Network Supported
- Wired LAN
- Refer to the owner’s manual below for details about network function.
- Network Set-up and Operation
- PJ Network Manager
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.

- **Large Screen in Limited Space**
  Short focus lens allows you to project large images from short distance. (p.13)

- **Security Features**
  The projector can not be operated without remote control. Keep the remote control securely at hand.
  The PIN code lock guards the projector from an unauthorized user. (pp.19, 55-56)

- **Logo Function**
  The Logo function allows you to customize the screen logo. The Logo page identifies the owner of the projector. (pp.47-49)

- **Closed caption**
  This is a printed version of the program sound or other information displayed on the screen. You can turn on the feature and switch the channels. (p.53)

- **Digital Zoom (for Computer)**
  The digital zoom function allows you to focus on crucial information during a presentation. You can expand the images approx. 16 times the screen size and compress them to approximately a quarter of the screen size. (p.36)

- **Blackboard Function**
  A blackboard can be used as a projection screen. (pp.33, 40)
  *The board color is limited to Green.

- **Colorboard Function**
  At the time of simple projection on the colored wall, you can get the close color image to the color image projected on a white screen by selecting the similar color to the wall color from the preset four colors. (pp.33, 40)

- **Logo Function**
  The Logo function allows you to customize the screen logo. The Logo page identifies the owner of the projector. (pp.47-49)

- **Simple Computer System Setting**
  The projector has a Multi-scan system to conform to almost all computer output signals quickly. (p.29)

- **Multilanguage Menu Display**
  The Operation menu is available in 23 languages: English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Finnish, Norwegian, Danish, Polish, Hungarian, Romanian, Russian, Brazilian Portuguese, Turkish, Arabic, Kazak, Simplified Chinese, Traditional Chinese, Korean, and Japanese. (p.44)

- **Switchable Interface Terminal**
  The projector provides a switchable interface terminal. You can use the terminal as computer input or monitor output conveniently. (p.50)

- **Power Management**
  The Power management function reduces power consumption and maintains lamp life. (p.51)

- **Auto Setup Function**
  This function enables Input search and Auto PC adjustment by simply pressing the AUTO SET button (pp.23, 45).

**Note:**
- 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.

You can turn on or operate the projector ONLY via the remote control. Make sure not to lose the remote control.
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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 manual. If the problem still persists, contact the dealer where you purchased the projector or the service center.

Safety Precaution

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING:
● THIS APPARATUS MUST BE EARTHED.
● 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.

Installation 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.

Do not project the same image for a long time. The afterimage may remain on the LCD panels by the characteristic of panel.

CAUTION

FOR EU USERS
The symbol mark and recycling systems described below apply to EU countries and do not apply to countries in other areas of the world.
Your product is designed and manufactured with high quality materials and components which can be recycled and/or reused. The symbol mark means that electrical and electronic equipment, batteries and accumulators, at their end-of-life, should be disposed of separately from your household waste.

Note:
If a chemical symbol is printed beneath the symbol mark, this chemical symbol means that the battery or accumulator contains a heavy metal at a certain concentration. This will be indicated as follows: Hg: mercury, Cd: cadmium, Pb: lead.

In the European Union there are separate collection systems for used electrical and electronic equipment, batteries and accumulators.

Please, dispose of them correctly at your local community waste collection/recycling centre.

Please, help us to conserve the environment we live in!

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

NOTE FOR CUSTOMERS IN THE US

Hg LAMP(S) INSIDE THIS PRODUCT CONTAIN MERCURY AND MUST BE RECYCLED OR DISPOSED OF ACCORDING TO LOCAL, STATE OR FEDERAL LAWS.
Safety Instructions

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.

Installing the Projector in Proper Position

Install the projector properly. Improper installation may reduce the lamp life and cause fire hazard.

- Do not roll the projector more than 20 degrees from side to side.
- Do not pitch the projector more than 20 degrees backward and forward.

Moving the Projector

When the projector is not in use for an extended period, put it into a suitable case. Handle the projector carefully; 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 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 it is cooled enough.

Installing the Projector in Proper Position

Air Intake Vent
Exhaust Vent
(Hot air exhaust)

Exhaust Vent
(Hot air exhaust)
Air Intake Vent

CAUTION ON CEILING MOUNTING
For ceiling mounting, you need the ceiling mount kit designed for this projector. When not mounted properly, the projector may fall, causing hazards or injury. For details, consult your dealer. The warranty on this projector does not cover any damage caused by use of any non-recommended ceiling mount kit or installation of the ceiling mount kit in an improper location. Make sure the screws on the ceiling mount kit cannot touch the metal parts materials (metallic lath, wire or board) in the ceiling board. Otherwise it may result in fire hazard.
Federal Communications Commission Notice

Note: 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 : PRM-30A
Trade Name : Promethean
Responsible party : Promethean Inc.
Address : 1165 Sanctuary Parkway, Suite 400, Atlanta, GA 30004 USA
Telephone No. : 678 762 1500

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.

AC Power Cord for the United Kingdom:
This cord is already fitted with a moulded plug incorporating a fuse, the value of which is indicated on the pin face of the plug. Should the fuse need to be replaced, an ASTA approved BS 1362 fuse must be used of the same rating, marked thus  ©. If the fuse cover is detachable, never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is of the same colour as that visible on the pin face of the plug (i.e. red or orange). Fuse covers are available from the Parts Department indicated in your User Instructions. If the plug supplied is not suitable for your socket outlet, it should be cut off and destroyed.
The end of the flexible cord should be suitably prepared and the correct plug fitted.

WARNING : A PLUG WITH BARED FLEXIBLE CORD IS HAZARDOUS IF ENGAGED IN A LIVE SOCKET OUTLET.

The Wires in this mains lead are coloured in accordance with the following code:
Green-and-yellow . . Earth
Blue . . . . . . . . . . Neutral
Brown . . . . . . . . Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:
The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol ↓ or coloured green or green-and-yellow.
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

WARNING: THIS APPARATUS MUST BE EARTHED.

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

**Front**

1. Lamp Cover
2. Infrared Remote Receiver
3. Projection Lens

**Side**

4. LAN Connection Terminal
5. Indicators
6. Focus Ring
7. Power Cord Connector
8. Terminal Cover
9. Exhaust vent

**CAUTION**

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

10. Filter
11. Security Bar
12. Terminals and Connectors

✓ **Note:**
4. LAN Connection Terminal is for the Network function. Refer to the owner’s manual of “Network Set-up and Operation”.

✓ **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.*
Part Names and Functions

Side Terminal

① CONTROL PORT
When controlling the projector with RS-232C, connect the control equipment to this connector with the serial control cable.

② COMPUTER / COMPONENT AUDIO IN
Connect the audio output (stereo) from a computer or video equipment connected to ⑥, ⑦ or ⑧ to this jack (pp.14,16).

③ AUDIO IN
Connect the audio output signal from video equipment connected to ④ or ⑨ to this jack. For a monaural audio signal (a single audio jack), connect it to the L (MONO) jack (p.15).

④ VIDEO IN
Connect the composite video output signal to this jack (p.15).

⑤ LAN Connection Terminal
Connect the LAN cable (refer to the owner’s manual of "Network Set-up and Operation").

⑥ HDMI
Connect the HDMI signal from computer or video equipment to this terminal (pp.14,16).

⑦ COMPUTER IN 1 / COMPONENT IN
Connect output signal from a computer, RGB scart 21-pin video output or component video output to this terminal (pp.14,16).

⑧ COMPUTER IN 2/MONITOR OUT
This terminal is switchable and can be used for input from a computer or output to the other monitor.
Set the terminal up as either Computer input or Monitor output properly. [Used for Monitor out, this terminal outputs only incoming signal from COMPUTER IN 1/COMPONENT IN terminal (pp. 14, 50)].

⑨ S-VIDEO IN
Connect the S-VIDEO output signal from video equipment to this jack (p.15).

⑩ AUDIO OUT (VARIABLE)
Connect an external audio amplifier to this jack (pp.14-16).
This terminal outputs sound from AUDIO IN terminal (② or ③) or HDMI terminal ⑥ (digital audio).
Never plug headphones and earphones into this jack.

HDMI is registered trademarks of HDMI Licensing, LLC.
Part Names and Functions

Top Panel

1. LAMP REPLACE indicator
   Turn yellow when the life of the projection lamp draws to an end. (pp. 63, 70)

2. WARNING indicator
   Emit a red light when the projector detects abnormal condition. This also blinks red when the internal temperature of the projector exceeds the operating range. (pp. 60, 70)

3. POWER indicator
   It turns red when the projector is in the stand-by mode.
   It remains green while the projector is under operation. (pp.18, 70)
Remote Control

1) **ON/STAND-BY button**
   - Turn the projector on or off. (pp. 18-20)

2) **AUTO SET button**
   - Execute the setting of Auto setup (includes Input search function and Auto PC adj. function). (pp. 23, 45)

3) **COMPUTER 1/2 buttons**
   - Select the COMPUTER 1 or COMPUTER 2 input source. (pp. 27-28, 38)

You can turn on or operate the projector ONLY via the remote control. Make sure not to lose the remote control.

✓ Note:
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, spray, or any chemical material.

4) **VIDEO button**
   - Select the VIDEO input source. (p. 37)

5) **S-VIDEO button**
   - Select the S-VIDEO input source. (p. 37)

6) **Point ▲▼◄► buttons**
   - Select an item or adjust the value in the On-Screen Menu. (p. 21)
   - Pan the image in the Digital zoom +/- mode. (p. 36)

7) **SCREEN button**
   - Select a screen mode. (pp. 26, 35-36, 43)

8) **MENU button**
   - Open or close the On-Screen Menu. (p. 21)

9) **FREEZE button**
   - Freeze the picture on the screen. (p. 25)

10) **NO SHOW button**
    - Temporarily turn off the image on the screen. (p. 26)

11) **D.ZOOM ▲▼ buttons**
    - Zoom in and out the images. (pp. 25, 36)

12) **VOLUME +/- buttons**
    - Adjust the volume level. (p. 24)

13) **MUTE button**
    - Mute the sound. (p. 24)

14) **IMAGE button**
    - Select the image mode. (pp. 26, 33, 40)

15) **ASPECT button**
    - Select a screen aspect from 4:3, 16:9 and 16:10. (pp. 25, 50)

16) **LAMP button**
    - Select a lamp mode. (pp. 25, 54)

17) **P-TIMER button**
    - Operate the P-timer function. (pp. 26, 52)

18) **INFO. button**
    - Operate the information function. (pp. 25, 59)

19) **KEYSTONE button**
    - Correct the keystone distortion. (pp. 23, 46)

20) **SELECT button**
    - Execute the selected item. (p. 21)
    - Expand or compress the image in Digital zoom mode. (p. 36)

21) **COMPONENT button**
    - Select the COMPONENT input source. (p. 38)

22) **HDMI button**
    - Select the HDMI input source. (p. 38)
Part Names and Functions

Remote Control Battery Installation

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

To ensure 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 or your local disposal rule or guidelines.

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.

Remote Control Code

The two different remote control codes (Code 1 - Code 2) 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 54.

Press and hold the MENU and IMAGE buttons for more than five seconds to switch between the Code 1 and Code 2. The initial code is set to Code 1.
Positioning the Projector

For projector positioning, see the figures below. The projector should be set perpendicularly to the plane of the screen. The projector will focus at distance from 2.09’ to 3.93’ (63.6cm to 119.7cm).

**Note:**
- This projector is not equipped with an optical zoom. To adjust the screen size, change the throw distance.
- 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.

### ActivBoard Screen Size (W x H) mm

<table>
<thead>
<tr>
<th>Screen Size</th>
<th>64&quot; 4:3</th>
<th>78&quot; 4:3</th>
<th>87&quot; 16:10</th>
<th>95&quot; 16:9</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:3</td>
<td>1300 x 975</td>
<td>1585 x 1189</td>
<td>1874 x 1171</td>
<td>2103 x 1183</td>
</tr>
<tr>
<td>16:10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16:9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Throw distance</th>
<th>2.54’ (77.6 cm)</th>
<th>3.13’ (95.4 cm)</th>
<th>3.08’ (93.9 cm)</th>
<th>3.37’ (102.9 cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>9.0” (22.3 cm)</td>
<td>10.5” (26.6 cm)</td>
<td>10.3” (26.3 cm)</td>
<td>11.1” (28.1 cm)</td>
</tr>
</tbody>
</table>

Opening the Terminal Cover

1. Remove the two (2) screws and pull out the terminal cover.
2. Connect the projector with all peripheral equipment before replacing the terminal cover.
**Connecting to a Computer**

**Cables used for connection**
- VGA cables (Mini D-sub 15 pin) *
- Audio cables
- HDMI-DVI cable

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

**Note:**
- Input sound to the COMPUTER/COMPONENT AUDIO IN terminal when using the COMPUTER IN 1/COMPONENT IN terminal as input.
- When the cable is of the longer variety, it is advisable to use the COMPUTER IN 1/COMPONENT IN and not the COMPUTER IN 2/MONITOR OUT.
- Analog RGB and component signals can be output from the COMPUTER IN 2/MONITOR OUT terminal when using the COMPUTER IN 2/MONITOR OUT terminal as output.

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

**Connecting to Component Video Equipment**

**Cables used for connection**
- Audio cables
- Scart-VGA cable
- Component cable
- Component-VGA cable
- HDMI cable

(Cables are not supplied with this projector.)
Connecting the AC Power Cord

This projector uses nominal input voltages of 100–240 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 center. Connect the projector with all peripheral equipment before turning it on.

⚠️ CAUTION

The AC outlet must be near this equipment and must be easily accessible.

✓ Note:

Unplug the AC power cord when the projector is not in use. When this 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 requirement 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 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>To power cord connector on your projector.</td>
<td>For the U.S.A. and Canada (120 V AC)</td>
</tr>
<tr>
<td>To the AC outlet.</td>
<td>To the AC outlet.</td>
</tr>
<tr>
<td>Ground</td>
<td>Ground</td>
</tr>
</tbody>
</table>
**Basic Operation**

### 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.

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

4. After the countdown, the input source that was selected the last time and the lamp control status icon (see page 54) appear on the screen.

5. If there is no signal input when start on the projector, or the current signal is missed while operating the projector, the Video / PC selection window will be displayed on the screen, please move the pointer to input source desired by pressing the Point ▲▼ buttons and press the SELECT button. And then follow the input signal guidance window to correct the signal and connection.

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

**Selected Input Source and Lamp Control**

The preparation display will disappear after 15 seconds.

#### Video / PC selection window

- **Video**
- **Project Video**
- **Project Computer**

#### Input signal guidance window

- **No signal**
- **Current Input setting: Video**
- **Is signal processed correctly?**
- **Is cable connected properly?**

#### Video / PC selection window

- **Project Video**
- **Project Computer**

#### Input signal guidance window

- **No signal**
- **Current Input setting: RGB**
- **Is signal processed correctly?**
- **Is cable connected properly?**

**Note:**
- When the Logo select function is set to Off, the logo will not be shown on the screen. (p.47)
- When Countdown off or Off is selected in the Display function, the countdown will not be shown on the screen. (p.46)
- When the Input search function is set to On 2, the input signal will be searched automatically. (p.45)
- When Off is selected in the Display function, the Video / PC selection window and the input signal guidance window are not shown on the screen. (p.46)
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 55-56 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 76 of this manual and keep it on hand. Should the PIN code be missing or forgotten, consult your dealer or service center.

Note:

• If the 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.
Basic Operation

Turning Off the Projector

1 Press the ON/STAND-BY button 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 57.) 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.

**WARNING**

TO MAINTAIN THE LIFE OF THE LAMP, ONCE YOU TURN THE PROJECTOR ON, WAIT AT LEAST FIVE MINUTES BEFORE TURNING IT OFF.

DO NOT OPERATE THE PROJECTOR CONTINUOUSLY WITHOUT REST. CONTINUOUS USE MAY RESULT IN SHORTENING THE LAMP LIFE. TURN OFF THE PROJECTOR AND LET IT STAND FOR ABOUT AN HOUR IN EVERY 24 HOURS.

**Note**:

- When the Direct on function is set to **On**, the projector will be turned on automatically by connecting the AC power cord to an AC outlet. (p. 52)
- 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 indicator” on page 60.
- While the POWER indicator is blinking, the lamp is being cooled down and the projector can not be turned on. Wait until the POWER indicator stops blinking to turn on the projector again.
- The fan rotation will terminate directly if the AC power cord is unplugged immediately after the projector is turned off.
- The projector can be turned on after the POWER indicator turns red. The waiting time to restart will be shortened when the normal power-off processing for fan cooling is completed, compared with the time the AC power cord is immediately unplugged after the power-off.

Direct OFF Function

You can disconnect the power cord from the wall outlet or turn off the breaker even during projection without pressing the ON/STAND-BY button.

**Note**:

- When using the Direct OFF function, you can not restart the projector immediately after the power is disconnected. If the external power supply is suddenly cut off, the fans stop immediately. The lamp remains high temperature and needs to be cooled.
How to Operate the On-Screen Menu

The projector can be adjusted or set via the On-Screen Menu. The menu has a hierarchical structure, with a main menu that is divided into submenus, which are further divided into other submenus. For each adjustment and setting procedure, refer to respective sections in this manual.

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

2. Use the Point ▲▼ buttons to highlight and select a main menu item. Press the Point ► or the SELECT button to access the submenu items. (The selected item is highlighted in orange.)

3. Use the Point ▲▼ buttons to select the desired submenu item and press the SELECT button to set or access the selected item.

4. Use the Point ▲▼◄► buttons to adjust the setting or switch between each option and press the SELECT button to activate it and return to the submenu.

5. Press the Point ◄ button to return to the main menu. Press the MENU button to exit the On-Screen Menu.
Main Menu

For detailed functions of each menu, see "Menu Tree" on pages 68-69.

1. Input
   Used to select an input source from Computer 1, Computer 2, HDMI, Video or S-video. (pp.27-28,37-38)

2. PC adjust
   Select Auto PC adj., Fine sync, Total dots, Horizontal, Vertical, Current mode, Clamp, Display area H, Display area V, Reset, Mode free and Store to adjust the parameters to match with the PC input signal format. (pp.30-32)

3. Image select
   For computer source, used to select an image mode from among Dynamic, Standard, Real, Blackboard(Green), Colorboard and image 1 - 4. (p.33)
   For video or HDMI source, used to select an image mode among Dynamic, Standard, Cinema, Blackboard(Green), Colorboard and Image 1 - 4. (p.40)

4. Image adjust
   For computer source, used to adjust computer image [Contrast, Brightness, Color temp., White balance (Red/Green/Blue), Sharpness, Gamma, Reset and Store]. (pp.34-35)
   For video or HDMI source, used to adjust picture image [Contrast, Brightness, Color, Tint, Color temp., White balance (Red/Green/Blue), Sharpness, Gamma, Noise reduction, Progressive, Reset and Store]. (pp.41-42)

5. Screen
   For computer source, used to adjust size of the image [Normal, True, Full, Custom and Digital zoom +/-]. (pp.35-36)
   For video or HDMI source, used to set size of image [Normal, Full, Zoom, Wide, Natural wide and Custom]. (p.43)

6. Sound
   Used to adjust the volume or mute the sound. (p.24)

7. Setting
   Used to set the projector’s operating configurations. (pp.44-58)

8. Information
   Display the input source information: Input, H-sync freq., V-sync freq., Screen, Language, Lamp status, Lamp counter, Power management, PIN code lock and Remote control. (p.59)

9. Network
   See owner’s manual of “Network Set-up and Operation”.

10. Guide
    The key operation is displayed.
Focus Adjustment

Adjust the lens focus with the focus lever.

Auto Setup Function

Auto setup function is provided to automatically execute the setting of Auto setup (includes Input search and Auto PC adj. functions) in the Setting Menu by just pressing the AUTO SET button on the remote control. Refer to page 45 for the setting of the Auto setup function.

✓ Note:

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.31-32)

Keystone Correction

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 46).

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.
• The adjustable range is limited depending on the input signal.
Sound Adjustment

This projector has no speaker. Volume and Mute functions are effective for the AUDIO OUT jack.

Direct Operation

Volume
Press the VOLUME +/- buttons 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 select On to temporarily turn off the audio output from AUDIO OUT terminal. To turn the sound back on, press the MUTE button again to select Off or press the VOLUME +/- buttons.

Menu Operation

1 Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select Sound. Press the Point ► or the SELECT button to access the submenu items.

2 Use the Point ▲▼ buttons to select the desired submenu item and press the SELECT button to access the selected item.

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

Mute
Press the SELECT button to switch the Mute function On/Off. When the sound is turned off, On is displayed. Press the VOLUME +/- buttons again to turn the sound back on.
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 1/2, HDMI, VIDEO, S-VIDEO and COMPONENT buttons**

Press the COMPUTER 1/2, HDMI, VIDEO, S-VIDEO and COMPONENT buttons on the remote control to select the input source. See pages 27-28, 37-38 for details.

**FREEZE button**

Press the FREEZE button on the remote control to freeze the picture on the screen, meanwhile, volume is muted. To cancel the Freeze function, press the FREEZE button again or press any other button. Fig.1 will appear on the Screen menu while the Freeze function is working.

**INFO. button**

Display the input source information: Input, H-sync freq., V-sync freq., Screen, Language, Lamp status, Lamp counter, Power management, PIN code lock and Remote control.  (p.59)

**D.ZOOM buttons**

Press the D.ZOOM buttons on the remote control to enter to the D. zoom +/- mode. See page 36 for details.

**LAMP button**

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

- **High** ........ Brighter than the Normal mode.
- **Normal** ...... Normal brightness.

**ASPECT button**

Select a screen aspect from **4:3, 16:9** and **16:10**. (p.50)

**Note:**

When the 4:3 or 16:9 is selected, some Screen modes are limited. See pages 35 and 43 for details.
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 the projected image is captured and is set as User in the Logo selection (p.47), the screen changes each time you press the NO SHOW button as follows.

black out → the captured image → normal → black out →• • •

✓ Note:
When use the MUTE button to release the No Show function, the mute function can not be operated at the same time.

P-TIMER button
Press the P-TIMER button on the remote control to operate the Count up/Count down function. Refer to p.52 for detail of Setting for the P-timer function.
To stop the count time, press the P-TIMER button.
To cancel the P-timer function, press and hold the P-TIMER button for a few seconds.

IMAGE button
Press the IMAGE button on the remote control to select a desired image mode of the screen. See pages 33, 40 for details.

SCREEN button
Select the screen size (See pages 35-36, 43 for details).
Choose **Computer 1 (RGB)** by pressing the COMPUTER 1 button on the remote control.

**Menu Operation**

1. Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select **Input** and then press the Point ► or the SELECT button.

2. Use the Point ▲▼ buttons to select **Computer 1**.

3. When **Computer 1** is selected, press the Point ► to access the submenu items. Use the Point ▲▼ buttons to select the RGB input source and then press the SELECT button.

**Note:**

When the Input Search function is set to **On 1** or **On 2** in the Auto setup function, the input signal will be searched automatically (p.45).
Choose **Computer 2 (RGB)** by press the COMPUTER 2 button on the remote control.

* COMPUTER 2 can not be selected when using the COMPUTER IN 2/ MONITOR OUT terminal as MONITOR OUT output.

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### Menu Operation

1. Press the MENU button to display the On-Screen Menu. Press the Point ▲▼ buttons, move the highlight to **Input** and then press the Point ► or the SELECT button.

2. Use the Point ▲▼ buttons to select **Computer 2** and then press the SELECT button.

3. When **Computer 2** is selected, analog RGB input source will be selected directly.

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**Note:**

When the Input Search function is set to **On 1** or **On 2** in the Auto setup function, the input signal will be searched automatically (p.45).
Computer System Selection

This projector automatically tunes to various types of computers 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 71-72.)

One of the following messages may appear when:

- **Auto**: When the projector cannot recognize the connected signal conforming to the provided PC Systems, **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.31-32)

- **... ... ...**: There is no signal input from the computer. Check the connection between your computer and the projector. (See “Troubleshooting” on page 66.)

- **Mode 1**: The preset system is manually adjusted in the PC adjust Menu. The adjusted data can be stored in **Mode 1-10**. (pp.31-32)

- **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 select **Input** and then press the Point ► or the SELECT button.

2. Use the Point ▲▼ buttons to select **System** and then press the Point ► or the SELECT button.

3. Use the Point ▲▼ buttons to select the desired system and then press the SELECT button.

**PC System Menu**

Selected system in the PC System Menu is displayed.

Customized Mode (1–10) set in the PC adjust Menu (pp.31-32).

Systems in this dialog box can be selected.
Auto PC adjustment function is provided to automatically adjust **Fine sync**, **Total dots**, **Horizontal position** and **Vertical position** to conform to your computer.

### Menu Operation

1. Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select **PC adjust** and then press the Point ► or the SELECT button.

2. Use the Point ▲▼ buttons to select **Auto PC adj.** and then press the SELECT button.

### 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 (1–10)** in the PC System Menu (see page 29). See also "Store" on page 32.

**Note:**

- **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.31-32).
- The Auto PC adjustment can not be operated when **480i, 575i, 480p, 575p, 720p, 1035i** or **1080i** is selected in the PC System Menu (p.29), or when the signal is coming from the HDMI 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 select PC adjust and then press the Point ► or the SELECT button.

2. Use the Point ▲▼ buttons to select 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 Point ► or the SELECT button. Move the highlight 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 Point ► or the SELECT button. Move the highlight to one of the Modes 1 to 10 in which you want to store, and then press the SELECT button.

✓ Note:
- **Display area (H/V)** can not be selected when **480i, 575i, 480p, 575p, 720p, 1035i,** or **1080i** is selected in the PC System Menu (p.29).
- When input computer signal to the projector, **PC adjust** will become available.

<Diagram of Mode free Menu>

- **Values of Total dots, Horizontal, Vertical, Display area H, and Display area V.**
**Image Mode Selection**

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

**Menu Operation**

1. Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select **Image select** and then press the Point ► or the SELECT button.

2. Use the Point ▲▼ buttons to select the desired item 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. 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.

**Colorboard**
Press the Point ► button at **Colorboard**, and then use the Point ▲▼ buttons to switch the desired item (Red, Blue, Yellow, Green) and then press the SELECT button.

At the time of simple projection on the colored wall, you can get the close color image to the color image projected on a white screen by selecting the similar color to the wall color from the preset four colors.

**Image 1-4**
For viewing with the user preset image mode in the Image adjust Menu (see pages 34-35).
Image Adjustment

1. Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select Image adjust and then press the Point ► or the SELECT button.

2. Use the Point ▲▼ buttons select 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 (XLow, Low, Mid, or High).

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 White balance Red, Green or Blue is adjusted, Color temp. will change to User.
- When Blackboard(Green) or Colorboard is selected in Image select, Color temp. will change to Blackboard or Colorboard.
Store

To store the adjusted data, select Store and press the Point ► or 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 an Image (1-4) in the Image Mode Selection on page 33.

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 select Screen and then press the Point ► or the SELECT button.

2 Use the Point ▲▼ buttons select the desired item and then press the SELECT button.

Normal

Provide the image to fit the screen size while maintaining the aspect ratio of input signal.

True

Provide the image in its original size. When the original image size is larger than the screen size (1280 x 800), the projector automatically switches to the panning mode. Use the Point ◄►▲▼ buttons to pan the image. When adjusted, the arrows turn red. When reached to the correction limit, the arrows disappear.

Full

Provide the full screen image.

Custom

Provide the last stored aspect screen image.

✓ Note:
- This projector can not display any resolution higher than 1920 x 1200. If your computer's resolution is higher than that, lower the resolution before connecting to the projector.
- The image data other than 1280 x 800 is modified to fit the screen size in initial mode.
- True and Digital zoom +/- are not available when the 4:3 or 16:9 function is selected in the Screen aspect (p.50).
- True, Full, and Digital zoom +/- can not be selected when 480i, 575i, 480p, or 575p is selected in the PC System Menu (p.29).
Custom adj.
Adjust the screen scale and position manually with this function.
Press the Point ▶ button at Custom adj, and the Custom adjustment menu is displayed on the screen, you can use the Point ▲▼ buttons to choose the item you want to adjust.
Scale H/V ........... Adjust the Horizontal/Vertical screen scale.
H&V .................... When set to On, the aspect ratio is fixed. 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 or position to all the inputs. Press the SELECT button at Common to display a confirmation box. To save the scale or position, press the SELECT button at “Yes”. When Custom is selected, the saved scale or position is used.
Reset.................. Reset the all adjusted values. 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 ▲ or the SELECT 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 ▼ or the SELECT button on the remote control.
To exit the Digital zoom +/- mode, press any button except the D.ZOOM ▲▼ and the SELECT 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 27-28) again, or adjust the screen size with the D.ZOOM ▲▼ buttons.

Note:
• When no signal is detected, Normal is set automatically and Custom adj. can not be selected and the Aspect dialog box disappears.
• The adjustable range for Scale H/V and Position H/V is limited depending on the input signal.
Choose Video or S-video by pressing the VIDEO button or the S-VIDEO button on the remote control.

**Direct Operation**

**Remote Control**

Choose Video or S-video by pressing the VIDEO button or the S-VIDEO button on the remote control.

**Menu Operation**

1. Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select Input and then press the Point ► or the SELECT button.

2. Use the Point ▲▼ buttons to select either Video or S-video and then press the SELECT button.

- **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.

**Input Menu**

- **Video**
- **S-video**

**Note:**

When the Input Search function is set to On 1 or On 2 in the Auto setup function, the input signal will be searched automatically (p.45).
Input Source Selection (Component, RGB Scart 21-pin, HDMI)

Direct Operation

Choose **Computer 1 (Component)** or **Computer 1 (Scart)** by pressing the **COMPONENT** or **COMPUTER 1** button on the remote control; choose **HDMI** by pressing the **HDMI** button on the remote control.

Menu Operation

1. Press the **MENU** button to display the On-Screen Menu. Use the Point ▲▼ buttons to select **Input** and then press the Point ► or the **SELECT** button.

2. Use the Point ▲▼ buttons to select **Computer 1** and then press the Point ► button; use the Point ▲▼ buttons to select **Component** or **RGB (Scart)** and then press the **SELECT** button.

OR

Use the Point ▲▼ buttons to select **HDMI**, and then press the **SELECT** button;

- **Component**
  
  When the input source is coming from video equipment connected to the **COMPUTER IN 1/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 1/COMPONENT IN** terminal with a Scart-VGA Cable, select **RGB (Scart)**.

- **HDMI**
  
  When the video signal is connected to the HDMI terminal, select **HDMI**.

**Note:**

When the **Input Search** function is set to On 1 or On 2 in the Auto setup function, the input signal will be searched automatically (p.45).
Video System Selection

1 Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select Input and then press the Point ► or the SELECT button.

2 Use the Point ▲▼ buttons to select Video or S-video or Computer 1(Component) and then press the SELECT button.

3 Use the Point ▲▼ buttons to select System and then press the Point ► or the SELECT button. Use the Point ▲▼ buttons to select 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.

Note:
The AV System Menu can not be selected when selecting RGB (Scart) or HDMI.
Image Mode Selection

**Direct Operation**

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

**Menu Operation**

1. Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select **Image select** and then press the Point ► or the SELECT button.

2. Use the Point ▲▼ buttons to select the desired item 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. 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.

**Colorboard**
Press the Point ► button at **Colorboard**, and then use the Point ▲▼ buttons to switch the desired item (Red, Blue, Yellow, Green) and then press the SELECT button.

At the time of simple projection on the colored wall, you can get the close color image to the color image projected on a white screen by selecting the similar color to the wall color from the preset four colors.

**Image 1-4**
For viewing with the user preset image mode in the Image adjust Menu (see pages 41-42).
Image Adjustment

1. Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select the Image adjust and then press the Point ► or the SELECT button.

2. Use the Point ▲▼ buttons select 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 decrease the intensity of the color; press the Point ► button 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 (Xlow, Low, Mid, or High).

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).

Note:
- When the White balance Red, Green, or Blue is adjusted, the Color temp. level will change to User.
- Tint can not be selected when the video system is PAL, SECAM, PAL-M, or PAL-N (p.39).
- When Blackboard(Green) or Colorboard is selected in Image select Menu, Color temp. will change to Blackboard or Colorboard.
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.
- L 1 ........ Lower reduction.
- L 2 ........ Higher reduction.

Progressive
An interlaced video signal can be displayed in progressive mode. Select one of the following options.
- Off ........ Disabled.
- L 1 ........ For an active picture.
- L 2 ........ 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 Point► button or 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 an Image (1-4) in the Image Mode Selection on page 40.

✓ Note:
Noise reduction and Progressive can not be selected when 480p, 575p, 720p, 1035i or 1080i is selected (p.39), or Video delay control is set to On in Setting menu (p.57).
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 select Screen and then press the Point ► or the SELECT button.

2. Use the Point ▲▼ buttons select the desired item and then press the SELECT button.

Normal
Provide the image to fit the screen size while maintaining the aspect ratio of input signal.

Full
Provide the full screen image.

Zoom
Pan the horizontal direction of the image and cut the vertical direction of the image to fit the screen size (16:9). Only for 4:3 video aspect ratio signals.

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

Natural wide
Modify the 4:3 aspect ratio image to fit the screen size (16:9 aspect ratio) by stretching the image to make it look natural.

Custom
Provide the last stored aspect screen image.

Custom adj.
Adjust the screen scale and position manually with this function.

Press the Point ► button at Custom adj, and the Custom adjustment menu is displayed on the screen, you can use the Point ▲▼ buttons to choose the item you want to adjust.

Scale H/V ........... Adjust the Horizontal/Vertical screen scale.

H&V .................. When set to On, the aspect ratio is fixed. 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 or position to all the inputs. Press the SELECT button at Common to display a confirmation box. To save the scale or position, press the SELECT button at “Yes”, When Custom is selected, the saved scale or position is used.

Reset .......... Reset the all adjusted values. Press the SELECT button at Reset to display a confirmation box. To reset, press the SELECT button at “Yes”.

Note:
- When no signal is detected, Normal is set automatically and the Aspect adjustment menu disappears.
- The adjustable range for Scale H/V and Position H/V is limited depending on the input signal.
- Zoom, Natural wide and Wide can not be operated when 720p, 1035i, or 1080i is selected in the AV System Menu (p.39).
- Zoom, Natural wide and Wide are not available when the 4:3 or 16:9 is selected in the Screen aspect (p.50).
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. Press the Point ▲▼ buttons to select the Setting and press the Point ► or the SELECT button to access the submenu items.

2. Use the Point ▲▼ buttons to select the desired item and then press the Point ► or the SELECT buttons to access the selected item.

3. Use the Point ▲▼ buttons select the desired item and then press the SELECT button.

**Language**

The language used in the On-Screen Menu is available in English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Finnish, Norwegian, Danish, Polish, Hungarian, Romanian, Russian, Brazilian Portuguese, Turkish, Arabic, Kazak, Simplified Chinese, Traditional Chinese, Korean, and Japanese.

**Menu position**

This function is used to change the position of the On-Screen Menu. Select Menu position and press the SELECT button.

The Menu position changes each time you press the SELECT button as follows:
- the center → the bottom left → the bottom right → the top left → the top right → the center →....
Auto setup

This function enables Input search and Auto PC adjustment by pressing the AUTO SET button on the remote control. Settings for those functions can be altered as follows:

**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 does not work.
- **On 1**....... Input search works under the following situation.
  - When pressing the AUTO SET button on the remote control.
- **On 2**....... Input search works under the following situation.
  - When turning on the projector by pressing the ON/STAND-BY button.
  - When pressing the AUTO SET button on the remote 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.

**Auto PC adj.**

- **On**  ........ Enables Auto PC adjustment when pressing the AUTO SET button on the remote control.
- **Off** ....... Disables Auto PC adjustment.

**Note:**

- While Input search function is set to **On 1** or **On 2**, the status of Input and Lamp are displayed every time the signal is switched.
- Only the last selected input source can be detected.
- If the COMPUTER 1/2 button, VIDEO, S-VIDEO, COMPONENT or HDMI button on the remote control is pressed during Input search is in progress, Input search will stop and go back to the previous input signal.
- Auto PC adj. and Input search functions can not be set **Off** at the same time.
- **Fine sync**, **Total dots**, **Horizontal** and **Vertical** positions of some computers can not be fully adjusted with the Auto PC adjustment function. When the image is not provided properly with this operation, manual adjustments are required (pp.31-32).
**Keystone**

This function is used to adjust keystone distortion of the projected image. Use the Point ▲▼ buttons to choose the item you want to adjust.

**Keystone**

To correct keystone distortion, press the SELECT button. Keystone appears on the screen. Use the Point ▲▼ buttons to correct keystone distortion (p.23).

**Store**

To store or reset the keystone correction, press the Point ► button.

**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.

**Background**

Select the background screen for when no input signal is detected. Press the Point ▲▼ buttons to switch between each option.

- **Blue** .... Project a blue background.
- **User** .... Project an image captured in the Logo setting.
- **Black** .... Project a black background.

**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 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.20)
- **No signal** for Power management. (p.51)
- **Please wait** ...
- Arrows for the True mode in the Screen Menu (p.35)
- **P-Timer**
**Logo (Logo and Logo PIN code lock settings)**

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

**Note:**
When **On** is selected in the Logo PIN code lock function, Logo select and Capture functions can not be selected.

**Logo select**
This function decides on the starting-up display from among following options.
- **Off** .......... Show the countdown display only.
- **Default** .... Show the factory-set logo.
- **User** ........ Show the image you captured.
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.

To cancel the capture function, select Yes in the "Quit?" confirmation box.

✓ Note:
• Before capturing an image, select Standard in the Image select Menu to capture a proper image (pp.33, 40).
• The output image resolution from a computer can be supported up to the panel resolution (1280 x 800).
• 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 Logo PIN code lock function is set to On, Logo select and Capture can not be selected.
• When starting to capture a new image, the previously stored image is cleared even if you cancel the capturing.
• When there is no captured image or it is interrupted while capturing an image, User is not included in Logo Select Menu, you can only switch between Default and Off.

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.47).
On ............ The screen logo can not 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.

✓ Note:
When Logo PIN code lock function is set to On, Logo select and Capture can not be selected.
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 and press the SELECT button.

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 ▲▼ buttons to switch On or Off, and then press the SELECT button to make a choice.

Logo PIN code change

Logo PIN code can be changed to your desired four-digit number. Press the SELECT button to select Logo PIN code change. Current logo PIN code dialog box appears, use the Point ▲▼ buttons to enter the correct code. The New Logo PIN code input dialog box appears. Set a new Logo PIN code, confirmation box appears, choose Yes to set the new Logo PIN code.

Be sure to note the new Logo PIN code and keep it on hand. If you lost the number, you could no longer change the Logo PIN code setting.

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 76, 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.

Screen aspect
This function is used to project the image to a 4:3 or 16:9 projection screen.
4:3 ....... Set to a 4:3 projection screen.
16:9 ..... Set to a 16:9 projection screen.
16:10 ... 16:10 is the aspect of the LCD panel. The original Screen Menu is available.

HDMI setup
This function is only used for HDMI input source.

Image
Select Normal or Enhanced to match the video range setting of your HDMI Digital RGB equipment.

Sound
HDMI: When using the HDMI cable, select HDMI. Both video and audio are transferred and you need not to connect any additional cables for audio.
Computer: When using the DVI-HDMI cable, select Computer and connect the audio cable to COMPUTER/COMPONENT AUDIO IN terminal.

The names for the output setting of Digital RGB vary from equipment to equipment. For details, refer to the owner’s manual of your Digital RGB equipment. When the black parts of the image are destroyed or stand out, please switch to Normal or Enhanced, and then switch the output type of the HDMI Digital RGB output equipment.

Terminal
The COMPUTER IN 2/MONITOR OUT terminal on the back of the projector is switchable for computer input or monitor output (p.9).

Computer 2......Computer input
Monitor Out......Monitor out

Terminal function is not available when Computer 2 is selected to the input source. Change the input source to the others (Computer 1, Video or HDMI) so that the Terminal function is available (pp.27-28, 37-38).
Setting

**Standby mode**

This function is available when operating the projector via network.

**Network** 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 of “Network Set-up and Operation”.

✓ **Note:**
- Factory default is **Network**.
- When selecting **Network**, the cooling fans may be running depending on the temperature inside the projector even if the projector is turned off.
- When **Eco** is selected and the projector is in Stand-by, the communication of RS-232C serial port is not available.

**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.

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 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.

**Timer** 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 ▲▼ buttons to set the Timer(1~30Min).

✓ **Note:**
- Factory default is **Ready**: 5 Min.
Direct on

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 20). If the projector is turned off in the incorrect sequence, the Direct on function does not work properly.

P-timer

This function allows you to change the presentation of the P-timer and execute it.

Select one of the following options:

Count up.............. The P-timer display 000:00 appears on the screen and the count starts (000:00-180:00)

Count down........... The time set in the Timer setting appears on the screen and the countdown starts.

Timer.................... Use the Point ▲▼ buttons to set the Timer (1-180 Min). Only set to Count down, Timer is active. Factory default value is 10 Min.

Start..................... It executes the count up or count down function. Press the SELECT button at Start and the indication changes into Stop. To stop Count up or Count down, press the SELECT button at Stop on the screen menu, then the indication changes into Restart.

Reset...................... Reset the P-timer values. Press the SELECT button at Reset to return to the following value;

Count up ... "000:00"

Count down ... Timer that you set

Exit....................... To exit the P-timer operation.

Stop or Cancel the P-timer via Remote Control

To stop the P-timer, press the P-TIMER button.
To cancel the P-timer, press and hold the P-TIMER button for a few seconds.
Closed caption is a printed version of the program sound or other information displayed on the screen. If the input signal contains Closed captions, you can turn on the feature and switch the channels. Press the Point ▲▼ buttons to select Off, CC1, CC2, CC3 or CC4.

If the Closed caption is not clear, you can change the text from Color to White.

**Note:**
The Closed caption is available only under the situation below.

- When the input signal is **NTSC** of composite and S-video, and the system is set according to the signal or set on **Auto**.
- The system must be set on **NTSC** or **Auto** in Video System Selection. (p.39)
- The item of Closed caption is displayed in gray while it is not available.
- **Closed caption** is unavailable when On-Screen Menu and P-timer are displayed.

Press the Point ▲▼ buttons to select Off, CC1, CC2, CC3 or CC4, and then Press Select button.
This projector provides two different remote control codes: the factory-set initial code (Code 1) and the secondary code (Code 2). This switching function prevents remote control interference when operating several projectors or video equipment at the same time.

When operating the projector in Code 2, both the projector and the remote control must be switched to Code 2.

**To change the code for the projector:**
Select either Code 1 or Code 2 in this Setting Menu.

**To change the code for the remote control:**
Press and hold both the MENU and IMAGE buttons together for 5 seconds or more. After changing the code, make sure the remote control operates properly.

**Note:**
- When different codes are set on the projector and on the remote control, any operation can not be made. In that case, switch the code on the remote control to fit the code on the projector.
- If the batteries are removed from the remote control for a long period of time, the remote control code will be reset.
Setting

Security (PIN code lock)
This function allows you to use the PIN code lock function to set the security for the projector operation.

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

Off .......... Unlocked.
On 1 ........ Enter the PIN code every time turning on the projector.
On 2 ........ 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 the PIN code, the Security icon appears on the guide.

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 ▲▼ buttons to select Off, On 1, or On 2, and then press the SELECT button to make a choice.
PIN code change

The PIN code can be changed to your desired four-digit number. Press the SELECT button to select **PIN code change**. Current PIN code dialog box appears, use the Point ▲▼ buttons to enter the correct code. 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 76, AND KEEP IT SECURELY. IF YOU FORGET YOUR PIN CODE, THE PROJECTOR CAN NO LONGER BE STARTED.

Change the PIN code
**Fan**

This function provides the following options in the cooling fans’ operation when the projector is turned off (p.20).

- **L 1** ..... Normal operation.
- **L 2** ..... Slower, lower-sound and longish-time than the normal operation (L1).

**Fan control**

Choose the running speed of cooling fans from the following options according to the ground elevation under which you use the projector.

- **Off** .......... Normal speed. Set this function to Off when using the projector in non-high altitude environment.
- **On 1** .......... Faster than Off mode. Select this mode when using the projector in high altitudes (about 1,200 meters or more above the sea level) where the fans have less cooling effect.
- **On 2** .......... Faster than On 1 mode. Select this mode when using the projector in higher altitudes than above where the fans have lesser cooling effect.

**Video delay control**

When you want to make a digital processing of a projected image faster, set this function. Use the Point ▲▼ buttons, select an item of Off or On.

**Lamp counter**

This function is used to display the cumulative lamp operating time and reset the lamp counter.

When the total lighting time of a lamp exceeds the recommended total hours of use, the Lamp replacement icon (Fig.1) will appear on the screen, indicating that the end of lamp life is reached.

When replacing the projection lamp, reset lamp counter.

See "Resetting the Lamp Counter" on page 64.

**Note:**

When L1 is selected in Fan menu and the projector is turned on right after it turned off, it may take a while to start projecting.

**Note:**

- Fan noise becomes louder in On 1 and On 2.
- Failure to set the running speed of cooling fans properly may affect the projector life.

**Note:**

Noise reduction and Progressive can not be selected when Video delay control is set to On.

**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.1) will appear.

**Note:**

The Lamp replacement icon (Fig.1) will not appear when the Display function is set to Off (p.46), or Freeze(p.25), or No show (p.26).
**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.

**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.

**Filter counter**

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

When the projector reached a specified time between replacings, a Filter warning icon appears on the screen, notifying the replacing is necessary. After replacing the filter, be sure to select Filter counter 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 61.

**Note:**

This icon also appears at turning on.

**Note:**

The Filter warning icon (Fig.1) will not appear when the Display function is set to Off (p.46), or Freeze (p.25), or No show (p.26).

**Filter counter**

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.

**Filter counter**

Press the SELECT button to select Timer, and then use the Point ▲▼ buttons to set the timer. Select from (Off/2000H/3000H/4000H) depending on the use environment.
The Information Menu is used for checking the status of the image signal being projected and the operation of the projector.

### Direct Operation
Press the INFO. button on the remote control to display the Information Menu.

### Menu Operation
Press the Point ▲▼ buttons to select the Information. The Information Menu is displayed.

See below for displayed information.

**Input**
The selected input source is displayed.

**H-sync freq.**
The horizontal frequency of the input signal is displayed in KHz, or - - - - KHz when no signal.

**V-sync freq.**
The vertical frequency of the input signal is displayed in Hz, or - - - - Hz when no signal. Numbers of Hz doubles when during Interlace.

**Screen**
The selected screen size is displayed.

**Language**
The selected language is displayed.

**Lamp status**
The selected lamp mode is displayed.

**Lamp counter**
The cumulative lamp operating time is displayed.

**Power management**
Off, Ready, Shut down or Timer is displayed.

**PIN code lock**
Off or On 1 or On 2 is displayed.

**Remote control**
The selected remote code is displayed.

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**Input Source Information Display**

Press the Point ▲▼ buttons to select the Information. The Information Menu is displayed.

**Input**
The selected input source is displayed.

**H-sync freq.**
The horizontal frequency of the input signal is displayed in KHz, or - - - - KHz when no signal.

**V-sync freq.**
The vertical frequency of the input signal is displayed in Hz, or - - - - Hz when no signal. Numbers of Hz doubles when during Interlace.

**Screen**
The selected screen size is displayed.

**Language**
The selected language is displayed.

**Lamp status**
The selected lamp mode is displayed.

**Lamp counter**
The cumulative lamp operating time is displayed.

**Power management**
Off, Ready, Shut down or Timer is displayed.

**PIN code lock**
Off or On 1 or On 2 is displayed.

**Remote control**
The selected remote code is displayed.
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? Replace the filter with a new one.

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 can not be turned on and the WARNING indicator still lights red, unplug the AC power cord and contact the service center.

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

Filter prevents dust from accumulating on the optical elements inside the projector. Should the Filter become 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, replace the Filter immediately. Replace the filter by following the steps below.

1. Turn off the projector, and unplug the AC power cord from the AC outlet.
2. First, clean up the dust on the projector and around the air vents.
3. Press leftwards on the filter cover to release the latch and open the filter cover.
4. Pull out the filter. When taking out the filter, put your fingers on the filter tab and then pull.
5. Insert the new filter completely and replace the filter cover. Ensure that the area with “TOP” mark is in an upward direction.
6. Connect the AC power cord to the projector and turn on the projector.
7. Reset the filter counter.

**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. Do not wash the filter with water or any other liquid matter. Otherwise the filter may be damaged.

**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 center for proper cleaning.

### Resetting the Filter Counter

Be sure to reset the Filter counter after replacing the Filter.

1. Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select **Setting** and then press the Point ► or the SELECT button.
2. Use the Point ▲▼ buttons to select **Filter counter** and then press the SELECT button. Use the Point ▲▼ buttons to select **Filter counter reset** and then press the SELECT button. **Filter counter Reset?** appears. Select **Yes** to continue.
3. Another confirmation dialog box appears, select **Yes** to reset the Filter counter.
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.

CAUTION

Do not use any flammable solvents or air sprays on the projector and in its vicinity. The explosion or fire hazard may occur even after the AC power cord is unplugged because the temperature inside the projector is extremely high due to the lamps. In addition, there is a risk that the internal parts may be damaged not only by the flammable air spray but also by the cold air.
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.

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

**CAUTION**

When replacing the lamp because it has stopped illuminating, there is a possibility that the lamp may be broken. If replacing the lamp of a projector which has been installed on the ceiling, you should always assume that the lamp is broken, and you should stand to the side of the lamp cover, not underneath it. Remove the lamp cover gently. Small pieces of glass may fall out when the lamp cover is opened. If pieces of glass get into your eyes or mouth, seek medical advice immediately.

**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.

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. Loosen the screw and open the lamp cover.
3. Loosen the three (3) 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 three (3) screws. Make sure that the lamp is set properly. Close the lamp cover and secure the screw.
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:** PRM-30A
- **Replacement Lamp Type No.:** POA-LMP140 (Service Parts No. 610 350 2892)
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 center 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 14-16.
– 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.

<table>
<thead>
<tr>
<th>Problem:</th>
<th>Solutions</th>
</tr>
</thead>
</table>
| **No power.** | – Plug the power cord of the projector into the AC outlet.  
– See if the POWER indicator lights red.  
– Wait until the POWER indicator stops blinking to turn on the projector again. The projector can be turned on after the POWER indicator turns red. See page 18.  
– Check the WARNING indicator. If the WARNING indicator lights red, projector can not be turned on. See page 60.  
– Check the projection lamp. See page 63. |
| **The initial display is not shown.** | – Make sure Off or Countdown off are not chosen at display function. See page 46. |
| **The initial display is not same as the default set.** | – Make sure User or Off are not chosen at Logo (select) function. See page 47. |
| **Input signal switches automatically. (or does not switch automatically)** | – Make sure Input search function is adjusted properly. See page 45. |
| **An icon other than Input mode or Lamp mode icon appears.** | – That is the Filter warning icon or the Lamp replacement icon. See page 58 or 63. |
| **Image is out of focus.** | – Adjust focus of the projector. See page 23.  
– Provide proper distance between the projector and the projection screen. See page 13.  
– Check the projection lens to see if it needs cleaning. See page 62.  
– 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. |
| **Image is Left/Right reversed.  **  
**Image is Top/Bottom reversed.** | – Check the Ceiling/Rear function. See page 50.  
– Check the Ceiling function. See page 50. |
| **Picture is not bright enough.** | – Check if the Contrast or Brightness is adjusted properly. See pages 34, 41.  
– Check if Image mode is selected properly. See pages 33, 40.  
– Check the lamp control function. See pages 25, 54.  
– Check the LAMP REPLACE indicator. If it lights, the end of lamp life is approaching. Replace the lamp with a new one promptly. See page 63. |
<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
</table>
| No image.                                    | – Check the connection between your computer or video equipment and the projector. See pages 14-16.  
– 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.  
– It takes about 15 seconds to display an image after turning on the projector. See page 18.  
– Check the Input signal, color system, video system or computer system mode.  
– Make sure the temperature is not out of the specified Operating Temperature (41°F–95°F [5°C–35°C]).  
– When No Show is operating, the image can not be displayed. Press the NO SHOW button or any other button on the remote control. |
| No sound.                                    | – Check the audio cable connection from audio input source.  
– Adjust the audio source.  
– Press the VOLUME + button. See page 24.  
– Press the MUTE button. See page 24.  
– Is the image projected? You will hear the sound only when the image is projected. |
| The color is strange.                        | – Check the Input signal, color system, video system or computer system mode.  
– Make sure the Blackboard is not selected on Image select Menu. See pages 33, 40. |
<p>| Some displays are not seen during the operation. | – Check the Display function. See page 46. |
| Auto PC adjustment function does not work.   | – Check the Input signal. Auto PC function can not work when 480p, 575p, 720p, 480i, 575i, 1035i or 1080i is selected (See page 29), or when the digital signal is input into HDMI terminal. See page 30. |
| The setting does not remain after turning off power. | – Make sure you selected Store after adjusting setting. Some settings can not be stored if not registered with &quot;Store&quot;. See pages 35,42. |
| Power management does not work.              | – Power management function can not work while Freeze or No Show is running. See page 51. |
| Capture function does not work.              | – Check the connection and the input signal to see if there is signal. |
| Auto setup does not work properly.           | – Make sure Off is not selected at any function of Auto setup. See page 45. |</p>
<table>
<thead>
<tr>
<th>Problem Description</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>The image is distorted or runs off.</td>
<td>Check <strong>PC adjustment</strong> Menu or <strong>Screen</strong> and adjust them. See pages 30-31, 35-36.</td>
</tr>
<tr>
<td>PIN code dialog box appears at start-up.</td>
<td>PIN code lock is being set. Enter a PIN code (the “1234” or numbers you have set). See pages 19, 55-56.</td>
</tr>
<tr>
<td>The Remote Control does not work.</td>
<td>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 54.</td>
</tr>
<tr>
<td>Indicator blinks or lights.</td>
<td>Check the status of the projector with referring to “Indicators and projector Condition”. See page 70.</td>
</tr>
<tr>
<td>The exclamation mark appears on the screen.</td>
<td>Your operation is invalid. Operate correctly.</td>
</tr>
<tr>
<td>Unable to unlock the Logo PIN code lock or Security PIN code lock.</td>
<td>Contact the dealer where you purchased the projector or the service center.</td>
</tr>
</tbody>
</table>

**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/HDMI Input/Video Input

Input

Computer 1
- RGB
- Component
- RGB (Scart)

Computer 2*
- RGB
- HDMI
- Video
- S-video

* COMPUTER 2 can not be selected when using the COMPUTER IN 2/ MONITOR OUT terminal as MONITOR OUT output.

Sound

Sound
- Volume: 0-63
- Mute: On / Off

Computer Input

SVGA 1

System (1)
- SVGA 1
  - Mode 1
  - Mode 2

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

Picture

Mode
- Auto PC adj.
- Fine sync: 0-31
- Total dots
- Horizontal
- Vertical
- Clamp
- Display area H
- Display area V
- Reset: Yes / No
- Mode free: Mode 1 ~ 10
- Store: Mode 1 ~ 10

Image adjust

- Contrast: 0-63
- Brightness: 0-63
- Color temp.
  - XLow
  - Low
  - Mid
  - High
  - User
- 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

Screen

- Normal
- True
- Full
- Custom
- Scale: H / V
- Position: On / Off
- Common: H/V
- Reset: Yes / No
- Digital zoom +
- Digital zoom -

Image select

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

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

Appendix

Input

Computer 1
- RGB
- Component
- RGB (Scart)

Computer 2*
- RGB
- HDMI
- Video
- S-video

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Sound

Sound
- Volume: 0-63
- Mute: On / Off

Computer Input

SVGA 1

System (1)
- SVGA 1
  - Mode 1
  - Mode 2

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Picture

Mode
- Auto PC adj.
- Fine sync: 0-31
- Total dots
- Horizontal
- Vertical
- Clamp
- Display area H
- Display area V
- Reset: Yes / No
- Mode free: Mode 1 ~ 10
- Store: Mode 1 ~ 10

Image adjust

- Contrast: 0-63
- Brightness: 0-63
- Color temp.
  - XLow
  - Low
  - Mid
  - High
  - User
- 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

Screen

- Normal
- True
- Full
- Custom
- Scale: H / V
- Position: On / Off
- Common: H/V
- Reset: Yes / No
- Digital zoom +
- Digital zoom -

Image select

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

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

### Video Input

<table>
<thead>
<tr>
<th>System (2)</th>
<th>Auto</th>
<th>1080i</th>
<th>1035i</th>
<th>720p</th>
<th>575p</th>
<th>480p</th>
<th>575i</th>
<th>480i</th>
</tr>
</thead>
<tbody>
<tr>
<td>System (3)</td>
<td>Auto</td>
<td>PAL</td>
<td>SECAM</td>
<td>NTSC</td>
<td>NTSC 4.43</td>
<td>PAL-M</td>
<td>PAL-N</td>
<td></td>
</tr>
</tbody>
</table>

### HDMI Input/Video Input

<table>
<thead>
<tr>
<th>Image select</th>
<th>Dynamic</th>
<th>Standard</th>
<th>Cinema</th>
<th>Blackboard (Green)</th>
<th>Colorboard</th>
<th>Red / Blue / Yellow / Green</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image 1</td>
<td></td>
<td></td>
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<tr>
<td>Image 2</td>
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<tr>
<td>Image 3</td>
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<tr>
<td>Image 4</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Image adjust</th>
<th>Contrast</th>
<th>0-63</th>
<th>Brightness</th>
<th>0-63</th>
<th>Color</th>
<th>0-63</th>
<th>Tint</th>
<th>0-63</th>
<th>Color temp.</th>
<th>XLow</th>
<th>Low</th>
<th>Mid</th>
<th>High</th>
<th>User</th>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Screen</th>
<th>Normal</th>
<th>Full</th>
<th>Zoom</th>
<th>Wide</th>
<th>Natural wide</th>
<th>Custom</th>
<th>Custom adj.</th>
<th>Scale H / V</th>
<th>H&amp;V</th>
<th>On / Off</th>
<th>Position H / V</th>
<th>Common</th>
<th>Yes / No</th>
<th>Reset</th>
<th>Yes / No</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>
## 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>✖️ ✖️ ✖️  ✖️</td>
<td>The projector is off. (The AC power cord is unplugged.)</td>
</tr>
<tr>
<td>✖️ ✖️ ✖️  ✗</td>
<td>The projector is in stand-by mode. Press the ON/STAND-BY button to turn on the projector.</td>
</tr>
<tr>
<td>✖️ ✖️ ✖️  ✗</td>
<td>The projector is operating normally.</td>
</tr>
<tr>
<td>✖️ ✖️ ✖️  ✗</td>
<td>The projector is preparing for stand-by or the projection lamp is being cooled down. The projector can not be turned on until cooling is completed and the POWER indicator stops blinking.</td>
</tr>
<tr>
<td>✖️ ✖️ ✖️  ✗</td>
<td>The projector is in the Power management mode.</td>
</tr>
<tr>
<td>✖️ ✖️ ✖️  ✗</td>
<td>The temperature inside the projector is abnormally high. The projector can not 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.)</td>
</tr>
<tr>
<td>✖️ ✖️ ✖️  ✗</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.</td>
</tr>
<tr>
<td>✖️ ✖️ ✖️  ✗</td>
<td>The projector detects an abnormal condition and can not 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>
</tbody>
</table>

*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.
Appendix

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.

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>
</tr>
</thead>
<tbody>
<tr>
<td>VGA 1</td>
<td>640 x 480</td>
<td>31.47</td>
<td>59.88</td>
</tr>
<tr>
<td>VGA 2</td>
<td>720 x 400</td>
<td>31.47</td>
<td>70.09</td>
</tr>
<tr>
<td>VGA 3</td>
<td>640 x 480</td>
<td>31.47</td>
<td>70.09</td>
</tr>
<tr>
<td>VGA 4</td>
<td>640 x 480</td>
<td>37.86</td>
<td>74.38</td>
</tr>
<tr>
<td>VGA 5</td>
<td>640 x 480</td>
<td>37.86</td>
<td>72.81</td>
</tr>
<tr>
<td>VGA 6</td>
<td>640 x 480</td>
<td>37.50</td>
<td>75.00</td>
</tr>
<tr>
<td>VGA 7</td>
<td>640 x 480</td>
<td>43.269</td>
<td>85.00</td>
</tr>
<tr>
<td>MAC LC13</td>
<td>640 x 480</td>
<td>34.97</td>
<td>66.60</td>
</tr>
<tr>
<td>MAC 13</td>
<td>640 x 480</td>
<td>35.00</td>
<td>66.67</td>
</tr>
<tr>
<td>480p</td>
<td>640 x 480</td>
<td>31.47</td>
<td>59.88</td>
</tr>
<tr>
<td>575p</td>
<td>768 x 575</td>
<td>31.25</td>
<td>50.00</td>
</tr>
<tr>
<td>480i</td>
<td>640 x 480</td>
<td>15.734</td>
<td>50.00 (Interlace)</td>
</tr>
<tr>
<td>575i</td>
<td>768 x 576</td>
<td>15.625</td>
<td>60.00 (Interlace)</td>
</tr>
<tr>
<td>720p</td>
<td>1280 x 720</td>
<td>37.50</td>
<td>50.00</td>
</tr>
<tr>
<td>720p</td>
<td>1280 x 720</td>
<td>45.00</td>
<td>60.00</td>
</tr>
<tr>
<td>SVGA 1</td>
<td>800 x 600</td>
<td>35.156</td>
<td>56.25</td>
</tr>
<tr>
<td>SVGA 2</td>
<td>800 x 600</td>
<td>37.88</td>
<td>60.32</td>
</tr>
<tr>
<td>SVGA 3</td>
<td>800 x 600</td>
<td>46.875</td>
<td>75.00</td>
</tr>
<tr>
<td>SVGA 4</td>
<td>800 x 600</td>
<td>53.674</td>
<td>85.06</td>
</tr>
<tr>
<td>SVGA 5</td>
<td>800 x 600</td>
<td>48.08</td>
<td>72.19</td>
</tr>
<tr>
<td>SVGA 6</td>
<td>800 x 600</td>
<td>37.90</td>
<td>61.03</td>
</tr>
<tr>
<td>SVGA 7</td>
<td>800 x 600</td>
<td>34.50</td>
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<td>63.90</td>
<td>60.00</td>
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<td>SXGA 4</td>
<td>1280 x 1024</td>
<td>63.34</td>
<td>59.98</td>
</tr>
</tbody>
</table>
Note:

- The specifications are subject to change without notice.
- Depending on your PC settings, the digital signals of your PC may not be projected correctly. In such a case, confirm your PC settings.
- When you project a DVI signal, connect the cables, turn the projector on, then select the input. Finally, turn on your PC. Be sure to follow this procedure, otherwise an image may not be projected on the screen. If an image is not projected correctly, restart your PC.
- Do not disconnect the cable while the projector is running. If the cable has been disconnected and then reconnected, an image may not be correctly projected.

When the input signal is digital from HDMI 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>
</tr>
</thead>
<tbody>
<tr>
<td>D-480p</td>
<td>640 x 480</td>
<td>31.47</td>
<td>59.88</td>
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<td>D-576p</td>
<td>768 x 575</td>
<td>31.25</td>
<td>50.00</td>
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<td>D-720p</td>
<td>1280 x 720</td>
<td>37.50</td>
<td>50.00</td>
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<tr>
<td>D-720p</td>
<td>1280 x 720</td>
<td>45.00</td>
<td>60.00</td>
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<tr>
<td>D-VGA</td>
<td>640 x 480</td>
<td>31.47</td>
<td>59.94</td>
</tr>
<tr>
<td>D-SVGA</td>
<td>800 x 600</td>
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<td>1024 x 768</td>
<td>43.36</td>
<td>60.00</td>
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<tr>
<td>D-WXGA 1</td>
<td>1366 x 768</td>
<td>48.36</td>
<td>60.00</td>
</tr>
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<td>47.7</td>
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<td>48.36</td>
<td>60.00</td>
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<td>56.16</td>
<td>72.00</td>
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<td>1366 x 768</td>
<td>46.50</td>
<td>50.00</td>
</tr>
<tr>
<td>D-WXGA 6</td>
<td>1280 x 768</td>
<td>47.77</td>
<td>59.87</td>
</tr>
<tr>
<td>D-WXGA 7</td>
<td>1280 x 768</td>
<td>60.28</td>
<td>74.89</td>
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<td>68.63</td>
<td>84.83</td>
</tr>
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<td>49.57</td>
<td>59.87</td>
</tr>
<tr>
<td>D-1080i</td>
<td>1920 x 1080</td>
<td>****</td>
<td>59.87</td>
</tr>
<tr>
<td>D-1080p</td>
<td>1920 x 1080</td>
<td>****</td>
<td>59.44</td>
</tr>
<tr>
<td>D-1080p</td>
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<td>D-1080p</td>
<td>1920 x 1080</td>
<td>****</td>
<td>50.00</td>
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</table>

<table>
<thead>
<tr>
<th>ON-SCREEN DISPLAY</th>
<th>RESOLUTION</th>
<th>H-Freq. (KHz)</th>
<th>V-Freq. (Hz)</th>
</tr>
</thead>
<tbody>
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<td>1280 x 800</td>
<td>41.20</td>
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<td>1280 x 800</td>
<td>49.70</td>
<td>59.81</td>
</tr>
<tr>
<td>D-WXGA 12</td>
<td>1280 x 800</td>
<td>63.98</td>
<td>60.02</td>
</tr>
<tr>
<td>D-SXGA1</td>
<td>1280 x 1024</td>
<td>63.98</td>
<td>60.02</td>
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<td>1280 x 1024</td>
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<td>1400 x 1050</td>
<td>65.35</td>
<td>60.12</td>
</tr>
<tr>
<td>D-SXGA+ 3</td>
<td>1400 x 1050</td>
<td>65.12</td>
<td>59.90</td>
</tr>
<tr>
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<td>1680 x 1050</td>
<td>65.29</td>
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</tr>
<tr>
<td>D-WXGA +1</td>
<td>1440 x 900</td>
<td>55.93</td>
<td>59.88</td>
</tr>
<tr>
<td>D-1035i</td>
<td>1920 x 1035</td>
<td>33.75</td>
<td>60.00 (Interlace)</td>
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<td>D-1080i</td>
<td>1920 x 1080</td>
<td>28.12</td>
<td>50.00 (Interlace)</td>
</tr>
<tr>
<td>D-WUXGA 2</td>
<td>1920 x 1200</td>
<td>74.03</td>
<td>59.95</td>
</tr>
</tbody>
</table>
# Technical Specifications

## Mechanical Information
- **Projector Type**: Multi-media Projector
- **Dimensions (W x H x D)**: 16.93" x 5.69" x 15.04" (430 mm x 144.4 mm x 381.9 mm) (Including Ceiling plate)
- **Net Weight**: 12.52 lbs (5.68kg) (Including Ceiling plate)

## Panel Resolution
- **LCD Panel System**: 0.59" TFT Active Matrix type, 3 panels
- **Panel Resolution**: 1,280 x 800 dots
- **Number of Pixels**: 3,072,000 (1,280 x 800 x 3 panels)

## Panel Resolution
- **Color System**: PAL, SECAM, NTSC, NTSC4.43, PAL-M, and PAL-N
- **SD/HDTV Signal**: Component: 480i, 480p, 575i, 575p, 720p, 1035i, and 1080i
  - HDMI: 480p, 575p, 720p, 1080i and 1080p
- **Scanning Frequency**: H-sync. 15 kHz-100 kHz, V-sync. 50-100 Hz

## Optical Information
- **Projection Image Size (Diagonal)**: Adjustable from 60” to 110”
- **Throw Distance**: 2.09’ - 3.93’ (63.6 cm - 119.7 cm)
- **Projection Lens**: F 1.8 lens with f 6.68 mm with manual focus
- **Projection Lamp**: 230W

## 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 / Component Input Terminal**: Analog RGB (Mini D-sub 15 pin) Terminal x 1
- **Computer Input 2 / Monitor Output Terminal**: Analog RGB (Mini D-sub 15 pin) Terminal x 1 (In/Out switchable)
- **Computer/ Component Audio Input Jack**: Mini Jack (stereo) x 1
- **Control port**: D-sub 9 pin x 1
- **Audio Output Jack**: Mini Jack (stereo) x 1 (variable)
- **LAN Connection Terminal**: RJ-45
- **HDMI**: HDMI (V1.3 with Deep Color) x 1

## Power
- **Voltage and Power Consumption**:
  - AC 100–120 V (3.9 A Max.), 50/60 Hz (The U.S.A and Canada)
  - AC 100-240 V (3.9 - 2.2 A Max.), 50/60Hz
    - (Continental Europe, Mexico, Argentina, Korea and The U.K.,Russia, Kazakhstan and Republic of South Africa)

## 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 1.5V ALKALINE TYPE x 2
- **Operating Range**: 16.4’ (5 m) ± 30˚
- **Dimensions**: 2.0” (W) x 0.7” (H) x 4.3” (D) (52 mm x 18 mm x 110 mm)
- **Net Weight**: 2.37 oz (67 g) (including batteries)
Appendix

Accessories

- Owner's Manual (CD-ROM)
- Network Application (CD-ROM)
- Quick Reference Guide
- AC Power Cord
- Remote Control and Batteries
- VGA Cable
- PIN Code Label

- 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.
### Configurations of Terminals

#### COMPUTER IN 1 / COMPONENT IN

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

<table>
<thead>
<tr>
<th>Pin</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Red (R/Cr) Input</td>
</tr>
<tr>
<td>2</td>
<td>Green (G/Y) Input</td>
</tr>
<tr>
<td>3</td>
<td>Blue (B/Cb) Input</td>
</tr>
<tr>
<td>4</td>
<td>Ground (Horiz. sync.)</td>
</tr>
<tr>
<td>5</td>
<td>Ground (Red)</td>
</tr>
<tr>
<td>6</td>
<td>Ground (Green)</td>
</tr>
<tr>
<td>7</td>
<td>Ground (Blue)</td>
</tr>
<tr>
<td>8</td>
<td>5V Power</td>
</tr>
<tr>
<td>9</td>
<td>Ground (Vert. sync.)</td>
</tr>
<tr>
<td>10</td>
<td>DDC Data</td>
</tr>
<tr>
<td>11</td>
<td>Vert. sync.</td>
</tr>
<tr>
<td>12</td>
<td>DDC Clock</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Pin</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Red (R/Cr) Input/Output</td>
</tr>
<tr>
<td>2</td>
<td>Green (G/Y) Input/Output</td>
</tr>
<tr>
<td>3</td>
<td>Blue (B/Cb) Input/Output</td>
</tr>
<tr>
<td>4</td>
<td>Ground (Horiz. sync.)</td>
</tr>
<tr>
<td>5</td>
<td>Ground (Red)</td>
</tr>
<tr>
<td>6</td>
<td>Ground (Green)</td>
</tr>
<tr>
<td>7</td>
<td>Ground (Blue)</td>
</tr>
<tr>
<td>8</td>
<td>Ground (Vert. sync.)</td>
</tr>
<tr>
<td>9</td>
<td>DDC Data</td>
</tr>
<tr>
<td>10</td>
<td>Vert. sync.</td>
</tr>
<tr>
<td>11</td>
<td>DDC Clock</td>
</tr>
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</table>

#### CONTROL PORT CONNECTOR (D-sub 9 pin)

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
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<tr>
<td>4</td>
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<tr>
<td>5</td>
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<tr>
<td>6</td>
</tr>
<tr>
<td>7</td>
</tr>
<tr>
<td>8</td>
</tr>
<tr>
<td>9</td>
</tr>
</tbody>
</table>

#### HDMI (19 Pin Type A)

<table>
<thead>
<tr>
<th>Pin</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TMDS Data 2+ Input</td>
</tr>
<tr>
<td>2</td>
<td>Ground (TMDS Data 2)</td>
</tr>
<tr>
<td>3</td>
<td>TMDS Data 2- Input</td>
</tr>
<tr>
<td>4</td>
<td>TMDS Data 1+ Input</td>
</tr>
<tr>
<td>5</td>
<td>Ground (TMDS Data 1)</td>
</tr>
<tr>
<td>6</td>
<td>TMDS Data 1- Input</td>
</tr>
<tr>
<td>7</td>
<td>TMDS Data 0+ Input</td>
</tr>
<tr>
<td>8</td>
<td>Ground (TMDS Data 0)</td>
</tr>
<tr>
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<td>TMDS Data 0- Input</td>
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<td>10</td>
<td>TMDS Clock+ Input</td>
</tr>
<tr>
<td>11</td>
<td>Ground (TMDS Clock)</td>
</tr>
<tr>
<td>12</td>
<td>TMDS Clock- Input</td>
</tr>
<tr>
<td>13</td>
<td>SCL</td>
</tr>
<tr>
<td>14</td>
<td>SDA</td>
</tr>
<tr>
<td>15</td>
<td>Ground (DDC/CEC)</td>
</tr>
<tr>
<td>16</td>
<td>+5V Power</td>
</tr>
<tr>
<td>17</td>
<td>Plug insert detection</td>
</tr>
</tbody>
</table>
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 center.

**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 center.

- **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*

*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.
Appendix

Dimensions

Unit: inch (mm)

Screw Holes for Ceiling Mount
Screw: M4
Depth: 0.472 (12.0)