and the projection screen. Select either RGB 1 or RGB 2 to output the images to the monitor.

Caution (Apple Macintosh):

Do not connect the COMPUTER RGB OUTPUT to any monitor except the following:

Apple Color RGB Monitor 13"/14" (640 × 480), 16"/17" (832 \times 624) or 19" (1,024 \times 768)

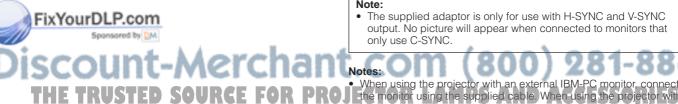
The output signal from the projector to the monitor should be the same as the input signal from the computer to the projector.

Examples:

Input 13"/14" (640 \times 480) \rightarrow Output (640 \times 480) Input 16"/17" (832 \times 624) \rightarrow Output (832 \times 624) Input 19" $(1,024 \times 768) \rightarrow \text{Output} (1,024 \times 768)$

Note:

The supplied adaptor is only for use with H-SYNC and V-SYNC output. No picture will appear when connected to monitors that only use C-SYNC.

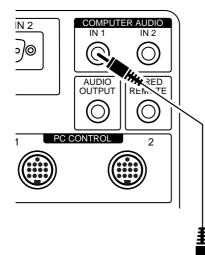


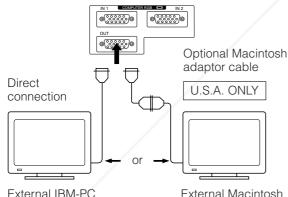
the monitor using the supplied cable. When using the projector with a Macintosh monitor, an optional adaptor cable is required. Before using any other type of monitor, carefully check the monitor's interface specifications and make sure that they match the specifications of the projector's interface.

The external monitor output will only display an analog computer input signal. It will not display a digital or video input signal. To split the composite video signal, use a video distribution amplifier. This is available from your local dealer. The computer RGB output will only loop through the same signal connected to the computer RGB input. $(VGA IN \rightarrow VGA OUT, Mac IN \rightarrow Mac OUT)$

4

5





monitor

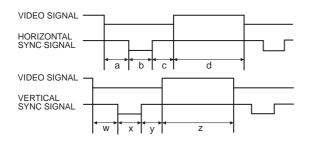
External IBM-PC monitor

Input Signals (Recommended Timing)

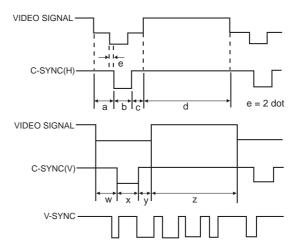
For IBM and compatibles

Input signals:

The video output signal timing of different types of video signals are shown below for reference.



For Apple Macintosh Series



						IBM			IBM	Apple	Apple	Apple	Apple									
						VGA			VESA	SVGA	SVGA	SVGA	SVGA	XGA	XGA	XGA	SXGA	SXGA	Macintosh [™]	Macintosh™ LC	Macintosh™	Macintosh™
	MODE			т	ext		Graphic		Graphic	Graphic	VESA Guideline	VESA Standard	VESA Standard	VESA Guideline	VESA Standard	VESA Standard	VESA Standard	VESA Standard	IIsi 13" Monitor	13" Monitor	16" Monitor	19" Monitor
				720	dots		640 dots		640 dots	800 dots	800 dots	800 dots	800 dots	1,024 dots		1,024 dots	1,280 dots	1,280 dots	640 dots	640 dots	832 dots	1,024 dots
				350 lines	400 lines	350 lines	400 lines	480 lines	480 lines	600 lines	600 lines	600 lines	600 lines	768 lines	768 lines	768 lines	1,024 lines	1,024 lines	480 lines	480 lines	624 lines	768 lines
		LE	VEL			0.7Vp-p 75Ω load			0.7Vp-p 75Ω load	1Vp-p max. 75Ω load	0.7Vp-p max. 75Ω load	0.7Vp-p max. 75Ω load	0.7Vp-p max. 75Ω load									
	VIDEO	Т	YPE			R•G•B			R•G•B	R • G • B C.SYNC	R • G • B C.SYNC	R • G • B C.SYNC	R • G • B C.SYNC									
	FRONT PORCH	а	dot	1	7		14		24	24	40	56	16	24	24	16	48	16	64	78	31	35
	SYNC	b	dot	10	08		96		40	72	128	120	80	136	136	96	112	144	64	62	65	96
	BACK PORCH	с	dot	5	5		50		128	128	88	64	160	160	144	176	248	248	96	116	224	173
	VIDEO PERIOD	d	dot	72	20		640		640	800	800	800	800	1,024	1,024	1,024	1,280	1,280	640	640	832	1,024
н s			dot	90	00		800		832	1,024	1,056	1,040	1,056	1,344	1,328	1,312	1,688	1,688	864	896	1,152	1,328
Y	1H (a+b+c+d)		μs	31.7	7774		31.7776		26.413	28.444	26.400	20.800	21.333	20.677	17.707	16.660	15.6	12.5	28.5714	28.595	20.124	16.650
С	1 dot		ns	35.3	3082		39.7219		31.746	27.777	25.000	20.000	20.202	15.385	13.3	12.7	9.3	7.4	33.0688	31.914063	17.468	12.538
	1/H		kHz	31.4	1689		31.4688		37.860	35.156	37.879	48.077	46.875	48.363	56.476	60.023	63.981	79.976	35.0000	34.971149	49.693	60.0
	1/dot		MHz	28.	322		25.175		31.500	36.000	40.000	50.000	49.500	65.000	75.0	78.75	108.000	135.000	30.2400	31.334149	57.246	79.76
	LEVEL			TTL	TTL		TTL	/	TTL	TTL	TTL	TTL										
	SYNC POLARITY	Y	+/-	+	-	+	-/	-	-	+/-	+	+	+	-	-	+	+	+	-	-	-	-
	FRONT PORCH	w	н	38	13	38	13	11	9	1	1	37	1	3	3	1	1	1	3	3	1	3
	SYNC	x	н	2	2	2	2	2	3	2	4	6	3	6	6	3	3	3	3	3	3	3
	BACK PORCH	у	н	59	34	59	34	32	28	22	23	23	21	29	29	28	38	38	39	39	39	30
V S	VIDEO PERIOD	z	н	350	400	350	400	480	480	600	600	600	600	768	768	768	1,024	1,024	480	480	624	768
Y	4)/ (······)		н	449	449	449	449	525	520	625	628	666	625	806	806	800	1,066	1,066	525	525	667	804
С	1V (w+x+y+z)	Ī	ms	14.2681	14.2681	14.2681	14.2681	16.6832	13.735	17.778	16.579	13.853	13.333	16.666	14.272	13.328	16.7	16.7	15.00	15.00	13.423	13.387
	1/v		Hz	70.0866	70.0866	70.0863	70.0863	59.9405	72.809	56.250	60.317	72.188	75.000	60.006	70.069	75.029	60.020	75.025	66.67	66.67	74.502	74.70
	LEVEL		/	TTL	TTL	TTL	TTL	TTL	TTL	TTL	TTL	TTL	TTL	TTL	TTL	TTL	TTL	TTL	TTL	TTL	TTL	TTL
	SYNC POLARITY	Y	+/-	-	+	-	+	-	-	+/-	+	+	+	-	-	+	+	+	-	-	-	-

Notes:

• When connecting a notebook computer to the data-projector for display on an (800 \times 600) LCD screen, the screen may not show a full picture image. See page 20, "Computer Mode Memory Adjustments" for details.

• This projector may not be able to display images from notebook computers in simultaneous (CRT/LCD) mode. If this peours turn of the LCD display on the notebook computer and output the display data in "CRT only" mode. Details on how to change display modes can be found in your notebook computer's operation manual.

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RGB Adjustment Controls

When displaying computer patterns which repeat every other dot (tiling, vertical stripes, etc.), interference may occur between the LCD pixels, causing flickering, vertical stripes, or contrast irregularities in portions of the screen. Should this occur, use the ADJUSTMENT

RGB Input Adjustments (CLOCK, PHASE, V-POS and H-POS)

Select the input of the image you want to adjust (RGB 1 or 2) with the INPUT SELECT button and press the MENU button.

With the MENU screen displayed, press the ADJUSTMENT \bigvee/\blacktriangle buttons to select "RGB 1 INPUT ADJ." Then press the ENTER button to display the RGB 1 INPUT ADJ. screen.

Select the item you wish to adjust with the ADJUST-MENT ▼/▲ buttons. Adjust the item with the ADJUST-MENT ◀/▶ buttons.

Note:

• To display only the item that you want to adjust, press the ENTER button after selecting the item with the ADJUSTMENT ▼/▲ buttons. Then adjust the item with the ADJUSTMENT ◄/► buttons.

3. Press the MENU button anytime to exit RGB INPUT ADJ.

Description of Adjustment Items

CLOCK SPEED ADJUSTMENT (FAST/SLOW)

• Adjust the input signal horizontal frequency and the dot clock so that the screen display is normal.

PHASE ADJUSTMENT (UP/DOWN)

- Used to reduce image distortion or improve contrast.
- HORIZONTAL POSITION ADJUSTMENT (LEFT/RIGHT)
- Used to center the on-screen image by moving it to the left or right.

VERTICAL POSITION ADJUSTMENT (UP/DOWN)

• Used to center the on-screen image by moving it up or down.

MODE ADJUSTMENT

CONNECTING TO IBM-PC COMPUTERS

- Ordinarily, the type of input signal is detected and the correct resolution mode (Text or Graphics) is automatically selected. However, for the following signals, set MODE to ON or OFF to select the projector's resolution mode to match the computer display mode properly.
 - 720 dots \times 400 lines, 720 dots \times 350 lines (Text Mode)
 - 640 dots \times 400 lines, 640 dots \times 350 lines (Graphic Mode)
- For graphic mode, select MODE and set the MODE to ON.
- For text mode, select MODE again at this time, and set MODE to OFF.

CONNECTING TO MACINTOSH LC/II SERIES COMPUTERS

- When connecting to a Macintosh II with 35 kHz Dot Frequency, select MODE and set MODE to ON.
- When connecting to a Macintosh LC Series computer with 34.97 kHz Dot Frequency, set MODE to OFF.
- When connecting to third party video cards and other Macintosh computers, set MODE to ON or OFF to select the correct display mode.
- When the input signal is automatically detected or when there is no input signal, MODE (---) appears on the screen and the display mode cannot be changed.

INITIAL RESET

To return the H-POS, V-POS, PHASE and CLOCK adjustments to their initial settings, select RESET and then press the ENTER button CESSORIE MEMORY SELECT

Used to store up to seven computer mode adjustments.

Note:

• Avoid displaying computer patterns which repeat every other line (horizontal stripes). (Flickering may occur, making the picture hard to see.)

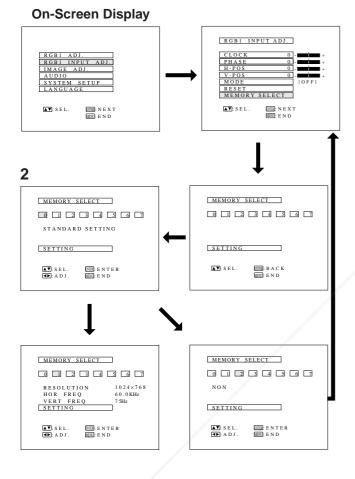
On-Screen Display

2

RGB1 INPUT ADJ.	
CLOCK 0 + PHASE 0 + H.POS 0 + W.POS 0 + MODE [OFF] + MENORY SELECT [OFF] +	
■ ADJ. MEND: END	

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1 When RGB 1 or 2 is selected.



Computer Mode Memory Adjustments

- The projector has been preset with different modes for use with XGA and other compatible computers. However, 7 memory positions are provided to store mode adjustments.
- Each memory position can be used to store mode adjustments to match the computer.

1. Press the ENTER button to select the Memory Adjustment mode.

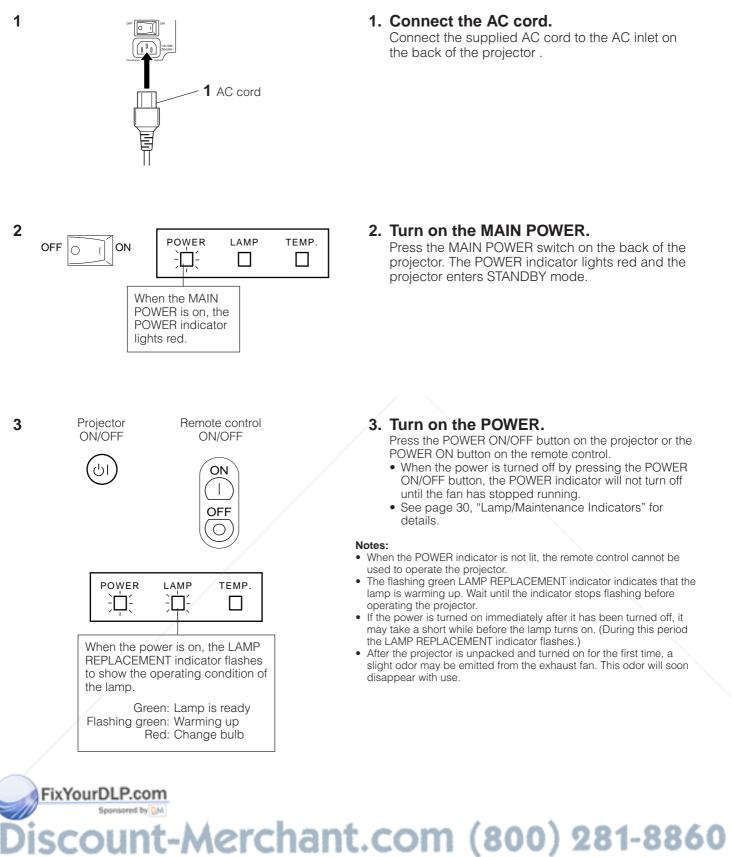
- Press the MENU button. While the MENU screen is displayed, press the ADJUSTMENT ▼/▲ buttons to select "RGB1 INPUT ADJ." Press the ENTER button. The MENU mode changes as shown.
- While the RGB INPUT adjustment menu is displayed, press the ADJUSTMENT ▼/▲ buttons to select "MEMORY SELECT". Then press the ENTER button to change the image.

2. Press the ADJUSTMENT **◄/** buttons.

- The screen shown on the left will appear. There are 7 memory positions.
- Press the ADJUSTMENT ▼ button once to move to the following screen. Press the ADJUSTMENT
 ▲/▶ buttons to select the number of the memory you want to adjust. If that memory position has not been set, the screen on the right will be displayed. If it has been set, the screen on the left will be displayed. MEMORY No.0 cannot be set. It contains the fixed factory preset settings.
- To make or change a setting, press the ADJUST-MENT ▼/▲ buttons to move the cursor to "SET-TING." Then press the ENTER button to go to the RGB INPUT adjustment menu screen. (If you do not want to make any adjustments, press the MENU button.)
- Select the item you want to adjust by pressing the ADJUSTMENT V/▲ buttons, then use the ADJUSTMENT
 buttons to make the adjustments. When adjustments are completed, press the MENU button. The display disappears and the adjustments are stored in memory as a user mode. See page 19 for details on the adjustment items.
- 3. Press the MENU button anytime to exit RGB INPUT ADJ.



Basic Operation of the Projector



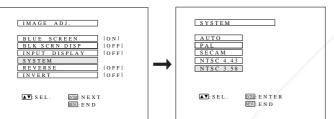
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4

On-Screen Display

LANGUAGE	
ENGLISH	
DEUTSCH	
ESPAÑOL	
NEDERLANDS	
FRANÇAIS	
ITALIANO	
S V E N S K A	
日本語	
▲▼: SEL. ENTER: ENTER	
MENU: E N D	

5



4. Select one of eight ON-SCREEN DISPLAY languages.

You can return to the previous screen by selecting the uppermost item (turquoise) with the ADJUSTMENT \forall/ \blacktriangle buttons (in this case, LAN-GUAGE) and then pressing the ENTER button.

The on-screen display is set to English at the factory. The language for the unit's ON-SCREEN DIS-PLAY can be set to English, German, Spanish, Dutch, French, Italian, Swedish or Japanese.

Setting the ON-SCREEN DISPLAY language

- 1. Press the MENU button. The menu will appear on the screen.
- Press the ADJUSTMENT ▼/▲ buttons to highlight the "LANGUAGE" item yellow. Then press the ENTER button to display the language menu.
- 3. Press the ADJUSTMENT ▼/▲ buttons to highlight the desired language yellow. Then press the ENTER button to set the language. The ON-SCREEN DIS-PLAY is now programmed to display in the language chosen.

5. Change the system mode.

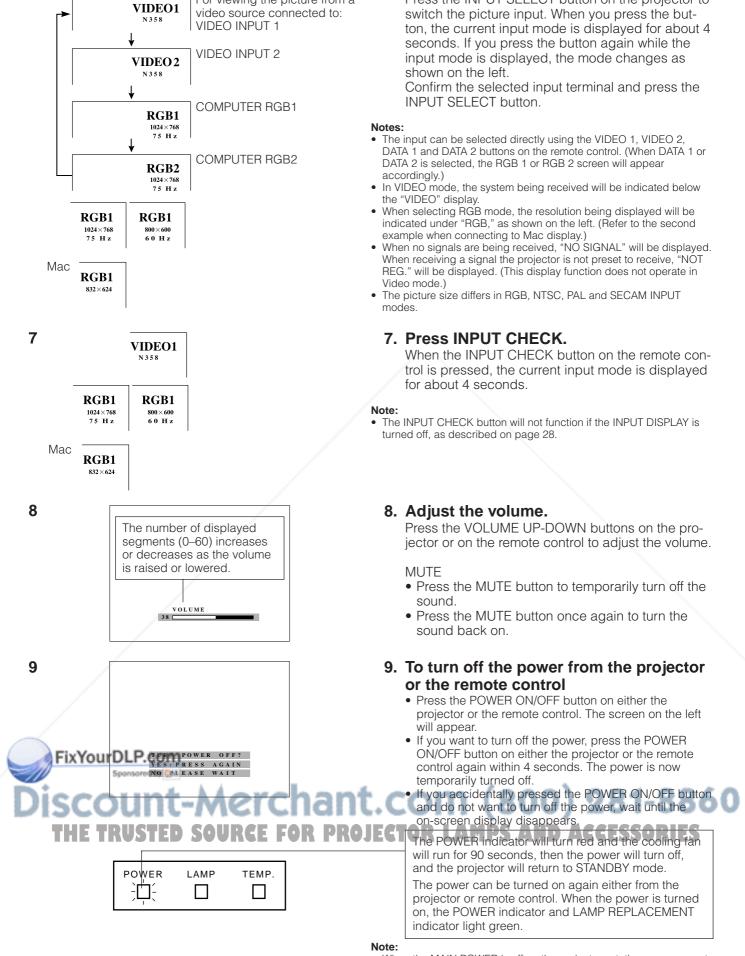
The video input system mode is set to "AUTO" at the factory, but it can be changed to a different mode if the selected system mode is not compatible with the connected audiovisual equipment (when a color image appears in black and white, etc.).

- 1. Press the MENU button. The menu will appear on the screen.
- Press the ADJUSTMENT ▼/▲ buttons to highlight the "IMAGE ADJ." yellow. Then press the ENTER button to display the IMAGE ADJ.
- 3. Press the ADJUSTMENT ▼/▲ buttons to highlight "SYSTEM" yellow. Then press the ENTER button to display the SYSTEM.
- Press the ADJUSTMENT ▼/▲ buttons to highlight the desired video system yellow. Then press the ENTER button to set the system.

Notes:

- In AUTO mode, "PAL," "SECAM", "NTSC 4.43" or "NTSC 3.58" is displayed on the screen for a few seconds when the mode is changed with the INPUT SELECT button.
- When the system mode is set to AUTO, you may not receive a clear picture due to signal differences. If this happens, switch to the color system you are viewing.





6. Select input.

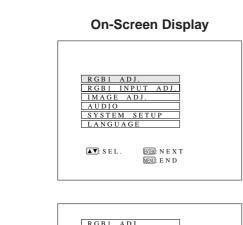
Press the INPUT SELECT button on the projector to

On-Screen Display

For viewing the picture from a

6

When the MAIN POWER is off on the projector set, the power cannot be turned on from the remote control.



2

1

RGB1 ADJ.	
PICTURE 0 -	
BRIGHT 0 -	
R E D 0 -	
BLUE 0 -	
RESET	
▲▼: SEL. NEXT ● : ADJ. NEXT	

- This projector's picture is factory preset to standard settings. However, you can adjust it to suit your own preferences with the ADJUSTMENT buttons on the projector and the remote control.
- The adjustments can be memorized in RGB 1, RGB 2, VIDEO 1 or VIDEO 2 separately.
- Four picture modes can be adjusted: "PICTURE," "BRIGHT," "RED," and "BLUE."

Adjusting the Picture

- 1. Use the MENU button to select the mode to be adjusted.
 - When the MENU button is pressed, the MENU mode is indicated for about 30 seconds. Press the ADJUSTMENT ▼/▲ buttons to select "RGB 1 ADJ.", then press the ENTER button.

2. Adjust the Picture

- Press the ADJUSTMENT ▼/▲ buttons to highlight yellow the picture adjustment item you want to adjust.
- Press the ADJUSTMENT
 ↓ buttons to move the "I mark of the selected adjustment item to the desired setting.
- The adjustment mode is displayed for about 30 seconds.

Description of Adjustment Items

Selected item	ADJUSTMENT button	ADJUSTMENT ► button			
PICTURE	For less contrast	For more contrast			
BRIGHT	For less brightness	For more brightness			
RED	For weaker red	For stronger red			
BLUE	For weaker blue	For stronger blue			
COLOR	For less color intensity	For more color intensity			
TINT	Skin tones become purplish	Skin tones become greenish			
SHARPNESS	For less sharpness For more sharpness				
RESET	All RGB Video Adjustment items are returned to the factory preset settings.				
		nt items, select "RESET" in nd press the ENTER button.			

3. Display only the item to adjust.

- Press the ADJUSTMENT ▼/▲ buttons to highlight yellow the picture adjustment item you want to adjust. If you press the ENTER button at this time, only the selected item will be displayed.
- Press the ADJUSTMENT
 ↓ buttons to move the " I mark of the selected adjustment item to the desired setting.

3 FixYourDl The adjustment mode is displayed for about 30 seconds AMPS AND ACCESSORIES Notes:

- When a VIDEO signal input has been selected, only "PICTURE," "BRIGHT," "COLOR," "TINT" and "SHARPNESS" can be adjusted.
- TINT only appears in NTSC 3.58 mode.
 - 4. Press the MENU button anytime to exit **RGB ADJ.**

AUDIO	
BALANCE TREBLE BASS RESET	0 L R 0 - 4 + 0 - 4 + 0 - 4 +
▲▼: S E L . ●►: A D J .	MENI: E N D

- The projector's audio is factory preset to the standard setting. However, you can adjust it to suit your own preference with the ADJUSTMENT buttons on the projector or the remote control.
- You can adjust the BALANCE, TREBLE and BASS.
- To return to the factory preset mode, press the AD-JUSTMENT ▼/▲ buttons to select "RESET", then press the ENTER button.
- Press the MENU button to select the normal screen mode.

Adjusting the Audio

- Press the MENU button.
- Select "AUDIO" with the ADJUSTMENT \bigvee/\blacktriangle buttons. Then press the ENTER button to change to the picture indicated on the left.
- Select "BALANCE," "TREBLE" or "BASS" with the AD-JUSTMENT ▼/▲ buttons. Adjust the mode you want with the ADJUSTMENT </
- To return to the factory preset mode, press the AD-JUSTMENT ▼/▲ buttons to select "RESET", then press the ENTER button.

Description of Adjustment Items

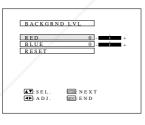
Selected items	ADJUSTMENT	ADJUSTMENT button
BALANCE	Increased audio from the left speaker	Increased audio from the right speaker
TREBLE	Weaker treble	Stronger treble
BASS	Weaker bass	Stronger bass



SYSTEM SETUP RESOLUTION 800×600 HOR FREQ 37.9 KHz VERT FREQ 60Hz LAMP USAGE 1234H REMOTE MOUSE [AT] ISEL. ISEL.

	800×600
HOR FREQ	37.9 KHz
VERT FREQ	6 0 Hz
LAMP USAGE	1234H
REMOTE MOUSE	[AT]





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Setting Up the System

Using this function, you can check the input signal and lamp usage time, and select the remote mouse.

Checking the system and lamp usage time

- Press the MENU button. Select "SYSTEM SETUP" with the ADJUSTMENT ▼/▲ buttons. Then press the ENTER button to change to the picture indicated on the left.
- The current system conditions, including the lamp usage time, will be displayed on the screen.
- Press the MENU button to select the normal screen mode.

Note:

 In the video screen, the resolution and frequency settings will not be displayed.

Selecting the Remote Mouse

- Separate settings can be selected for RGB 1 and RGB 2.
- Use the INPUT SELECT buttons to select DATA 1 (RGB 1) or DATA 2 (RGB 2).
- Press the MENÚ button.
- Select SYSTEM SETUP with the ADJUSTMENT ▼/▲ buttons. Then press the ENTER button.
- Select "REMOTE MOUSE" and then select either "[AT]" or "[98] "with the ADJUSTMENT ◄/► buttons.
- Select [AT] when using IBM compatibles and Apple Macintosh series.
- Select [98] when using NEC PC98 series (for Japan).
- Press the MENU button to select the normal screen mode.

Background level

- The Background Level adjustment can be used to adjust the picture white balance for the selected Video Input Source.
- Optimal image quality can be achieved by adjusting the white portion of the picture to obtain the best color for the selected source.

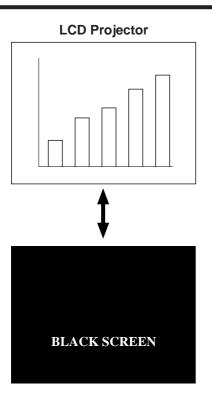
Adjusting the BACKGROUND LEVEL

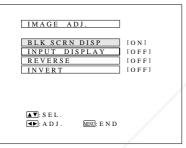
- Press the MENU button.
 Select "BACKGRND LVL" with the ADJUSTMENT ▼/▲ buttons. Then press the ENTER button to change the picture as
- indicated on the left.
 Select "RED" or "BLUE" with the ADJUSTMENT ▼/▲ buttons. Adjust the mode you want with the ADJUSTMENT
 buttons.
- To return to the factory preset mode, press the ADJUST-MENT ▼/▲ buttons to select "RESET" then press the ENTER button.
- Press the MENU button to select the normal screen mode.

Note:

 To display only the item that you want to adjust, press the ENTER button after selecting the item with the ADJUSTMENT ▼/▲ buttons. Then adjust the item with the ADJUSTMENT ◄/► buttons.

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Using the Black Screen Function

This projector is equipped with a Black Screen Function. This function can be used to black out the presentation image.

 Press the BLACK SCREEN button on the projector or the remote control to display the black screen. Press the BLACK SCREEN button again to return to the presentation image.

Note:

• When "BLK SCRN DISP" is set to OFF, the On-Screen Display ("BLACK SCREEN") will not appear during black screen. See below.

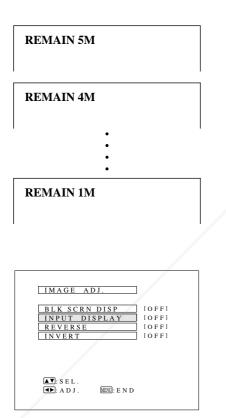
Black Screen On-Screen Display override

The On-Screen Display ("BLACK SCREEN") that appears during black screen can be turned off. When "BLK SCRN DISP" is set to OFF, the On-Screen Display will not appear during black screen.

 Press the MENU button. While the MENU screen is displayed, press the ADJUSTMENT ▼/▲ buttons to select "IMAGE ADJ." Then press the ENTER button to display the IMAGE ADJ. screen as shown. Press the ADJUSTMENT ▼/▲ buttons to select BLK SCRN DISP and press the ADJUST-MENT



IMAGE ADJ.	
BLUE SCREEN	[ON]
BLK SCRN DISP	[OFF]
INPUT DISPLAY	[O F F]
SYSTEM	
REVERSE	[OFF]
INVERT	[O F F]
▲▼: SEL.	
■ : A D J . MENI: E N D	



Using the Blue Screen Function

This projector is equipped with a Blue Screen function that will turn the screen blue when the video input terminal is not connected to anything, or the video component is turned off.

- Press the MENU button. While the MENU screen is displayed, press the ADJUSTMENT V/▲ buttons to select "IMAGE ADJ." Then press the ENTER button to display the IMAGE ADJ. screen as shown. Press the ADJUSTMENT V/▲ buttons to select "BLUE SCREEN," and press the ADJUST-MENT
 MENT
 ▶ buttons to select "ON" or "OFF". Press the MENU button to return to the normal screen.
- When the Blue Screen function is on, the screen will turn blue when no video signal is being input through the video input terminal.
- When the Blue Screen function is on, and no video signal is input via the input terminal for more than 15 minutes, the power is automatically turned off.
- The indicators appear as shown each minute before the power is turned off, from five minutes before until one minute before.

Notes:

- The Blue Screen Function does not operate in RGB mode.
- When the power is turned off, the POWER indicator will light red.
- To turn the power on again, press the POWER button to set it to OFF, then press it again to set it to ON.

Using the Input Mode On-Screen Display Override Function

The On-Screen Displays that appear during input select ("RGB 1,024 \times 768, 75 Hz," etc.) can be turned off. Once INPUT DISPLAY is turned off, the On-Screen Displays will not appear even if the INPUT CHECK button on the remote control is pressed.

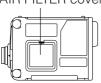
- Press the MENU button. While the MENU screen is displayed, press the ADJUSTMENT V/▲ buttons to select "IMAGE ADJ." Then press the ENTER button to display the IMAGE ADJ. screen as shown. Press the ADJUSTMENT V/▲ buttons to select "INPUT DISPLAY," and press ADJUST-MENT
 MENT
- When OFF is selected, the On-Screen Display ("RGB 1,024 \times 768, 75 Hz," etc.) will not be displayed during input select.



Air Filter Maintenance

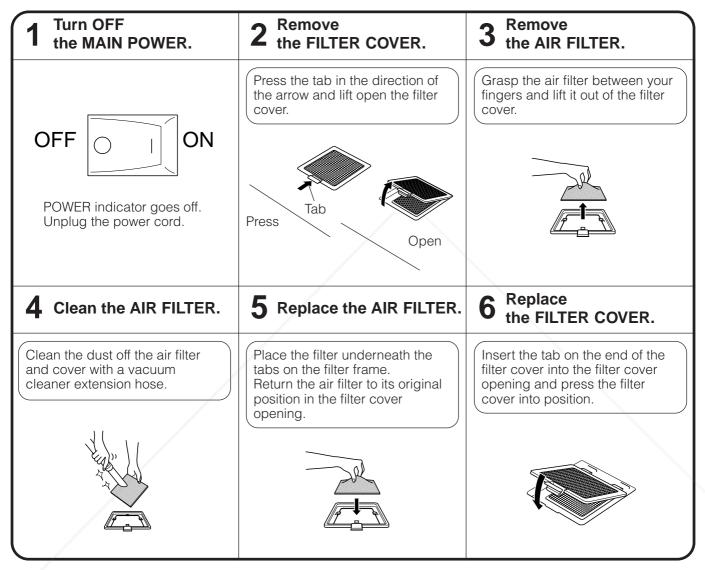
Bottom Air Filter





- The air filter should be cleaned every 100 hours of use. Clean the filter more often when the projector is used in a dusty or smoky location.
- Have your nearest Authorized Sharp Industrial LCD Products Dealer or Service Center exchange the filter (PFILD0069CEZZ) when it is no longer possible to clean it.

Cleaning and Replacing the Filter



Note:

Be sure the AIR FILTER COVER is securely installed. The power cannot be turned on unless it is correctly installed.

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Lamp/Maintenance Indicators

Lamp

POWER

-[[]-

The lamp operating life differs, depending on the usage environment. It is recommended that the lamp be replaced after 2,000 cumulative hours of use.

• When the lamp is nearing the end of its operating life, the picture and color quality will deteriorate. At this point, replace the lamp. (See pages 31 and 32.)

Note: The lamp usage time can be checked with the On-Screen display. (See page 26.)

- If the new lamp does not light after replacement, take your projector to the nearest Authorized Sharp Industrial LCD Products Dealer or Service Center for repair.
- Intense light hazard. Do not attempt to look into the aperture and lens while the projector is operating.

Maintenance Indicators

LAMP

-[__]-

- The warning lights on the projector indicate problems inside the projector.
- There are two warning lights: a TEMPERATURE indicator which warns that the projector is too hot, and a LAMP REPLACEMENT indicator which lets you know when to change the lamp.

LAMP REPLACEMENT TEMPERATURE indicator indicator

TEMP.

• If a problem occurs, either the TEMPERATURE indicator or the LAMP REPLACEMENT indicator will light up red, and the power will shut off. After turning off the power, follow the procedures given below.

Warning Indicator	Symptom	Problem	Possible Solution				
TEMPERATURE	The internal	Blocked air intake.	Relocate projector to a proper location.				
indicator	temperature is abnormally high.	Clogged air filter.	Clean the filter. (See page 29.)				
		Cooling fan breakdown.Internal circuit failure.	 Take the projector to your nearest Autho- rized Sharp Industrial LCD Products Dealer or Service Center for repair. 				
LAMP REPLACE-	The lamp does not	Burnt-out lamp.	Carefully replace the lamp.				
MENT indicator	light up.	Lamp circuit failure.	 Take the projector to your nearest Autho- rized Sharp Industrial LCD Products Deale or Service Center for repair. 				

Notes:

- If the TEMPERATURE indicator comes on, follow the above possible solutions and then wait until the projector has cooled down completely before turning the power back on. (At least 5 minutes.)
- When the power is turned off and then turned on again, as during a brief rest, the LAMP REPLACEMENT indicator may be triggered, preventing the power from going on. When this happens, take the power plug out of the AC outlet and put it back in again.

Before Calling for Service

Problem	Check
No picture and no sound.	 The projector AC cord is not plugged into the AC wall outlet. The main power switch is not pressed. The input is wrong. (See pages 22 and 23.) Cables improperly connected to rear panel of the projector. (See pages 14, 15, 16 and 17.) Remote control batteries have run down. (See page 7.) The optional cable for the remote control is improperly inserted. The main power of the remote control is not turned on. The remote control's MOUSE/ADJUSTMENT switch is set to MOUSE.
Sound to head bill roopidure appears.	 Cables improperly connected to rear panel of the projector. (See pages 14, 15, 16 and 17.) The BRIGHTNESS and PICTURE adjustments are set to minimum position. (See page 24.) On-Screen Display ("BLACK SCREEN") is turned off and Black Screen function is turned on, creating a black image. (See page 27.)
Color is faded or poor.	The COLOR and TINT adjustments are not correct. (See page 24.)
Picture is blurred. STED SO	 Adjust the focus. (See page 9.) The projection distance is too long or too short to allow for proper focus. (See page 10.)
Picture appears but no sound is heard.	 Cables improperly connected to rear panel of the projector. (See pages 14, 15, 16 and 17.) Volume is set to minimum. (See page 23.)
An unusual sound is occasionally heard from the cabinet.	• If the picture is normal, the sound is due to cabinet shrinkage caused by temperature changes. This will not affect operation or performance.
Maintenance indicator lights up.	Refer to "Lamp/Maintenance Indicators" on page 30.

Lamp Replacement

The lamp in the projector has a finite service life. The lamp operating life differs, depending on the usage environment. It is recommended that the lamp be replaced after 2,000 cumulative hours of use. The lamp usage time can be checked at the On-Screen display. (See page 26.)

• Replace the lamp when the picture starts becoming dark and the color contrast deteriorates.

Purchase a replacement UHP lamp unit (lamp/cage module) of the current type BQC-XGNV2U//1 from your nearest Authorized Sharp Industrial LCD Products Dealer. Then change the lamp by carefully following the instructions below.

If you wish, you may bring the projector to your nearest Authorized Sharp Industrial LCD Products Dealer.

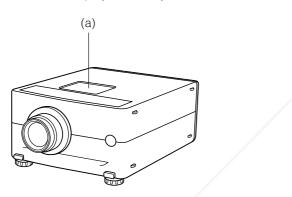
IMPORTANT NOTE TO U.S. CUSTOMERS:

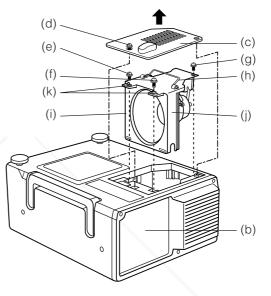
The lamp included with this projector is backed by a 90-day parts and labor limited warranty. All service of this projector under warranty, including lamp replacement, must be obtained through an Authorized Sharp Industrial LCD Products Dealer or Service Center. For the name of the nearest Authorized Sharp Industrial LCD Products Dealer or Service Center, please call toll-free: 1-800-BE-SHARP (1-800-237-4277). U.S.A. ONLY

How to Change the Lamp

Precaution:

• Take care not to touch either the glass surface of the lamp cage or the inside of the projector with your bare hands.





Removing the lamp unit (see figure)

- 1. Press the power button (a) and turn the instrument off. After the cooling fan stops, turn off the MAIN POWER switch (b). Remove the power cord from the AC outlet.
- 2. The lamp may be extremely hot. Wait at least an hour after the power cord is disconnected before carrying out the following procedures.
- 3. Turn over the projector and unfasten the user service screw (d) that secures the lamp cage cover (c) as shown in the above diagram. Then remove the lamp cage cover by pulling it in the direction of the arrow.

Note:

- When the lamp cage cover (c) has been removed, check that the surface of the lamp cage (i) has fully cooled before proceeding with step 4.
 - 4. After the lamp cage (i) has sufficiently cooled, remove securing screws (e), (f) and (g) from the lamp cage.
 - 5. Hold the lamp cage (i) by the handle (h) and pull it towards you.



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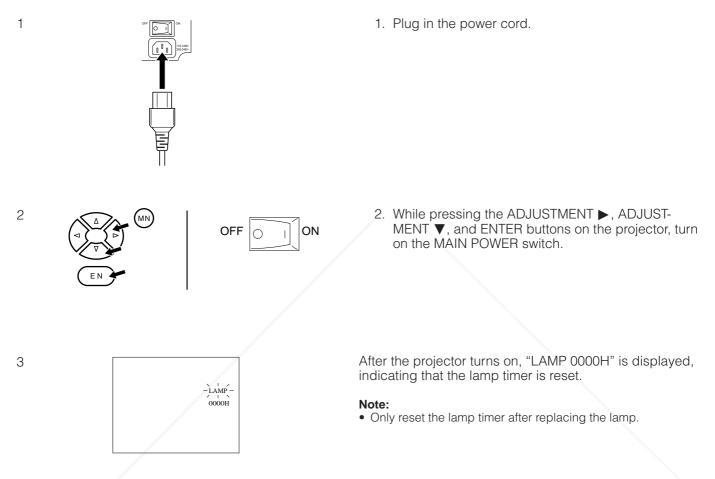
Installing the lamp unit

- 1. Hold the lamp cage (i) by the handle (h) and press it in firmly while making sure that grooves on the side of the lamp cage (j) are properly aligned with the projections inside the lamp cage compartment, and that the holes on the top of the lamp cage (k) are aligned with the screw holes on the projector.
- 2. Tighten screws (e), (f), (g) and (d), then perform the above instructions in the reverse order.

Caution:

• Because some parts may not be sufficiently cooled, be sure to remove the lamp cage by the handle while taking care not to touch the metallic areas.

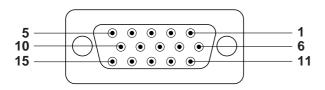
Resetting the lamp timer





Analog RGB 1 and 2 Signal Input and Analog RGB Output Terminal: 15-pin mini

D-sub female connector



Computer Input

- Analog 1. Video input (red)
- 2. Video input (green)
- 3. Video input (blue)
- 4. Reserve input 1
- 5. Composite sync (Mac only)
- 6. Earth (red)
- 7. Earth (green)
- 9. Not connected 10. GND

8. Earth (blue)

- 11. GND 12. Bi-directional data
- 13. Horizontal sync signal
- 14. Vertical sync signal
- 15. Data clock

Mouse Input Terminal (for IBM/Mac): 9-pin D-sub female connector

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

Mouse Input Terminal (for NEC PC98 series for Japan): 9-pin mini DIN connector

1/0

Input

Input

Input

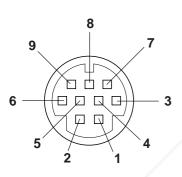
Input

Input

Input

Input

Input



n No.	Signal
1	+5V
2	XA
3	XB
4	YA
5	YB
6	LEFT
7	NC
8	RIGHT
9	GND

Reference
Computer output
Not connected
Computer output
Computer output

RS-232C terminal: 9-pin D-sub male connector

Pin

	Pin No.	Signal CD	Name	I/O	Reference Not connected
1 5	2	RD SD	Receive Data Send Data	Input Output	Connected to internal circuit Connected to internal circuit
	4	ER		Output	Not connected
\sim \circ \circ \circ \circ \circ \circ	5 6	SG DR	Signal Ground Data Set Ready	Output	Connected to internal circuit Not connected
EixYourDLP.com	7 8	RS CS	Request to Send	Output	Connected to internal circuit Not connected
6 999000	9	CI	ant con	~ 101	Not connected
Discount-	Ner	CII	dnt.con	n (8)	00) 281-8860
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1. PC control

A personal computer can be used to control the projector by connecting the supplied computer control cable to the PC CONTROL 1 terminal on the projector and an RS-232C cable (cross type) (not supplied) to the computer, and then connecting the RS-232C cable to the computer control cable. (RS-232C does not function when connected to PC CONTROL 2. See page 15 for connection.)

2. Communication conditions

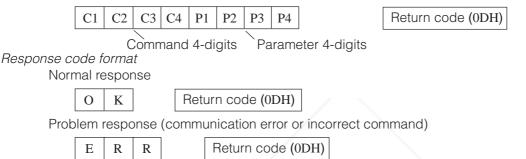
Set the serial port settings of the computer to match that of the table below.

Signal format:	Conforms to RS-232C standard.
Baud rate:	9,600 bps
Data length:	8 bits
Parity bit:	NON
Stop bit:	1 bit
Flow control:	None

3. Basic format

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

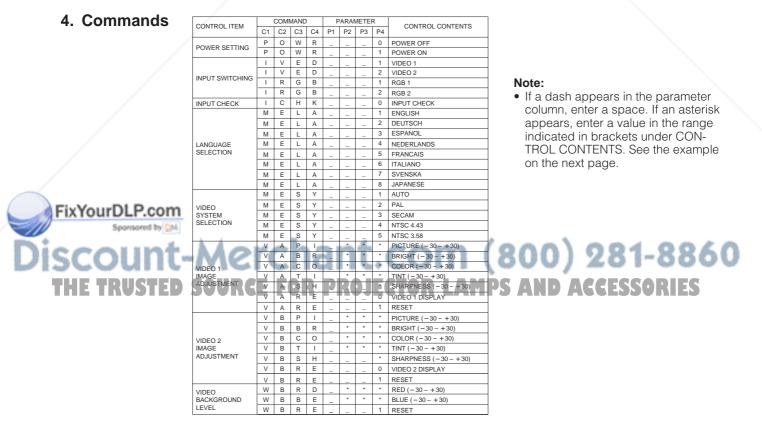
Command format



When more than one code is being sent, send each command only after the OK response code for the previous command from the unit is verified.

Note:

• Using the computer control function of the unit, the liquid crystal projector conditions cannot be read to the computer. Therefore, confirm the conditions by transmitting the display commands for each adjustment menu and checking the conditions with the On-Screen Display. If the unit receives a command other than a menu display command, it will execute the command without displaying the On-Screen Display.



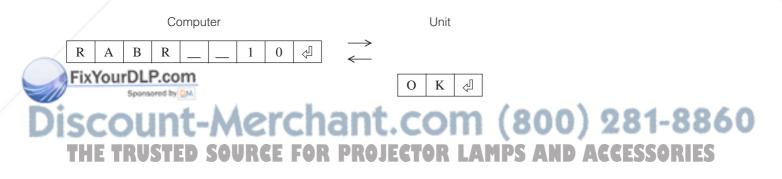
CONTROL ITEM		COM	MAND)	F	ARA	IETE	R	CONTROL CONTENTS	
CONTROLITEM	C1	C2	C3	C4	P1	P2	P3	P4		
	V	0	L	Α	_	_	*	*	VOLUME (0 - 60)	
VOLUME ADJUSTMENT	М	U	Т	Е	_	_	_	0	MUTE OFF	
ADJUSTMENT	М	U	Т	Е	_	_	_	1	MUTE ON	
	Α	Α	В	L	_	*	*	*	BALANCE (-30-+30)	
	Α	Α	Т	Е	-	*	*	*	TREBLE (-30-+30)	
	Α	А	В	Α	-	*	*	*	BASS (-30-+30)	
ADJUSTMENT	Α	А	R	Е	-	-	_	0	AUDIO DISPLAY	
	Α	Α	R	Е	_	_	_	1	RESET	
	R	Α	Р	I	_	*	*	*	PICTURE (-30-+30)	
	R	Α	В	R		*	*	*	BRIGHT (-30-+30)	
	R	Α	R	D	_	*	*	*	RED (-30-+30)	
RGB 1 ADJUSTMENT	R	Α	В	E	_	*	*	*	BLUE (-30 - +30)	
	R	A	R	E	_	_	_	0	RGB DISPLAY	
	R	A	R	E	_	_	_	1	RESET	
	R	В	Р	I	_	*	*	*	PICTURE (-30-+30)	
	R	В	В	R		*	*	*	BRIGHT (-30 - +30)	
	R	В	R	D		*	*	*	RED (-30-+30)	
RGB 2 ADJUSTMENT	R	В	В	E	_	*	*	*	BLUE (-30 - +30)	
	R	В	R	E				0	RGB DISPLAY	
	R	В	R	E				1	RESET	
	1	N	С	L		*	*	*	CLOCK (-60-+60)	
	Ι	N	P	н	_	*	*	*	PHASE (-60-+60)	
RGB INPUT	1	A	н	Р	_	*	*	*	H-POS (-60 - +60)	
ADJUSTMENT		A	V	P.	_	*	*	*	V-POS (-30 - +30)	
	1	A	R	E	_			0	RGB INPUT DISPLAY	
		A	R	E	_	-	_	1	RESET	
	· ·	M	В	E	_	_	_	0	BLUE SCREEN OFF	
		M	В	E	_	_	_	1	BLUE SCREEN ON	
		M	В	ĸ	_	_	_	0	BLACK SCREEN OFF	
		M	В	ĸ	_	-	_	1	BLACK SCREEN ON	
	1	M	D		_	-		0	INPUT DISPLAY OFF	
SCREEN SETTING	- 	M	D	-	_	-	_	1	INPUT DISPLAY ON	
	1	M	R	E	_	-	_	0	REVERSE OFF	
	-	M	R	E	_	-	_	1	REVERSE ON	
		M		N	_	-	_	0	INVERT OFF	
					_	-	_	1	INVERT OFF	
		M		N	-	-	-		INVERTON	
VIDEO CONFIRMATION	S	Y	S	Е	-	-	-	0	DISPLAY	
ON-SCREEN	Т	М	В	0		_		0	BLACK SCREEN DISPLAY OFF	
DISPLAY SETTING	Т	М	В	0	_	_	_	1	BLACK SCREEN DISPLAY ON	
MOUSE	R	E	М	0	_	_	_	1	REMOTE MOUSE AT	
ADJUSTMENT	R	E	М	0	_	_	/	2	REMOTE MOUSE 98	
SCREEN MODE	М	Е	М	А	_	-/	_	0	MEMORY RELEASE	
MEMORY	Μ	E	М	Α	_	/_	_	*	MEMORY SELECTION (1 - 7)	

Note:

• RGB INPUT ADJUSTMENT can only be set in the displayed computer mode.

Example:

When BRIGHT of RGB 1 IMAGE ADJUSTMENT is set to - 10.



Wired Remote Control Terminal Specifications

1. Specifications of wired remote control input

- 3.5ø minijack
- External: +5V (1A)
- Internal: GND

2. Function and transmission codes

No.	o. Control Item System Code				Data Code External Code						le					
	(Function)	C1	C2	СЗ	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15
1	VOLUME UP	1	0	1	1	0	0	0	1	0	1	0	0	0	1	0
2	VOLUME DOWN	1	0	1	1	0	1	0	1	0	1	0	0	0	1	0
3	POWER ON	1	0	1	1	0	0	1	1	0	1	0	1	0	1	0
4	POWER OFF	1	0	1	1	0	0	1	1	0	1	0	0	1	1	0
5	CURSOR UP 1	1	0	1	1	0	0	0	1	1	1	0	0	1	1	0
6	CURSOR DOWN ↓	1	0	1	1	0	1	0	1	1	1	0	0	1	1	0
7	ADJUST UP →	1	0	1	1	0	1	1	1	1	0	0	1	0	1	0
8	ADJUST DOWN ←	1	0	1	1	0	0	0	0	0	1	0	1	0	1	0
9	MUTE	1	0	1	1	0	1	1	1	0	1	0	0	0	1	0
10	MENU	1	0	1	1	0	0	0	1	0	0	0	1	1	1	0
11	VIDEO 1	1	0	1	1	0	0	1	0	0	1	1	0	0	1	0
12	VIDEO 2	1	0	1	1	0	1	1	0	0	1	1	0	0	1	0
13	RGB1	1	0	1	1	0	1	0	1	0	1	1	0	0	1	0
14	RGB 2	1	0	1	1	0	0	1	1	0	1	1	0	0	1	0
15	ENTER	1	0	1	1	0	1	1	1	0	1	0	1	0	1	0
16	INPUT CHECK	1	0	1	1	0	1	1	0	1	1	0	0	0	1	0
17	BLACK SCREEN	1	0	1	1	0	1	0	0	1	0	1	1	0	1	0

Note:

• To operate the MOUSE, L-CLICK and R-CLICK functions through the wired remote control input, connect the cable from the wired remote control (supplied) terminal on the projector to the remote control. The codes for these functions are complex and are, therefore, not listed here.

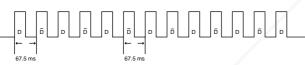
Wired remote control function code

LSE	3												Μ	SB
C1 ←	- Sy	stem C	ode -	→ C5	C6	C6		Data	a Code		→	C13	C14	C15
1	0	1	1	0	*	•	•	· ·	· ·	•	*	•	1	0

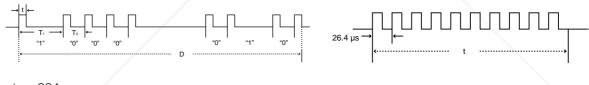
- System codes C1 to C5 are fixed at "10110".
- Codes C14 and C15 are reverse confirmation bits, with "10" indicating "Front" and "01" indicating "Rear".

3. Sharp remote control signal format

- 1. Transmission format
 - a. 15-bit format



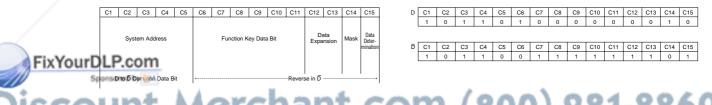
- 2. Wave form of output signal
 - Output using Pulse Position Modulation



- t = 264 µs
- To = 1.05 ms
- T1 = 2.10 ms
- Pulse carrier frequency = 455/12 kHz
- Duty ratio = 1:1
- 3. Transmission control code

a. 15 bit

b. Example of Reverse D to $\overline{\mathsf{D}}$



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Specifications

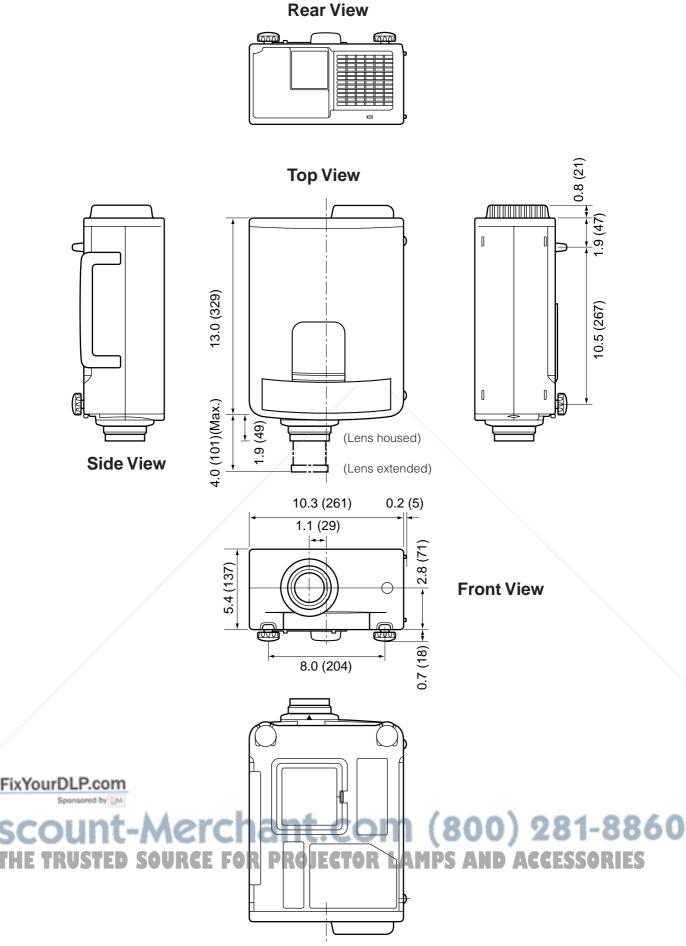
Product Type Model Video system Display method LCD panel Lens Projection lamp Contrast ratio Video input signal S-video input signal Horizontal resolution Audio output Computer RGB input signal	LCD Projector XG-NV3XU PAL/SECAM/NTSC 3.58/NTSC 4.43 LCD panel × 3, RGB optical shutter method Panel size: 1.3" (20.0 [H] × 26.6 [W] mm) Display method: Translucent TN liquid crystal panel Drive method: TFT (Thin Film Transistor) Active Matrix panel No. of dots: 786,432 dots (1,024 [H] × 768 [V]) 1–1.6 zoom lens, F2.5 to 3.6, f = 47 to 76 mm 120 W UHP lamp 200:1 RCA Connector: VIDEO, composite video, 1.0 Vp-p, sync negative, 75 Ω terminated RCA Connector: AUDIO, 0.5 Vrms more than 22 k Ω (stereo) 4-pin mini DIN connector Y (luminance signal): 1.0 Vp-p, sync negative, 75 Ω terminated C (chrominance signal): Burst 0.286 Vp-p, 75 Ω terminated 520 TV lines (video input), 700 TV lines (S-video input) 2 W + 2 W (stereo) Video signal 15-PIN MINI D-SUB CONNECTOR (RGB 1, 2): RGB separate type analog input: 0–0.7 Vp-p, positive, 75 Ω terminated STEREO MINJACK: AUDIO, 0.5 Vrms, more than 22 k Ω (stereo) HORIZONTAL SYNC. SIGNAL: TTL level (positive/negative) or composite sync (Apple only) VERTICAL SYNC. SIGNAL: Same as above
Computer Control Cable (Supplied) RS-232C input terminal Mouse input terminal (for IBM/Mac) Mouse input terminal (for PC98)	9-pin D-sub male connector for controlling personal computer 9-pin D-sub female connector for wireless mouse 9-pin mini DIN connector for wireless mouse
Speaker system Rated voltage Input current Rated frequency Power consumption Operating temperature Storage temperature Cabinet I/R Carrier frequency Laser Pointer of Remote Control Dimensions (W × D × H) Weight Supplied accessories	2.8" \times 1.6" (7 \times 4 cm) oval \times 2 AC 110-120/200-240 V 1.8 A/1.0 A 50/60 Hz 220 W 41°F to 104°F (+5°C to +40°C) - 4°F to 140°F (-20°C to +60°C) Plastic 40 kHz <i>Wave length</i> 670 nm <i>Max. output</i> 1 mW Class II Laser Product 10.3" \times 13.0" \times 5.4" (261 \times 329 \times 137 mm) (main body only) 10.5" \times 15.7" \times 6.1" (266 \times 399 \times 155 mm) (including lens, adjuster legs and projecting parts) 14.6 lbs. (6.6 kg) Remote control unit, Four AA batteries, Extra air filter, RGB signal cable (9.8', 3 m), Macintosh adaptor, Computer control cable (3.3', 1 m), Mouse control cable for IBM PS/2 (5.9", 15 cm), Mouse control cable for Mac (5.9", 15 cm), Mouse control cable (9.8', 3 m), Computer audio cable, AC cord, Lens cover (installed)
Replacement parts	Lamp unit (Lamp/cage module) (BQC-XGNV2U//1), Remote control (RRMCG1414CESA), Air filter (PFILD0069CEZZ), RGB signal cable (QCNW-4910CEZZ), Macintosh adaptor (QPLGJ1512CEZZ), Mouse control cable for IBM PS/2 (QCNW-4754CEZZ), Mouse control cable for Mac (QCNW-4755CEZZ), Mouse control cable (QCNW-4620CEZZ), Computer control cable (CTANZ0711CE01), Computer audio cable (QCNW-4870CEZZ), AC cord (QACCU5013CEZZ),
Our projector uses LCD (Liquid Crystal Displa	y) panels. These very O. This will not affect the picture quality or the life expectancy of the unit.

Our projector uses LCD (Liquid Crystal Display) panels. These very **U** This will not affect the picture quality or the life expectancy of the unit, sophisticated panels contain 786,432 pixels (× RGB) TFTs (Thin Film Transitors). If you have any questions about this matter, please call toll free 1-800. DF CULPD (1.900,027,4077)

If you have any questions about this matter, please call toll free 1-800-BE-SHARP (1-800-237-4277). Cameras, there are certain ant must conform to. This unit ble tolerances which may result

As with any high technology electronic equipment such as large screen TVs, video systems and/or video cameras, there are certain acceptable tolerances that the equipment must conform to. This unit has some inactive TRTs within acceptable tolerances which may result in illuminated or inactive dots on the picture screen.

Specifications are subject to change without notice.



Bottom View

[Units: inches (mm)]



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