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SHARP_®

OPERATION MANUAL

MODEL PG-M10X PG-M10S

DIGITAL MULTIMEDIA PROJECTOR

Chart of

Colligit vo Fede



This equipment complies with the requirements of Directives 89/336/EEC and 73/23/EEC as amended by 93/68/ EEC.

Dieses Gerät entspricht den Anforderungen der EG-Richtlinien 89/336/EWG und 73/23/EWG mit Änderung 93/68/EWG.

Ce matériel répond aux exigences contenues dans les directives 89/336/CEE et 73/23/CEE modifiées par la directive 93/68/CEE.

Dit apparaat voldoet aan de eisen van de richtlijnen 89/336/EEG en 73/23/EEG, gewijzigd door 93/68/EEG.

Dette udstyr overholder kravene i direktiv nr. 89/336/EEC og 73/23/EEC med tillæg nr. 93/68/EEC.

Quest' apparecchio è conforme ai requisiti delle direttive 89/336/EEC e 73/23/EEC, come emendata dalla direttiva 93/68/EEC.

Η εγκατάσταση αυτή αντα οκρίνεται στις α αιτήσεις των οδηγιών της Ευρω αϊκής Ενωσης 89/336/ΕΟΚ και 73/23/ΕΟΚ, ό ως οι κανονισμοί αυτοί συμ ληρώθηκαν α ό την οδηγία 93/68/ΕΟΚ.

Este equipamento obedece às exigências das directivas 89/336/CEE e 73/23/CEE, na sua versão corrigida pela directiva 93/68/CEE.

Este aparato satisface las exigencias de las Directivas 89/336/CEE y 73/23/CEE, modificadas por medio de la 93/68/CEE.

Denna utrustning uppfyller kraven enligt riktlinjerna 89/336/EEC och 73/23/EEC så som kompletteras av 93/68/EEC.

Dette produktet oppfyller betingelsene i direktivene 89/336/EEC og 73/23/EEC i endringen 93/68/EEC.

Tämä laite täyttää direktiivien 89/336/EEC ja 73/23/EEC vaatimukset, joita on muutettu direktiivillä 93/68/EEC.

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 \Im or \bigoplus 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:

IMPORTANT:

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

Blue: Neutral

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

The wire which is coloured blue must be connected to the plug terminal which is marked N or coloured black.
The wire which is coloured brown must be connected to the plug terminal which is marked L or coloured red.
Ensure that neither the brown nor the blue wire is connected to the earth terminal in your three-pin plug.
Before replacing the plug cover make sure that:

• If the new fitted plug contains a fuse, its value is the same as that removed from the cut-off plug.

• The cord grip is clamped over the sheath of the mains lead, and not simply over the lead wires.

IF YOU HAVE ANY DOUBT, CONSULT A QUALIFIED ELECTRICIAN.

OPERATION MANUAL

IMPORTANT

For your assistance in reporting the loss or theft of your projector, please record the Serial Number located on the bottom of the projector and retain this information. Before recycling the packaging, please be sure that you have checked the contents of the carton thoroughly against the list of "Supplied Accessories" on page 8. Model No.: PG-M10X Serial No.:

Model No.: PG-M10S Serial No.:

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

1. WARRANTY

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

2. CONSUMER PRODUCT SAFETY ACT

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

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.



NO USER-SERVICEABLE PARTS EXCEPT LAMP UNIT. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



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

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

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

INFORMATION

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part **5 of the FDC 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.

ENGLISH

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.

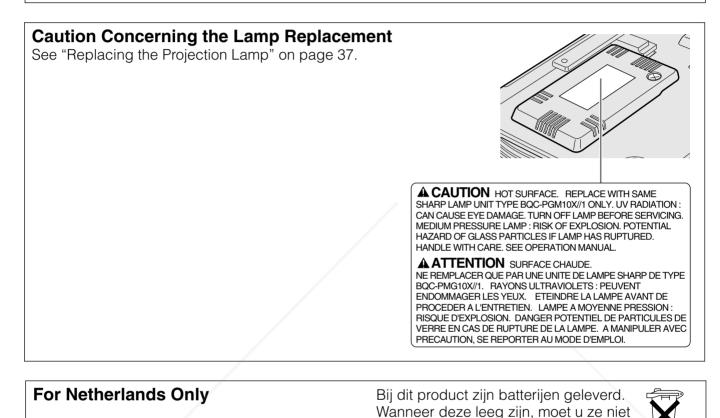
WARNING:

Basic Information & Preparations

S

The cooling fan in this projector continues to run for about 90 seconds after the projector is turned off. During normal operation, when turning the power off always use the **POWER ON/OFF** button on the projector or the remote control. Ensure the cooling fan has stopped before disconnecting the power cord.

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





weggooien maar inleveren als KCA.

Electrical energy can perform many useful functions. This product has been engineered and manufactured to ensure your personal safety. However, IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARD. In order not to defeat the safeguards incorporated into this Projector, observe the following basic rules for its installation, use and servicing. For your own protection and reliable usage of your 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.
- Never use strong detergents or solvents such as alcohol or thinner.
- Use a blower or lens paper to clean the lens, and be careful not to scratch or mar the lens.

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. 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. The openings should never be covered or 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.

Power Sources

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

12. Grounding or Polarization

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

Do not defeat the safety purpose of the plug.

- a. Two-wire type (mains) plug.
- b. Three-wire grounding type (mains) plug with a grounding terminal.

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

13. Power-Cord Protection

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

14. Lightning

For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the power cord. 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. If 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. If 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. Heat**

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

MPORTANT SAFEGUARDS

Installation

- For best results, use the product in a darkened room.
- Place the product on a flat, level surface in a dry area away from dust and moisture.
- Do not place the product in direct sunlight, near heaters or heat radiating appliances.
- Exposure to direct sunlight, smoke or steam can harm internal components.
- Handle the product carefully. Dropping or jarring can damage internal components.
- Do not place heavy objects on top of the product.

Power Supply

- The product is designed to operate on a power supply of 110 to 120 and 220 to 240 V 50/60 Hz AC. Ensure that your power supply fits these requirements before attempting to use the unit.
- For PLUGGABLE EQUIPMENT, the socket-outlet shall be installed near the equipment and shall be accessible.
- Disconnect the power code (mains lead) from the power outlet after using the product.
 Before disconnecting the power code, make sure the POWER indicator lamp is orange and not flashing.
- Handle the power code carefully and avoid excessive bending. A damaged cord can cause electric shock or fire.

Lamp Replacement

• Be sure to replace the lamp when the STATUS indicator comes on. If you continue to use the lamp after 1,100 hours of usage, the lamp will turn off (See page 37).

Fire and Shock Precautions

- Ensure that there is sufficient ventilation and that vents are unobstructed to prevent the buildup of heat inside the product. Allow at least 20 cm (7 ⁷/₈ inches) of space between the unit and surrounding obstructions.
- Prevent foreign objects such as paper clips and bits of paper from falling into the product. Do not attempt to retrieve any objects that fell into the product. Do not insert any metal objects such as a wire or screwdriver into the product. If something should fall into the product, immediately disconnect the power cable from the product and have the object removed by a Sharp Authorized LCD Projector Dealer or Service Center.
- Do not place any liquids on top of the product.
- Do not look into the lens while the product is on. Serious damage to your eyes could result.





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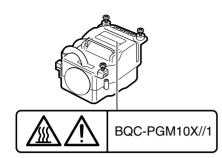
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Appendix

Menu Operation

Others





Caution Concerning the Lamp Unit

Potential hazard of glass particles if lamp has ruptured. Please have Sharp Authorized LCD Projector Dealer or Service Center replace lamp if rupture occurs. See "Replacing the Projection Lamp" on page 37.

95°F (+35°C) 41°F (+5°C)





Cautions Concerning the Setup of the Projector

For minimal servicing and to maintain high image quality, SHARP recommends that this projector be installed in an area free from humidity, dust and cigarette smoke. If the projector is used in these environments, the lens will need to be cleaned more often, and internal cleaning may become necessary. 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 LCD Projector Dealer or Service Center.

Notes on Operation

- The three marks shown on the left are caution labels for parts of the projector that emit intense heat during operation.
- The cooling fan (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 10 cm (3 ¹⁵/₁₆ inches) of space between the cooling fan (exhaust vents) and the 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 power cord from the wall outlet and wait until the projector has sufficiently cooled. Then turn on the power by plugging the power cord back in. This will return the projector to the normal operating condition.

For SHARP Assistance (U.S.A. only)

Sponsored by DM

If you encounter any problems during setup or operation of this projector, first refer to the "Troubleshooting" section on page 35. If this operation manual does not answer your question, please call toll free 1-888-GO-SHARP (1-888-467-4277) for further assistance. Or, send us an e-mail at local port@sharpsec.com. Our World Wide Web address is http://www.sharp-usa.com/. JECTOR LAMPS AND ACCESSORIES



Congratulations On Your Purchase Of The PG-M10X/PG-M10S Digital Multimedia Projector

The PG-M10X/PG-M10S is one of the smallest data projectors available today. Although small in size, the unit allows you to project precise images up to 200 inches (measured diagonally) from your PC or Macintosh desktop or notebook computer, VCR, document camera, laser disc player, DVD player, etc.

The unit can be operated from a standard table top. The unit can also be used to project images from behind the screen.

Main Features You'll Enjoy

Compatible with following various color systems:

- NTSC (U.S. and Canada standard)
- NTSC4.43 (Middle East standard)
- PAL (Western Europe standard)
- PAL-M (Brazil standard)
- PAL-N (Argentina standard)
- PAL (60 Hz)
- SECAM (France and Eastern Europe standard)
- (PG-M10X)

Small size, and weighing only 1.4 kg (3.1 lbs.) (PG-M10S)

Small size, and weighing only 1.4 kg (3.1 lbs.)

Using Digital Micromirror Device[™] (DMD[™]) by Texas Instruments we have developed an efficient design to improve light output efficiency. With this improvement, we can better reproduce the three basic colors (RGB) required for color reproduction on a single DMD. This results in superior brightness, smaller size and lighter weight.

• Sharp, clear images

There is no RGB color separation, and the spaces between the individual pixels are not noticeable. That means sharp and clear reproduction of small characters and figures. Take a closer look and notice the difference in quality!

 Outstanding sharp, clear, 3D like images with vivid colors when reproducing DVD video and other high picturequality data/video sources

Accurate gray scale reproduction makes for more natural image displays. DVD and other high quality image sources bring out the true image display quality of the unit.

· Screen not distorted to a trapezoid (keystoning) when projecting to the height of the line of vision

Because the projection position is already set to the height of the line of vision, there is no keystoning effect. Even when projecting above or under the height of the line of vision, image distortion (if any) can be adjusted using the keystone correction function.

• (PG-M10X)

Fully compatible with true XGA; support for SXGA using advanced intelligent compression technology

The advanced intelligent compression technology enables these projectors to present clear compression SXGA images without any line omission.

(PG-M10S)

Fully compatible with true SVGA; support for XGA using advanced intelligent compression technology

The advanced intelligent compression technology enables it to present clear compression XGA images without any line omission.

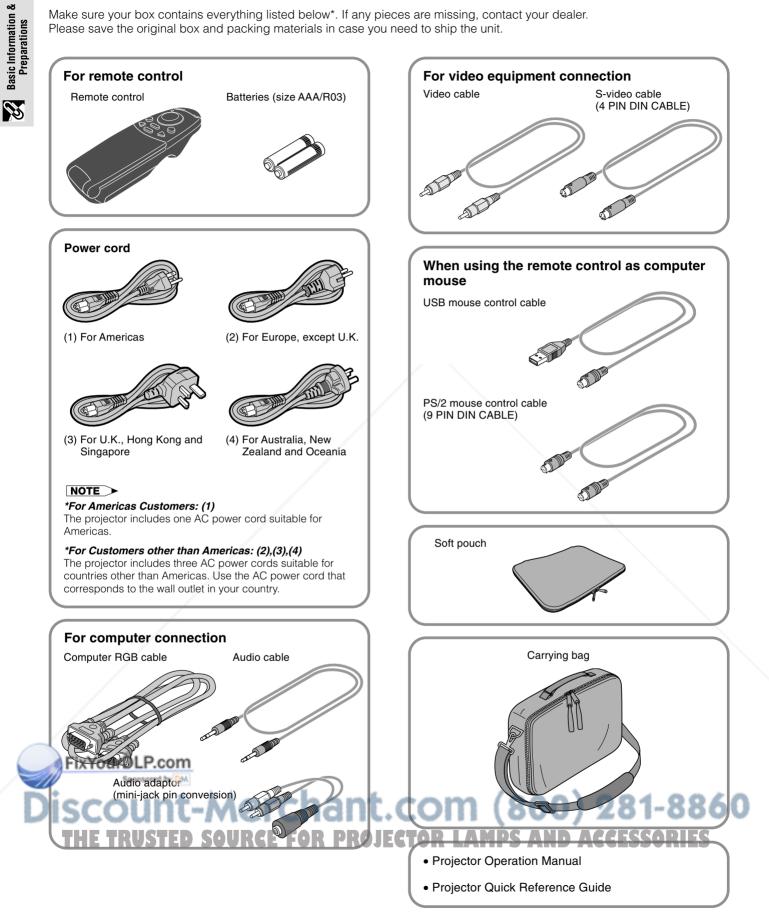
A remote control that can operate the PC

The supplied remote control both operates the unit and acts as a wireless mouse control to operate the PC connected to the unit. The wireless mouse control is available when the unit is connected to USB or PS/2 port of the personal computer.

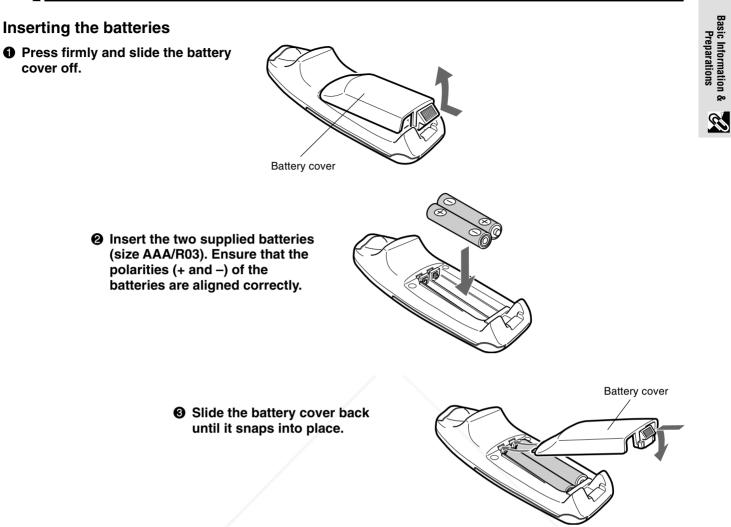
• The compact and easy to carry cabinet with its contemporary design compliments any office, boardroom, or auditorium.

FixYourDLP.com

Discount-Merchant.com (800) 281-8860 THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES Make sure your box contains everything listed below*. If any pieces are missing, contact your dealer. Please save the original box and packing materials in case you need to ship the unit.





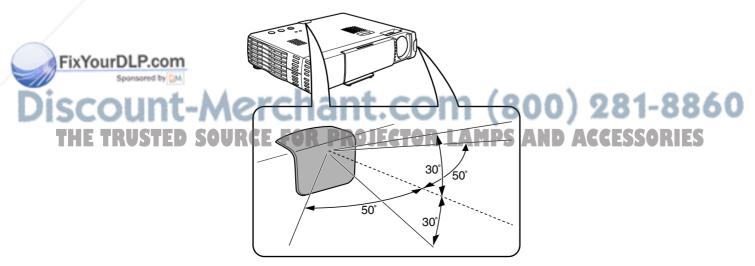


NOTE

- If the remote control gets wet, wipe it dry immediately.
- · Avoid excessive heat and humidity.
- If you will not be using the remote control for a long time, remove the batteries.
- Do not mix new and old or different types of batteries.
- There are operations that can only be carried out by remote control. Handle the remote control carefully.

Remote control effective range

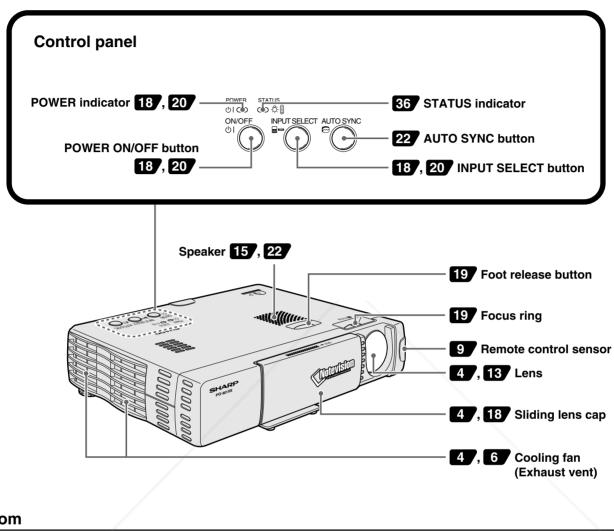
The remote control sensors are located on the front and back of the unit. The controllable range is 50 degrees horizontally and 30 degrees vertically relative to a line that is at a right angle to the remote control sensor. The working distance between the remote control and the unit's remote control sensor is limited to 4 meters (157 $\frac{1}{2}$).



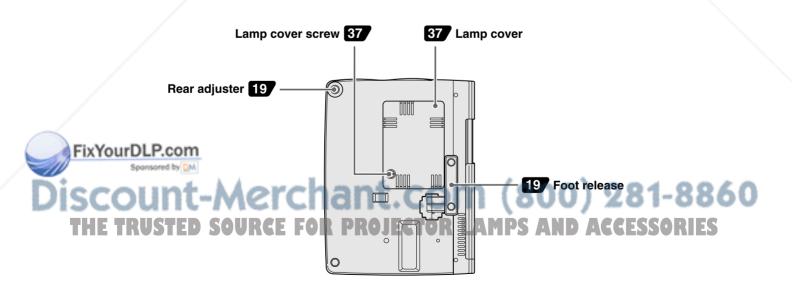
Part Names

Numbers next to the part names refer to the main pages in this manual where the topic is explained.

Top, front side panel view



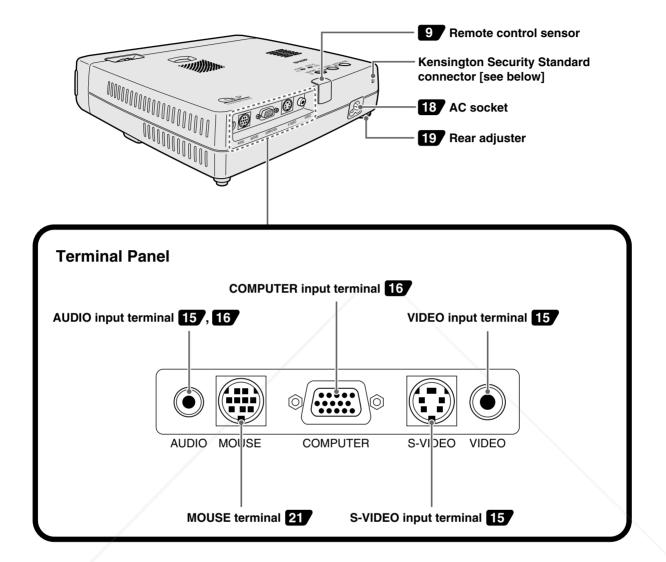
Bottom



Basic Information & Preparations

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Kensington Lock



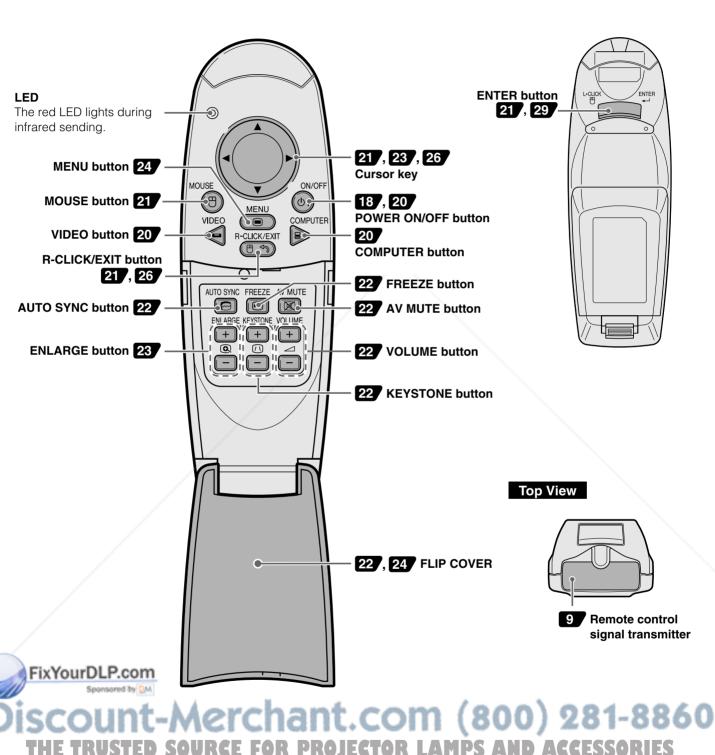
This projector has a Kensington Security Standard connector for use with a Kensington MicroSaver Security System. The logo $\widehat{\mathbf{R}}$ is trademarked and owned by Kensington Microware Inc.

Refer to the information that came with the system for instructions on how to use it to secure the projector.

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Remote Control



Rear View



The distance from the unit lens to the screen determines the size of the projected image. Therefore, you need to consider the unit placement in relationship to the screen prior to making the electrical and signal connections. Appropriate screen size and height are directly related to the unit's position and need to be evaluated.

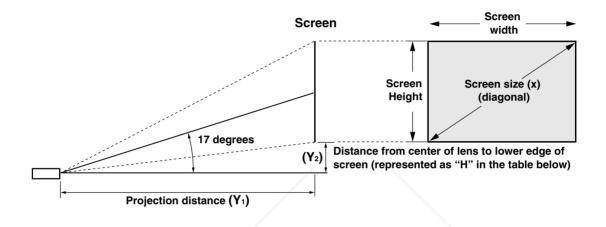
Тір

A non-glossy wall may be used as a substitute for a screen.

Positioning the unit

The projected image becomes larger as the distance between the unit and screen increases. The minimum image size is about 36 inches diagonally at a distance of about 1.2 m (approx. $47^{1}/_{4}$ inches) and the maximum size is approx. 200 inches at a distance of 6.8 m (approx. $267^{11}/_{16}$ inches) from the screen. Use the following information when you fix the position of the unit.

Projecting distance and image size



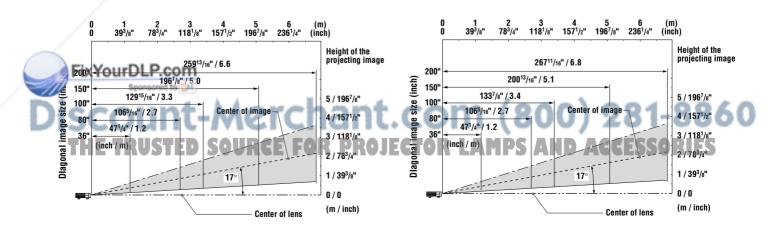
PG-M10X

Screen size	Projection distance	Dimension (H)
inches	inch / m	inch / cm
36	471/4" / 1.2	3 ¹¹ / ₁₆ " / 9.4
40	51 ³ / ₁₆ " / 1.3	4 ¹ / ₈ " / 10.5
60	78 ³ / ₄ " / 2.0	6 ³ / ₁₆ " / 15.7
80	106 ⁵ / ₁₆ " / 2.7	8 ¹ / ₄ " / 20.9
100	129 ¹⁵ / ₁₆ " / 3.3	10 ⁵ / ₁₆ " / 26.2
120	154 ¹ / ₂ " / 4.0	12³/ ₈ " / 31.4
150	196 ⁷ / ₈ " / 5.0	15 ⁷ / ₁₆ " / 39.3
180	2361/4" / 6.0	18 ⁹ / ₁₆ " / 47.1
200	259 ¹³ / ₁₆ " / 6.6	20 ⁵ /8" / 52.4

<u>Throw distance</u> (inch) $Y_1=1.304x+0.4355$ Offset (inch) $Y_2=0.103x$ PG-M10S

Screen size	Projection distance	Dimension (H)
inches	inch / m	inch / cm
36	471/4" / 1.2	311/16" / 9.4
40	55 ¹ / ₈ " / 1.4	41/8" / 10.5
60	82 ¹¹ / ₁₆ " / 2.1	6 ³ / ₁₆ " / 15.7
80	106 ⁵ / ₁₆ " / 2.7	8 ¹ / ₄ " / 20.9
100	133 ⁷ / ₈ " / 3.4	10 ⁵ / ₁₆ " / 26.2
120	161 ⁷ / ₁₆ " / 4.1	12 ³ / ₈ " / 31.4
150	200 ¹³ / ₁₆ " / 5.1	15 ⁷ / ₁₆ " / 39.3
180	2441/8" / 6.2	18 ⁹ / ₁₆ " / 47.1
200	267 ¹¹ / ₁₆ " / 6.8	205/8" / 52.4

<u>Throw distance</u> (inch) $Y_1=1.353x+0.4355$ Offset (inch) $Y_2=0.118x$

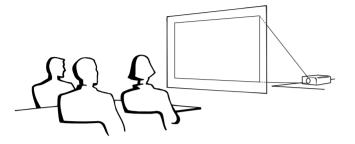




Reversed Image Setup

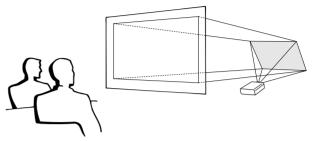
Rear projection

- Place a translucent screen between the unit and the audience.
- Use the unit's menu system to reverse the projected image. (See page 33)



Projection using a mirror

- Place a mirror (normal flat type) in front of the lens.
- Use the unit's menu system to reverse the projected image. (See page 33)
- The image reflected from the mirror is projected onto the screen.



NOTE

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

When using a mirror, be sure to carefully position both the unit and the mirror so the light does not shine into the eyes of the audience.



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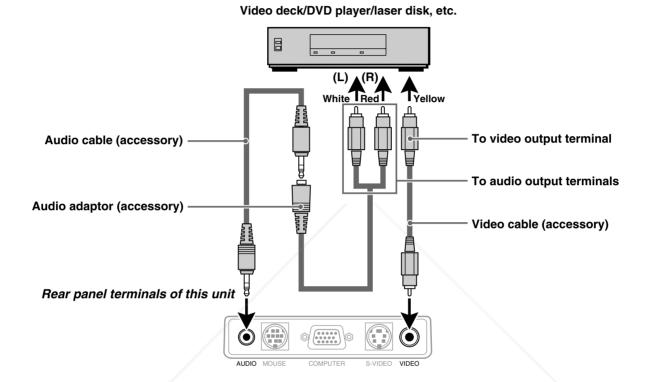


Connecting video equipment

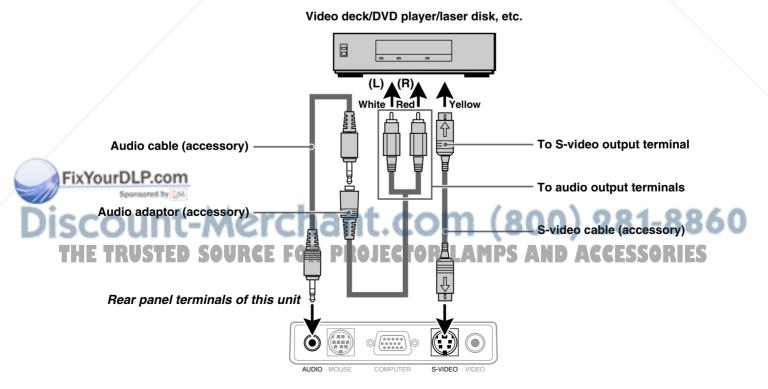
You can connect up to two pieces of video equipment to the unit following the illustrations below.

- You can switch the input source (picture) to VIDEO or S-VIDEO when you connect two pieces of equipment.
- (The S-VIDEO connection provides more vivid color and higher resolution compared to the VIDEO connection.)
- You can output the sound of only one component through the unit's speaker even when two components are connected. When connecting two external devices, the audio from either one of these devices can be output from the speaker of this unit. Audio can be turned on and off for video related input (video, S-video) from the menu or COMPUTER input terminal. (see page 31)

Connection to the VIDEO input terminal of the unit



Connection to the S-VIDEO input terminal of the unit



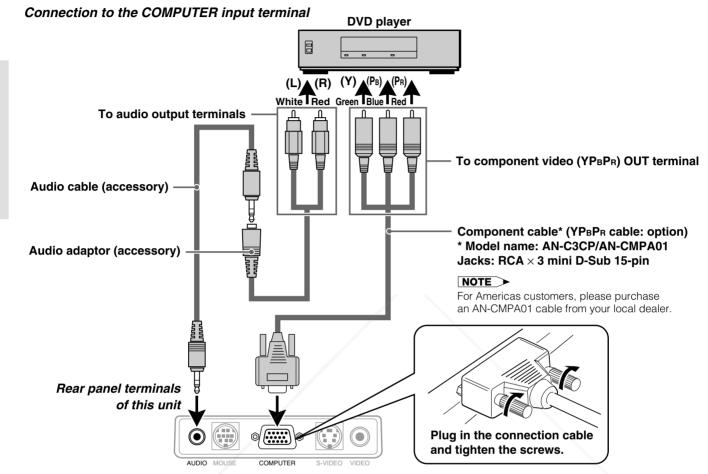


Connections

Connecting Video Equipment With Component Video Signal (YPBPR) Output

Video equipment with component video signal (YP_BP_R) output can be connected to this unit by setting the COMPUTER input terminal to YP_BP_R (see page 31) from the menu.

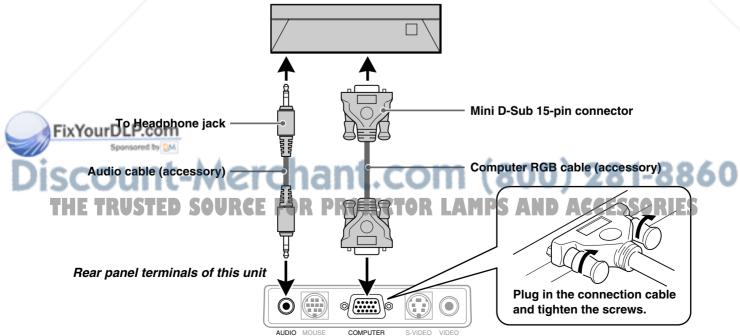
Note that this unit is compatible only with 480I component video.



Connecting a PC or Macintosh

This unit can be used as a display for numerous applications by connecting the analog RGB output connector of a PC to the COMPUTER input terminal of this unit and setting the COMPUTER input terminal to RGB (see page 31). • Either read the instruction manual or contact the manufacturer concerning the method used to set your PC.

IBM PC/AT compatible Macintosh mini D-Sub 15-pin monitor output connector.





Changing the computer's video resolutions

Depending on your computer's graphics capability, you may be able to select one of several resolutions. Generally a computer- either a PC or Macintosh- with 1 MB VRAM will generally run:

 640×480 at 16.7 million colors (24 bit true color) 800×600 at 65,000 colors. 1024×768 at 256 colors.

As the resolution increases, the number of colors you can run decreases. With 2 MB VRAM a computer will generally run:

 640×480 at 16.7 million colors (24 bit true color). 800×600 at 16.7 million colors (24 bit true color). 1024×768 at 65,000 colors. 1280×1024 at 256 colors.

Windows 98/Windows 95

There are two methods you can use to change your resolution.

Method 1

- 1 Move your cursor to the background image and R-click.
- 2 In the "Properties" menu, select "Settings".
- 3 Change your resolution and click "OK".
- 4 You may be asked to reboot for the changes to take effect, or a message may appear saying that "Windows is about to resize your display". You'll be asked if you want to keep your settings. Select "Yes".

Method 2

- 1 Click on your "My Computer" icon.
- 2 Open "Control Panel" and select "Display".
- 3 Change your resolution and click "OK" after the new resolution is selected.
- 4 You may be asked to reboot for the changes to take effect, or a message may appear saying that "Windows is about to resize your display". You'll be asked if you want to keep your settings. Select "Yes".

Windows 3.1

- 1 Click on the "Main" icon and open "Control Panel".
- 2 Select "Change System Settings" and click on "Option".
- 3 Choose "Change Display Settings".
- 4 Select the resolution you want.
- 5 Choose the current or desired drive.
- 6 Restart Windows for the changes to take effect.

Macintosh

- 1 Under the Apple menu, select "Control Panels" and open "Monitors".
- 2 Click and open "Options".
- Select your new resolution and click "OK". FixYourDLP.com

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Notebook computers and resolution standards

PG-M10X

The unit is designed to project industry standardized video such as VESA (Video Electronics Standards Association) or XGA (eXtended Graphics Array). Notebook computers do not use industry standards. They use whatever timing is necessary to match their local LCD display. The end result is typically not standard. By turning off your notebook's display, the timing parameters are a bit more like the real VESA or XGA signal.

PG-M10S

The unit is designed to project industry standardized video such as VESA (Video Electronics Standards Association) or VGA (Video Graphics Array). Notebook computers do not use industry standards. They use whatever timing is necessary to match their local LCD display. The end result is typically not standard. By turning off your notebook's display, the timing parameters are a bit more like the real VESA or VGA signal.

Receiving Video Output from Personal Computers

When a notebook type personal computer is connected for use in projecting, a certain amount of knowledge is necessary for cable connection, startup and the succeeding operations. Please refer to the instruction manual of your notebook type personal computer when performing the following operations.

1. Make sure that this unit is receiving signals from your notebook type personal computer.

The external signal may not be output even though the LCD screen of the notebook type personal computer indicates such output. Check by using the "INFORMATION" menu displayed by this unit (page 24, 25).

If 0 kHz is displayed, there is no external output signal from the personal computer.

2. If the notebook type personal computer is not outputting the external signal, perform the following operation.

For IBM PC/AT machines, press either the [Fn] key or one of the [F1] - [F12] keys.

NOTE

When displayed on the LCD display of a notebook type personal computer and this unit at the same time, the projected video may not be correct even the LCD display is normal. In such case, turn off the notebook type personal computer display and try using only the external output mode. (In some cases, external output only can be set by performing step 2 above or by closing the LCD display.)

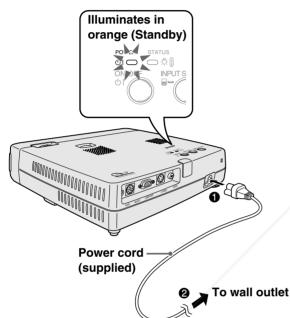
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C Using the unit

Before Using, open the sliding lens cap.

Connect the power cord.

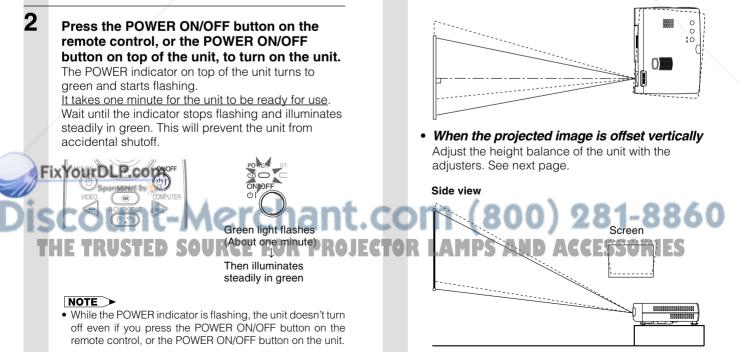
The POWER indicator will illuminate orange in color indicating that the unit is in standby status. The cooling fan will operate at slow speed.



NOTE

Basic Operation

The configuration of wall outlets differs from country to country. Use the power cord that corresponds to the wall outlet in your country.



3 Turn on the connected source (computer, VCR, DVD player, etc.).

If you use a video component, start playback for screen/image adjustment.

Select the input by pressing either the VIDEO or COMPUTER button of the remote control, or the INPUT SELECT button of the unit (refer to page 20).



NOTE >

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- If no signal is being sent to the unit, the blue or black screen (the background type differs depending on the "BACKGROUND" setting. See page 32.) is projected. Check the following:
 - Is the source properly connected to the unit?
- Is the source component or computer turned on?The video resolution of the connected computer can be changed. See page 17.

Adjust the position and height of the unit.

Move the unit to the position where the projected image is horizontally centered to the screen.

When the projected image is offset horizontally

Adjust the position of the unit so that the unit is square to the screen.

Screen

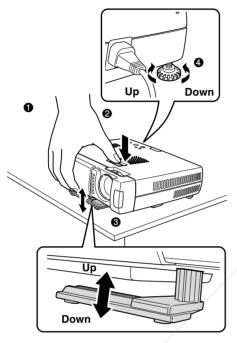
View from the top



Adjuster Adjustment

There are two adjusters: one on the right side of the back panel and another in the front center of the unit.

- Use right hand to lift the front of the unit to approximately the desired adjustment angle.
 Press the foot release button on the front.
- Press the foot release button on the nont.
 Loosen the foot release and allow it to drop into position.
 Release the button.
- The extended foot release will be locked.
- O Rotate the contact surfaces of the rear adjuster either clockwise or counterclockwise to accurately adjust the level.



6

When distortion of the projected image cannot be corrected with the adjusters, press the KEYSTONE +/- buttons of the remote control to fine adjust (see page 22). Using KEYSTONE to adjust projected image distortion.



will not be corrected.

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NOTE

Maximum correction is 14 degrees (including optical correction).

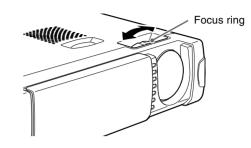
The top and bottom of the projected image is corrected, as shown below. If a menu is being displayed, distortion of the menu

V

I

IN

Adjust the image size to match the distance to the screen. Next, use the focus ring to adjust the focus.



Change the unit setting to suit the method and source selected in step 4.

8

9

10

 Select the "PROJECTION" appropriate for the type of projector installation. (See page 33)

If the image is projected reversed, vertically, or horizontally, reset "PROJECTION".

- In the case of video or S-video, select the color system as necessary. (See page 30) Normally, it is not necessary to change the factory settings. Also, set the COMPUTER input terminal for YPBPR (component video). (See page 31)
- In the case of RGB input, adjust the video of the connected PC.

This unit automatically identifies the input signal and selects the most appropriate resolution. However, manually adjust the "CLOCK" and "PHASE" (see page 28) when there is flicker, noise, color offset, etc., and manually adjust the vertical and horizontal position (see page 28) when the image is not centered.

You can maintain the original aspect ratio of the incoming signal. (see page 31). (Normally, the resolution is automatically detected and the display is enlarged or reduced.)

Adjust the picture elements (see page 26), then select the picture type according to the video content (see page 30).

Start using the unit.

The following functions are available while using the unit:

- Adjusting the volume of the unit's speaker (see pages 22 and 32),
- Turning off the image and muting the sound temporarily (see page 22),
- Freezing a moving picture (see page 22),
- Enlarging the picture (see page 23)

NOTE

When there is no signal input for a period of 5 min. or more, the power is automatically turned off and standby status is activated.

Using the Remote Control (Input Selection)

Using the unit (continued)

After using the unit

1 Press the POWER ON/OFF button of the remote control or the POWER ON/OFF button of the main unit for a few seconds.

The power will turn off and the POWER indicator will blink orange for 1 min., then the standby status will be activated. (The cooling fan will continue to run for a while for cooling purposes.)

Do not unplug the power cord while the indicator is blinking.



Blinks orange

(1 min.) Illuminates orange

- NOTE • The POWER ON/OFF button of the remote control and
- main unit will not operate until the blinking stops. · After the standby status is activated, wait 1 min. or more before turning the power on again. The power will not turn on until the 1 min. interval has elapsed.
- The cooling fan will continue to run even in standby status.

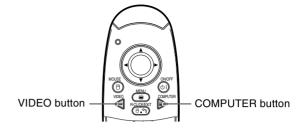
t-Merchar

Disconnect the power cord.

The POWER indicator will turn off.

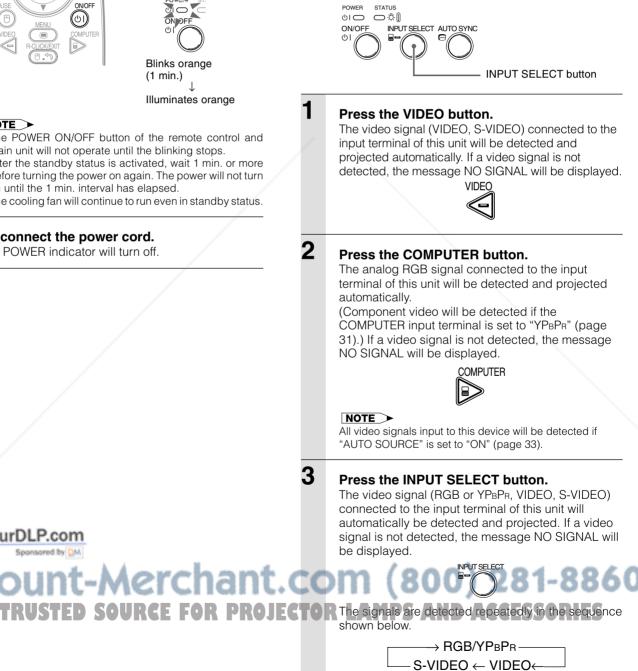
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Using the Remote Control (Input Selection)



Operating from the main unit

Inputs can be selected not only by operating the remote control but also by using the projector's INPUT SELECT button.



NOTE >

When "AUTO SOURCE" is set to "ON" (see page 33), all signals input to this unit will be detected.

2

CUsing the Remote Control as the PC Mouse

The remote control of this unit can be used as the PC mouse (wireless mouse function) by connecting the MOUSE terminal of this unit and the PC.

Remote control mouse functions

- The cursor key on the remote control operates the computer mouse functions.
- If a computer running Windows is connected, the ENTER button on the remote control operates as the computer mouse left click button and the R-CLICK/EXIT button as the computer mouse right click button.
- If a Macintosh computer is connected, the ENTER and R-CLICK/EXIT buttons operate in the same way as the computer mouse click button.

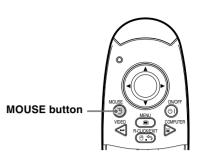
Connecting a PC and the MOUSE terminal of this unit

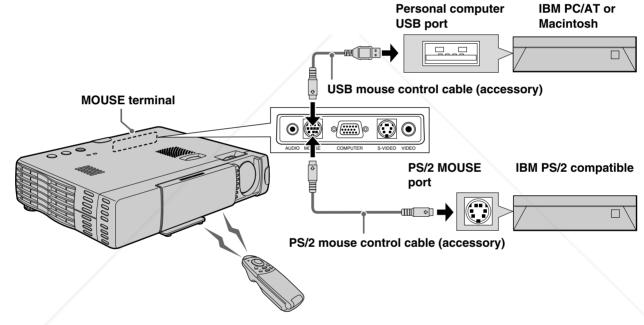
Before connecting a PC

- Before connecting, turn off the PC power. Turn off the power of this unit if it is on.
- When connection is completed, turn on the power of this unit and then start the PC.

USB Port Connection

Connect the supplied USB mouse control cable directly to the USB port (universal serial bus) of the personal computer, as shown in the diagram.





IBM PS/2 Mouse Port Connection Connect the supplied PS/2 mouse control cable to the personal computer, as shown in the diagram.



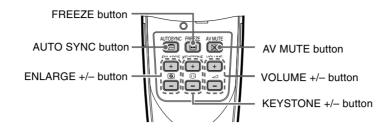
NOTE

- Depending on the personal computer, the mouse may not be recognized in some cases if not connected to the MOUSE terminal before the personal computer power is turned on.
- In the case of some notebook and laptop type personal computers, it may not be possible to use the standard pointing device (track ball, etc.) of the personal computer when connected to the MOUSE terminal. In such case, it will not be possible to use the pointing device until the personal computer is rebooted, even if disconnected from the MOUSE terminal.
- Windows 95 does not support USB mouse driver software.

Basic Operation

-0

The following operations can be performed by opening the FLIP COVER of the remote control.



Automatic Screen Adjustment

Press the AUTO SYNC button.



The position and size of the input image will be adjusted automatically in accordance with the resolution.

NOTE >

- Operation is the same as with the AUTO SYNC button of the main unit
- When the optimum image cannot be achieved with Auto Sync adjustment, use manual adjustments.

Freezing animated images

You can capture the desired frame of a moving picture.

Press the FREEZE button.

A still image of the current frame is displayed. To restore the present picture, press the button again.





The still picture can also be enlarged (see page 23).

Turning off the image and muting the sound temporarily

Press the AV MUTE button.

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The image turns off and the sound is muted at the same time. To restore the picture and sound, press the button again.

AV MUTE

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Adjusting the Volume

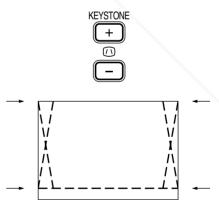
Adjusting the volume of the unit's speaker.

Press the VOLUME + button to increase the volume or - to decrease.



KEYSTONE Adjustment

When distortion of the projected image cannot be compensated with the adjusters, press the KEYSTONE +/- button to adjust accurately.

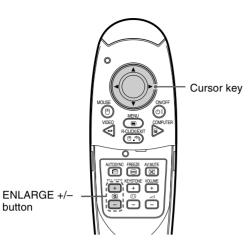


Using the KEYSTONE button to adjust the top and bottom of a projected image.

The top and bottom of the projected will be compensated, as shown in the diagram. If the menu is displayed, distortion of the menu itself will not be compensated.

NOTE When keystone adjustment is used, you may enlarge the image to compensate for the adjustment or leave the image size unaltered. (see page 32).

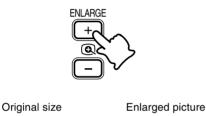
0-1



Enlarging the picture

Press the ENLARGE + button.

While the button is pressed, the picture is enlarged. Release the button at the desired size.



 $\land \rightarrow$

NOTE

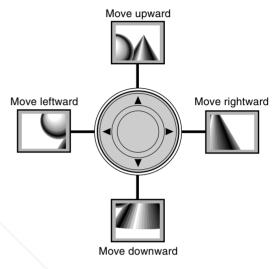
The quality of the enlarged picture deteriorates compared to the original size picture.

Screen Reduction

To move to the desired portion of the enlarged picture

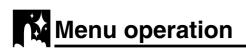
Press the desired portion of the cursor key.

The available directions are indicated by the four large triangle marks on the cursor key. The picture will move in the direction of the mark you are pressing.



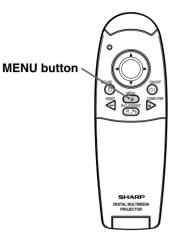
NOTE

Pictures that have been reduced cannot be moved using this function.



Menu Structure

The *normal menu* will be displayed when the MENU button is pressed with the remote control FLIP COVER closed.

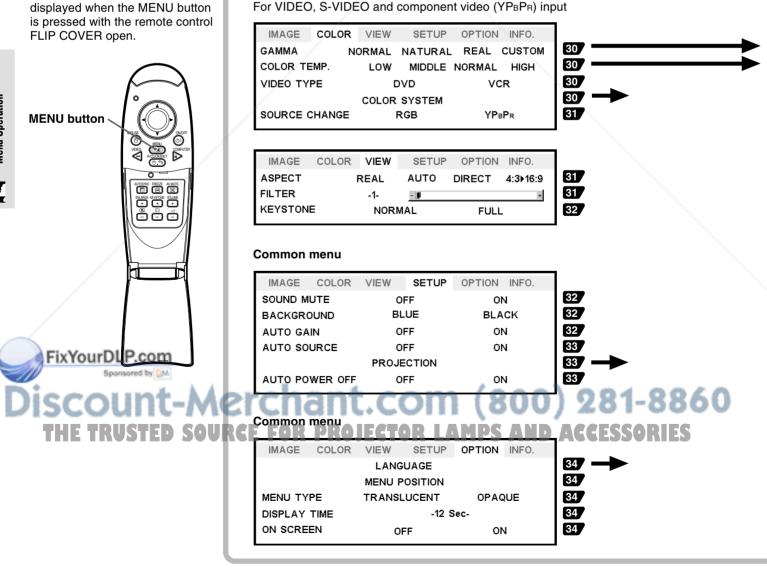


The *advanced menu* will be

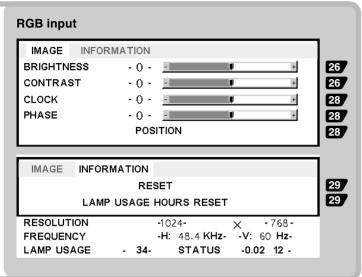
CONTRAST - 0 - - + + COLOR - 0 - - + + TINT - 0 - - + + SHARPNESS - 1 - - + +	6
IMAGE INFORMATION BRIGHTNESS - 0	
IMAGE INFORMATION BRIGHTNESS - 0 + CONTRAST - 0 + COLOR - 0 + TINT - 0 + SHARPNESS - 1 +	
BRIGHTNESS - 0 - -	
CONTRAST - 0 - - - + - - + - - + - <t< td=""><td></td></t<>	
CONTRAST - 0 - - - + - - + - - + - <t< td=""><td></td></t<>	
TINT - 0	6
SHARPNESS - 1	6
	6
	6
IMAGE INFORMATION	
	9
LAMP USAGE HOURS RESET	9
LAMP USAGE - 34-	
STATUS -0.03 12 -	

Advanced menu

For VIDEO, S-VIDEO and component video (YPBPR) input

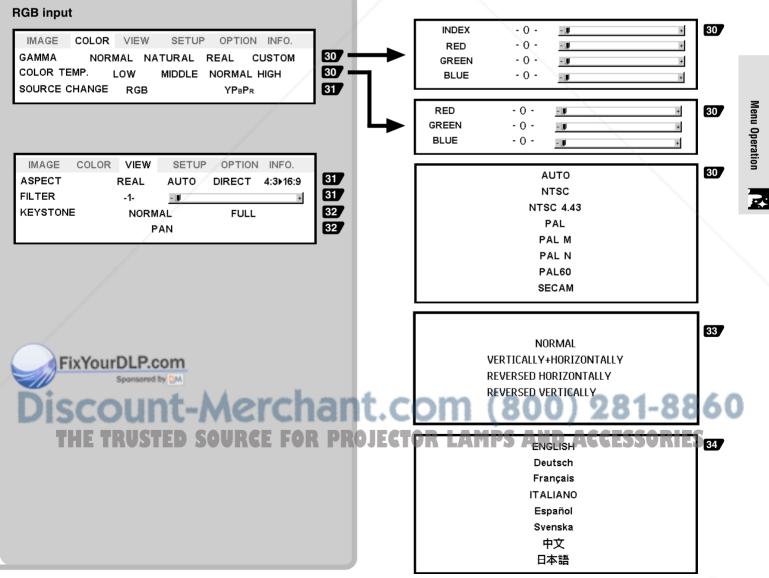


Normal menu



Advanced menu

• The Advanced menu cannot be used unless the FLIP COVER of the supplied remote control is open.



Adjusting the picture elements

The picture elements such as brightness, contrast, white balance, and so on can be adjusted individually for each input source. The adjustable items vary depending on the input source.

(The elements	s marked	with	"●"	are	adjustable.)
---------------	----------	------	-----	-----	-------------	---

Input source	VIDEO/S-VIDEO	COMPONENT VIDEO	RGB
BRIGHTNESS			
CONTRAST			
COLOR			-
TINT			-
SHARPNESS			-

1	Select the input source (see page 20)	
2	Press the MENU button to display the menu, hold down the cursor ◀ / ► keys or the MENU button and then select "IMAGE".	
3	Press the cursor ▼ / ▲ keys to select "BRIGHTNESS". The items that appear in the menu will differ depending on the input.	
4	Press the cursor ◀ / ► keys to adjust the brightness.	
5	Press the cursor ▼ / ▲ keys to select "CONTRAST".	

6 Press the cursor ◀ / ► keys to adjust the contrast.

For VIDEO, S-VIDEO and component video (YP_BP_R) input.

Press the cursor ▼ / ▲ keys to select "COLOR". 8 Press the cursor \triangleleft / \blacktriangleright keys to adjust the color. 9 Press the cursor ▼ / ▲ keys to select "TINT". NOTE > This adjustment is not possible with the SECAM color system. 10 Press the cursor $\triangleleft / \triangleright$ keys to adjust the tint. 11 Press the cursor $\mathbf{\nabla}$ / $\mathbf{\Delta}$ keys to select "SHARPNESS". 12 Press the cursor ◀ / ► keys to adjust the sharpness.



Menu Operation

To close the menu Press the R-CLICK/EXIT button.

The unit selects the most suitable resolutions as shown in the "Timing Chart" below according to the incoming signals from the COMPUTER input terminal. However, you may need manual adjustment depending on the computer. If you have any vertical banding, noise, dot interference, or crosstalk on the projected picture, adjust the clock frequency with "CLOCK" then the clock phase with "PHASE" (see page 28). You can also adjust the horizontal and vertical position of the image (see page 28).

When adjusting manually, you can choose to project the image at the original size of the incoming signal resolution (see page 31). (Normally, the image is enlarged or reduced to the most suitable size automatically.)

Timing Chart

	Resolution	H Sync. (kHz)	V Sync. (Hz)
BM PC/AT compatible machine	640 imes 350	31.5	70.1
_	640 imes 350	37.9	85.1
	720 imes 350	31.5	70.0
	640 imes 400	31.5	70.1
	640 imes 400	37.9	85.1
-	720 × 400	31.5	70.0
-	720 × 400	37.9	85.0
_	640 × 480	31.5	60.0
-	640 × 480	37.9	72.8
-	640 × 480	37.5	75.0
-	640 × 480	43.3	85.0
-	800 × 600	35.2	56.3
-	800 × 600	37.9	60.3
-	800 × 600	46.9	75.0
-	800 × 600	48.1	72.2
-	800 × 600	53.7	85.1
-	1024 × 768	48.4	60.0
-	1024 × 768	56.5	70.1
-	1024 × 768	58.1	72.0
-	1024 × 768	60.0	75.0
	1024 × 768	68.7	85.0
	1280 × 1024	64.0	60.0
	1280 × 1024	80.0	75.0
	1280 × 1024	91.1	85.0
Apple Macintosh	640 × 480	35.0	66.7
	*832 × 624	49.7	74.5
	1024 × 768	60.2	74.9
	1152 × 870	68.7	75.6
	1280 × 1024	81.1	76.1
Sun	1152 × 900	61.8	66.0
	1280 × 1024	74.9	69.9
/	1280 × 1024	81.1	76.1
SGI	1024 imes 768	49.7	60.4
-	1280 × 1024	63.9	60.0
-	1152 × 900	71.7	76.1
НР	1280 × 1024	78.1	72.0

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he resolution of the unit is 1024 × 768. Other resolution images (e.g. 1280 × 1024) are compressed into 1024 × 768. In such a case, projected letters and lines might appear unevenly. (800) 281-8860 L-1 .I I a i 1 8

PG-M10S

The resolution of the unit is 800 × 600. Other resolution images (e.g. 1024 × 768) are compressed into 800 × 600. In such a case, projected letters and lines might appear unevenly.

NOTE >

 * Due to native pixel resolution of the panels (800 imes 600), this unit will not display Mac 832 imes 624 resolution images full screen.

C1

Manual Adjustment of Personal Computer Images

1

3

Adjusting Clock Frequency and Phase

1	Select RGB as the input (page 20).
2	Press the MENU button to display the main menu and then press the cursor ◀ / ► keys to select the "IMAGE".
3	Press the cursor ▼ / ▲ keys to select the "CLOCK".
4	Press the cursor ◀ / ► keys and adjust the image width in relation to the screen. Adjustment is performed in dot units. Adjust to the position where vertical flicker disappears.
5	Press the cursor $ abla$ / $ abla$ keys and select

Press the cursor ◀ / ► keys and adjust to minimize image noise, flicker, color variations, etc.

Reconnecting a separate personal computer or other device to the COMPUTER input terminal

Either press the AUTO SYNC button on the main unit or open the FLIP COVER of the remote control and press the AUTO SYNC button there.

If no images appear during setting

Use the following procedure when no images appear during setting because the clock frequency or phase is grossly inaccurate.

- 1 Turn off the power of all devices connected. The input signal will stop and either a blue or black background (This depends on the "BACKGROUND" setting on page 32) will be projected.
- 2 Perform a reset (page 29).

"PHASE".

3 Readjust the "CLOCK" and "PHASE"

Adjusting the position of the image

If the image is offset up, down, left or right, adjust the vertical and horizontal position.

- Perform steps 1 6 for "Adjusting the Clock Frequency and Phase" on this page.
- Press the cursor ▼ / ▲ keys and select "POSITION".
 - Press the cursor ▼ / ▲, ◀ / ► keys and adjust the horizontal and vertical position.

6

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Resetting

Resetting the factory defaults

All items can be reset to the standard settings with the exception of the followings.

- Lamp usage timer
- "KEYSTONE" adjustment values (including the "KEYSTONE" setting value on page 32).
- 1 Press the remote control MENU button to display the normal menu and then press the cursor ◀ / ► keys to select "INFORMATION".
- 2 When the "INFORMATION" menu appears, press the cursor **V** / **A** keys select "RESET", then press the ENTER button.
- 3 If the ENTER button is not used during reset, press the R-CLICK/EXIT button.

Resetting the Lamp Usage Timer

When the lamp is replaced (page 37), it is necessary to set the lamp hours of usage from the menu.

- 1 Press the remote control MENU button, use the cursor \blacktriangleleft / \blacktriangleright keys to display the "INFORMATION" menu and set the lamp hours of usage.
- 2 Display the "INFORMATION" menu, use the cursor ▼ / ▲ keys to select "LAMP USAGE HOURS RESET" and then press the ENTER button.
- 3 If the ENTER button is not used during reset, press the R-CLICK/EXIT button.

When the lamp usage timer has exceeded 1100 hours and the unit will not turn on

The power will not turn on when the lamp hours of usage has exceeded 1100 hours. The STATUS indicator will be on continually (page 36). Thus, the menu cannot be displayed. In such case, replace the lamp housing, then use the following procedure to reset.

1

2

Connect the power cord (page 18). Standby status will be activated.

Press the INPUT SELECT and AUTO SYNC buttons of the main unit at the same time for 5 sec. or more.

The lamp usage timer will be reset. After resetting, the STATUS indicator (page 36) that turned on because 1100 hours had been exceeded will turn off

NOTE >

The lamp hours of usage will be displayed on the screen when it has exceeded 1000 hours.



Set the colors as desired in accordance with the image contents.

Subtle color settings are possible, as desired. Setting is possible for each input.

1	Select the image to be input (page 20).
2	With the FLIP COVER of the remote control open, press the MENU button to display the Advanced menu, then use the cursor \blacktriangleleft / \blacktriangleright keys to select "COLOR".
3	Use the ourser $\mathbf{\nabla}$ (A keys to select

- Use the cursor ▼ / ▲ keys to select "GAMMA".
- 4 Use the cursor ◀ / ► keys to set the "GAMMA".

The following can be selected. ● Normal ● Natural ● Real ● Custom

Normal is standard settings; Natural stresses coloring; Real stresses brightness. Custom is used to adjust freely as desired.

5 Use the cursor ◀ / ► keys to select "CUSTOM", press the ENTER button to display the sub-menu and then set the gamma value. There are 33 index values.

Adjusting Color Balance

Color balance (white balance) can be set for each input.

- Select the image to be input (page 20).
- 2 With the FLIP COVER of the remote control open, press the MENU button to display the Advanced menu, then use the cursor ◀ / ► keys to select "COLOR".

Aenu Oneration

1

- **3** Use the cursor **▼** / **▲** keys to select "COLOR TEMP".
- 4 Use the cursor ◀ / ► keys to select the "COLOR TEMP".

Four different types of color balance can be set beforehand: Low, Middle, Normal and High.

Setting the Video Type

With the FLIP COVER of the remote control open, press the MENU button to display the Advanced menu, then use the cursor
 Weys to select "COLOR".
 Use the cursor ▼ / ▲ keys to select "VIDEO TYPE".
 Use the cursor
 Use the cursor

Use the cursor ◀ / ► keys to set the "VIDEO TYPE".

The following can be selected. \bullet DVD \bullet VCR

DVD is used for DVD players and Video is used for normal video players.

Selecting the Color System

The following color systems can be used with this unit.

- NTSC
 NTSC 4.43
 PAL
 PAL-M
 PAL-N
 PAL60
- SECAN

1

- Only "NTSC" and "PAL" can be used for component video.
- Selection is automatic when "AUTO" is used.
- "AUTO" cannot be set for PAL-M and PAL-N input signals. Select "PAL-M" or "PAL-N" in "COLOR SYSTEM" menu for PAL-M and PAL-N input signals.

Select an input for the color system to be selected (page 20).

- 2 With the FLIP COVER of the remote control open, press the MENU button to display the Advanced menu, then use the cursor ◀ / ► keys to select "COLOR".
- 3 Use the cursor ▼ / ▲ keys to select "COLOR SYSTEM" and then press the ENTER button.
- 4 Use the cursor ▼ / ▲ keys to select the desired color system.
- When the ENTER button is pressed, the submenu will be displayed to enable fine **PROJECTOR LAMPS AND ACCESSORIES** adjustment.

Setting in Accordance With Image Content

Advanced Menu Settings (continued)

Setting the COMPUTER input terminal

The COMPUTER input terminal can be switched and used as the component video signal (YPBPR) input terminal.

- 1 With the FLIP COVER of the remote control open, press the MENU button to display the Advanced menu, then use the cursor ◀ / ► keys to select "COLOR".
- 2 Use the cursor ▼ / ▲ keys to select "SOURCE CHANGE".
- Use the cursor < / ► keys to set the "SOURCE CHANGE". The following can be selected.
 ► RGB ● YP_BP_R

Please select "YPBPR". When component video (YPBPR) input is used, use the optional component video cable.

Setting the Display Frame

The display frame can be set individually for each input.

- 1 Select the input for image selection (page 20). 2 With the FLIP COVER of the remote control open, press the MENU button to display the Advanced menu, then use the cursor \triangleleft / \blacktriangleright keys to select "VIEW". 3 Display the frame, then use the cursor ▼ / ▲ kevs to select "ASPECT". 4 Use the cursor \triangleleft / \triangleright keys to set the "ASPECT" ratio. Any of the following four different settings can be selected for images. • REAL (input signal projection without pixel
 - replacement)
 AUTO (projection after automatic input signal zoom in/zoom out)
 - DIRECT (the original aspect ratio of the image is maintained at all times)
 - 4:3 → 16:9 (4:3 aspect ratio images are projected after conversion to 16:9 aspect ratio)

Setting Filter

This is used to set the sharpness during pixel conversion (image compression/enlargement and video playback).

With the FLIP COVER of the remote control open, press the MENU button to display the Advanced menu, then use the cursor ◄ / ► keys to select "VIEW".

Display the frame, then use the cursor ▼ / ▲ keys to select "FILTER".

3 Use the cursor *◄* / ► keys to set the sharpness.



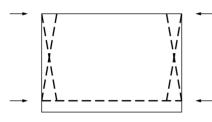
2

Setting in Accordance With Image Content (continued)

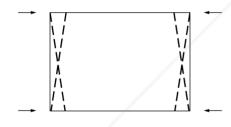
Setting Keystone

This is used to set the height for keystone adjustment.

- With the FLIP COVER of the remote control open, press the MENU button to display the Advanced menu, then use the cursor ◄ / ► keys to select "VIEW".
- 2 Display the frame, then use the cursor ▼ / ▲ keys to select "KEYSTONE".
- 3 Use the cursor ◀ / ► keys to select "NORMAL" or "FULL". ● Normal: Normal keystone correction



• Full: In this mode, the image is enlarged to fill the screen vertically and then Keystone correction is performed.



Setting the partial display position

Input a signal that is rated SXGA (XGA for the PG-M10S) to COMPUTER input terminal and then set the partial display position with "ASPECT" (see page 31) set to "REAL".

With the FLIP COVER of the remote control open, press the MENU button to display the Advanced menu, then use the cursor ◀ / ► keys to select "VIEW".

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Display the frame, use the cursor $\mathbf{\nabla} / \mathbf{\Delta}$ keys to select "PAN" and then press the ENTER button.

Audio Muting

Audio only can be muted for each input. This function is convenient when multiple video units are connected to this unit.

Select the input to be muted (page 20).
 With the FLIP COVER of the remote control open, press the MENU button to display the Advanced menu, then use the cursor
 Use the cursor ▼ / ▲ keys to select "SOUND MUTE", then use the cursor

Selecting the Background

Two different backgrounds can be selected for projection when there is no signal input.

- With the FLIP COVER of the remote control open, press the MENU button to display the Advanced menu, then use the cursor ◀ / ► keys to select "SETUP".
- 2 Use the cursor ▼ / ▲ keys to select "BACKGROUND".
- Use the cursor < / ► keys to select one of the following backgrounds.
 Blue Black

Auto Gain

Brightness and contrast are adjusted automatically.

- **1** Select the input to be set for auto gain (page 20).
- 2 With the FLIP COVER of the remote control open, press the MENU button to display the Advanced menu, then use the cursor ◀ / ► keys to select "SETUP".
 - Use the cursor ▼ / ▲ key to select "AUTO GAIN", then use the cursor ◀ / ► keys to set "ON" or "OFF".

Use the cursor V / ▲, ◄ / ► keys to set the display position.

3

Auto Source Settings

With this function, the unit is automatically detecting the input signal.

1 With the FLIP COVER of the remote control open, press the MENU button to display the Advanced menu, then use the cursor ◀ / ► keys to select "SETUP".

2 Use the cursor ▼ / ▲ keys to select "AUTO SOURCE", then use the cursor ◀ / ► keys to set "ON" or "OFF".

 ON: All input signals are detected.
 OFF: Remote control VIDEO button: Video and S-video are detected.
 Remote control COMPUTER button: RGB and YPBPR signals are detected.
 Main unit INPUT SELECT button: All input signals are detected individually.

Selecting a Projection Format

If the projection format is not correctly set in accordance with the installation conditions, images may be projected reversed, vertically, or horizontally.

1 With the FLIP COVER of the remote control open, press the MENU button to display the Advanced menu, then use the cursor ◄ / ► keys to select "SETUP".

2 When "SETUP" menu is displayed, use the cursor ▼ / ▲ keys to select "PROJECTION", then press the ENTER button.

3 Use the cursor ▼ / ▲ keys to select a projection format in accordance with the set conditions.

The setting items will change as shown below each time a key is pressed.

RMAL	\Leftrightarrow	VERTICALLY+HORIZONTALLY
1		1

 $\mathsf{REVERSED} \ \mathsf{VERTICALLY} \ \Leftrightarrow \ \mathsf{REVERSED} \ \mathsf{HORIZONTALLY}$

NOTE

The unit cannot be installed to the ceiling.
Be sure to always leave a space of minimally 20 cm (7 ⁷/₈")
Detween the UDt and surrounding obstructions.
Do not use an installation stand made of material that is not heat-resistant.
During an earthquake or when a child climbs on top of or heater from the stand the unit moutful libra swall or post

• During an earthquake or when a child climbs on top of or hangs from the stand, the unit may fall. Use a wall or a post as a measure to prevent the unit from falling. TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Using the Power Saving Function

1

When there is no signal input for a period of 5 min. or more, the power is automatically turned off and standby status is activated.

- With the FLIP COVER of the remote control open, press the MENU button to display the Advanced menu, then use the cursor ◀ / ► buttons to select "SETUP".
- 2 When "SETUP" menu is displayed, use the cursor ▼ / ▲ keys to select "AUTO POWER OFF".
- 3 Use the cursor ◀ / ► keys to set Power Saving to "ON" or "OFF".

Setting the Menu (Option)

Selecting the Menu Language

Any one of eight different languages can be selected for menu displays.

- 1 With the FLIP COVER of the remote control open, press the MENU button to display the Advanced menu, then use the cursor \triangleleft / \blacktriangleright keys to select "OPTION".
- 2 When "OPTION" menu is displayed, use the cursor ▼ / ▲ keys to select "LANGUAGE", then press the ENTER button.

3 Use the cursor ▼ / ▲ keys to select one of the following languages.

- English Swedish
- ●German Spanish
- French Chinese
- Italian Japanese

Setting the Menu Display Position

The menu display position can be set with this function.

- 1 With the FLIP COVER of the remote control open, press the MENU button to display the Advanced menu, then use the cursor \triangleleft / \blacktriangleright keys to select "OPTION".
 - When "OPTION" menu is displayed, use the cursor ▼ / ▲ keys to select "MENU **POSITION**" and then press the ENTER button.
- 3 Use the cursor ∇ / A , $\triangleleft / \triangleright$ keys to set the display position.

Menu Viewing Settings

The menu viewing method can be set with this function.

With the FLIP COVER of the remote control open, press the MENU button to display the Advanced menu, then use the cursor ◀ / ► keys to select "OPTION".

Other Menu Settings

The time that the menu is displayed on the screen can be set with this function.

- 1 With the FLIP COVER of the remote control open, press the MENU button to display the Advanced menu, then use the cursor \triangleleft / \blacktriangleright keys to select "OPTION". 2 When "OPTION" menu is displayed, use the cursor ▼ / ▲ keys to select "DISPLAY TIME".
- 3 Use the cursor \triangleleft / \blacktriangleright keys to set a value from 5 sec. to 30 sec.

On-screen Display

This function is set to "ON" at the factory. When set to "ON", input will be projected onto the screen when the input is switched with the remote control button. Also, the input menu will be displayed when the power is turned on to indicate the selected input. In addition, status is displayed on the menu bar when "FREEZE", "MUTE", "ENLARGE", "KEYSTONE" or "VOLUME" is set.

- With the FLIP COVER of the remote control open, press the MENU button to display the Advanced menu, then use the cursor $\triangleleft / \triangleright$ keys to select "OPTION". 2
 - When "OPTION" menu is displayed, use the cursor ▼ / ▲ keys to select "ON SCREEN".

3 Use the cursor ◀ / ► keys to set "ON" or "OFF".

When "OPTION" menu is displayed, use the COM (800) 281-8860 cursor ▼ / ▲ keys to select "MENU TYPE". ECTOR LAMPS AND ACCESSORIES

1

3 Use the cursor $\mathbf{\nabla} / \mathbf{\Delta}, \mathbf{\triangleleft} / \mathbf{\triangleright}$ keys to select "TRANSLUCENT" or "OPAQUE".

Menu Operation



Troubleshooting

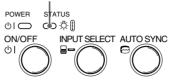
Problem	Check	Reference page
The power will not turn on.	 Is the power plug connected to the power outlet? Is the lamp cover correctly installed? Is the internal temperature too high? A protective feature prevents the power turning on when the internal temperature is too high. Has the lamp usage time exceeded 1100 hours? The power will not turn on when 1100 hours have elapsed. 	18 37 36 29, 36, 37
No image	 Has the connected input been selected? Are the cables correctly connected to the input terminals? Are the brightness and contrast set to minimum? Is the sliding lens cap closed? Is the lamp blown? Has the lamp usage time exceeded 1100 hours? If a notebook type computer is being used, was the computer power turned on after the projector was connected? Is the computer set to disable output to the external COMPUTER input terminal? In many cases, when a notebook type computer is connected to the projector, a signal will not be output to the COMPUTER input terminal unless the computer power is turned on. Does the STATUS indicator blink? 	18, 20 15, 16 26 18 37 29, 36, 37 16, 17 36
Distorted images	Is installation correct?Was the Keystone adjustment performed correctly?	18 22, 32
Blurred images	 Is the lens properly focused? Are the screen and projector positioned at the correct angle? Does the projection distance place the screen outside the focus range? Is there condensation, dirt, etc., on the lens? Condensation on the internal optical system is possible when the projector has been stored in a cool place and then is used in a warm place. In such cases, wait several minutes for the condensation to evaporate. 	19 18 13 —
Images are offset vertically or horizontally and are not correctly displayed	 Is the unit's input terminal set for RGB data while projecting PC data? Correctly adjust the horizontal and vertical position of the screen. Is the clock frequency correctly adjusted? Are the resolution and frequency correct for the input signal? Check the resolution of the personal computer. 	31 28 28 27
The remote control does not work	 Does the send indicator (LED) light? If it does not light, the batteries are exhausted. In such cases, replace with fresh batteries. Is there any obstacle between the remote control and the remote sensors of the main unit? Is the remote control being used outside its effective range? Is there a fluorescent light or other strong light source close to the remote sensors? 	9, 12 9 <u>9</u> —
The wireless mouse control does not work	 Is the MOUSE terminal of the main unit and the personal computer correctly connected? Was the personal computer started after being connected to the MOUSE terminal of the main unit? 	21 21
The STATUS indicator blinks	Check the STATUS indicator list.	36
Flickering text or offset colors with COMPUTER input terminal	 Manually adjust the clock frequency and phase. Press the AUTO SYNC button. 	28

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STATUS indicator



Status Light Messages

Condition	Status
OFF	Normal
On Continually	The lamp usage has exceeded 1000 hours of operation and should be replaced.
Flashing Very Rapidly (On and off in a cycle of 1 sec.)	• The lamp cover is not correctly attached. Replace it correctly.
Flashing Rapidly (On and off in a cycle of 4 sec.) FixYourDLP.com	 The temperature protector has been triggered. If the room temperature is high, move the unit to a cool location. If the temperature within the unit is high, check the cooling fan (exhaust vent) and the cooling fan (exhaust vent) on the bottom of the unit. If any of the slots are blocked, remove whatever is blocking them. The temperature protector has been triggered. If you try to turn on the unit immediately after turning off, sometimes the power does not come on. If this happens, wait at least one minute, then turn on the unit again. The lamp lighting voltage error detection protector has been triggered. Wait at least one minute before turning on the unit again. If this does not solve the problem, please contact your dealer.
Flashing Slowly (On and off in a cycle of 8 sec.)	The cooling fan has stopped. Contact your Sharp Authorized LCD Projector Dealer or Service Center.
Flashing Very Slowly (On and off in a cycle of 12 sec.)	 The lamp is not turned on. The unit was turned on immediately after being turned off. Turn off the unit, wait at least one minute, then turn on the unit again. The lamp is dead. Replace the lamp cage. (See page 37.)

Others

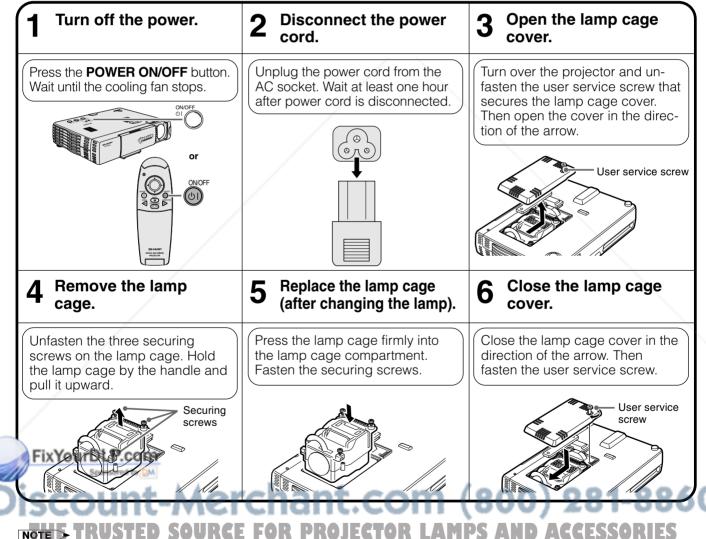
CAUTION:

- Potential hazard of glass particles if lamp has ruptured. Please have Sharp Authorized LCD Projector Dealer or Service Center replace lamp if rupture occurs.
- Do not remove the lamp cage directly after operation of the projector. The lamp may be extremely hot. Wait at least one hour after the power cord is disconnected to allow the surface of the lamp cage to fully cool before removing the lamp cage.

The rated lamp life is about 1000 hours. The rated lamp life is the average life of the lamps produced and tested (under the test conditions of our company). However, it may become shorter depending on the conditions of usage. After the lamp has been operating for 1000 hours or longer, the STATUS indicator on the control panel will light and the "LAMP USAGE" icon which shows hours of total lamp usage will be displayed on the screen. When this happens, turn off the unit and replace the lamp cage with a new one. The unit will not turn on after 1100 hours. (It will go off if it is in use.)

Removing and installing the lamp unit

- Be sure to remove the lamp cage by the handle. Be sure not to touch the glass surface of the lamp cage or the inside of the projector.
- Do not loosen any screws except for those mentioned in the instructions below. There is danger of electric shock.
- To avoid injury to yourself and damage to the lamp, be sure to carefully follow the steps below.



Reset the lamp usage timer after replacing the lamp. See page 29 for information.

NOTE

- When the lamp usage timer reaches 1100 hours, it becomes impossible to turn on the power and menus are not displayed. In such a case, see "When the lamp usage timer has exceeds 1100 hours and the unit will not turn on" on page 29.
- Obtain a replacement lamp cage at the store where the unit was purchased. Please specify the following information when ordering a replacement lamp cartridge:
- Model name : BQC-PGM10X//-1

Others

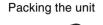
Transporting the Projector

When transporting the unit, please slide the lens cap to the closed position and utilize the supplied carrying bag. Avoid strong vibration and physical shock during transportation.

Using the Carrying Bag

A soft-side carrying bag is provided to transport the unit. Before placing the projector into the carrying bag, set up the inner pad inside the bag as shown.

How to use the carrying bag



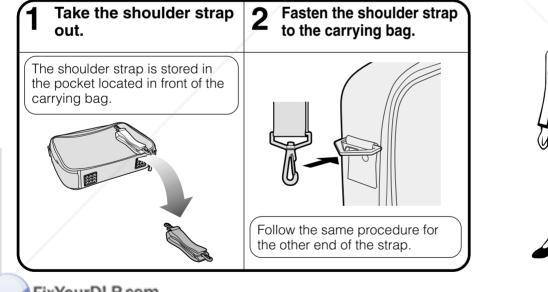
Packing the accessories





- The supplied carrying bag is made exclusively for the unit and its supplied accessories. Do not place other items into the carrying bag with the unit or use the bag to transport items other than the unit and its accessories.
- This bag is provided merely to transport the unit and its accessories, not to protect these products from damage as a result of rough handling. When carrying the unit around, please use the carrying bag that comes with it and, to protect lens from scratches, always shut the sliding lens cap. Do not expose these products to shocks or impact when transported in the carrying bag.
- Always carry the unit in the carrying bag. Ensure that the power cord and other cables connecting to video sources are disconnected before moving the unit. When moving the unit or when it is not in use, cover the lens with sliding lens cap.
- Wait until the unit has sufficiently cooled before placing it into the carrying bag. If the unit is placed into the bag while it is still hot, the heat may damage the bag lining.

Attaching the shoulder strap to the carrying bag





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Others

X

Specifications

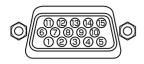
Product type	Digital Multimedia Projector
Model	PG-M10X/PG-M10S
Video system	NTSC/NTSC4.43/PAL/PAL M/PAL N/PAL60Hz/SECAM
	Single Chip Digital Micromirror Device™ (DMD™) by Texas Instruments
	Panel size: 21.8 mm (0.7"), 1 chip XGA DMD/PG-M10X, 1 chip SVGA DMD/PG-M10S
Bille parlor	No. of dots: 786,432 dots (1,024 [H] × 768 [V])/PG-M10X,
	480,000 dots (800 [H] × 600[V])/PG-M10S
Lana	
	Manual focus fixed lens, F3.0, f = 23 mm
	High Performance Compact lamp, DC130W
Contrast ratio	
Video input signal	RCA Connector: VIDEO, composite video, 1.0 Vp-p, sync negative, 75 Ω terminated
	3.5 ϕ mini jack: AUDIO, 0.4 Vrms more than 47 k Ω (stereo)
S-video input signal	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
Horizontal resolution	500 TV lines (video input)
	0.5 W (monaural)
Computer RGB input signal	
Compater HGB input orginal	RGB separate/sync on green type analog input: 0–0.7 Vp-p, positive, 75 Ω terminated
	3.5 ϕ MINIJACK: AUDIO, 0.4 Vrms, more than 47 k Ω (stereo)
	Horizontal sync. signal: TTL level (positive/negative)
	Vertical sync. signal: Same as above
	12–157 MHz
Vertical frequency	
Horizontal frequency	
Speaker system	$3.5 \times 2 \text{ cm} (1 \frac{3}{8} \times \frac{13}{16}) \text{ oval}$
Rated voltage	AC 110–120/220–240 V
Input current	1.0 A/1.9 A
Rated frequency	50/60 Hz
Power consumption	180 W (PG-M10X/PG-M10S)
	41°F to 95°F (+5°C to +35°Ć)
	14°F to 140°F (-10°C to +60°C)
	Magnesium alloy (Terminal panel, Lamp cover and side vent cover constructed of plastic)
I/R carrier frequency	
	230 (W) × 48 (H) × 177 (D) mm (9 $\frac{9}{16}$ × 1 $\frac{7}{8}$ × 6 $\frac{15}{16}$) (main body only) 231 (W) × 61 (H) × 177 (D) mm (9 $\frac{1}{8}$ × 2 $\frac{3}{8}$ × 6 $\frac{15}{16}$) (including adjustment feet and
	projecting parts) $(1) \times 177$ (b) min (c) $r_8 \times 27_8 \times 67_{16}$) (including adjustment lett and
Weight (approx.)	
	1.4 Ng (J. 1 IDS.) Demote control Two AAA size batterice, Dewer cord for Americae (1.9 m 5/15/ %) Dewer
Supplied accessories	Remote control, Two AAA size batteries, Power cord for Americas (1.8 m, 5 ^{$15/_{16}$}), Power
	cord for Europe (1.8 m, 5 ^{$15/_{16}$}), Power cord for Australia, New Zealand and Oceania
	$(1.8 \text{ m}, 5^{\prime})_{16}^{15}$, Power cord for U.K., Hong Kong and Singapore (1.8 m, 5^{\prime})_{16}^{15}, Computer
	RGB cable (1 m, 3' 3"), Audio cable (1 m, 3' 3"), Audio adapter (15 cm, $6 \frac{45}{64}$), USB
	mouse control cable (1 m, 3´3"), PS/2 mouse control cable (1 m, 3´3"), Video cable
	(1 m, 3´ 3"), S-Video cable (1 m, 3´ 3"), Soft pouch, Carrying bag, Projector operation
	manual, Projector quick reference
Replacement parts	Remote control (9FU770823300), Two AAA size batteries (9FU770702000), Power cord for
	Americas (9FU770726000), Power cord for Europe (9FU770727000), Power cord for
	Australia, New Zealand and Oceania (9FU770729000), Power cord for U.K., Hong Kong
	and Singapore (9FU770728000), Computer RGB cable (9FU770708000), Audio cable
	(9FU770710000), Audio adapter (9FU770704000), USB mouse control cable
	(9FU770707000), PS/2 mouse control cable (9FU770706000), Video cable
	(9FU770703000), S-Video cable (9FU770709000), Soft pouch (9FU770823400), Carrying
	bag (9FU770823200), Projector operation manual (9FU770822800), Projector quick
EL Marcol D.	reference (9FU770822900), Replacement lamp (BQC-PGM10X//-1)
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Spansored by QM	
	and and a sur load and and
This SHARP projector uses a DMD par	el. This very sophisticated This unit has some inactive pixels within acceptable tolerances which
panel contains 786,432 (PG-M10X)/480	,000 (PG-M10S) pixels. As may result in inactive dots on the picture screen. This will not affect
with any high technology electronic equi	oment such as large screen
TVs, video systems and video cameras, t	here are certain acceptable J 🕒 🕒 If you have any questions about this matter, please call toll free
tolerances that the equipment must conf	orm to. 1-888-GO-SHARP (1-888-467-4277). U.S.A. ONLY

If you have any questions about this matter, please 1-888-GO-SHARP (1-888-467-4277). U.S.A. ONLY all toll free

Specifications are subject to change without notice.

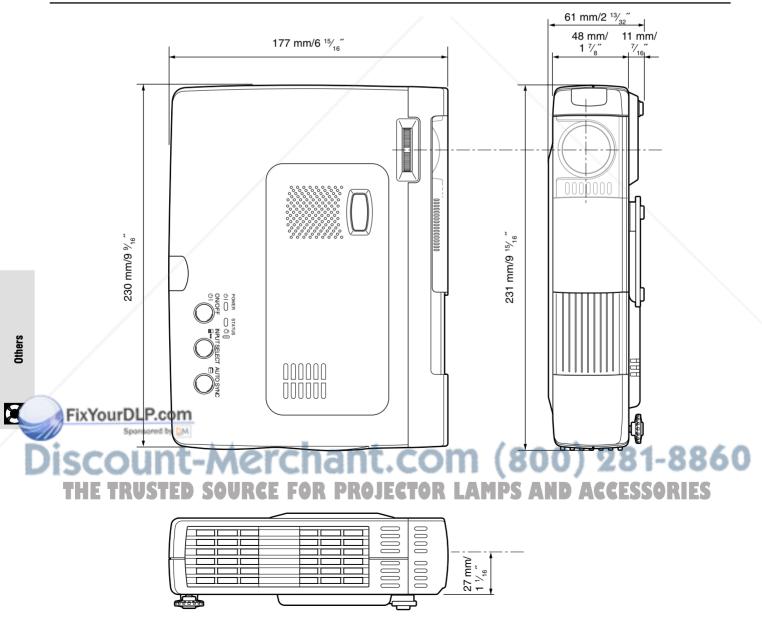
D-Sub Pin Assignments

PC 15-Pin mini D-Sub

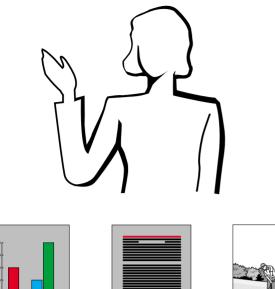


Pin No.	Signal to be connected
1	Red
2	Green
3	Blue
4	GND
5	GND
6	Red GND
7	Green GND
8	Blue GND
9	No Connection
10	Digital GND
11	GND
12	SDA
13	Horizontal Sync
14	Vertical Sync
15	SCL

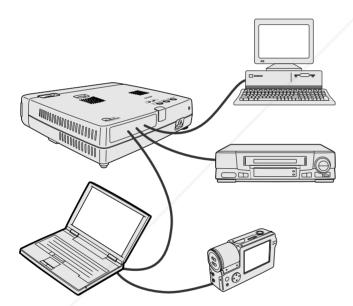
Dimensions



Guide to Effective Presentations







Yellow

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Electronic presentations are one of the most effective tools presenters can use to persuade an audience. There are several ways to enhance your presentation and maximize your effectiveness. The following are guidelines to help you create and deliver a dynamic presentation.

a. Types of Presentations

Computer Presentations

- To present basic information such as graphs, spreadsheets, documents and images, use word processing and spreadsheet applications.
- To convey more complex information and create more dynamic presentations which allow you to control the pace of your delivery, utilize software such as Astound[®], Freelance[®], Persuasion[®] or PowerPoint[®].
- For high-end multimedia and interactive presentations, use software such as Macromedia Director[®].

NOTE

• Astound[®], Freelance[®], Persuasion[®], PowerPoint[®] and Macromedia Director[®] are trademarks of their respective companies.

Video Presentations

Use of video equipment, such as a VCR, DVD player and laser disc player, can be effective for delivering instructional or illustrative information that is difficult to present.

Digital Cameras and Personal Digital Assistants (PDAs)

For highly compact and portable presentations, still cameras, digital video cameras, document cameras and PDAs are ideal for transferring data without cumbersome conversions.

Multimedia Presentations

You can integrate all of the above methods for a full multimedia presentation including video, audio, computer applications and World Wide Web information.

b. Creative Presentations

Oftentimes presenters do not take advantage of the many subtle ways they can manipulate their electronic slides to more effectively persuade the audience.

Color has a great effect on the audience during a presentation. When used correctly and legibly, studies show that background & foreground colors establish an emotional tone for a presentation, help viewers understand and retain information, and influence an audience to take a desired course of action.



Text and graphics colors need sufficient contrast. Use darker colors for the background since a lighter background can create uncomfortable glare. (Yellow on black creates an ideal contrast.)

Appendix







 Background colors can subconsciously affect the audience:

Red—increases viewers' pulse and breathing and encourages risk taking but can also be associated with financial loss.

Blue—has a calming and conservative affect on the audience but can also create boredom among corporate audiences that are often inundated with this background color.

Green-stimulates interaction.

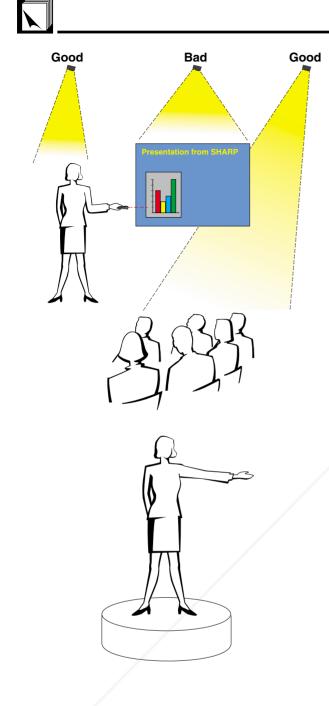
Black—conveys finality and certainty. Use it as a transitional color between slides when moving from one idea to another.

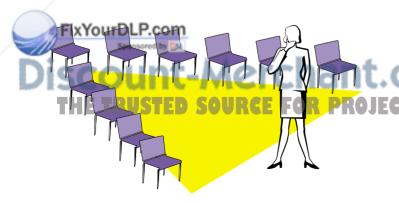
- Foreground colors create a major impact on how well an audience understands and remembers a message. • Use one or two bright colors for emphasis.
 - · Highlight important messages.
- The eye has a difficult time reading certain colored text on certain colored backgrounds. For example, text and background colors in red and green, and blue and black make for difficult viewing.
- Colorblind individuals may find it difficult to distinguish between red and green, brown and green, and purple and blue. Avoid using these colors together.

Fonts

- One of the most common mistakes in any type of presentation visual is the selection of type fonts that are too small, too thin, or too difficult to read.
- If you are not sure how well a given font will read on a screen at various sizes, try this: Draw a 6"×8" box on a piece of paper and print out several lines of text inside the box with your computer printer at 300 or 600 dpi resolution. Vary the sizes of text to simulate headline, body and text call-outs for any charts or graphs. Hold the printout at arm's length. This is how your text will look on a 4' (1.2 meters)-wide screen at 10' (3 meters), on a 7.5' (2.3 meters)-wide screen at 20' (6.1 meters) and a 12' (3.7 meters)-wide screen at 30' (9.1 meters). If you cannot read the text easily, you should put less copy on your visuals or use larger typefaces.
- Design your visuals so that they are visible by the viewer in the last row.
- Nothing will ruin your presentation faster than misspelled words. Take the time to proofread and edit your work before your visuals become a permanent part of your presentation.

PROJECT displayed in capital letters. • Another important attribute of fonts is particular face is serif or sans-serif. Serifs are small, usually horizontal cross strokes that are added to the end of a letter's main strokes. Because of their ability to coax the eye along the line of type, fonts with serifs are generally acknowledged to be more readable.





c. Set-Up

When giving a presentation, you need to set the stage both figuratively and literally for success. The way you set up a presentation room will have a great impact on the audience's perception of you and your message. By manipulating the placement and use of the following tools, you will improve the impact of your presentation.

Lighting—Good lighting is an important component of a successful presentation. You should strive to create an unequal distribution of light. An audience should always see as much of the presenter's face as possible, so most of the light should be focused on you. Because it is important for you to be able to read the audience's faces and body language, some light should be shed upon them. However, no light should shine on the screen.

Stage— When presenting on the same level surface that your audience is on, most people can only see the top one-third of your body. Therefore, it is recommended that when giving a presentation to an audience of 25 or more, you stand on a stage or platform. As more of your body is visible, the easier it is to communicate with an audience.

Podiums—The best presenters avoid podiums because they hide 75% of the body and restrict movement. However, many people feel more comfortable with a podium to hold their notes and hide their discomfort. If you must use a podium, angle it at 45 degrees to the audience so that you are not completely hidden.

Visuals—It is imperative that you make sure your visuals are large enough and projected far enough for the audience to see. Eight times the height of an image is the optimal viewing distance to read 24 point type. The bottom of a screen should be at least 6⁻⁻ (1.8 meters) above the floor.

Screen—The screen should always be in the center of the room so that all audience members can see it. Because people read from left to right, you should always stand to the audience's left when discussing visuals.

Seating—Arrange seating according to the dynamics of your presentation. If the presentation is more than half-aday, use classroom style seating—a chair and a desk. If you would like to encourage audience interaction, use chevron seating, angling the chairs into a "V" shape. When you have a very small audience, a "U" shaped arrangement will increase interchange.



d. Rehearsing & Delivery

- The best time to rehearse is the day or evening before, not a couple of hours before, and the best place to rehearse is in the actual room. Rehearsing a speech in a small office is not the same as standing up in front of 100 people in a hotel ballroom or classroom.
- Due to varying processor speeds of computers, practice your slide transitions for proper timing.
- Whenever possible, set up your equipment well in advance to allow adequate time to resolve any unexpected issues such as lighting, power, seating and audio.
- Thoroughly check every piece of equipment you bring along. Make sure you have fresh batteries in your remote controls and laptop computer. Fully charge your computer's battery before the presentation and connect your AC adaptor for added safety.
- Make sure you are completely familiar with the control panel on your projector and remote controls.
- If you are using a microphone, check it out before hand and walk around to see where you might have problems with feedback. Avoid standing in these problem areas during your presentation.

e. Presentation Tips

- Before beginning, visualize yourself delivering an outstanding presentation.
- Know your speech, memorizing at least the first three minutes of your presentation will allow you to focus on your rhythm and pacing.
- Speak to early arrivals to help you build a rapport with the audience and make you feel more comfortable.
- Do not be overly dependent on your visuals by reciting what your audience is already reading. Know your material well enough to be able to deliver the presentation with ease. Use your visuals to emphasize keypoints.
- Be sure to project your voice clearly and use eye contact to maintain audience attention.
- Do not wait until halfway through your presentation to get your point across. If you wait and try to create a "buildup", you may lose some of your audience along the way.
- Keep your audience's attention. As most people only focus for 15 to 20 minutes during a one-hour presentation, it is important to recapture their attention periodically. Use phrases like, "This is critical to my point" or "This is absolutely fundamental" to remind them you are saying something they need to hear.

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Active Digital keystone correction

Function to digitally correct a distorted image when the projector is set up at an angle.

• Not only does the projector feature anti-aliasing and left-right compression but also up-down compression, maintaining the aspect ratio of 4:3 even if the viewing angle changes.

Aspect

The display frame can be set individually for each input.

- 1. REAL Input signal projection without pixel replacement
- 2. AUTO Projection after automatic input signal zoom in/zoom out
- 3. DIRECT The original aspect ratio of the image is maintained at all times
- 4. $4:3 \rightarrow 16:9....4:3$ aspect ratio images are projected after conversion to 16:9 aspect ratio

Auto gain

Brightness and contrast are adjusted automatically.

Auto power off

When there is no signal input for a period of 5 minutes or more, the power in automatically turned off and standby status is activated.

Auto source

Automatically searching the input signal.

Auto sync

Optimizes projected computer images by automatically adjusting certain characteristics.

Background

Two different background can be selected for projection when there is no signal input.

Clock

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

Color temp.

Color temperature function 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. Increase the color temperature to create cooler, bluish images for a brighter picture.

Compatibility

Ability to use with various image signal modes.

DMD

Digital Micromirror Device[™] (DMD[™]) by Texas Instruments.

Enlarge

Digitally zooms in on a portion of an image.

Filter

This function is used to set the sharpness during pixel conversion (image compression/enlargement).

Freeze

Function to freeze a moving image

Gamma

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.

Intelligent compression and expansion

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

Menu type

The menu viewing method can be set with this function.

Phase

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

Startup image

The image displayed when the projector is turned on.

Svnc

Synchronizes the resolution and phase shift of two signals. When receiving an image with a resolution different from that of the computer, the projected image may be distorted.

Sync on green

deo signal mode of a computer which overlaps horizontal and vertical sync signal to green color signal pin.

unction to operate the mouse control of a computer with the supplied remote control.

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Appendix

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