Network Supported

- Wireless LAN
  IEEE802.11b/g
- Wired LAN
  100-Base-TX/10-Base-T

Memory Viewer

- USB Memory Viewer (optionally available)
  Compatible with a dedicated USB memory

*Refer to the owner’s manuals below for details about network and memory viewer function.

- Network Set-up and Operation
- Owner’s Manual  USB Memory
  This manual is provided with optionally supplied USB memory (Model: WL-10).
Features and Design

This Multimedia Projector is designed with the most advanced technology for portability, durability, and ease of use. This projector utilizes built-in multimedia features, a palette of 16.77 million colors, and matrix liquid crystal display (LCD) technology.

- **Compact Design**
  This projector is designed compact in size and weight. It is easy to carry and installed anywhere you wish to use.

- **Capable of 360-degree Projection**
  This projector is capable of 360-degree projection.
  *Some restriction required, see page 8.

- **Antitheft Alarm Function**
  This projector is equipped with an Antitheft alarm function which sounds when vibration is detected (pp.58–61). A built-in rechargeable battery is used for the alarm.

- **Simple Computer System Setting**
  The projector has the Multi-scan system to conform to almost all computer output signals quickly (p.32). Up to UXGA resolution can be accepted.

- **Useful Functions for Presentations**
  - The digital zoom function allows you to focus on the crucial information during a presentation (p.39).
  - Blackboards* can be used as a projection screen.
  *The board color is limited to Green (pp.36, 43).

- **Power Management**
  The Power management function reduces power consumption and maintains the lamp life (p.52).

- **Lamp Control**
  Brightness of the projection lamp can be selected (pp.28, 53).

- **Logo Function**
  The Logo function allows you to customize the screen logo (pp.49–50). You can capture an image for the screen logo and use it for the starting-up display or between presentations.

- **Multilanguage Menu Display**
  Operation menu is available in 16 languages; English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Finnish, Polish, Hungarian, Romanian, Russian, Chinese, Korean, and Japanese (p.47).

- **Security Function**
  The Security function helps you to ensure security of the projector. With the Key lock function, you can lock the operation on the top control or remote control (p.54). PIN code lock functions prevents unauthorized use of the projector (pp.22, 54–55).

- **Helpful Maintenance Functions**
  Lamp and filter maintenance functions provide for better and proper maintenance of the projector.

- **LAN Network Function**
  This projector is loaded with the Wired and Wireless LAN network function. You can project an image on a computer as well as operate and manage the projector via network. For details, refer to the owner’s manual “Network Set-up and Operation.”

- **Memory Viewer Function (Optional Function)**
  Insert the dedicated USB memory (optionally supplied: WL-10) into the projector to project images or presentation data stored within. You do not have to carry computers or other equipment for a presentation.
  *For details, refer to the owner’s manual provided with optionally supplied USB memory.

✔Notes:

• The On-Screen Menu and figures in this manual may differ slightly from the product.
• The contents of this manual are subject to change without notice.
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**Trademarks**  
Each name of corporations or products in this book is either a registered trademark or a trademark of its respective corporation.
To the Owner

Before installing and operating this projector, read this manual thoroughly. This projector provides many convenient features and functions. Operating the projector properly enables you to manage those features and maintains it in good condition for many years to come. Improper operation may result in not only shortening the product-life, but also malfunctions, fire hazard, or other accidents. If your projector seems to operate improperly, read this manual again, check operations and cable connections and try the solutions in the "Troubleshooting" section in the back of this booklet. If the problem still persists, contact the dealer where you purchased the projector or the service center.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE EXCEPT LAMP REPLACEMENT. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT.

THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE OWNER'S MANUAL WITH THIS UNIT.

NOTE: This symbol and recycle system are applied only to EU countries and not applied to the countries in the other area of the world.

Your EIKI product is designed and manufactured with high quality materials and components which can be recycled and reused. This symbol means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from your household waste.

Please dispose of this equipment at your local community waste collection/recycling centre. In the European Union there are separate collection systems for used electrical and electronic products. Please help us to conserve the environment we live in!

READ AND KEEP THIS OWNER'S MANUAL FOR LATER USE.

Safety Precaution

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

– This projector produces intense light from the projection lens. Do not stare directly into the lens, otherwise eye damage could result. Be especially careful that children do not stare directly into the beam.
– Install the projector in a proper position. Otherwise it may result in fire hazard.
– Allowing the proper amount of space on the top, sides, and rear of the projector cabinet is critical for proper air circulation and cooling of the unit. The dimension shown here indicate the minimum space required. If the projector is to be built into a compartment or similarly enclosed, these minimum distances must be maintained.

– Do not cover the ventilation slot on the projector. Heat build-up can reduce the service life of your projector, and can also be dangerous.
– If the projector is unused for an extended time, unplug the projector from the power outlet.

CAUTION ON HANGING FROM THE CEILING

When hanging the projector from the ceiling, clean air intake vents, filters, or top of the projector periodically with a vacuum cleaner. If you leave the projector unclean for a long time, the cooling fans can be clogged with dust, and it may cause a breakdown or a disaster.

DO NOT SET THE PROJECTOR IN GREASY, WET, OR SMOKY CONDITIONS SUCH AS IN A KITCHEN TO PREVENT A BREAKDOWN OR A DISASTER. IF THE PROJECTOR COMES IN CONTACT WITH OIL OR CHEMICALS, IT MAY BECOME DETERIORATED.

CAUTION


Ne peut être utilisé dans une salle d'ordinateurs telle que définie dans la norme ANSI/NFPA 75 Standard for Protection of Electronic Computer/Data Processing Equipment.
Safety Instructions

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

Read all of the instructions given here and retain them for later use. Unplug this projector from AC power supply before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.

Follow all warnings and instructions marked on the projector.

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

Do not expose this unit to rain or use near water... for example, in a wet basement, near a swimming pool, etc...

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

Do not place this projector on an unstable cart, stand, or table. The projector may fall, causing serious injury to a child or adult, and serious damage to the projector. Use only with a cart or stand recommended by the manufacturer, or sold with the projector. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturers.

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

Slots and openings in the back and bottom of the cabinet are provided for ventilation, to ensure reliable operation of the equipment and to protect it from overheating.

The openings should never be covered with cloth or other materials, and the bottom opening should not be blocked by placing the projector on a bed, sofa, rug, or other similar surface. This projector should never be placed near or over a radiator or heat register.

This projector should not be placed in a built-in installation such as a book case unless proper ventilation is provided.

Never push objects of any kind into this projector through cabinet slots 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 projector.

Do not install the projector near the ventilation duct of air-conditioning equipment.

This projector 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 supplied, consult your authorized dealer or local power company.

Do not overload wall outlets and extension cords as this can result in fire or electric shock. Do not allow anything to rest on the power cord. Do not locate this projector where the cord may be damaged by persons walking on it.

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

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

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

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

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

Voor de klanten in Nederland

Bij dit produkt zijn batterijen geleverd.
Wanneer deze leeg zijn, moet u ze niet weggoien maar inleveren als KCA.
Air Circulation

Openings in the cabinet are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered.

CAUTION

Hot air is exhausted from the exhaust vent. When using or installing the projector, the following precautions should be taken.
- Do not put any flammable object or spray can near the projector, hot air is exhausted from the air vents.
- Keep the exhaust vent at least 3’ (1 m) away from any objects.
- Do not touch a peripheral part of the exhaust vent, especially screws and metallic parts. These areas will become hot while the projector is being used.
- Do not put anything on the cabinet. Objects put on the cabinet will not only get damaged but also may cause fire hazard by heat.

Cooling fans are provided to cool down the projector. The fans’ running speed is changed according to the temperature inside the projector.

Moving the Projector

When moving the projector, close the slide shutter and retract adjustable feet to prevent damage to the lens and cabinet.
When the projector is not in use for an extended period, put it into the supplied carrying case with the lens side up.

CAUTION

The carrying case (supplied) is intended for protection against dust and scratches on surface of the cabinet, and it is not designed to protect an appliance from external forces. Do not transport the projector by courier or any other transport service with this case, otherwise the projector can be damaged. When handling the projector, do not drop, bump, subject it to strong forces, or put other things on the cabinet.

CAUTION IN CARRYING OR TRANSPORTING THE PROJECTOR
- Do not drop or bump the projector, otherwise damages or malfunctions may result.
- When carrying the projector, use a suitable carrying case.
- Do not transport the projector by courier or any other transport service in an unsuitable transport case. This may cause damage to the projector. For information about transporting the projector by courier or any other transport service, consult your dealer.
- Do not put the projector in a case before the projector is cooled enough.
Safety Instructions

Installing the Projector in Proper Directions

Use the projector properly in specified positions. Improper positioning may reduce the lamp life and result in severe accident or fire hazard.

This projector can project the picture upward, downward, or backward, perpendicular to the plane of the screen as shown in the figure below.

Positioning Precautions

Avoid positioning the projector as described below when installing.

1. Do not tilt the projector more than 20 degrees from side to side.
2. Do not put the projector on either side to project an image.
3. In upward projection, do not tilt the projector over 10 degrees right and left.
4. In downward projection, do not tilt the projector over 10 degrees right and left.
Compliance

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

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

Use of shielded cable is required to comply with class B limits in Subpart B of Part 15 of FCC Rules.
Do not make any changes or modifications to the equipment unless otherwise specified in the instructions. If such changes or modifications should be made, you could be required to stop operation of the equipment.

Model Number(s) : LC-XB40N
Trade Name : EIKI
Responsible party : EIKI International, Inc.
Address : 30251 Esperanza Rancho Santa Margarita CA 92688-2132 U.S.A.
Telephone No. : 800-242-3454 (949-457-0200)

AC Power Cord Requirement

The AC Power Cord supplied with this projector meets the requirement for use in the country you purchased it.

AC Power Cord for the United States and Canada:
AC Power Cord used in the United States and Canada is listed by the Underwriters Laboratories (UL) and certified by the Canadian Standard Association (CSA).
AC Power Cord has a grounding-type AC line plug. This is a safety feature to be sure that the plug will fit into the power outlet. Do not try to defeat this safety feature. Should you be unable to insert the plug into the outlet, contact your electrician.

THE SOCKET-OUTLET SHOULD BE INSTALLED NEAR THE EQUIPMENT AND EASILY ACCESSIBLE.
Part Names and Functions

Front

1. Zoom Ring
2. Infrared Remote Receiver
3. Focus Ring
4. Projection Lens
5. Slide Shutter Lever
6. Top Controls and Indicators
7. Exhaust Vent

CAUTION
Hot air is exhausted from the exhaust vents. Do not put heat-sensitive objects near this side.

Back

8. Speaker
9. Air Intake Vents
10. Terminals and Connectors
11. Power Cord Connector
12. USB Terminal
13. LAN Connection Terminal
14. Lamp Cover
15. Air Filter
16. Adjustable Feet
17. Battery Cover

*Kensington Security Slot
This slot is for a Kensington lock used to deter theft of the projector.
* Kensington is a registered trademark of ACCO Brands Corporation.

Note:
• 12 USB Terminal and 13 LAN Connection Terminal are for the Network function. Refer to the owner’s manual “Network Set-up and Operation” and owner’s manual of Memory viewer (optionally available).
### Rear Terminal

1. **R/C JACK**
   - When using the wired remote control, connect the wired remote control to this jack with a remote control cable (not supplied).

2. **USB (Series B)**
   - In order to operate the computer with the remote control and use the PAGE ▲▼ buttons on the remote control during a presentation, connect the USB port of the computer to the USB terminal with a USB cable (not supplied) (pp.13, 19).

3. **SERVICE PORT**
   - This jack is used to service the projector.

4. **COMPUTER IN 2/COMPONENT IN**
   - Connect the computer or component video (or RGB Scart) output signal to this terminal (pp.19, 21).
   - Use the supplied VGA cable or a Component-VGA cable commercially available.

5. **MONITOR OUT**
   - This terminal can be used to output the incoming signal from COMPUTER IN 2/COMPONENT IN terminal to the other monitor (p.19).

6. **COMPUTER IN 1/DVI-I**
   - Connect computer output (Digital/Analog DVI-I type) to this terminal (p.19).

7. **LAN Connection Terminal**
   - Connect the LAN cable (refer to the owner’s manual “Network Set-up and Operation”).

8. **ALARM buttons**
   - Use these buttons when setting up the Alarm function (pp.58–59).

9. **VIDEO IN**
   - Connect the composite video output signal to this jack (p.20).

10. **AUDIO IN**
    - Connect the audio output signal from video equipment connected to 9 or 13 to this jack. For a mono audio signal (a single audio jack), connect it to the L (MONO) jack (p.20).

11. **COMPUTER/COMPONENT AUDIO IN**
    - Connect the audio output (stereo) signal from a computer or video equipment connected to 4 or 5 to this jack (pp.19, 21).

12. **AUDIO OUT (VARIABLE)**
    - Connect an external audio amplifier to this jack (pp.19–21).
    - This terminal outputs sound from AUDIO IN terminal (10 or 11).

13. **S-VIDEO IN**
    - Connect the S-VIDEO output signal from video equipment to this jack (p.20).

14. **USB (Series A)**
    - Connect the supplied USB Wireless LAN Adapter or optionally available USB memory for Memory viewer operation (refer to the owner’s manual supplied with the optionally available USB memory).
Part Names and Functions

Top Control

1. ALARM indicator
   Blink's red when informing the setting or battery status (pp.58–59).

2. LAMP REPLACE indicator
   Lights yellow when the projection lamp reaches its end of life (pp.65, 71).

3. ON/STAND–BY button
   Turn the projector on or off (pp.22–23).

4. INPUT button
   Select an input source (pp.30–31, 40–41).

5. KEYSTONE button
   Correct keystone distortion (pp.26, 48).

6. POINT ▲▼◄► (VOLUME +/-) buttons
   - Select an item or adjust the value in the On-Screen Menu (p.24).
   - Pan the image in the Digital zoom + mode (p.39).
   - Adjust the volume level (Point ▲▼buttons) (p.27).

7. SELECT button
   - Execute the selected item (p.24).
   - Expand or compress the image in the Digital zoom mode (p.39).

8. WARNING indicator
   - Lights red when the projector detects an abnormal condition.
   - Blinks red when the internal temperature of the projector exceeds the operating range (pp.62, 71).

9. POWER indicator
   - Lights red when the projector is in stand-by mode.
   - Lights green during operations.
   - Blinks green in the Power management mode (p.52).

10. AUTO SETUP button
    Correct vertical keystone distortion and adjust computer display parameters such as Fine sync., Total dots, and Picture position (pp.26, 47).

11. MENU button
    Open or close the On-Screen Menu (p.24).
Part Names and Functions

To ensure safe operation, please observe the following precautions:

- Do not bend, drop, or expose the remote control to moisture or heat.
- For cleaning, use a soft dry cloth. Do not apply benzene, thinner, splay, or any chemical material.

1. **L-CLICK button**
   - Act as the left mouse button for wireless mouse operation (p.15).
2. **ON/STAND-BY button**
   - Turn the projector on or off (pp.22–23).
3. **WIRED REMOTE jack**
   - Connect the remote control cable (not supplied) to this jack when using as a wired remote control.
4. **SIGNAL EMISSION indicator**
   - Lights red while the laser beam is being emitted from the laser light window or a signal is being sent from the remote control to the projector.
5. **VIDEO button**
   - Select the VIDEO input source (p.40).
6. **COMPUTER button**
   - Select the COMPUTER input source (pp.30–31, 41).
7. **AUTO PC button**
   - Automatically adjust the computer image to its optimum setting (pp.28, 33, 47).
8. **KEYSTONE button**
   - Correct keystone distortion (pp.26, 48).
9. **Point ▲▼ ◀▶ (VOLUME +/-) buttons**
   - Select an item or adjust the value in the On-Screen Menu (p.24).
   - Pan the image in the Digital zoom + mode (p.39).
   - Adjust the volume level (Point ◀▶ buttons) (p.27).
10. **MENU button**
    - Open or close the On-Screen Menu (p.24).
11. **FREEZE button**
    - Freeze the picture on the screen (p.28).
12. **LASER button**
    - Operate the Laser pointer function. Laser beam is emitted while pressing this button for one minute. When using this laser pointer for more than one minute, release this button and press it again (p.14).
    - Display the Pointer on the screen (p.14).
13. **PAGE ▲▼ buttons**
    - Scroll back and forth the pages on the screen when giving a presentation. To use these buttons, connect the projector and your computer with a USB cable (pp.11, 19).
14. **LAMP CONTROL button**
    - Select a lamp mode (pp.28, 53).
15. **D.ZOOM ▲▼ buttons**
    - Zoom in and out the images (pp.28, 39).
16. **RESET/ON/ALL-OFF switch**
    - When using the remote control, set this switch to “ON.” Set it to “ALL OFF” for power saving when it is not used. Slide this switch to “RESET” to initialize the remote control code or switch the Spotlight and Pointer to the Laser pointer function (pp.14–15).
17. **IMAGE button**
    - Select an image mode (pp.29, 36, 43).
18. **MUTE button**
    - Mute the sound (p.27).
19. **P-TIMER button**
    - Operate the P-timer function (p.29).
20. **NO SHOW button**
    - Temporarily turn off the image on the screen (p.29).
21. **R-CLICK button**
    - Act as the right mouse button for wireless mouse operation (p.15).
22. **SELECT button**
    - Execute the selected item (p.24).
    - Expand or compress the image in the Digital zoom mode (p.39).
23. **PRESENTATION POINTER button**
    - Move a pointer of the projector or a pointer for wireless mouse operation (pp.14–15).
24. **AUTO SET button**
    - Correct vertical keystone distortion and adjust the PC display parameters (pp.26, 47).
25. **NETWORK button**
    - Select the Network input or Memory viewer input. See the owner’s manual “Network Set-up and Operation” and owner’s manual of Memory viewer (optionally available).
Part Names and Functions

Laser Pointer Function

This remote control emits a laser beam from the laser light window. Press the LASER button to activate the laser pointer. The signal emission indicator lights red and the red laser beam is emitted. If the LASER button is pressed for more than one minute or if it is released, the laser light goes off. The laser emitted is a Class II laser. Do not look into the laser light window or point the laser beam at yourself or other people. The following is the caution label for the laser beam.

CAUTION: Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. Never look directly into the laser light window while a laser is emitted, otherwise eye damage may result.

The caution label is put on the remote control.

Pointer Function

You can move the Spotlight or Pointer of the projector with the remote control to emphasize a part of the projected image.

1. Press and hold the MENU and NO SHOW buttons for more than 10 seconds to activate the Pointer function. (The Laser pointer has switched to the Pointer function.)

2. Press the LASER button on the remote control pointing toward the projector. The Spotlight or Pointer is displayed on the screen with the LASER button lighting green. Then move the Spotlight or Pointer with the PRESENTATION POINTER button. If the LASER button does not light green and continues to emit a laser beam, try the abovementioned procedure until the LASER button lights green.

3. To clear the Spotlight or Pointer out the screen, press the LASER button pointing toward the projector and see if the LASER button lighting is turned off. To switch to the Laser pointer again, press and hold the NO SHOW and MENU buttons for more than 10 seconds or slide the RESET/ON/ALL-OFF switch to “RESET” and then to “ON”.

When you reset the Pointer function, the remote control code will be reset, as well.

✔ Note:
• You can choose the size of Spotlight (Large/Middle/Small) and the pattern of Pointer (Arrow/Finger/Dot) in the Setting Menu. See “Pointer” on page 53.
Wireless Mouse Operation

The remote control can be used as a wireless mouse for your computer. Before operating the wireless mouse, connect your computer and the projector with a USB cable (not supplied). See “Connecting to a Computer” on page 19. When the Pointer function is used, the wireless mouse is not available.

Remote Control Code

The eight different remote control codes (Code 1–Code 8) are assigned to this projector. Switching the remote control codes prevents interference from other remote controls when several projectors or video equipment next to each other are operated at the same time. Change the remote control code for the projector first before changing that for the remote control. See “Remote control” in the Setting Menu on page 53.

1 Press and hold the MENU and IMAGE buttons for more than five seconds to switch between the codes. The code switches sequentially for one pressing the IMAGE button. See the list below.

2 To initialize the remote control code, slide the RESET/ON/ALL-OFF switch to “RESET,” and then to “ON.” The initial code is set to Code 1.

<table>
<thead>
<tr>
<th>Remote Control Code</th>
<th>Number of Times Pressing IMAGE Button</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code 1</td>
<td>1</td>
</tr>
<tr>
<td>Code 2</td>
<td>2</td>
</tr>
<tr>
<td>Code 3</td>
<td>3</td>
</tr>
<tr>
<td>Code 4</td>
<td>4</td>
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<tr>
<td>Code 5</td>
<td>5</td>
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<td>Code 6</td>
<td>6</td>
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<tr>
<td>Code 7</td>
<td>7</td>
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<tr>
<td>Code 8</td>
<td>8</td>
</tr>
</tbody>
</table>
Remote Control Battery Installation

1 Open the battery compartment lid.
2 Install new batteries into the compartment.
3 Replace the compartment lid.

To insure safe operation, please observe the following precautions:
- Use two (2) AAA or LR03 type alkaline batteries.
- Always replace batteries in sets.
- Do not use a new battery with a used battery.
- Avoid contact with water or liquid.
- Do not expose the remote control to moisture or heat.
- Do not drop the remote control.
- If the battery has leaked on the remote control, carefully wipe the case clean and install new batteries.
- Risk of an explosion if battery is replaced by an incorrect type.
- Dispose of used batteries according to the instructions.

Remote Control Operating Range

Point the remote control toward the projector (Infrared Remote Receiver) when pressing the buttons. Maximum operating range for the remote control is about 16.4' (5 m) and 60 degrees in front of the projector.

Adjustable Feet

Projection angle can be adjusted up to 9.0 degrees with the adjustable feet.

Lift the front of the projector and pull the feet lock latches on both side of the projector upward.

Release the feet lock latches to lock the adjustable feet and rotate the adjustable feet to a proper height, and tilt.

Keystone distortion can be adjusted automatically with the Auto setup function or manually by using the remote control or the menu operation (see pages 26, 47–48).
### Positioning the Projector

For projector positioning, see the figures below. The projector should be set perpendicularly to the plane of the screen.

**Notes:**
- The brightness in the room has a great influence on picture quality. It is recommended to limit ambient lighting in order to obtain the best image.
- All measurements are approximate and may vary from the actual sizes.

<table>
<thead>
<tr>
<th>Screen Size (W x H) mm</th>
<th>33&quot;</th>
<th>40&quot;</th>
<th>100&quot;</th>
<th>150&quot;</th>
<th>200&quot;</th>
<th>300&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:3 aspect ratio</td>
<td>671 x 503</td>
<td>813 x 610</td>
<td>2032 x 1524</td>
<td>3048 x 2286</td>
<td>4064 x 3048</td>
<td>6096 x 4572</td>
</tr>
<tr>
<td>Zoom (min)</td>
<td>4.3' (1.3 m)</td>
<td>5.2' (1.6 m)</td>
<td>13.1' (4.0 m)</td>
<td>20.0' (6.1 m)</td>
<td>26.6' (8.1 m)</td>
<td>———</td>
</tr>
<tr>
<td>Zoom (max)</td>
<td>———</td>
<td>4.3' (1.3 m)</td>
<td>10.8' (3.3 m)</td>
<td>16.4' (5.0 m)</td>
<td>22.0' (6.7 m)</td>
<td>32.8' (10.0 m)</td>
</tr>
</tbody>
</table>
Connecting the AC Power Cord

This projector uses nominal input voltages of 100–120 V or 200–240 V AC and it automatically selects the correct input voltage. It is designed to work with single-phase power systems having a grounded neutral conductor. To reduce the risk of electrical shock, do not plug into any other type of power system.

If you are not sure of the type of power being supplied, consult your authorized dealer or service station. Connect the projector with all peripheral equipment before turning the projector on.

**CAUTION**

For safety, unplug the AC power cord when the projector is not in use. When the projector is connected to an outlet with the AC power cord, it is in stand-by mode and consumes a little electric power.

**NOTE ON THE POWER CORD**

AC power cord must meet the requirements of the country where you use the projector. Confirm the AC plug type with the chart below and proper AC power cord must be used. If supplied the AC power cord does not match your AC outlet, contact your sales dealer.

<table>
<thead>
<tr>
<th>Projector side</th>
<th>AC outlet side</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="To power cord connector on your projector." /></td>
<td><strong>For the U.S.A. and Canada</strong></td>
</tr>
<tr>
<td><img src="image" alt="To the AC outlet. (120 V AC)" /></td>
<td><strong>Ground</strong></td>
</tr>
<tr>
<td><img src="image" alt="To the AC outlet. (200–240 V AC)" /></td>
<td></td>
</tr>
</tbody>
</table>

Connect the AC power cord (supplied) to the projector. The AC outlet must be near this equipment and must be easily accessible.
Connecting to a Computer

Cables used for connection
- VGA Cable (Mini D-sub 15 pin)*
- DVI-I/VGA Cable
- USB Cable
- Audio Cables

(*One cable is supplied; other cables are not supplied with the projector.)

Unplug the power cords of both the projector and external equipment from the AC outlet before connecting cables.

Notes:
- Input sound to the COMPUTER/COMPONENT AUDIO IN terminal when using the COMPUTER IN 1/DVI-I and the COMPUTER IN 2/COMPONENT IN terminal as input.
- When connecting the AUDIO OUT to external audio equipment, the projector’s built-in speaker is disconnected.
- USB cable connection is needed when operating the computer with the remote control or using the PAGE ▲▼ buttons on the remote control.
Connecting to Video Equipment

Cables used for connection
- Video and Audio Cable (RCA x 3)
- S-VIDEO Cable
- Audio Cable
(Cables are not supplied with the projector.)

Unplug the power cords of both the projector and external equipment from the AC outlet before connecting cables.

Notes:
- When connecting the AUDIO OUT to external audio equipment, the projector's built-in speaker is disconnected.
- The S-VIDEO jack connection overrides the VIDEO jack connection when selecting AUTO in the Input Menu (p.40).
- See page 75 for ordering optional cables.
Connecting to Component Video Equipment

Cables used for connection
- Audio Cables
- Scart-VGA Cable
- Component Cable
- Component-VGA Cable
(Cables are not supplied with the projector.)

Notes:
- When connecting the AUDIO OUT to external audio equipment, the projector’s built-in speaker is disconnected.
- See page 75 for ordering optional cables.

Unplug the power cords of both the projector and external equipment from the AC outlet before connecting cables.
Turning On the Projector

1. Complete peripheral connections (with a computer, VCR, etc.) before turning on the projector.

2. Connect the projector’s AC power cord into an AC outlet. The POWER indicator lights red. Open the slide shutter by sliding the slide shutter lever (see pages 10, 64).

3. Press the ON/STAND-BY button on the top control or the remote control. The POWER indicator lights green and the cooling fans start to operate. The preparation display appears on the screen and the count down starts.

4. After the countdown, the input source that was selected the last time and the lamp control status icon (see page 53) appear on the screen.

   If the projector is locked with a PIN code, PIN code input dialog box will appear. Enter the PIN code as instructed below.

Enter a PIN code

Use the Point ▲▼ buttons to enter a number. Press the Point ► button to fix the number and move the red frame pointer to the next box. The number changes to “✳.” If you fixed an incorrect number, use the Point ◄ button to move the pointer to the number you want to correct, and then enter the correct number.

Repeat this step to complete entering a four-digit number.

After entering the four-digit number, move the pointer to “Set.” Press the SELECT button so that you can start to operate the projector.

If you entered an incorrect PIN code, “PIN code” and the number (✳✳✳✳) will turn red for a moment. Enter the correct PIN code all over again.

What is PIN code?

PIN (Personal Identification Number) code is a security code that allows the person who knows it to operate the projector. Setting a PIN code prevents unauthorized use of the projector.

A PIN code consists of a four-digit number. Refer to the PIN code lock function in the Setting Menu on pages 54–55 for locking operation of the projector with your PIN code.

CAUTION ON HANDLING PIN CODE

If you forget your PIN code, the projector can no longer be started. Take a special care in setting a new PIN code; write down the number in a column on page 78 of this manual and keep it at hand. Should the PIN code be missing or forgotten, consult your dealer or service center.

Selected Input Source and Lamp Control

After the OK icon disappears, you can operate the projector.

Notes:

• When the Logo select function is set to “Off,” the logo will not be shown on the screen (p.50).
• When the “Countdown off” or “Off” is selected in the Display function, the countdown will not be shown on the screen (p.48).
• During the countdown period, all operations are invalid.
• If the correct PIN code number is not entered within three minutes after the PIN code dialog box appeared, the projector will be turned off automatically.
• The “1234” is set as the initial PIN code at the factory.

When the Input Search function is set to “On1” or “On2”, the input signal will be searched automatically (p.51).
Turning Off the Projector

1 Press the ON/STAND-BY button on the top control or on the remote control, and “Power off?” appears on the screen.

2 Press the ON/STAND-BY button again to turn off the projector. The POWER indicator starts to blink red, and the cooling fans keep running. (You can select the level of fans’ quietness and speed. See “Fan” on page 56.) At this time, you can unplug the AC power cord even if the fans are still running.

3 When the projector has cooled down enough, the POWER indicator stops blinking and you can turn on the projector. After it is cooled down completely, unplug the AC power cord.

To maintain the life of the lamp, once you turn the projector on, wait at least five minutes before turning it off.

✔ Notes:
- When the On start function is set to “On,” the projector will be turned on automatically by connecting the AC power cord to an AC outlet (p.53).
- Do not operate the projector continuously without rest. Continuous use may result in shortening the lamp life. Turn off the projector and let stand for about an hour in every 24 hours.
- The running speed of cooling fans is changed according to the temperature inside the projector.
- Do not put the projector in a case before the projector is cooled enough.
- If the WARNING indicator blinks or lights red, see “Warning Indicators” on page 62.
- While the POWER indicator is blinking, the lamp is being cooled down and the projector cannot be turned on. Wait until the POWER indicator stops blinking to turn on the projector again.
How to Operate the On-Screen Menu

The projector can be adjusted or set via the On-Screen Menu. For each adjustment and setting procedure, refer to the respective sections in this manual.

1. Press the MENU button on the top control or the remote control to display the On-Screen Menu.

2. Use the Point ▼ buttons to select a Menu icon. Use the Point ▲ buttons to select an item in the selected menu.

3. Press the SELECT button to show the item data. Use the Point ◀ buttons to adjust the values.

To close the On-Screen Menu, press the MENU button again.

✔ Note:
• The selected item is not active until the SELECT button is pressed.
**Menu Bar**

For detailed functions of each menu, see “Menu Tree” on pages 69–70.

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**Basic Operation**

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**For computer source**

**Guide Window**
Show the selected Menu of the On-Screen Menu.

**PC System Menu**
Used to select computer system (p.32).

**Image Select Menu**
Used to select an image mode among Dynamic, Standard, Real, Blackboard(Green), and Image 1–4 (p.36).

**Screen Menu**
Used to adjust size of the image [Normal/True/Wide/Full screen/Digital zoom +/-] (pp.38–39).

**Setting Menu**
Used to set the projector’s operating configurations (pp.47–57).

---

**For video source**

**Input Menu**
Used to select an input source either Video or Computer (pp.40, 41).

**Image Select Menu**
Used to select an image mode among Dynamic, Standard, Cinema, Blackboard(Green) and Image 1–4 (p.43).

**Screen Menu**
Used to set size of image to Normal or Wide (p.46).

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**Input**

**SVGA 1**

**Input Menu**
Used to select an input source either Computer or Video (pp.30–31).

**PC Adjust Menu**
Used to adjust parameters to match with input signal format (pp.33–35).

**Image Adjust Menu**
Used to adjust computer image [Contrast/Brightness/Color temp./White balance (R/G/B)/Sharpness/Gamma] (pp.37–38).

**Sound Menu**
Used to adjust the volume or mute the sound (p.27).

**Wired Menu**
See owner’s manual “Network Setup and Operation.”

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**Input**

**Auto**

**AV System Menu**
Used to select system of selected video source (p.42).

**Image Adjust Menu**
Used to adjust picture image [Contrast/Brightness/Color/Tint/Color temp./White balance (R/G/B)/Sharpness/Gamma/Noise reduction/Progressive] (pp.44–45).

---

Same function as menu for computer source.

Same function as computer menu.
Basic Operation

Zoom and Focus Adjustment

Rotate the Zoom Ring to zoom in and out. Rotate the Focus Ring to adjust the focus of the image.

Auto Setup Function

Auto setup function is provided to automatically correct Keystone distortion according to the projector’s tilt and adjust the computer display parameters (Fine sync, Total dots, and Picture position) by just pressing the AUTO SETUP button on the top control or the AUTO SET button on the remote control. The operational setup for the Auto setup can be changed in the Setting menu. Refer to page 47 for the setting of the Auto setup function.

✔ Notes:
- Auto Keystone corrects vertical distortion only; it does not correct horizontal distortion.
- Auto Keystone cannot work when Ceiling feature is set to “On” in the Setting menu (p.51).
- Perfect correction of the image distortion cannot be ensured with the Auto setup function. If the distortion cannot be corrected properly by pressing the AUTO SETUP/AUTO SET button, adjust manually by pressing the KEYSTONE button on the remote control or selecting Keystone in the Setting menu (p.48).

Keystone Correction

If a projected picture still has keystone distortion after pressing the AUTO SETUP button on the top control or the AUTO SET button on the remote control, correct the image manually as follows:

Press the KEYSTONE button on the remote control. The Keystone dialog box appears. Use the Point ▲▼ buttons to correct keystone distortion. The keystone adjustment can be stored (see page 48).

- Reduce the upper width with the Point ▲ button.
- Reduce the lower width with the Point ▼ button.

Keystone

- The white arrows indicate that there is no correction.
- A red arrow indicates the direction of correction.
- An arrow disappears at the maximum correction.
- If you press the KEYSTONE button on the remote control once more while the keystone dialog box is being displayed, the keystone adjustment will be canceled.
**Sound Adjustment**

**Direct Operation**

**Volume**
Press the VOLUME+/- buttons on the top control or on the remote control to adjust the volume. The volume dialog box appears on the screen for a few seconds.

**Mute**
Press the MUTE button on the remote control to temporarily turn off the sound. To turn the sound back on, press the MUTE button again or press the VOLUME +/– buttons. The Mute function is also effective for the AUDIO OUT jack.

**Menu Operation**

1. Press the MENU button to display the On-Screen Menu. Use the Point buttons to move the red frame pointer to the Sound Menu icon.

2. Use the Point buttons to move the red frame pointer to the desired item, and then press the SELECT button.

**Volume**
Press the Point button to turn up the volume; press the Point button to turn down the volume.

**Mute**
Press the Point buttons to switch the mute function On/Off. When the sound is turned off, “On” is displayed. Press the Point buttons again to turn the sound back on.

**Top Control**

- VOLUME+/- buttons
- VOL – button
- VOL + button
- MUTE button

**Remote Control**

- VOL – button
- VOL + button
- MUTE button

**Volume Dialog Box**

- Approximate level of the volume.
- Press the MUTE button to set the Mute function On or Off. The dialog box disappears after 4 seconds.

**Sound Menu**

- Sound Menu icon
- Approximate level of the volume.
- Exit the Sound Menu.
Remote Control Operation

Using the remote control for some frequently used operations is advisable. Just pressing one of the buttons enables you to make the desired operation quickly without calling up the On-Screen Menu.

COMPUTER/VIDEO/NETWORK button

Press the COMPUTER, VIDEO, or NETWORK button on the remote control to select the input source. For more detail, see pages 30–31, 40–41. Refer to the owner’s manual “Network Set-up and Operation” for details about the network input.

FREEZE button

Press the FREEZE button on the remote control to freeze the picture on the screen. To cancel the Freeze function, press the FREEZE button again or press any other button.

AUTO PC button

Press the AUTO PC button on the remote control to operate the Auto PC Adj. function. The computer screen adjustment can be done easily by pressing this button. See page 33 for details.

D.ZOOM buttons

Press the D.ZOOM buttons on the remote control to enter to the Digital zoom +/- mode. See page 39 for details.

LAMP CONTROL button

Press the LAMP CONTROL button on the remote control to select the lamp mode for changing the brightness on the screen.

- Auto .......... The brightness according to the input signal (between High and Eco mode).
- High .......... Brighter than the Normal mode.
- Normal ....... Normal brightness.
- Eco............. Lower brightness reduces the lamp lower consumption and extends the lamp life.

Note: See the next page for the description of other buttons.
**Basic Operation**

**NO SHOW button**

Press the NO SHOW button on the remote control to black out the image. To restore to normal, press the NO SHOW button again or press any other button. When a projected image is captured and set as “User” in the Logo selection (see page 49), the screen changes each time you press the NO SHOW button as follows:

black out ➔ the captured image ➔ normal ➔ …..

**P-TIMER button**

Press the P-TIMER button on the remote control. The P-Timer display “00:00” appears on the screen and the countdown starts (00:00–59:59). To stop the countdown, press the P-TIMER button. To cancel the P-Timer function, press the P-TIMER button again.

**IMAGE button**

Press the IMAGE button on the remote control to select a desired image mode of the screen. For more detail, see pages 36, 43.

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*Note:*

• See the previous page for the description of other buttons.
**Computer Input**

**Input Source Selection (RGB: Computer 1 (Analog)/Computer 2)**

### Direct Operation

Choose either Computer 1 (Analog) or Computer 2 by pressing the INPUT button on the top control or press the COMPUTER button on the remote control. Before using these buttons, correct input source should be selected through Menu operation as described below.

### Menu Operation

1. Press the MENU button to display the On-Screen Menu. Use the Point buttons to move the red frame pointer to the Input Menu icon.

2. Use the Point buttons to move the red arrow pointer to either Computer 1 (Analog) or Computer 2, and then press the SELECT button.

3. When selecting Computer 1 (Analog), RGB input source will be selected directly. When selecting Computer 2, the Source Select Menu appears. Move the pointer to RGB and then press the SELECT button.

### Notes:

- Computer 2 (COMPUTER IN 2/COMPONENT IN) can accept only RGB signal.
- Wired, Wireless, and Memory viewer are for the Network function. See owner's manual “Network Set-up and Operation” and owner's manual of Memory viewer (optionally available).
- When the Input Search function is set to “On1” or “On2”, the input signal will be searched automatically (p.51).
**Input Source Selection (RGB (PC digital), RGB (AV HDCP))**

**Direct Operation**
Choose Computer 1 (Digital) by pressing the INPUT button on the top control or press the COMPUTER button on the remote control.
Before using these buttons, correct input source should be selected through Menu operation as described below.

![Diagram of Direct Operation]

**Menu Operation**

1. Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to move the red frame pointer to the Input Menu icon.

2. Use the Point ▲▼ buttons to move the red arrow pointer to Computer 1 (Digital), and then press the SELECT button.

3. After the Source Select Menu appeared for Computer 1 (Digital), move the pointer to RGB (PC digital) or RGB (AV HDCP), and then press the SELECT button.

**Notes:**
- Computer 2 (COMPUTER IN 2/COMPONENT IN) can accept only RGB signal.
- HDCP (High-bandwidth Digital Content Protection) is a system for protecting digital entertainment content delivered by DVI (Digital Visual Interface) from being copied. The specification of HDCP is decided and controlled by Digital Content Protection, LLC. Should the specification be changed, this projector may not display the digital content protected by HDCP.
- Wired, Wireless, Memory viewer are for the Network function. See owner’s manual “Network Set-up and Operation” and owner’s manual of Memory viewer (optionally available).
- When the Input Search function is set to “On1” or “On2”, the input signal will be searched automatically (p.51).
Computer System Selection

This projector automatically tunes to various types of computers based on VGA, SVGA, XGA, SXGA, WXGA, or UXGA with its Multi-scan system and Auto PC Adjustment. If a computer is selected as a signal source, this projector automatically detects the signal format and tunes to project a proper image without any additional settings. (Signal formats provided in this projector are shown on pages 72–73.)

One of the following messages may appear when:

- **Auto**
  The projector cannot recognize the connected signal conforming to the provided PC Systems. The “Auto” is displayed on the System Menu box and the Auto PC Adjustment function works to display proper images. If the image is not projected properly, a manual adjustment is required (pp.34–35).

- **-----**
  There is no signal input from the computer. Check the connection between your computer and the projector. (See “Troubleshooting” on page 67.)

- **Mode 1**
  The preset system is manually adjusted in the PC Adjust Menu. The adjusted data can be stored in Mode 1–5 (pp.34–35).

- **SVGA 1**
  PC Systems provided in this projector is chosen. The projector chooses a proper system provided in the projector and displays it.

*Mode 1 and SVGA 1 are examples.

Selecting Computer System Manually

PC system can also be selected manually.

1. Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to move the red frame pointer to the PC System Menu icon.

2. Use the Point ▲▼ buttons to move the red arrow pointer to the desired system and then press the SELECT button.

PC System Menu

The Auto PC Adjustment function operates to adjust the projector.

The PC System Menu icon Selected system is displayed.

Systems in this dialog box can be selected.

Customized Mode (1–5) set in the PC Adjust Menu (pp.34–35).
Auto PC Adjustment

Auto PC Adjustment function is provided to automatically adjust Fine sync, Total dots, Horizontal and Vertical positions to conform to your computer.

Direct Operation
The Auto PC adjustment function can be operated directly by pressing the AUTO PC button on the remote control.

Menu Operation

1. Press the MENU button to display the On-Screen Menu. Use the Point buttons to move the red frame pointer to the PC Adjust Menu icon.

2. Use the Point buttons to move the red frame pointer to Auto PC Adj. and then press the SELECT button twice.

To store adjustment parameters
The adjusted parameters from the Auto PC Adjustment can be stored in the projector. Once the parameters are stored, the setting can be done just by selecting a Mode (1–5) in the PC System Menu (see page 32). See also “Store” on page 35.

Notes:

- Fine sync, Total dots, Horizontal and Vertical position of some computers cannot be fully adjusted with the Auto PC Adjustment function. When the image is not provided properly with this operation, manual adjustments are required (pp.34–35).
- The Auto PC Adjustment cannot be operated when 480i, 575i, 480p, 575p, 720p, 1035i, or 1080i is selected in the PC System Menu (p.32), or when the signal is coming from the DVI-terminal.
Manual PC Adjustment

Some computers employ special signal formats which may not be tuned by Multi-scan system of this projector. Manual PC Adjustment enables you to precisely adjust several parameters to match those signal formats. The projector has five independent memory areas to store those parameters manually adjusted. It allows you to recall the setting for a specific computer.

1. Press the MENU button to display the On-Screen Menu. Use the Point buttons to move the red frame pointer to the PC Adjust Menu icon.

2. Use the Point buttons to move the red frame pointer to the desired item and then press the SELECT button to display the adjustment dialog box. Use the Point buttons to adjust the setting value.

Fine sync
Use the Point buttons to adjust the value, eliminating a flicker from the image displayed (from 0 to 31).

Total dots
Use the Point buttons to adjust the number of total dots in one horizontal period to match your PC image.

Horizontal
Use the Point buttons to adjust the horizontal picture position.

Vertical
Use the Point buttons to adjust the vertical picture position.

Current mode
Press the SELECT button to show H-sync freq. and V-sync freq. of the connected computer.

Clamp
Use the Point buttons to adjust the clamp level. When the image has dark bars, try this adjustment.
Display area H
Use the Point ◀▶ buttons to adjust the horizontal area displayed by this projector.

Display area V
Use the Point ◀▶ buttons to adjust the vertical area displayed by this projector.

Reset
To reset the adjusted data, select Reset and press the SELECT button. A confirmation box appears and then select [Yes]. All adjustments will return to their previous figures.

Mode free
To clear the stored data, select Mode free and then press the SELECT button. Move the red arrow pointer to the Mode that you want to clear and then press the SELECT button.

Store
To store the adjusted data, select Store and then press the SELECT button. Move the red arrow pointer to one of the Modes 1 to 5 in which you want to store, and then press the SELECT button.

Quit
Exit the PC Adjust Menu.

Notes:
• Display area (H/V) cannot be selected when 480i, 575i, 480p, 575p, 720p, 1035i, or 1080i is selected in the PC System Menu (p.32).
• PC Adjust Menu cannot be selected when Computer 1 (Digital) is selected in the Input Menu (p.31).
**Image Mode Selection**

**Direct Operation**
Select the desired image mode from among Dynamic, Standard, Real, Blackboard (Green), Image 1, Image 2, Image 3, and Image 4 by pressing the IMAGE button on the remote control.

**Dynamic**
For viewing pictures in a bright room.

**Standard**
Normal picture mode preset on the projector.

**Real**
Picture mode with improved halftone for graphics.

**Blackboard (Green)**
For the image projected on a blackboard. This mode helps enhance the image projected on a blackboard. This is mainly effective on a green colored board, not truly effective on a black colored board.

**Image 1–4**
For viewing with the user preset image mode in the Image Adjust Menu (see page 37–38). This Image memory is provided in each computer, component, and video input source.

**Menu Operation**

1. Press the MENU button to display the On-Screen Menu. Use the Point buttons to move the red frame pointer to the Image Select Menu icon.

2. Use the Point buttons to move the red frame pointer to the desired image mode and then press the SELECT button.

**Dynamic**
For viewing pictures in a bright room.

**Standard**
Normal picture mode preset on the projector.

**Real**
Picture mode with improved halftone for graphics.

**Blackboard (Green)**
For the image projected on a blackboard. See above for further description.

**Image 1–4**
For viewing with the user preset image mode in the Image Adjust Menu (see page 37–38).
Image Adjustment

1. Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to move the red frame pointer to the Image Adjust Menu icon.

2. Use the Point ▲▼ buttons to move the red frame pointer to the desired item and then press the SELECT button to display the adjustment dialog box. Use the Point ◀▶ buttons to adjust the setting value.

Contrast
Press the Point ◀ button to decrease the contrast; press the Point ◀▶ button to increase the contrast (from 0 to 63).

Brightness
Press the Point ◀ button to decrease the brightness; press the Point ◀▶ button to increase the brightness (from 0 to 63).

Color temp.
Use the Point ▲▼ buttons to select the desired Color temp. level (High, Mid, Low, or XLow).

White balance (Red)
Press the Point ◀ button to lighten red tone; press the Point ◀▶ button to deepen red tone (from 0 to 63).

White balance (Green)
Press the Point ◀ button to lighten green tone; press the Point ◀▶ button to deepen green tone (from 0 to 63).

White balance (Blue)
Press the Point ◀ button to lighten blue tone; press the Point ◀▶ button to deepen blue tone (from 0 to 63).

Sharpness
Press the Point ◀ button to decrease the sharpness of the image; press the Point ◀▶ button to increase the sharpness of the image (from 0 to 15).

Gamma
Use the Point ▲▼ buttons to adjust the gamma value to obtain a better balance of contrast (from 0 to 15).

Reset
To reset the adjusted data, select Reset and press the SELECT button. A confirmation box appears and then select [Yes]. All adjustments will return to their previous figures.

Note:
- When the White balance Red, Green, or Blue is adjusted, the Color temp. level will change to “Adj.”.
Store
To store the adjusted data, select Store and press the SELECT button. Use the Point Arrows buttons to select one from Image 1 to 4 and press the SELECT button.
A confirmation box appears and then select [Yes]. Stored data can be called up by selecting an “Image (1–4)” in the Image Mode Selection on page 36.

Quit
Exit the Image Adjust Menu.

Screen Size Adjustment
This projector has the picture screen resize function, which enables you to customize the image size.

1 Press the MENU button to display the On-Screen Menu. Use the Point Arrows buttons to move the red frame pointer to the Screen Menu icon.

2 Use the Point Arrows buttons to move the red frame pointer to the desired function and then press the SELECT button.

Normal
Provide the image to fit the screen size.

True
Provide the image in its original size. When the original image size is larger than the screen size (1024 x 768), the projector enters to the panning mode automatically. Use the Point Arrows buttons to pan the image. When adjusted, the arrows will turn red. When reached to the correction limits, the arrows will disappear.

Wide
Provide the image to fit the wide video aspect ratio (16:9) by expanding the image width uniformly. This function can be used for providing a squeezed video signal at 16:9.

Full screen
Provide the full screen image.

✔ Notes:
• This Screen Menu cannot be operated when 720p (HDTV), 1035i (HDTV), or 1080i (HDTV) is selected in the PC System Menu (p.32).
• This projector cannot display any resolution higher than 1600 x 1200. If your computer’s screen resolution is higher than it, reset the resolution to the lower before connecting to the projector.
• The image data in other than 1024 x 768 is modified to fit the screen size in initial mode.
• True, Full screen, and Digital zoom +/- cannot be selected when 480i, 575i, 480p, or 575p is selected in the PC System Menu (p.32).
Computer Input

Custom

Adjust the screen scale and position manually with this function.

Press the SELECT button at Custom and the “Custom” is displayed on the screen for a few seconds and then the Aspect dialog box appears.

Scale H/V........... Adjust the Horizontal/Vertical screen scale.
H&V.................. When set to “On,” the aspect ratio is fixed. The “Scale V” appears dimmed and becomes unavailable. Adjust “Scale H,” then the screen scale is automatically modified based on the aspect ratio.

Position H/V ...... Adjust the Horizontal/Vertical screen position.
Common ............ Save the adjusted scale. Press the SELECT button at Common to display a confirmation box. To save the scale, press the SELECT button at “Yes.” When Custom is selected, the saved scale is used.
Reset............... Reset the Common data. Press the SELECT button at Reset to display a confirmation box. To reset, press the SELECT button at “Yes.”

For zooming in and out the images

Digital zoom +

Select Digital zoom +. The On-Screen Menu disappears and “D. zoom +” appears. Press the SELECT button to expand the image size. Use the Point ▲▼▼▲ buttons to pan the image. The Panning function can work only when the image is larger than the screen size.

A projected image can be also expanded by pressing the D.ZOOM ▲ button on the remote control.

Digital zoom –

Select Digital zoom –. The On-Screen Menu disappears and “D. zoom –” appears. Press the SELECT button to compress image size.

The projected image can be also compressed by pressing the D.ZOOM ▼ button on the remote control.

To exit the Digital zoom +/- mode, press any button except the D.ZOOM ▲▼▼▲ buttons, SELECT, and Point buttons.

To return to the previous screen size, select a screen size from the Screen Size Adjustment Menu or select an input source from the Input Source Selection Menu (see pages 30–31) again, or adjust the screen size with the D.ZOOM ▲▼▼▲ buttons.

Notes:

• When no signal is detected, “Normal” is set automatically and the Aspect dialog box disappears.
• The adjustable range for Scale H/V and Position H/V is limited depending on the input signal.

For zooming in and out the images

Digital zoom +

Select Digital zoom +. The On-Screen Menu disappears and “D. zoom +” appears. Press the SELECT button to expand the image size. Use the Point ▲▼▼▲ buttons to pan the image. The Panning function can work only when the image is larger than the screen size.

A projected image can be also expanded by pressing the D.ZOOM ▲ button on the remote control.

Digital zoom –

Select Digital zoom –. The On-Screen Menu disappears and “D. zoom –” appears. Press the SELECT button to compress image size.

The projected image can be also compressed by pressing the D.ZOOM ▼ button on the remote control.

To exit the Digital zoom +/- mode, press any button except the D.ZOOM ▲▼▼▲ buttons, SELECT, and Point buttons.

To return to the previous screen size, select a screen size from the Screen Size Adjustment Menu or select an input source from the Input Source Selection Menu (see pages 30–31) again, or adjust the screen size with the D.ZOOM ▲▼▼▲ buttons.
**Input Source Selection (Video, S-video)**

**Direct Operation**
Choose Video by pressing the INPUT button on the top control or the VIDEO button on the remote control. Before using these buttons, correct input source should be selected through menu operation as described below.

**Menu Operation**
1. Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to move the red frame pointer to the Input Menu icon.
2. Use the Point ▲▼ buttons to move the red arrow pointer to Video and then press the SELECT button to display the Source Select Menu.
3. Move the pointer to the desired source and then press the SELECT button.

**Auto** When selecting Auto, the projector automatically detects incoming video signal, and adjusts itself to optimize its performance. The projector selects connection in the following order:
   1. S-video
   2. Video

**Video** When video input signal is connected to the VIDEO jack, select Video.

**S-video** When video input signal is connected to the S-VIDEO jack, select S-video.

**Notes:**
- Wired, Wireless, and Memory viewer are for the Network function. See the owner's manual “Network Set-up and Operation” and owner's manual of Memory viewer (optionally available).
- When the Input Search function is set to “On 1” or “On2”, the input signal will be searched automatically (p.51).
Input Source Selection (Component, RGB Scart 21-pin)

Direct Operation
Choose Computer 2 by pressing the INPUT button on the top control or press the COMPUTER button on the remote control.
Before using these buttons, correct input source should be selected through Menu operation as described below.

Menu Operation
1. Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to move the red frame pointer to the Input Menu icon.

2. Use the Point ▲▼ buttons to move the red arrow pointer to Computer 2 and then press the SELECT button.

3. After the Source Select Menu appeared for Computer 2, move the pointer to Component or RGB(Scart) and then press the SELECT button.

Component
When the input source is coming from video equipment connected to the COMPUTER IN 2/COMPONENT IN terminal with a Component-VGA Cable, select Component.

RGB (Scart)
When the input source is coming from video equipment connected to the COMPUTER IN 2/COMPONENT IN terminal with a Scart-VGA Cable, select RGB (Scart).

Note:
• Wired, Wireless, Memory viewer are for the Network function. See owner’s manual “Network Set-up and Operation” and owner’s manual of Memory viewer (optionally available).
• When the Input Search function is set to “On 1” or “On2”, the input signal will be searched automatically (p.51).
**Video System Selection**

1. Press the MENU button to display the On-Screen Menu. Use the Point ◀▶ buttons to move the red frame pointer to the AV System Menu icon.

2. Use the Point ▲▼ buttons to move the red arrow pointer to the desired system and then press the SELECT button.

**Video or S-Video**

Auto
The projector automatically detects an incoming video system, and adjusts itself to optimize its performance. When Video System is PAL-M or PAL-N, select the system manually.

PAL/SECAM/NTSC/NTSC4.43/PAL-M/PAL-N
If the projector cannot reproduce proper video image, select a specific broadcast signal format from among PAL, SECAM, NTSC, NTSC 4.43, PAL-M, and PAL-N.

Component

Auto
The projector automatically detects an incoming video signal, and adjusts itself to optimize its performance.

COMPONENT VIDEO SIGNAL FORMAT
If the projector cannot reproduce proper video image, select a specific component video signal format from among 480i, 575i, 480p, 575p, 720p, 1035i, and 1080i.

**AV System Menu (Video or S-Video)**

![AV System Menu (Video or S-Video)](image1)

- **AV System Menu icon**
  - The selected system is displayed.
- Move the pointer to the desired system and press the SELECT button.

**AV System Menu (Component)**

![AV System Menu (Component)](image2)

- **AV System Menu icon**
  - The selected system is displayed.
- Move the pointer to the desired system and press the SELECT button.

✔ **Note:**

- The AV System Menu cannot be selected when selecting RGB (Scart).
**Image Mode Selection**

**Direct Operation**
Select the desired image mode from among Dynamic, Standard, Cinema, Blackboard (Green), Image 1, Image 2, Image 3, and Image 4 by pressing the IMAGE button on the remote control.

**Dynamic**
For viewing pictures in a bright room.

**Standard**
Normal picture mode preset on the projector.

**Cinema**
Picture mode adjusted with fine tone.

**Blackboard (Green)**
For the image projected on a blackboard. This mode helps enhance the image projected on a blackboard. This is mainly effective on a green colored board, not truly effective on a black colored board.

**Image 1–4**
For viewing with the user preset image mode in the Image Adjust Menu (see page 44–45). This Image memory is provided in each computer, component, and video input source.

**Menu Operation**

1. Press the MENU button to display the On-Screen Menu. Use the Point buttons to move the red frame pointer to the Image Select Menu icon.

2. Use the Point buttons to move the red frame pointer to the desired image mode and then press the SELECT button.

**Dynamic**
For viewing pictures in a bright room.

**Standard**
Normal picture mode preset on the projector.

**Cinema**
Picture mode adjusted with fine tone.

**Blackboard (Green)**
For the image projected on a blackboard. See above for further description.

**Image 1–4**
For viewing with the user preset image mode in the Image Adjust Menu (see page 44–45).
Image Adjustment

1. Press the MENU button to display the On-Screen Menu. Use the Point buttons to move the red frame pointer to the Image Adjust Menu icon.

2. Use the Point buttons to move the red frame pointer to the desired item and then press the SELECT button to display the adjustment dialog box. Use the Point buttons to adjust the setting value.

Contrast
Press the Point button to decrease the contrast; press the Point button to increase the contrast (from 0 to 63).

Brightness
Press the Point button to decrease the brightness; press the Point button to increase the brightness (from 0 to 63).

Color
Press the Point button to decrease the intensity of the color; press the Point button to increase the intensity of the color (from 0 to 63).

Tint
Press the Point buttons to adjust the tint value to get a proper color balance (from 0 to 63).

Color temp.
Use the Point buttons to select the desired Color temp. level (High, Mid, Low, or XLow).

White balance (Red)
Press the Point button to lighten red tone; press the Point button to deepen red tone (from 0 to 63).

White balance (Green)
Press the Point button to lighten green tone; press the Point button to deepen green tone (from 0 to 63).

White balance (Blue)
Press the Point button to lighten blue tone; press the Point button to deepen blue tone (from 0 to 63).

✔Notes:
- When the White balance Red, Green, or Blue is adjusted, the Color temp. level will change to “Adj.”.
- Tint cannot be selected when the video system is PAL, SECAM, PAL-M, or PAL-N (p.42).
**Video Input**

### Sharpness
Press the Point ◀ button to decrease the sharpness of the image; press the Point ▶ button to increase the sharpness of the image (from 0 to 15).

### Gamma
Use the Point ◀▶ buttons to adjust the gamma value to obtain a better balance of contrast (from 0 to 15).

### Noise reduction
Noise interference on the screen can be reduced. Select one of the following options to get smoother images.
- Off........ Disabled.
- L1.......... Lower reduction
- L2.......... Higher reduction

### Progressive
An interlaced video signal can be displayed in progressive mode. Select one of the following options.
- Off........ Disabled.
- L1.......... For an active picture.
- L2.......... For a still picture.
- Film....... For watching a film. With this function, the projector reproduces pictures faithful to the original film quality.

### Reset
To reset the adjusted data, select Reset and press the SELECT button. A confirmation box appears and then select [Yes]. All adjustments will return to their previous figures.

### Store
To store the adjusted data, select Store and press the SELECT button. Use the Point ▲▼ buttons to select one from Image 1 to 4 and press the SELECT button. A confirmation box appears and then select [Yes]. Stored data can be called up by selecting “Image (1–4)” in the Image Select Menu on page 43.

### Quit
Exit the Image Adjust Menu.

**Notes:**
- Noise reduction and Progressive cannot be selected when 480p, 575p, 720p, 1035i, or 1080i is selected (p.42).
- Reset and Store icons will be displayed when any adjustment is made.
**Screen Size Adjustment**

This projector has the picture screen resize function, which enables you to customize the image size.

1. Press the MENU button to display the On-Screen Menu. Use the Point ▶ buttons to move the red frame pointer to the Screen Menu icon.

2. Use the Point ▲▼ buttons to move the red frame pointer to the desired function and then press the SELECT button.

**Normal**

Provide the image at the 4:3 normal video aspect ratio.

**Wide**

Provide the image at the 16:9 wide screen ratio.

**Custom**

Adjust the screen scale and position manually with this function. Press the SELECT button at Custom and the “Custom” is displayed on the screen for a few seconds and then the Aspect dialog box appears.

- **Scale H/V**............ Adjust the Horizontal/Vertical screen scale.
- **H&V**................. When set to “On,” the aspect ratio is fixed. The “Scale V” appears dimmed and becomes unavailable. Adjust the “Scale H,” then the screen scale is automatically modified based on the aspect ratio.
- **Position H/V** ...... Adjust the Horizontal/Vertical screen position.
- **Common**............. Save the adjusted scale. Press the SELECT button at Common to display a confirmation box. To save the scale, press the SELECT button at “Yes.” When Custom is selected, the saved scale is used.
- **Reset**................. Reset the Common data. Press the SELECT button at Reset to display a confirmation box. To reset, press the SELECT button at “Yes.”

**Notes:**

- When no signal is detected, “Normal” is set automatically and the Aspect dialog box disappears.
- The adjustable range for Scale H/V and Position H/V is limited depending on the input signal.
- Screen Menu cannot be operated when 720p, 1035i, or 1080i is selected in the AV System Menu (p42).
Setting

This projector has a Setting menu that allows you to set up the other various functions described below.

1. Press the MENU button to display the On-Screen Menu. Use the Point ▼ buttons to move the red frame pointer to the Setting Menu icon.

2. Use the Point ▲▼ buttons to move the red frame pointer to the desired item and then press the SELECT button. The Setting dialog box appears.

Language

The language used in the On-Screen Menu is available in English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Finnish, Polish, Hungarian, Romanian, Russian, Chinese, Korean, and Japanese.

Auto setup

This function enables Auto Keystone correction and Auto PC adjustment by pressing the AUTO SETUP button on the top control or the AUTO SET button on the remote control. Settings for those functions can be altered as follows:

Auto PC Adj.

On  . . . . . Enables Auto PC Adjustment when pressing the AUTO SET button on the remote control or the AUTO SETUP button on the top control.

Off  . . . . . Disables Auto PC Adjustment.

Auto Keystone

Auto  . . . . Always works and corrects keystone distortion according to the projector’s tilt.

Manual  . Works only when pressing the AUTO SET button on the remote control or the AUTO SETUP button on the top control.

Off  . . . . . Disables Auto Keystone.

✔ Notes:

- Auto PC Adj. and Auto Keystone cannot be set “Off” at the same time.
- Auto Keystone corrects vertical distortion only, not correct horizontal distortion.
- The Auto Keystone cannot work when Ceiling feature is On in the Setting menu (p.51).
- Perfect correction of the image distortion cannot be ensured with the Auto setup function. If the distortion is not corrected properly by pressing the AUTO SETUP/AUTO SET button, adjust manually by pressing the KEYSTONE button on the remote control or selecting Keystone in the Setting menu (p.26).
Setting

Keystone
This function is used to store or reset the keystone correction when the AC power cord is unplugged. Use the Point buttons to switch between each option.

Store ........ Keep the keystone correction even when the AC power cord is unplugged.
Reset ........ Release the keystone correction when the AC power cord is unplugged.

To correct keystone distortion, press the SELECT button. The “Keystone” appears on the screen. Use the Point buttons to correct keystone distortion (p.26).

Blue back
When this function is “On,” a blue image is displayed while the input signal is not detected.

Display
This function decides whether to display On-Screen Displays.

On ....................... Show all the On-Screen displays. Use this function when you want to project images after the lamp becomes bright enough. The factory default setting is in this option.

Countdown Off ........ Show the input image instead of the countdown when turning on the projector. Use this function when you want to project the image as early as possible even when the lamp is not bright enough.

Off ....................... Hide the On-Screen Displays except;
● On-Screen Menu
● “Power off?” (p.23)
● “No signal” for Power management (p.52)
● “Please wait ...”
● White arrows for the True function in the Screen Menu (p.38)
Logo (Logo and Logo PIN code lock settings)

This function allows you to customize the screen logo with Logo select, Capture, and Logo PIN code lock functions.

✔ Note:

• When “On” is selected in the Logo PIN code lock function, Logo select and Capture functions cannot be selected.

Logo select

This function decides on the starting-up display from among following options.

User .......... Show the image you captured
Default ..... Show the factory-set logo
Off .......... Show the countdown display only

Capture

This function enables you to capture an image being projected to use it for a starting-up display or interval of presentations.

Select Capture and press the SELECT button.
A confirmation box appears and select [Yes] to capture the projected image.

After capturing the projected image, go to the Logo select function and set it to “User”. Then the captured image will be displayed the next time you turn on the projector or when you press the NO SHOW button (see page 29).

To cancel the Capture function, select [No].

✔ Notes:

• Before capturing an image, select “Standard” in the Image Select Menu to capture a proper image (pp.36, 43).
• A signal from a computer can be captured up to XGA (1024 x 768). A signal from video equipment can be captured except for 720p, 1035i, and 1080i.
• When capturing the image that has been adjusted by the Keystone function, the adjusted data is automatically reset and the projector captures an image without keystone correction.
• When the Logo PIN code lock function is set to “On,” the Capture function cannot be selected.
• When starting to capture a new image, the previously stored image is cleared even if you cancel the capturing.
**Logo PIN code lock**

This function prevents an unauthorized person from changing the screen logo.

**Off**............ The screen logo can be changed freely from the Logo Menu (p.49).
On ............ The screen logo cannot be changed without a Logo PIN code.

If you want to change the Logo PIN code lock setting, press the SELECT button and the Logo PIN code dialog box appears. Enter a Logo PIN code by following the steps below. The initial Logo PIN code is set to “4321” at the factory.

**Enter a Logo PIN code**

Use the Point ▲▼ buttons to enter a number. Press the Point ► button to fix the number and move the red frame pointer to the next box. The number changes to “✳.” If you fixed an incorrect number, use the Point ◀ button to move the pointer to the number you want to correct, and then enter the correct number.

Repeat this step to complete entering a four-digit number.

After entering the four-digit number, move the pointer to “Set.” Press the SELECT button so that you can start to operate the projector.

If you entered an incorrect Logo PIN code, “Logo PIN code” and the number (✳✳✳✳) will turn red for a moment. Enter the correct Logo PIN code all over again.

**Change the Logo PIN code lock setting**

Use the Point ◀► button to switch On/Off, and then press the Point ▼ button to move the pointer to “Quit.” Press the SELECT button to close the dialog box.

**Change the Logo PIN code**

Logo PIN code can be changed to your desired four-digit number. Press the Point ▼ button to select “Logo PIN code change” and then press the SELECT button. The New Logo PIN code input dialog box appears. Set a new Logo PIN code.

Be sure to note the new Logo PIN code and keep it at hand. If you lost the number, you could no longer change the Logo PIN code setting. For details on PIN code setting, refer to “PIN code lock” on pages 54–55.

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**CAUTION:**
WHEN YOU HAVE CHANGED THE LOGO PIN CODE, WRITE DOWN THE NEW PIN CODE IN COLUMN OF THE LOGO PIN CODE NO. MEMO ON PAGE 78, AND KEEP IT SECURELY.
SHOULD THE LOGO PIN CODE BE LOST OR FORGOTTEN, THE LOGO PIN CODE SETTING CAN NO LONGER BE CHANGED.
Ceiling

When this function is set to “On,” the picture will be top/bottom and left/right reversed. This function is used to project the image from a ceiling-mounted projector.

Rear

When this function is set to “On,” the picture will be left/right reversed. This function is used to project the image from rear of the screen.

Input search

This function detects the input signal automatically. When a signal is found, the search will stop. Use the Point buttons to select one of the following options.

- Off: Input search will not work.
- On1: Input search works under the following situation:
  - When pressing the INPUT button on the top control.
  - When pressing the COMPUTER button or VIDEO button on the remote control.
- On2: Input search works under the following situation:
  - When turning on the projector by pressing the ON/STAND-BY button on the top control or the remote control.
  - When pressing the COMPUTER button or VIDEO button on the remote control.
  - When pressing the INPUT button on the top control.
  - When the current input signal is cut off.

*If the No show or Freeze function is active, cancel it to activate the Input search. It is also unavailable when On-Screen menu is displayed.

✔ Notes:

- While Input search is set to “On1” or “On2,” the status of Input and Lamp are displayed every time the signal is switched.
- Only the last selected input source can be detected.
- After searching all input signal and still can not detect any signal, Input search will operate as below:
  - When pressing the INPUT button, Input search will select an input source other than previous one.
  - When pressing the COMPUTER button, Input search will stop at the previous COMPUTER input.
  - When pressing the VIDEO button, Input search will stop at Video.
- If the INPUT button on the top control or COMPUTER or VIDEO buttons on the remote control is pressed during Input search is in progress, Input search will stop and go back to the previous input signal.


**Standby mode**

This function is available when operating the projector via network.

Normal ....... Supply the power to the network function even after turning off the projector. You can turn on/off the projector via network, modify network environment, and receive an e-mail about projector status while the projector is powered off.

Eco ........... Select “Eco” when you do not use the projector via network. The projector’s network function will stop when turning off the projector.

Refer to the owner’s manual “Network Setup and Operation.”

** ✓ Note:**

- When selecting Normal, the cooling fans may be running depending on the temperature inside the projector even if the projector is turned off.

---

**Power management**

For reducing power consumption as well as maintaining the lamp life, the Power management function turns off the projection lamp when the projector is not operated for a certain period.

If the input signal is interrupted and no button is pressed for more than 30 seconds, the timer display with “No signal” appears. It starts the countdown until the lamp is turned off. Use the Point 7 8 buttons to set the countdown timer.

Select one of the following options:

Ready .................. When the lamp has been fully cooled down, the POWER indicator changes to green blinking. In this condition, the projection lamp will be turned on if the input signal is reconnected or any button on the top control or remote control is pressed.

Shut down .......... When the lamp has been fully cooled down, the power will be turned off.

Off ................... Power management function is off.

---

**Power management**

Time left before Lamp is off.

Press the SELECT button at Power management and this dialog box appears. Use the Point 7 8 buttons to choose one of the three options. Press the Point ▼ button to select the timer, and then use the Point 7 8 buttons to set timer.
**Setting**

**On start**
When this function is set to “On,” the projector will be automatically turned on just by connecting the AC power cord to a wall outlet.

**Note:**
- Be sure to turn off the projector properly (see “Turning Off the Projector” on page 23). If the projector is turned off in the incorrect sequence, the On start function does not work properly.

**Lamp control**
This function allows you to change brightness of the screen.
- Auto .......... The brightness according to the input signal (between High and Eco mode).
- High .......... Brighter than the Normal mode.
- Normal ...... Normal brightness
- Eco............. Lower brightness reduces the lamp lower consumption and extends the lamp life.

**Pointer**
You can emphasize a part of the projected image with this function. Use the Point buttons to choose either Spotlight or Pointer and press the SELECT button. Then use the Point buttons to select a size of the Spotlight (Large, Middle, or Small) or a pattern of the Pointer (Arrow, Finger, or Dot). See “Pointer Function” on page 14.

**Remote control**
The eight different remote control codes (Code 1–Code 8) are assigned to the projector; the factory-set, initial code (Code 1) and the other seven codes (Code 2 to Code 8).

The same code should set on both the projector and the remote control. For example, operating the projector in “Code 7”, the remote control code also must be switched to “Code 7”.

**To change the code for the projector**
Select a remote control code in this Setting Menu.

**To change the code for the remote control:**
While holing down the MENU button, press the IMAGE button the number of times corresponding to the remote control code for the projector. See “Remote Control Code” on page 15.
Security (Key lock, PIN code lock, Alarm settings)

This function allows you to use the Key lock, PIN code lock, and Alarm function to set the security for the projector operation.

Key lock

This function locks the top control and remote control buttons to prevent operation by unauthorized persons.

...... Unlocked.
...... Lock the operation of the top control. To unlock, use the remote control.
...... lock the operation of the remote control. To unlock, use the top control.

If the top control accidentally becomes locked and you do not have the remote control nearby or there is something wrong with your remote control, contact the dealer where you purchased the projector or the service center.

PIN code lock

This function prevents the projector from being operated by unauthorized persons and provides the following setting options for security.

Off........ Unlocked.
On1 ........ Enter the PIN code every time turning on the projector.
On2 ........ Enter the PIN code to operate the projector once the power cord is disconnected; as long as the AC power cord is connected, the projector can be operated without a PIN code.

Whenever you change the PIN code lock setting or the PIN code (the four-digit number), you are required to enter the PIN code. The “1234” is set as the initial PIN code at the factory.

If you want to change the PIN code lock setting, Press the SELECT button and the PIN code dialog box appears.

When the projector is locked with a PIN code, the PIN code lock symbol appears on the menu bar.
**Enter a PIN code**

Use the Point ▲▼ buttons to enter a number. Press the Point ► button to fix the number and move the red frame pointer to the next box. The number changes to “✳.” If you fixed an incorrect number, use the Point ▼ button to move the pointer to the number you want to correct, and then enter the correct number.

Repeat this step to complete entering a four-digit number.

After entering the four-digit number, move the pointer to “Set.” Press the SELECT button so that you can start to operate the projector.

If you entered an incorrect PIN code, “PIN code” and the number (✳✳✳✳) will turn red for a moment. Enter the correct PIN code all over again.

**Change the PIN code lock setting**

Use the Point ◄► button to select Off, On1, or On2 and then move the pointer to “Quit” with the Point ▼ button. Press the SELECT button to close the dialog box.

**Change the PIN code**

The PIN code can be changed to your desired four-digit number. Press the Point ▼ buttons to select “PIN code change” and press the SELECT button. The New PIN code input dialog box appears. Set a new PIN code.

**CAUTION:**

WHEN YOU HAVE CHANGED THE PIN CODE, WRITE DOWN THE NEW PIN CODE IN COLUMN OF THE PIN CODE NO. MEMO ON PAGE 78, AND KEEP IT SECURELY. IF YOU FORGET YOUR PIN CODE, THE PROJECTOR CAN NO LONGER BE STARTED.

**Alarm**

This function allows you to configure the Alarm operation. See “How to Use the Antitheft Alarm Function” on pages 58–61.
**Setting**

**Fan**
This function provides the following options in the cooling fans’ operation when the projector is turned off (p.23).
- **L1**...... Normal operation
- **L2**...... Slower and lower-sound than the normal operation (L1), but it takes more time to cool the projector down.

**Fan control**
Choose the running speed of cooling fans from the following options.
- Normal ...... Normal speed
- Max......... Faster than the normal speed.

**Warning log**
This function records anomalous operations while the projector is in operation and use it when diagnosing faults. Up to 10 warning logs are displayed with the latest warning message at the top of the list, followed by previous warning messages in chronological order.

✔ **Note:**
- When the Factory default function is executed, all the warning log records will be deleted.

**Lamp counter**
This function is used to reset the lamp counter.

When the lamp life is left less than 100 hours, the Lamp replacement icon (Fig.1) will appear on the screen, indicating that the end of lamp life is approaching.

When the lamp life is left 0 hour, the Lamp replacement icon (Fig.2) will appear on the screen, indicating that the end of lamp life is reached.

When replacing the projection lamp, reset the lamp counter. See “Resetting the Lamp Counter” on page 66.

✔ **Note:**
- The Lamp replacement icons (Fig.1 and Fig.2) will not appear when the Display function is set to “Off” (p.48), during “Freeze” (p.28), or “No show” (p.29).

![Fan icon]

**Fan**

This icon appears on the screen when the end of lamp life is approaching.

✔ **Note:**
- This icon also appears at turning on and selecting input source.

![Fig.1 Lamp replacement icon]

This icon appears on the screen when the end of lamp life is reached.

✔ **Note:**
- At turning on, the icon (Fig.2) will appear. At selecting input source, the icon (Fig.1) will appear.
Filter counter

This function is used to set a frequency for the filter cleaning.

When the projector reached a specified time between cleanings, a Filter warning icon appears on the screen, notifying the cleaning is necessary. After cleaning the filter, be sure to select RESET and set the timer. The Filter warning icon will not turn off until the filter counter is reset.

For details about resetting the timer, refer to “Resetting the Filter Counter” on page 63.

Factory default

This function returns all setting values except for the user logo, PIN code lock, Logo PIN code lock, lamp counter, and filter counter to the factory default settings.

Exit the Setting Menu.

Filter counter

Use the Point button to set the timer. Select from (Off/100H/200H/300H) depending on the use environment.

Fig.3  Filter warning icon

Filter warning icon appears on the screen at a set time.

✔ Note:

• This icon also appears at turning on.

Fig.4  Filter warning icon

✔ Notes:

• At selecting input source, the icon (Fig.4) will appear.
• The Filter warning icons (Fig.3 and Fig.4) will not appear when the Display function is set to “Off” (p.48), during “Freeze” (p.28), or “No show” (p.29).

Factory default

Select Factory default and this box appears. Select [Yes], and the next box appears.

Select [Yes] to activate it.
Antitheft Alarm Function

How to Use the Antitheft Alarm Function

Antitheft alarm function is provided to prevent the projector from being stolen. When this function is set to “On,” the alarm rings as an unauthorized person tries to move the projector. To activate the Alarm function for the first time after purchase, you must turn on the power once.

✔ Notes:
• This function is not a guarantee against stealing.
• The alarm does not ring while the AC power cord is connected to an outlet even if the projector detects vibrations.
• The alarm will stop, as the AC power cord is connected to an outlet, except when the battery cover is open.
• Pressing the buttons is always accompanied by a sound. If no sound is produced after pressing a button, you need to press it again.

The Alarm function is operated by a built-in rechargeable battery. The alarm will not work properly if the battery is not charged enough. See page 60 for details.

Set and release the Antitheft alarm function

The Alarm setting and release and PIN Code change can be made without an AC power connection.

Set the alarm

Press the F button three times to turn the alarm function on. The ALARM indicator blinks for a few seconds and the projector enters the warning mode. (If the battery is not charged enough for the alarm function to operate normally, it bleeps and the Alarm indicator will blink red every 20 seconds.)

During the Antitheft alarm function is on, the projector emits a low-pitched sound when it detects vibration. When the projector does not detect vibration for a few seconds after the sound, it goes back to the warning mode. When the projector detects more vibrations after the low-pitched sound, the alarm starts ringing.

The Alarm operating configuration (Battery charge, Alarm volume, Sensitivity, and Ringing time) can be selected in the menu. See page 59.

✔ Notes:
• You can test the alarm sound without setting the alarm function. Press and hold the F button, then the alarm starts ringing. The duration of the alarm sound is the same as the “Ringing Time” setting (p.59).
• If you want to stop the alarm while it is ringing, insert the AC power cord to an outlet or press the F button and enter the four-digit PIN code number.

Release the alarm setting

Press the F button and enter the four-digit PIN code number within about 10 seconds. (The default PIN code is set to “1111.”) When the alarm is released, you will hear a high-pitched confirmation sound.

When you enter an incorrect PIN code, you will hear a low-pitched sound. If you enter an incorrect PIN code three times in a row, the alarm will start ringing.
Antitheft Alarm Function

Other settings

Change the PIN code

1 Press the F button and enter the four-digit PIN code number within about 10 seconds. The ALARM indicator blinks red for a few seconds and a high-pitched confirmation sound is produced.

2 While the indicator is blinking, enter a new PIN code, then you will hear a high-pitched confirmation sound and the ALARM indicator is turned off.

When you enter an incorrect PIN code, you will hear a low-pitched sound. If you enter incorrect PIN code three times in a row, the alarm will start ringing.

The PIN code for the Antitheft alarm function is a combination of 1, 2, or 3. Use the buttons 1, 2, and 3 to enter the PIN code. The default PIN code is “1111.”

Reset the settings

Select “Factory default” in the Setting menu to reset the settings for the Antitheft alarm function.

✓ Note:
• This is effective only when the Antitheft alarm setting is released.

Alarm operating configuration

The Alarm operating configuration can be changed when the Antitheft alarm function is set to “Off.” See page 58 for setting or releasing this function.

Press the SELECT button at Alarm icon in the Setting Menu to display the Alarm setting dialog box. Use the Point ▲▼ buttons to select the desired option; use the Point ◀▶ buttons to set the selected option.

Battery charge
See the next page for details.

Alarm volume
Small, Medium, Large

Sensitivity
Low .....................Less sensitive
Medium .................Normal sensitivity
High .....................Highly sensitive (default)

Ringing time
10 seconds ..........Rings about 10 seconds (default).
60 seconds ..........Rings about 60 seconds.
Long time ............Rings until the end of the battery life.

CAUTION:
WHEN YOU HAVE CHANGED THE PIN CODE, WRITE DOWN THE NEW PIN CODE AND KEEP IT SECURELY. IF YOU FORGET YOUR PIN CODE, SOME SETTINGS OF THE ANTITHEFT ALARM FUNCTION CAN NO LONGER BE CHANGED.
**Antitheft Alarm Function**

---

**Charge the built-in batteries**

Set the Battery charge option in the Alarm setting menu to “Auto.” The default setting is “Auto.”

As long as the AC power cord is connected and this option is set to “Auto,” the built-in battery for Alarm function is being charged at all times. While charging the battery, “Charging” is displayed in the menu. The “Charging” appears dimmed when the battery is fully charged or the Battery charge option is set to “Off,” or if charging malfunction occurs. Set the option to “Off” when not using the Alarm function. This can save the power and battery life.

---

**Replace the rechargeable batteries**

Use only the specified battery for this projector. Using other types of battery may cause accident or fire hazard.

Replacement Battery: SANYO Ni-MH BATTERY PACK  
Part No. 645 089 8587

---

**How to replace the rechargeable batteries**

1. Unplug the AC power cord from a wall outlet.

2. Set the Alarm function to “Off” (see page 58). If it is not released, the alarm will start ringing when you try to remove the rechargeable battery cover.

3. Remove the screw from the rechargeable battery cover and open the cover.

4. Pull out the battery connector and remove the battery.

5. Install new battery and plug the connector into the socket.  
   **Note:** The battery connector has polarity. Observe battery polarity when installing.

6. Put back the battery cover and secure it with the screw. **Caution:** Tighten the screw securely. If you fail to do so, the alarm will not operate. Do not use any other screws. This may cause damage to the projector.

---

✔️ **Note:**

- The PIN code and settings you have changed are effective even after the battery is changed.
SAFETY PRECAUTIONS FOR Ni-MH BATTERY PACK
Observe the following precautions when handling the built-in battery pack of the projector:

● MAKE SURE THAT THE BATTERY PACK IS INSTALLED IN THE PROJECTOR WHEN RECHARGING. USING THE CHARGERS OTHER THAN THE PROJECTOR MAY CAUSE EXPLOSION OR A FIRE.
● The rechargeable battery pack is for use exclusively with this projector. Do not use in other products or this may cause accident.
● Do not throw the battery into fire or heat it. Doing so may cause an explosion or fire.
● Never attempt to disassemble, modify, reconstruct, or solder lead wires directly on to the battery.
● Do not drop or subject to strong forces. Doing so may cause the battery to leak fluid or explode.
● Do not expose to direct sunlight or high temperatures. This may degrade battery performance or cause leakage.
● Avoid contact with water or liquid. Exposure to water or liquid could result in battery corrosion or damage.
● Keep out of reach of children. They may accidentally swallow the battery.
● Do not short-circuit battery terminals with metal objects. Do not store with metal objects or in a metal case.
● The rechargeable battery pack has a limited number of charge cycles and eventually need to be replaced. If it can no longer be recharged, stop charging immediately and replace it with new one.
● Recharge the battery in a place where the temperature is always between 32˚F to 104˚F (0˚C to 40˚C). Charging in the temperature out of this range may result in fluid leak, heat generation, or shortening battery life.
● If you do not use the projector or the Antitheft alarm function for a long period of time, remove the battery from the projector and store it in a place where the temperature is always between −4˚F to 86˚F (−20˚C to 30˚C).
● If a battery leaks and fluid comes in contact with skin, this may cause skin irritation. Flush the affected area thoroughly with water.
● If a battery leaks and fluid gets in contact with eyes, wash your eyes with water immediately and seek medical attention.
● Dispose of used batteries according to your local disposal rule and guidelines.
Maintenance and Cleaning

Warning Indicator

The WARNING indicator shows the state of the function which protects the projector. Check the state of the WARNING indicator and the POWER indicator to take proper maintenance.

The projector is shut down and the WARNING indicator is blinking red.

When the temperature inside the projector reaches a certain level, the projector will be automatically shut down to protect the inside of the projector. The POWER indicator is blinking while the projector is being cooled down. When the projector has cooled down enough (to its normal operating temperature), it can be turned on again by pressing the ON/STAND-BY button.

✔ Note:
- The WARNING indicator continues to blink even after the temperature inside the projector returns to normal. When the projector is turned on again, the WARNING indicator stops blinking.

Then check the matters below:
- Did you provide appropriate space for the projector to be ventilated? Check the installing condition to see if the air vents of the projector are not blocked.
- Has the projector been installed near an Air-Conditioning/Heating Duct or Vent? Move the installation of the projector away from the duct or vent.
- Is the filter clean? Clean the filter periodically.

The projector is shut down and the WARNING indicator lights red.

When the projector detects an abnormal condition, it is automatically shut down to protect the inside of the projector and the WARNING indicator lights red. In this case, unplug the AC power cord and reconnect it, and then turn the projector on once again to verify operation. If the projector cannot be turned on and the WARNING indicator still lights red, unplug the AC power cord and contact the service station.

CAUTION
DO NOT LEAVE THE PROJECTOR WITH THE AC POWER CORD CONNECTED UNDER AN ABNORMAL CONDITION. IT MAY RESULT IN FIRE OR ELECTRIC SHOCK.
Cleaning the Filter

Filter prevents dust from accumulating on the optical elements inside the projector. Should the filter becomes clogged with dust particles, it will reduce cooling fans’ effectiveness and may result in internal heat buildup and adversely affect the life of the projector. If a “Filter warning” icon appears on the screen, clean the filter immediately. Clean the filter by following the steps below.

1. Turn off the projector, and unplug the AC power cord from the AC outlet.
2. Turn the projector over and remove the filter by pulling the latches upward.
3. Gently clean the filter by using a brush or rinse it softly.
4. When rinsing the filter, dry it well. Replace the filter properly. Make sure that the filter is fully inserted to the projector.

CAUTION
Do not operate the projector with the filter removed. Dust may accumulate on the optical elements degrading picture quality. Do not put anything into the air vents. Doing so may result in malfunction of the projector.

RECOMMENDATION
We recommend avoiding dusty/smoky environments when you operate the projector. Usage in these environments may cause poor image quality.

When using the projector under dusty or smoky conditions, dust may accumulate on a lens, LCD panels, or optical elements inside the projector degrading the quality of a projected image. When the symptoms above are noticed, contact your authorized dealer or service station for proper cleaning.

Resetting the Filter Counter

Be sure to reset the Filter counter after cleaning or replacing the filter.

1. Press the MENU button to display the On-Screen Menu. Use the Point buttons to move the red frame pointer to the Setting Menu icon.
2. Use the Point buttons to move the red frame pointer to Filter counter and then press the SELECT button. A dialog box appears showing the total accumulated time of the filter use, a timer setting option, and the reset option. Select Reset and the “Filter counter Reset?” appears. Select [Yes] to continue.
3. Another confirmation dialog box appears, select [Yes] to reset the Filter counter.
**Slide Shutter**

Slide Shutter is provided to protect the surface of the lens against scratches and dirt. When you are not using the projector, close the Slide Shutter.

To open or close, use the Slide Shutter Lever on the top of the cabinet.

Do not close the shutter when the projection lamp is on.

**Cleaning the Projection Lens**

Unplug the AC power cord before cleaning.

Gently wipe the projection lens with a cleaning cloth that contains a small amount of non-abrasive camera lens cleaner, or use a lens cleaning paper or commercially available air blower to clean the lens.

Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents, or other harsh chemicals might scratch the surface of the lens.

**Cleaning the Projector Cabinet**

Unplug the AC power cord before cleaning.

Gently wipe the projector body with a soft dry cleaning cloth. When the cabinet is heavily soiled, use a small amount of mild detergent and finish with a soft dry cleaning cloth. Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents, or other harsh chemicals might scratch the surface of the cabinet.

When the projector is not in use, put the projector in an appropriate carrying case to protect it from dust and scratches.
**Lamp Replacement**

When the projection lamp of the projector reaches its end of life, the Lamp replacement icon appears on the screen and LAMP REPLACE indicator lights yellow. Replace the lamp with a new one promptly. The timing when the LAMP REPLACE indicator should light is depending on the lamp mode.

Follow these steps to replace the lamp.

1. Turn off the projector and unplug the AC power cord. Let the projector cool for at least 45 minutes.
2. Open the lamp cover.
3. Remove the two (2) screws that secure the lamp. Lift the lamp out of the projector by using the handle.
4. Replace the lamp with a new one and secure the two (2) screws. Make sure that the lamp is set properly. Close the lamp cover.
5. Connect the AC power cord to the projector and turn on the projector.
6. Reset the lamp counter. See “Resetting the Lamp Counter” on the next page.

**ORDER REPLACEMENT LAMP**

Replacement lamp can be ordered through your dealer. When ordering a projection lamp, give the following information to the dealer.

- Model No. of your projector: LC-XB40N
- Replacement Lamp Type No.: POA-LMP103 (Service Parts No. 610 331 6345)

**WARNING:**
TURN OFF THE UV LAMP BEFORE OPENING THE LAMP COVER

**CAUTION**
Allow a projector to cool for at least 45 minutes before you open the Lamp cover. The inside of the projector can become very hot.

**CAUTION**
For continued safety, replace with a lamp of the same type. Do not drop a lamp or touch a glass bulb! The glass can shatter and may cause injury.

**Top Control**

LAMP REPLACE indicator

Lamp replacement icon

**Note:**
- The Lamp replacement icon will not appear when the Display function is set to “Off” (p.48), during “Freeze” (p.28), or “No show” (p.29).
Maintenance and Cleaning

Resetting the Lamp Counter

Be sure to reset the Lamp counter after the lamp is replaced. When the Lamp counter is reset, the LAMP REPLACE indicator stops lighting and the Lamp replacement icon disappears.

1. Press the MENU button to display the On-Screen Menu. Use the Point buttons to move the red frame pointer to the Setting Menu icon.

2. Use the Point buttons to move the red frame pointer to Lamp counter and then press the SELECT button. A dialog box appears showing the total accumulated time of the lamp usage and the reset option. Select Reset and the “Lamp replacement counter Reset?” appears. Select [Yes] to continue.

3. Another confirmation dialog box appears, select [Yes] to reset the Lamp counter.

✓ Note:
• Do not reset the Lamp counter without implementing lamp replacement. Be sure to reset the Lamp counter only after replacing the lamp.

LAMP HANDLING PRECAUTIONS

This projector uses a high-pressure lamp which must be handled carefully and properly. Improper handling may result in accidents, injury, or create a fire hazard.

• Lamp life may differ from lamp to lamp and according to the environment of use. There is no guarantee of the same life for each lamp. Some lamps may fail or terminate their life in a shorter period of time than other similar lamps.

• If the projector indicates that the lamp should be replaced, i.e., if the LAMP REPLACE indicator lights up, replace the lamp with a new one IMMEDIATELY after the projector has cooled down. (Follow carefully the instructions in the Lamp Replacement section of this manual.) Continuous use of the lamp with the LAMP REPLACE indicator lighted may increase the risk of lamp explosion.

• A Lamp may explode as a result of vibration, shock or degradation as a result of hours of use as its lifetime draws to an end. Risk of explosion may differ according to the environment or conditions in which the projector and lamp are being used.

IF A LAMP EXPLODES, THE FOLLOWING SAFETY PRECAUTIONS SHOULD BE TAKEN.

If a lamp explodes, disconnect the projector’s AC plug from the AC outlet immediately. Contact an authorized service station for a checkup of the unit and replacement of the lamp. Additionally, check carefully to ensure that there are no broken shards or pieces of glass around the projector or coming out from the cooling air circulation holes. Any broken shards found should be cleaned up carefully. No one should check the inside of the projector except those who are authorized trained technicians and who are familiar with projector service. Inappropriate attempts to service the unit by anyone, especially those who are not appropriately trained to do so, may result in an accident or injury caused by pieces of broken glass.
Troubleshooting

Before calling your dealer or service center for assistance, check the items below once again.

– Make sure you have properly connected the projector to peripheral equipment as described on pages 19–21.
– Make sure all equipment is connected to AC outlet and the power is turned on.
– When the projector does not project an image from the connected computer, restart the computer.

Problem:  

<table>
<thead>
<tr>
<th>No power</th>
<th>Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>– Plug the power cord of the projector into the AC outlet.</td>
<td></td>
</tr>
<tr>
<td>– See if the POWER indicator lights red.</td>
<td></td>
</tr>
<tr>
<td>– Wait 90-120 seconds after the projector is turned off when turning the projector back on. The projector can be turned on after the POWER indicator turns red. See on page 22.</td>
<td></td>
</tr>
<tr>
<td>– Check the WARNING indicator. If the WARNING indicator lights red, projector cannot be turned on. See on page 62.</td>
<td></td>
</tr>
<tr>
<td>– Check the projection lamp. See page 65.</td>
<td></td>
</tr>
<tr>
<td>– Unlock the Key lock function for the projector. See page 54.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Image is out of focus.</th>
<th>Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>– Adjust focus of the projector. See page 26.</td>
<td></td>
</tr>
<tr>
<td>– Provide proper distance between the projector and the projection screen. See page 17.</td>
<td></td>
</tr>
<tr>
<td>– Check the projection lens to see if it needs cleaning. See page 64.</td>
<td></td>
</tr>
<tr>
<td>– Moving the projector from a cool to warm place may result in moisture condensation on the projection lens. In such cases, leave the projector off and wait until condensation evaporates.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No image</th>
<th>Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>– Check the connection between your computer or video equipment and the projector. See page 19–21.</td>
<td></td>
</tr>
<tr>
<td>– See if the input signal is correctly output from your computer. Some laptop computers may need to change the setting for monitor output when connecting to a projector. See your computer’s instruction manual for the setting.</td>
<td></td>
</tr>
<tr>
<td>– It takes about 30 seconds to display an image after turning on the projector. See page 22.</td>
<td></td>
</tr>
<tr>
<td>– See if the selected system is corresponding with your computer or video equipment. See pages 32, 42.</td>
<td></td>
</tr>
<tr>
<td>– Select correct input source once again through menu operation. See pages 30–31, 40–41.</td>
<td></td>
</tr>
<tr>
<td>– Make sure the temperature is not out of the specified Operating Temperature (41°F–95°F [5°C–35°C]).</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Image is Left/Right reversed. Image is Top/Bottom reversed.</th>
<th>Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>– Check the Ceiling/Rear function. See page 51.</td>
<td></td>
</tr>
<tr>
<td>– Check the Ceiling function. See page 51.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No sound</th>
<th>Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>– Check the audio cable connection from audio input source.</td>
<td></td>
</tr>
<tr>
<td>– Adjust the audio source.</td>
<td></td>
</tr>
<tr>
<td>– Press the Volume + button. See page 27.</td>
<td></td>
</tr>
<tr>
<td>– Press the Mute button. See page 27.</td>
<td></td>
</tr>
</tbody>
</table>
## Appendix

### Some displays are not seen during the operation.
- Check the Display function. See page 48.

### PIN code dialog box appears at start-up.
- PIN code lock is being set. Enter a PIN code (the “1234” or numbers you have set). See pages 22, 54–55.

### The Remote Control does not work.
- Check the batteries.
- Make sure no obstruction is between the projector and remote control.
- Make sure you are not too far from the projector when using the remote control. Maximum operating range is 16.4’ (5 m).
- Make sure the code of the remote control is conformed to the projector’s code. See page 53.
- Unlock the Key lock function for the remote control function. See page 54.

### WARNING:
**High voltages are used to operate this projector. Do not attempt to open the cabinet.**

If problems still persist after following all operating instructions, contact the dealer where you purchased the projector or the service center. Specify the model number and explain about the problem. We will advise you how to obtain service.

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The CE Mark is a Directive conformity mark of the European Community (EC).

This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.
Appendix

Menu Tree

Computer Input/Video Input

<table>
<thead>
<tr>
<th>Input</th>
<th>Computer 1 (Analog)</th>
<th>Go to System (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Computer 1 (Digital)</td>
<td>RGB (PC digital)</td>
</tr>
<tr>
<td></td>
<td>Component</td>
<td>RGB (AV HDCP)</td>
</tr>
<tr>
<td></td>
<td>Computer 2</td>
<td>RGB</td>
</tr>
<tr>
<td></td>
<td>Component</td>
<td>RGB</td>
</tr>
<tr>
<td></td>
<td>Video</td>
<td>Auto</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Video</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S-video</td>
</tr>
<tr>
<td></td>
<td>Wired</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wireless*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Memory viewer*</td>
<td></td>
</tr>
</tbody>
</table>

Sound

<table>
<thead>
<tr>
<th>Sound</th>
<th>Volume</th>
<th>0–63</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mute</td>
<td>On/Off</td>
</tr>
<tr>
<td></td>
<td>Quit</td>
<td></td>
</tr>
</tbody>
</table>

Computer Input

SVGA 1

System (1)

*Systems displayed in the System Menu vary depending on an input signal.

PC Adjust

Auto PC Adj. | 0–31
---|---
Fine sync | 0–31
Total dots | H-sync freq.
Horizontal | V-sync freq.
Vertical | Quit
Current mode | Clamp
Display area H | Display area V
Reset | Yes/No
Mode free | Mode 1
Mode 2 | Mode 3
Mode 4 | Mode 5
Mode 6 | Quit
Store | Mode 1
Mode 2 | Mode 3
Mode 4 | Mode 5
Mode 6 | Quit
Quit |     

Image Select

Dynamic | Standard
Real | Blackboard (Green)
Image 1 | Image 2
Image 3 | Image 4

Image Adjust

Contrast | 0–63
Brightness | 0–63
Color temp. | High
Low | XLow
Adj. | Red | 0–63
Green | 0–63
Blue | 0–63
Sharpness | 0–15
Gamma | 0–15
Reset | Yes/No
Store | Image 1
Image 2 | Image 3
Image 4 | Quit

Screen

Normal | True
Wide | Full screen
Digital zoom + | Digital zoom –
## Indicators and Projector Condition

Check the indicators for projector condition.

<table>
<thead>
<tr>
<th>Indicators</th>
<th>Projector Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="red/green" alt="Power" /> <img src="red" alt="Warning" /> <img src="yellow" alt="Lamp Replace" /></td>
<td>The projector is off. (The AC power cord is unplugged.)</td>
</tr>
<tr>
<td><img src="red/green" alt="Power" /> <img src="red" alt="Warning" /> <img src="yellow" alt="Lamp Replace" /></td>
<td>The projector is in stand-by mode. Press the ON/STAND-BY button to turn on the projector.</td>
</tr>
<tr>
<td><img src="red/green" alt="Power" /> <img src="red" alt="Warning" /> <img src="yellow" alt="Lamp Replace" /></td>
<td>The projector is operating normally.</td>
</tr>
<tr>
<td><img src="red/green" alt="Power" /> <img src="red" alt="Warning" /> <img src="yellow" alt="Lamp Replace" /></td>
<td>The temperature inside the projector is abnormally high. The projector cannot be turned on. When the projector is cooled down enough and the temperature returns to normal, the POWER indicator stops blinking and the projector can be turned on. (The WARNING indicator keeps blinking.) Check and clean the filter.</td>
</tr>
<tr>
<td><img src="red/green" alt="Power" /> <img src="red" alt="Warning" /> <img src="yellow" alt="Lamp Replace" /></td>
<td>The projector has been cooled down enough and the temperature returns to normal. When turning on the projector, the WARNING indicator stops blinking. Check and clean the air filter.</td>
</tr>
<tr>
<td><img src="red/green" alt="Power" /> <img src="red" alt="Warning" /> <img src="yellow" alt="Lamp Replace" /></td>
<td>The projector is preparing for stand-by or the projection lamp is being cooled down. The projector cannot be turned on until cooling is completed and the POWER indicator stops blinking.</td>
</tr>
<tr>
<td><img src="red/green" alt="Power" /> <img src="red" alt="Warning" /> <img src="yellow" alt="Lamp Replace" /></td>
<td>The projector detects an abnormal condition and cannot be turned on. Unplug the AC power cord and plug it again to turn on the projector. If the projector is turned off again, unplug the AC power cord and contact the dealer or the service center for service and checkup. Do not leave the projector on. It may cause an electric shock or a fire hazard.</td>
</tr>
<tr>
<td><img src="red/green" alt="Power" /> <img src="red" alt="Warning" /> <img src="yellow" alt="Lamp Replace" /></td>
<td>The projector is in the Power management mode.</td>
</tr>
<tr>
<td><img src="red/green" alt="Power" /> <img src="red" alt="Warning" /> <img src="yellow" alt="Lamp Replace" /></td>
<td>The projector’s Network or Memory viewer function is in an abnormal condition.</td>
</tr>
</tbody>
</table>

- ![Power](red/green) green.
- ![Warning](red) red
- ![Lamp Replace](yellow) off
- ![Power](red/green) blinks green.
- ![Warning](red) blinks red.

When the projection lamp reaches its end of life, the LAMP REPLACE indicator lights yellow. When this indicator lights yellow, replace the projection lamp with a new one promptly. Reset the lamp replacement counter after replacing the lamp. See pages 65–66.
### Compatible Computer Specifications

Basically this projector can accept the signal from all computers with the V-, H-Frequency mentioned below and less than 140 MHz of Dot Clock for analog signal and 110 MHz of Dot Clock for digital signal. When selecting these modes, PC adjustment can be limited.

<table>
<thead>
<tr>
<th>ON-SCREEN DISPLAY</th>
<th>RESOLUTION</th>
<th>H-Freq. (KHz)</th>
<th>V-Freq. (Hz)</th>
<th>ON-SCREEN DISPLAY</th>
<th>RESOLUTION</th>
<th>H-Freq. (KHz)</th>
<th>V-Freq. (Hz)</th>
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<tbody>
<tr>
<td>VGA 1</td>
<td>640 x 480</td>
<td>31.47</td>
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<td>SXGA 1</td>
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<td>70.40</td>
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<tr>
<td>VGA 2</td>
<td>720 x 400</td>
<td>31.47</td>
<td>70.09</td>
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<td>1280 x 1024</td>
<td>62.50</td>
<td>58.60</td>
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<td>63.90</td>
<td>60.00</td>
</tr>
<tr>
<td>VGA 4</td>
<td>640 x 480</td>
<td>37.86</td>
<td>74.38</td>
<td>SXGA 4</td>
<td>1280 x 1024</td>
<td>63.34</td>
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<td>VGA 5</td>
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<td>1367 x 768</td>
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<td>60.00</td>
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<td>XGA 5</td>
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<td>74.92</td>
<td>WXGA 4</td>
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<td>47.70</td>
<td>60.00</td>
</tr>
<tr>
<td>XGA 9</td>
<td>1024 x 768</td>
<td>36.00</td>
<td>(Interlace)</td>
<td>WXGA 8</td>
<td>1376 x 768</td>
<td>48.36</td>
<td>60.00</td>
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<td>XGA 10</td>
<td>1024 x 768</td>
<td>62.04</td>
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<td>(Interlace)</td>
<td>UXGA 2</td>
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<td>81.25</td>
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<tr>
<td>MAC 19</td>
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<td>1080i</td>
<td>1920 x 1080</td>
<td>28.125</td>
<td>(Interlace)</td>
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</table>
When the input signal is digital from DVI terminal, refer to the chart below.

<table>
<thead>
<tr>
<th>ON-SCREEN DISPLAY</th>
<th>RESOLUTION</th>
<th>H-Freq. (KHz)</th>
<th>V-Freq. (Hz)</th>
<th>ON-SCREEN DISPLAY</th>
<th>RESOLUTION</th>
<th>H-Freq. (KHz)</th>
<th>V-Freq. (Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-VGA</td>
<td>640 x 480</td>
<td>31.47</td>
<td>59.94</td>
<td>D-SXGA1</td>
<td>1280 x 1024</td>
<td>63.98</td>
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</tr>
<tr>
<td>D-480p</td>
<td>640 x 480</td>
<td>31.47</td>
<td>59.88</td>
<td>D-SXGA2</td>
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<td>60.276</td>
<td>58.069</td>
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<tr>
<td>D-575p</td>
<td>768 x 575</td>
<td>31.25</td>
<td>50.00</td>
<td>D-SXGA+ 1</td>
<td>1400 x 1050</td>
<td>63.97</td>
<td>60.19</td>
</tr>
<tr>
<td>D-SVGA</td>
<td>800 x 600</td>
<td>37.879</td>
<td>60.32</td>
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<td>1280 x 720</td>
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<td>D-XGA</td>
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<td>60.00</td>
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<td>1920 x 1035</td>
<td>33.75</td>
<td>(Interlace)</td>
</tr>
<tr>
<td>D-WXGA 1</td>
<td>1366 x 768</td>
<td>48.36</td>
<td>60.00</td>
<td>D-1080i</td>
<td>1920 x 1080</td>
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<td>1920 x 1080</td>
<td>28.125</td>
<td>(Interlace)</td>
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<tr>
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<td>D-WXGA 6</td>
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<tr>
<td>D-WXGA 7</td>
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<td>D-WXGA 8</td>
<td>1280 x 768</td>
<td>68.633</td>
<td>84.837</td>
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<td></td>
</tr>
<tr>
<td>D-WXGA 9</td>
<td>1280 x 800</td>
<td>49.600</td>
<td>60.050</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

✔ Note:
- When the input signal is D-SXGA 1, D-SXGA 2, or D-SXGA 3, images may not be displayed properly depending on computers.
## Technical Specifications

### Mechanical Information

- **Projector Type**: Multi-media Projector
- **Dimensions (W x H x D)**: 13.15” x 3.07” x 9.13” (334 mm x 78 mm x 233 mm) (Not including adjustable feet)
- **Net Weight**: 7.7 lbs (3.5 kg)
- **Feet Adjustment**: 0˚ to 9.0˚

### Panel Resolution

- **LCD Panel System**: 0.8” TFT Active Matrix type, 3 panels
- **Panel Resolution**: 1,024 x 768 dots
- **Number of Pixels**: 2,359,296 (1,024 x 768 x 3 panels)

### Signal Compatibility

- **Color System**: PAL, SECAM, NTSC, NTSC4.43, PAL-M, and PAL-N
- **High Definition TV Signal**: 480i, 480p, 575i, 575p, 720p, 1035i, and 1080i
- **Scanning Frequency**: H-sync. 15 kHz–100 kHz, V-sync. 50–100 Hz

### Optical Information

- **Projection Image Size (Diagonal)**: Adjustable from 33” to 300”
- **Throw Distance**: 4.3’–32.8’ (1.3 m–10.0 m)
- **Projection Lens**: F1.7–2.1 lens with f26.7 mm–32.0 mm with manual zoom and focus
- **Projection Lamp**: 300 W

### Interface

- **Video Input Jack**: RCA Type x 1
- **S-video Input Jack**: Mini DIN 4 pin x 1
- **Audio Input Jacks**: RCA Type x 2
- **Computer Input 1/DVI-I Input Terminal**: DVI-I Terminal x 1
- **Computer Input 2/Component Input Terminal**: Analog RGB (Mini D-sub 15 pin) Terminal x 1
- **Monitor Output Terminal**: Analog RGB (Mini D-sub 15 pin) Terminal x 1
- **Computer/Component Audio Input Jack**: Mini Jack (stereo) x 1
- **Service Port Connector**: Mini DIN 8 pin x 1
- **USB Connector**: USB Series A connector x 1/USB Series B connector x 1
- **Audio Output Jack**: Mini Jack (stereo) x 1 (variable)
- **LAN Connection Terminal**: 100 Base-TX (100 Mbps)/10 Base-T (10Mbps), RJ45

### Audio

- **Internal Audio Amp**: 1.0 W RMS
- **Built-in Speaker**: 1 speaker, ø1.1” (28 mm)

### Power

- **Voltage and Power Consumption**: AC 100–120 V (4.9A Max. Ampere), 50/60 Hz (The U.S.A and Canada)
  AC 200–240 V (2.2A Max. Ampere), 50/60 Hz (Continental Europe)

### Operating Environment

- **Operating Temperature**: 41˚F–95˚F (5˚C–35˚C)
- **Storage Temperature**: 14˚F–140˚F (-10˚C–60˚C)

### Remote Control

- **Battery**: AAA or LR03 Type x 2
- **Operating Range**: 16.4’ (5 m)/±30’
- **Dimensions**: 1.8” (W) x 1.0” (H) x 5.7” (D) (45 mm x 25 mm x 145 mm)
- **Net Weight**: 3.5 oz (99 g) (including batteries)
- **Laser Pointer**: Class II Laser (Max. Output: 1 m W/Wave length: 640–660 nm)

### Built-In Battery (Antitheft Alarm)

- **SANYO Ni-MH BATTERY PACK 3.6V**
  (Part No. 645 089 8587)
Appendix

Accessories

- Owner’s Manual (CD-ROM)
- Quick Reference Guide
- AC Power Cord
- Remote Control and Batteries
- VGA Cable
- PIN Code Label
- Alarm Label
- Network Application (CD-ROM)
- Soft Carrying Case
- USB Wireless LAN Adapter

- The specifications are subject to change without notice.
- LCD panels are manufactured to the highest possible standards. Even though 99.99% of the pixels are effective, a tiny fraction of the pixels (0.01% or less) may be ineffective by the characteristics of the LCD panels.

Optional Parts

The parts listed below are optionally available. When ordering those parts, specify the item name and Model No. to the sales dealer.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>■ COMPONENT-VGA Cable</th>
<th>AH-98771</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>■ SCART-VGA Cable</td>
<td>AH-98881</td>
</tr>
<tr>
<td></td>
<td>■ USB Memory</td>
<td>WL-10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(This is used for Memory viewer operation.)</td>
</tr>
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</table>
Appendix

**PJ Link Notice**

This projector is compliant with PJLink Standard Class 1 of JBMIA (Japan Business Machine and Information System Industries Association). This projector supports all commands defined by PJLink Class 1 and is verified conformance with PJLink Standard Class 1.

For PJ Link password, see page 49 on the owner’s manual “Network Set-up and Operation.”

<table>
<thead>
<tr>
<th>Projector Input</th>
<th>PJLink Input</th>
<th>Parameter</th>
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</thead>
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<td>RGB 1</td>
<td>11</td>
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<tr>
<td>Computer1 (Digital)</td>
<td>RGB (PC digital)</td>
<td>DIGITAL 1</td>
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<tr>
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<td>RGB (AV HDCP)</td>
<td>DIGITAL 2</td>
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<tr>
<td>Computer2</td>
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<tr>
<td></td>
<td>RGB 3</td>
<td>13</td>
</tr>
<tr>
<td></td>
<td>RGB 4</td>
<td>14</td>
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<td>Video</td>
<td>VIDEO 2</td>
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<td>S-video</td>
<td>VIDEO 3</td>
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<tr>
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<td>Memory viewer</td>
<td>STORAGE 1</td>
<td>41</td>
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</table>

PJLink is a registered trademark of JBMIA and pending trademark in some countries.
Configurations of Terminals

COMPUTER IN 2 /COMPONENT IN /MONITOR OUT (ANALOG)

Terminal: Analog RGB (Mini D-sub 15 pin)

<table>
<thead>
<tr>
<th>Terminal</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Red (R/Cr) Input/Output</td>
<td>5V</td>
</tr>
<tr>
<td>2 Green (G/Y) Input/Output</td>
<td>Ground (Vert. sync.)</td>
</tr>
<tr>
<td>3 Blue (B/Cb) Input/Output</td>
<td>Ground</td>
</tr>
<tr>
<td>4</td>
<td>Ground (Horiz. sync.)</td>
</tr>
<tr>
<td>5 Ground (Red)</td>
<td>Horiz. sync. Input/Output (Composite H/V sync.)</td>
</tr>
<tr>
<td>6 Ground (Green)</td>
<td>Vert. sync.</td>
</tr>
<tr>
<td>7 Ground (Blue)</td>
<td>DDC clock</td>
</tr>
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</table>

DVI-I TERMINAL (DIGITAL/ANALOG)

<table>
<thead>
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<th>Pin</th>
<th>Description</th>
</tr>
</thead>
<tbody>
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<td>C1</td>
<td>Analog Red Input</td>
</tr>
<tr>
<td>C2</td>
<td>Analog Green Input</td>
</tr>
<tr>
<td>C3</td>
<td>Analog Blue Input</td>
</tr>
<tr>
<td>C4</td>
<td>Analog Horiz. sync</td>
</tr>
<tr>
<td>C5</td>
<td>Analog Ground (R/G/B)</td>
</tr>
<tr>
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<tr>
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<td>3</td>
<td>T.M.D.S. Data2 Shield</td>
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<tr>
<td>4</td>
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</tr>
<tr>
<td>5</td>
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</tr>
<tr>
<td>6</td>
<td>DDC Clock</td>
</tr>
<tr>
<td>7</td>
<td>DDC Data</td>
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<td>8</td>
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<td>13</td>
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<tr>
<td>14</td>
<td>+5V Power</td>
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<tr>
<td>15</td>
<td>Ground (for +5V)</td>
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<tr>
<td>16</td>
<td>Hot Plug Detect</td>
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USB CONNECTOR (Series A)

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<td>VCC(5V)</td>
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<tr>
<td>2</td>
<td>- DATA</td>
</tr>
<tr>
<td>3</td>
<td>+ DATA</td>
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<tr>
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<td>Ground</td>
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USB CONNECTOR (Series B)

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<tr>
<td>2</td>
<td>- Data</td>
</tr>
<tr>
<td>3</td>
<td>+ Data</td>
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<tr>
<td>4</td>
<td>Ground</td>
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LAN TERMINAL

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<td>2</td>
<td>TX –</td>
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<tr>
<td>3</td>
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SERVICE PORT CONNECTOR

Terminal : Mini DIN 8-PIN

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<td>2</td>
<td>RTS/CTS</td>
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<tr>
<td>3</td>
<td>TX D</td>
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<td>4</td>
<td>GND</td>
</tr>
<tr>
<td>5</td>
<td>GND</td>
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<tr>
<td>6</td>
<td>GND</td>
</tr>
<tr>
<td>7</td>
<td>GND</td>
</tr>
</tbody>
</table>
Appendix

**PIN Code Number Memo**

Write down the PIN code number in the column below and keep it with this manual securely. If you forgot or lost the number and unable to operate the projector, contact the service station.

- **PIN Code Lock No.**
  Factory default set No: 1 2 3 4*

- **Logo PIN Code Lock No.**
  Factory default set No: 4 3 2 1*

- **Alarm PIN Code No.**
  Factory default set No: 1 1 1 1*

  *Should the four-digit number be changed, the factory set number will be invalid.

While the projector is locked with the PIN code....

Put the label below (supplied) on in a prominent place of the projector’s body while it is locked with a PIN code.

While the Antitheft alarm function is set....

Put the label below (supplied) on in a prominent place of the projector’s body while the Antitheft alarm function is set.