Before operating this product, please read these instructions carefully and save this manual for future use.

For assistance, please call: 1 - 888 - View - PTV (843 - 9788)
   or send e-mail to: consumerproducts@panasonic.com
   or visit us at www.panasonic.com  (U.S.A)

For assistance, please call: 787 - 750 - 4300
   or visit us at http://panasonic.net  (Puerto Rico)
Dear Panasonic Customer:

This instruction booklet provides all the necessary operating information that you might require. We hope it will help you to get the most out of your new product, and that you will be pleased with your Panasonic LCD projector. The serial number of your product may be found on its bottom. You should note it in the space provided below and retain this booklet in case service is required.

Model number: PT-AX100U

Serial number:

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

**Power Supply:** This LCD Projector is designed to operate on 100 V - 240 V, 50 Hz/60 Hz AC, house current only.

**CAUTION:** The AC power cord which is supplied with the projector as an accessory can only be used for power supplies up to 125 V, 7 A. If you need to use higher voltages or currents than this, you will need to obtain a separate 250 V power cord. If you use the accessory cord in such situations, fire may result.

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

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

**CAUTION:** This equipment is equipped with a three-pin grounding-type power plug. Do not remove the grounding pin on the power plug. This plug will only fit a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician. Do not defeat the purpose of the grounding plug.

Do not remove
WARNING:
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.

FCC CAUTION: To assure continued compliance, use only shielded interface cables when connecting to computers or peripheral devices. Any unauthorized changes or modifications to this equipment will void the users authority to operate.
If you use serial port to connect PC for external control of projector, you must use optional RS-232C serial interface cable with ferrite core. Any unauthorized changes or modifications to this equipment will void the user's authority to operate.

Indication based on the German law "Geräte- und Produktsicherheitsgesetz"
Directive 2001/95/EC (Article 5);
Panasonic Marketing Europe GmbH
Hagenauer Str. 43 65203 Wiesbaden F.R.GERMANY


Declaration of Conformity
Model Number: PT-AX100U
Trade Name: Panasonic
Responsible party: Panasonic North America
Address: One Panasonic Way 4B - 9 Secaucus, New Jersey 07094
Telephone number: 1 - 888 - View - PTV (843 - 9788)
This device complies with Part 15 of the FCC Rules, Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
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   See “Setting up” on page 14.

2. Connect with other devices
   See “Connections” on page 18.

3. Prepare the Remote control
   See “Remote control” on page 11.

4. Start projecting
   See “Switching the projector on/off” on page 19.

5. Adjust the image

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Precautions with regard to safety

**WARNINGS**

If you notice smoke, strange smells or noise coming from the projector, disconnect the power cord plug from the wall outlet.
- Do not continue to use the projector in such cases, otherwise fire or electric shocks could result.
- Check that no more smoke is coming out, and then contact an Authorized Service Center for repairs.
- Do not attempt to repair the projector yourself, as this can be dangerous.

Do not install this projector in a place which is not strong enough to take the full weight of the projector.
- If the installation location is not strong enough, it may fall down or tip over, and severe injury or damage could result.

Installation work (such as ceiling suspension) should only be carried out by a qualified technician.
- If installation is not carried out correctly, there is the danger that injury or electric shocks may occur.
- Do not use other than an authorized ceiling mount bracket.

If foreign objects or water get inside the projector, or if the projector is dropped or the cabinet is broken, disconnect the power cord plug from the wall outlet.
- Continued use of the projector in this condition may result in fire or electric shocks.
- Contact an Authorized Service Center for repairs.

Do not overload the wall outlet.
- If the power supply is overloaded (for example, by using too many adapters), overheating may occur and fire may result.

Do not remove the cover or modify it in any way.
- High voltages can cause fire or electric shocks.
- For any inspection, adjustment and repair work, please contact an Authorized Service Center.

Clean the power cord plug regularly to prevent it from becoming covered in dust.
- If dust builds up on the power cord plug, the resulting humidity can damage the insulation, which could result in fire. Pull the power cord plug out from the wall outlet and wipe it with a dry cloth.
- If not using the projector for an extended period of time, pull the power cord plug out from the wall outlet.

Do not do anything that might damage the power cord or the power cord plug.
- Do not damage the power cord, make any modifications to it, place it near any hot objects, bend it excessively, twist it, pull it, place heavy objects on top of it or wrap it into a bundle.
- If the power cord is used while damaged, electric shocks, short-circuits or fire may result.
- Ask an Authorized Service Center to carry out any repairs to the power cord that might be necessary.

Do not handle the power cord plug with wet hands.
- Failure to observe this may result in electric shocks.

Insert the power cord plug securely into the wall outlet.
- If the plug is not inserted correctly, electric shocks or overheating could result.
- Do not use plugs which are damaged or wall outlets which are coming loose from the wall.

Do not place the projector on top of surfaces which are unstable.
- If the projector is placed on top of a surface which is sloped or unstable, it may fall down or tip over, and injury or damage could result.

Do not place the projector into water or let it become wet.
- Failure to observe this may result in fire or electric shocks.

Do not place the projector on soft materials such as carpets or sponge mats.
- Doing so may cause the projector to overheat, which can cause burns, fire or damage to the projector.

Do not place liquid containers on top of the projector.
- If water spills onto the projector or gets inside it, fire or electric shocks could result.
- If any water gets inside the projector, contact an Authorized Service Center.

Do not insert any foreign objects into the projector.
- Do not insert any metal objects or flammable objects into the projector or drop them onto the projector, as doing so can result in fire or electric shocks.

Do not allow the + and - terminals of the batteries to come into contact with metallic objects such as necklaces or hairpins.
- Failure to observe this may cause the batteries to leak, overheat, explode or catch fire.
- Store the batteries in a plastic bag and keep them away from metallic objects.
Precautions with regard to safety

During a thunderstorm, do not touch the projector or the cable.
- Electric shocks can result.

Do not use the projector in a bath or shower.
- Fire or electric shocks can result.

Do not place your skin into the light beam while the projector is being used.
- Strong light is emitted from the projector’s lens. If you place directly into this light, it can hurt or damage your skin.

Do not look into the lens while the projector is being used.
- Strong light is emitted from the projector’s lens. If you look directly into this light, it can hurt and damage your eyes.
- Be especially careful not to let young children look into the lens. In addition, turn off the power and disconnect the power cord plug when you are away from the projector.

Do not place your hands or other objects close to the air outlet port.
- Heated air comes out of the air outlet port. Do not place your hands or face, or objects which cannot withstand heat close to this port [allow at least 10 cm (4”) of space], otherwise burns or damage could result.

Replacement of the lamp is better to be carried out by a qualified technician.
- The lamp has high internal pressure. If improperly handled, explosion might result.
- The lamp can easily become damaged if struck against hard objects or dropped, and injury or malfunctions may result.

When replacing the lamp, allow it to cool for at least one hour before handling it.
- The lamp cover gets very hot, and touching it can cause burns.

Before replacing the lamp, be sure to disconnect the power cord plug from the wall outlet.
- Electric shocks or explosions can result if this is not done.

Do not allow infants or pets to touch the remote control unit.
- The accessory remote control unit can be used to operate not only the projector but also other appliances such as air conditioners and electrical device by programing them using the learning function. If the remote control unit operated inappropriately, fire or injury may result.
- Keep the remote control unit out of the reach of infants and pets after using it.
Precautions with regard to safety

CAUTIONS

Do not cover the air inlet port or the air outlet port.
- Doing so may cause the projector to overheat, which can cause fire or damage to the projector.
- Do not place the projector in narrow, badly ventilated places such as closets or bookshelves.
- Do not place the projector on cloth or papers, as these materials could be drawn into the air inlet port.

Do not set up the projector in humid or dusty places or in places where the projector may come into contact with oily smoke or steam.
- Using the projector under such conditions may result in fire, electric shocks or plastic deterioration. The plastic deterioration may cause the falling down of the projector which is mounted in the ceiling.

When disconnecting the power cord, hold the plug, not the cord.
- If the power cord itself is pulled, the cord will become damaged, and fire, short-circuits or serious electric shocks may result.

Always disconnect all cables before moving the projector.
- Moving the projector with cables still attached can damage the cables, which could cause fire or electric shocks to occur.

Do not place any heavy objects on top of the projector.
- Failure to observe this may cause the projector to become unbalanced and fall, which could result in damage or injury.

Do not short-circuit, heat or disassemble the batteries or place them into water or fire.
- Failure to observe this may cause the batteries to overheat, leak, explode or catch fire, and burns or other injury may result.

When inserting the batteries, make sure the polarities (+ and -) are correct.
- If the batteries are inserted incorrectly, they may explode or leak, and fire, injury or contamination of the battery compartment and surrounding area may result.

Use only the specified batteries.
- If incorrect batteries are used, they may explode or leak, and fire, injury or contamination of the battery compartment and surrounding area may result.

Do not mix old and new batteries.
- If the batteries are inserted incorrectly, they may explode or leak, and fire, injury or contamination of the battery compartment and surrounding area may result.

Do not put your weight on this projector.
- You could fall or the projector could break, and injury may result.
- Be especially careful not to let young children stand or sit on the projector.

If not using the projector for an extended period of time, disconnect the power cord plug from the wall outlet.
- If dust builds up on the power cord plug, the resulting humidity may damage the insulation, which could result in fire.

Disconnect the power cord plug from the wall outlet as a safety precaution before carrying out any cleaning.
- Electric shocks can result if this is not done.

If the lamp has broken, ventilate the room immediately. Do not touch or bring your face close to the broken pieces.
- Failure to observe this may cause the user to absorb the gas which was released when the lamp broke and which contains nearly the same amount of mercury as fluorescent lamps, and the broken pieces may cause injury.
- If you believe that you have absorbed the gas or that the gas has got into your eyes or mouth, seek medical advice immediately.
- Ask your dealer about the replacement of the lamp unit and check the inside of the projector.

Ask an Authorized Service Center to clean inside the projector at least once a year.
- If dust is left to build up inside the projector without being cleaned out, it can result in fire or problems with operation.
- It is a good idea to clean the inside of the projector before the season for humid weather arrives. Ask your nearest Authorized Service Center to clean the projector when required. Please discuss with the Authorized Service Center regarding cleaning costs.

We are constantly making efforts to preserve and maintain a clean environment. Please take non repairable units back to your dealer or a recycling company.
Before use

Accessories

Make sure the following accessories are provided with your projector.

<table>
<thead>
<tr>
<th>Remote control (N2QAYB000064 x 1)</th>
<th>AA batteries for Remote control (x 2)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Power cord for continental Europe (K2CG3FR00001 x 1)</td>
</tr>
</tbody>
</table>

Cautions when transporting

Do not subject the projector to excessive vibration or shocks.
- The projector lens need to be handled with care.
- Cover the lens with the lens cover when transporting the projector.

Cautions when installing

Avoid setting up in places which are subject to vibration or shocks.
- The internal parts can be damaged, which may cause malfunctions or accidents.

Avoid setting up in places which are subject to sudden temperature changes, such as near an air conditioner.
- The life of the lamp may be shortened or the projector may be turned off. See “TEMP indicator” on page 36.

Do not set up the projector near high-voltage power lines or near motors.
- The projector may be subject to electromagnetic interference.

If installing the projector to the ceiling, ask a qualified technician to carry out all installation work.
- You will need to purchase the separate installation kit (Model No. ET-PKX100). Furthermore, all installation work should only be carried out by a qualified technician.

If using this projector at high elevations (above 1,400 m), set the ALTITUDE to HIGH. See “ALTITUDE” on page 35.
- Failure to observe this may result in malfunctions or the life of the lamp or the other components may be shortened.
Before use

Cautions on use

In order to get the best picture quality
- Draw curtains or blinds over any windows and turn off any lights near the screen to prevent outside light or light from indoor lamps from shining onto the screen.

Do not touch the surfaces of the lens with your bare hands.
- If the surface of the lens becomes dirty from fingerprints or anything else, this will be magnified and projected onto the screen. Moreover, when not using the projector, cover it with the lens cover.

Screen
- Do not apply any volatile substances which may cause discoloration to the screen, and do not let it become dirty or damaged.

Lamp
- The lamp may need to be replaced earlier due to variables such as individual lamp characteristics, usage conditions and the installation environment, especially when the projector is subjected to continuous use for more than 10 hours or the power is frequently turned on and off.

Liquid crystal panel
- Do not project the same image for long periods of time, as this may remain as an afterimage on the liquid crystal panel.
- The liquid crystal panel of the projector is built with very high precision technology to provide fine picture details. Occasionally, a few stuck pixels may appear on the screen as fixed points of blue, green or red. Please note that this does not affect the performance of your LCD.
About Your Projector

Remote control

Front, back and top view

- **POWER**
  Turn the **POWER** on/off. (page 19)

- **PICTURE MODE**
  - **THEATER ROOM**
    Switch to the best setting for a darker room.
  - **LIVING ROOM**
    Switch to the best setting for a bright room.
  - **FAVORITE**
    Display the **FAVOURITE LOAD** menu. (page 23)

- **ASPECT**
  Switch to cycle through the aspect ratio. (page 23)

- **MENU**
  Display the **Main menu**.
  Return to the previous menu. (page 26)

- **DEFAULT**
  Reset some of the settings to the factory default settings. (page 23)

- **INPUT SELECT**
  Switch to cycle through the input method. (page 22)

- **Remote control signal emitter**
  - **LIGHT**
    Turn the button backlight of **Remote control** on/off. (page 23)
  - **COLOR MANAGEMENT**
    Display the **COLOR MANAGEMENT** menu. (page 24)
  - **PICTURE ADJUSTMENT**
    Display the **PICTURE** menu. (page 24)
  - **FREEZE**
    Capture the projected image and display it on a screen as a still picture. (page 22)
  - **SLEEP**
    Turn off the **POWER** automatically by setting the duration. (page 23)

- **Battery compartment**
  1. Press the tab and lift up the cover.
  2. Insert the batteries according to the polarity diagram indicated inside.

**NOTE:**
- Do not drop the **Remote control**.
- Avoid contact with liquids or moisture.
- Remove the batteries if not using the **Remote control** for a long period of time.
- Do not use rechargeable batteries.
- Do not keep pressing the **Remote control** buttons as this may shorten battery life.
## Projector

### Top and front view

- **POWER**: Illuminates or flashes to indicate the status of the projector. (page 19)
- **LAMP**: Illuminates or flashes to indicate the status of the lamp unit. (page 36)
- **TEMP**: Illuminates or flashes to indicate the temperature status of the lamp unit. (page 36)
- **INPUT SELECT**: Switch to cycle through the INPUT SELECT method options. (page 22)
- **MENU**: Display the menu on screen. Return to the previous menu in menu mode. (page 26)
- **Control panel**: Turn the outer ring to adjust the focus of the image. (page 21)
- **Focus ring**: Turn the inner ring to adjust the image size. (page 21)
- **Zoom ring**: Intake fresh air to control the temperature inside.
- **Air intake port**: Adjust the position of the projected image.
- **Shift lever**: 2.0 power zoom lens.
- **Projection lens**: Protects the Projection lens from dust or dirt.
- **Lens cover**: Remote control signal receptor
  - Receive a signal from the Remote control. (page 22)

### NOTE:
- Do not cover the ventilation openings or place anything within 10 cm (4") of them as this may cause damage or injury.
- While the projector is not in use, attach the **Lens cover** to protect the lens.
About Your Projector

**Back and bottom view**

- **Serial**
  - Connect an RS-232C compatible cable for controlling the projector remotely via your PC.

- **PC IN**
  - Connect an RGB signal cable from your PC.

- **Component IN**
  - Connect a YPbPr signal cable.

- **S-Video IN**
  - Connect a S-Video signal cable.

- **Video IN**
  - Connect an RCA composite video cable.

- **HDMI IN**
  - Connect an HDMI signal cable.

- **Connecting terminals**
  - Connect the Power cord to supply electronic power to the projector. (page 26)

- **AC IN**
  - Switch the projector on/off. (page 19)

- **MAIN POWER**
  - Intake fresh air to control the temperature inside.

- **Lamp unit component**
  - Houses the replaceable lamp unit. Contact the projector dealer or an authorized service center for replacement. (page 37)

- **Security lock**
  - Attach the commercial shackle lock, manufactured by Kensington, to protect your projector. Compatible with the Kesington MicroSaver Security System.

- **Front leg adjuster (L/R)**
  - Screw up/down to adjust the projection angle. (page 15)

**Note:**

- Do not cover the ventilation openings or place anything within 10 cm (4") of the vents as this may cause damage or injury.
- This projector should only be used with the attached Power cord to ensure optimum performance and avoid damage to the projector.
## Setting up

### Screen size and throw distance

You can adjust the projection size with a 2.0 power zoom lens. Calculate and define the throw distance as follows.

### Calculation methods for screen dimensions

You can calculate more detailed screen dimensions from the screen diagonal.

\[
\begin{align*}
SW &= SD \times 0.872 \\
SH &= SD \times 0.490 \\
LW &= 1.2244 \times SD - 0.056 \\
LT &= 2.4449 \times SD - 0.056
\end{align*}
\]

Unit: m

* The results above are approximate and may differ slightly from the actual measurements.

### NOTE:

- Do not use the projector at a raised or a horizontally tilted position as it may cause malfunction of the projector.
- Make sure the projector lens surface is parallel with the screen. You can tilt the projector body approximately ± 30 degrees vertically. Overtilting may result in shortening the component's life.
- For the best quality of the projection image, install a screen where sunlight or room light does not shine directly onto the screen. Close window shades or curtains to block the lights.

### Table: Projection size (16 : 9) and Throw distance (L)

<table>
<thead>
<tr>
<th>Diagonal length (SD)</th>
<th>Screen height (SH)</th>
<th>Screen width (SW)</th>
<th>Minimum distance (LW)</th>
<th>Maximum distance (LT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.01 m (40&quot;)</td>
<td>0.50 m (17&quot;)</td>
<td>0.89 m (2'11&quot;)</td>
<td>1.2 m (3'11&quot;)</td>
<td>2.4 m (7'10&quot;)</td>
</tr>
<tr>
<td>1.27 m (50&quot;)</td>
<td>0.62 m (2&quot;)</td>
<td>1.11 m (3'7&quot;)</td>
<td>1.5 m (4'11&quot;)</td>
<td>3.0 m (9'10&quot;)</td>
</tr>
<tr>
<td>1.52 m (60&quot;)</td>
<td>0.75 m (2'5&quot;)</td>
<td>1.33 m (4'4&quot;)</td>
<td>1.8 m (5'10&quot;)</td>
<td>3.7 m (12'1&quot;)</td>
</tr>
<tr>
<td>1.77 m (70&quot;)</td>
<td>0.87 m (2'10&quot;)</td>
<td>1.55 m (5'1&quot;)</td>
<td>2.1 m (6'10&quot;)</td>
<td>4.3 m (14'1&quot;)</td>
</tr>
<tr>
<td>2.03 m (80&quot;)</td>
<td>1.00 m (3'3&quot;)</td>
<td>1.77 m (5'9&quot;)</td>
<td>2.4 m (7'10&quot;)</td>
<td>4.9 m (16&quot;)</td>
</tr>
<tr>
<td>2.28 m (90&quot;)</td>
<td>1.12 m (3'8&quot;)</td>
<td>1.99 m (6'6&quot;)</td>
<td>2.7 m (8'10&quot;)</td>
<td>5.5 m (18&quot;)</td>
</tr>
<tr>
<td>2.54 m (100&quot;)</td>
<td>1.24 m (4&quot;)</td>
<td>2.21 m (7'3&quot;)</td>
<td>3.1 m (10'2&quot;)</td>
<td>6.2 m (20'4&quot;)</td>
</tr>
<tr>
<td>3.05 m (120&quot;)</td>
<td>1.49 m (4'10&quot;)</td>
<td>2.66 m (8'8&quot;)</td>
<td>3.7 m (12'1&quot;)</td>
<td>7.4 m (24'3&quot;)</td>
</tr>
<tr>
<td>3.81 m (150&quot;)</td>
<td>1.87 m (6'1&quot;)</td>
<td>3.32 m (10'10&quot;)</td>
<td>4.6 m (15'1&quot;)</td>
<td>9.3 m (30'6&quot;)</td>
</tr>
<tr>
<td>5.08 m (200&quot;)</td>
<td>2.49 m (8'2&quot;)</td>
<td>4.43 m (14'6&quot;)</td>
<td>6.2 m (20'4&quot;)</td>
<td>12.4 m (40'8&quot;)</td>
</tr>
</tbody>
</table>

* All measurements above are approximate and may differ slightly from the actual measurements.
Projection method

You can use the projector with any of the following 4 projection methods. To set the desired method in the projector, see “INSTALLATION” on page 35.

- Setting on a desk/floor and projecting from front
- Setting on a desk/floor and projecting from rear
- Mounting in the ceiling and projecting from front
- Mounting in the ceiling and projecting from rear

**NOTE:**
- A translucent screen is required for REAR projection.
- When mounting the projector in the ceiling, the optional ceiling mount bracket (ET-PKX100) is required.

Front leg adjuster and throwing angle

You can adjust the throwing angle by screwing the front legs up/down.

This adjust the angle of the projector.

**NOTE:**
- Heated air comes out of the Air exhaust port. Do not touch the Air exhaust port directly.
- If keystone distortion occurs, see “KEYSTONE” on page 33.
**Lens shift and positioning**

If the projector is not positioned right in front of the center of the screen, you can adjust the projected image position by moving the **Shift lever** within the shift range of the lens.

### Adjusting the Shift lever

1. Screw the **Shift lever** counterclockwise to unlock.
2. Move the **Shift lever** to adjust the projected image position.
3. Screw the **Shift lever** clockwise to lock.

#### Horizontal shift

You can place the projector where the projector lens is up to 25% horizontally off-center from the screen and then adjust the image position with the **Lens shift** feature.

#### Vertical shift

You can place the projector where the projector lens is up to 63% vertically off-center from the screen and then adjust the image position with the **Lens shift** feature.
Projector location range
You can determine where to locate the projector by considering the Lens shift possibilities. See “Positioning the image” on page 21 for available placement.

After fixing the screen position

The adjustable projection range

NOTE:
- When the projector is located right in front of the screen and the Shift lever is centered, you will get the best quality of the projection image.
- When the Shift lever is at the vertical limit of the shift range, you cannot move the lever to the horizontal limit, likewise when the Shift lever is at the horizontal limit of the shift range, you cannot move the lever to the horizontal limit.
- When the projector is tilting and you adjust KEYSTONE, the center of the screen and the lens need to be realigned.
- Do not attempt to pull hard the Shift lever while adjusting.
Connections

Before connection to the projector

- Read and follow the operating and connecting instructions of each peripheral device.
- The peripheral devices must be turned off.
- Use cables that match each peripheral device to be connected.
- Confirm the type of video signals. See “List of compatible signals” on page 41.
- Audio cables must be connected from each peripheral device directly to the audio reproduction system.

Connecting with AV devices

NOTE:
- Make sure the HDMI cable is adapted to your HDMI device for proper performance.
- A compatible cable is required for an HDMI 1080p signal.
- It is possible to connect with DVI devices via a HDMI/DVI conversion adapter, but some equipment may not project the image properly or other problems could be encountered. See “Serial terminal” on page 42.

Connecting with HDMI/PC

NOTE:
Switching the projector on/off

### Power cord
Ensure all the input devices are connected and turned off before connecting the **Power cord**.

#### Connecting
1. Make sure the shape of the power cord plug and the **AC IN** connector on the back of the projector match, then push the plug all the way in.
2. Connect the **Power cord** to a wall socket.

#### Disconnecting
1. Make sure the **MAIN POWER** is switched off and unplug the **Power cord** from the wall socket.
2. Hold the plug and unplug the **Power cord** from the **AC IN** connector on the back of the projector.

**NOTE:**
- Do not use any other **Power cord** than the one supplied with the projector.
- Do not force the connector as this may damage the projector and/or the power cord.
- Dirt or dust build-up around plugs may cause fire or electrical hazards.
- Switch off the power to the projector when not in use.

### POWER indicator

<table>
<thead>
<tr>
<th>Indicator status</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>No illumination or flashing</td>
<td>The <strong>MAIN POWER</strong> is switched off.</td>
</tr>
<tr>
<td>RED Lit</td>
<td>The <strong>MAIN POWER</strong> is switched on and the projector is standby.</td>
</tr>
<tr>
<td>GREEN Flashing Lit</td>
<td>The <strong>POWER</strong> is switched on and the projector is getting ready to project.</td>
</tr>
<tr>
<td>GREEN Lit</td>
<td>The projector is ready to project.</td>
</tr>
<tr>
<td>ORANGE Lit</td>
<td>The <strong>POWER</strong> is switched off and the projector is cooling the lamp.</td>
</tr>
<tr>
<td>ORANGE Flashing</td>
<td>The <strong>POWER</strong> is switched on again when cooling the lamp and recovering to projection mode. Recovery may take a while.</td>
</tr>
</tbody>
</table>

**NOTE:**
- While the projector is cooling the lamp, do not switch the **MAIN POWER** off or unplug the **Power cord**.
Switching the projector on/off

Switching on the projector

1. Switch the **MAIN POWER** on.
   - The power indicator lights up in **RED**.
2. Remove the **Lens cover** from the lens.
3. Press the **POWER** button.
   - The power indicator lights up in **GREEN** after flashing for a while.
   - The **STARTUP LOGO** is displayed on the screen.

**NOTE:**
- See page 34 about switching on/off the **STARTUP LOGO**.
- Some small rattling or tinkling sound may be heard when starting up, but this is normal and does not affect the performance of the projector.

Switching off the projector

1. Press the **POWER** button.
   - The confirmation screen is displayed.
   - To return to the projection, press **ENTER** to select **CANCEL** or press **MENU/RETURN**.
2. Press 🔽 to select **OK** and press **POWER** or **ENTER**.
   - The power indicator lights up in **ORANGE** while cooling the lamp, then illuminates **RED** when it is ready to switch off the **MAIN POWER**.
3. Switch off the **MAIN POWER** on the back of the projector.

**NOTE:**
- Press the **POWER** twice or for a long duration to switch the power.
Projecting an image

Selecting the input signal

1. Switch on the connected devices.
   - Press the play button of the required device.
2. Press the INPUT SELECT button to select the required input method if needed. See "Input switching" on page 22.
   - The image will be projected on the screen.

**NOTE:**
- AUTO SEARCH is ON as default and the signal from the connected devices is detected automatically. See "AUTO SEARCH" on page 34.

Positioning the image

1. Press ASPECT to select the required aspect mode. See "ASPECT" on page 32.
2. Adjust the projected image with the Shift lever. See "Lens shift and positioning" on page 16.
3. Adjust the angle of the projector.
   - Screw down the Front leg adjuster and adjust the angle vertically.
4. Adjust the focus and the projected image size.
   - Turn the Focus ring and Zoom ring to adjust the image.
   - You can confirm the result with TEST PATTERN.

**NOTE:**
- Do not touch the Air exhaust port as this may cause burns or injury.
- If keystone distortion occurs, see "KEYSTONE" on page 33.
Remote control operation

You can operate the projector with the Remote control within the remote range 7 m.

- **Facing to the projector**
  Ensure the Remote control emitter is facing to the Remote control signal receptor on front of the projector and press the required buttons to operate.

- **Facing to the screen**
  Ensure the Remote control emitter is facing to the screen and press the required buttons to operate the projector. The signal will be reflected off the screen. The operating range may differ due to the screen material.

**NOTE:**
- The Remote control may malfunction under strong light such as a fluorescent. Do not let strong light shine onto the signal receptor.
- If there are any obstacles in between the remote control unit and the receptor, the Remote control may not operate correctly.

---

**Input switching**

You can switch the input method manually by pressing the INPUT SELECT button. Press the button several times or press ▲ ▼ to cycle through the input methods as follows. The actual projected image will be changed in a while.

<table>
<thead>
<tr>
<th>COMPONENT IN</th>
<th>S-VIDEO IN</th>
</tr>
</thead>
<tbody>
<tr>
<td>▲ ▼</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COMPONENT IN</th>
<th>Connected to COMPONENT IN terminal equipment’s signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-VIDEO IN</td>
<td>Connected to S-VIDEO IN terminal equipment’s signal</td>
</tr>
<tr>
<td>VIDEO IN</td>
<td>Connected to VIDEO IN terminal equipment’s signal</td>
</tr>
<tr>
<td>HDMI IN</td>
<td>Connected to HDMI terminal equipment’s signal</td>
</tr>
<tr>
<td>PC IN</td>
<td>Connected to PC IN terminal equipment’s signal</td>
</tr>
</tbody>
</table>

Graphical guidance will be displayed on the upper right of the display and you can confirm the selected input method which is highlighted in yellow. See "INPUT GUIDE" on page 34.

**NOTE:**
- If you select an unplugged input method, the guidance will blink on and off several times.
- See "List of compatible signals" on page 41.
- See "Connecting terminals" on page 13.

---

**Capturing an image**

When projecting an image, press FREEZE to capture the projected image and display it on the screen as a still picture. Press again to escape.

**NOTE:**
- Escaping from the freeze mode is available by pressing any button except the LIGHT button.
Switching the aspect ratio

The aspect ratio is selected automatically, or you can switch it manually by pressing the ASPECT button. Press the button several times to cycle through the different aspect type as follows. See "ASPECT" on page 32.

<table>
<thead>
<tr>
<th>VIDEO/S-VIDEO/COMPONENT (YPbPr)</th>
<th>4:3</th>
<th>16:9</th>
<th>14:9</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC (RGB)</td>
<td>4:3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDMI</td>
<td>4:3</td>
<td>16:9</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:**
- If you project an image with an unmatched aspect ratio, the image may distort or some portions may be cropped. Select an aspect ratio which preserves the intention of the image creator.
- The order of ASPECT types is defined not only by the input method but also by the input signals. See "List of compatible signals" on page 41.
- If you project a copyrighted image enlarged or distorted by using ASPECT function in commercial use in a public place, such as a restaurant or hotel, you might infringe on the copyright of the creator which is protected by copyright law.

Resetting to the factory default settings

You can reset most of the customized settings to the factory defaults by pressing DEFAULT button of the Remote control. Display the required sub menu or the menu items and press the button again.

**NOTE:**
- Some menu items are not available to reset by pressing the DEFAULT button. Adjust each menu items manually.

Turning on the button backlight

In a dark room, you can turn on the button backlight to operate the Remote control. Press the button on the upper right corner of the unit to turn on the backlight and enter the light-on mode. After 5 seconds without any operation, the backlight is faded, and it will go out after another 5 seconds. Press any but LIGHT to turn on again. To escape from the light-on mode, press the LIGHT button.

Switching the picture mode

You can switch the preset settings by pressing the THEATER ROOM, LIVING ROOM and FAVORITE buttons. See "PICTURE MODE" on page 28.

Switching off the projector automatically

You can switch off the POWER automatically by setting the SLEEP feature. Press the SLEEP button several times to cycle through the duration of time. See "SLEEP" on page 35.

- OFF
- 60MIN.
- 90MIN.
- 120MIN.
- 180MIN.
- 210MIN.
- 240MIN.

Display the FAVOURITE LOAD menu. See "FAVOURITE LOAD" on page 30.
Remote control operation

Adjusting the image

You can display one of the PICTURE or ADVANCED menu items by pressing the PICTURE ADJUSTMENT button. Press the button to switch between PICTURE and ADVANCED menu. Press ▲ ▼ to select the required menu item and ◀ ◁ to adjust.

- **PICTURE menu items**
  - PICTURE MODE, CONTRAST, BRIGHTNESS, COLOR, TINT, SHARPNESS, COLOR TEMPERATURE and DYNAMIC IRIS

- **ADVANCED menu items**
  - GAMMA, CONTRAST, BRIGHTNESS, COLOR MANAGEMENT, NR, MPEG NR, CINEMA REALITY and TV-SYSTEM

**NOTE:**
- For each menu items description, see “Menu Navigation” on page 26.
- The screen will be cleared after 7 seconds without any operation.

Setting your own color profile

You can adjust a selected color individually and save and retrieve under the PICTURE MODE setting. Press the COLOR MANAGEMENT button to open the menu.

<table>
<thead>
<tr>
<th>PROFILE</th>
<th>NORMAL</th>
<th>CURSOR</th>
<th>LOG</th>
<th>PROFILE SAVE</th>
</tr>
</thead>
</table>

Create a new profile

- **Adjusting the selected color**
  - Select a color and adjust COLOR, TINT and BRIGHTNESS.
  1. Select the CURSOR menu and press ENTER.
     - The projected image is captured, and the target cursor is displayed.
     - When the LOG is fully stored, the target cursor will not be displayed. See "Managing stored logs" on page 25.

2. Move the cursor with ▲ ▼ ◀ ◁ and ◁ to the required place to select a color and press ENTER.
   - The color at the center of the target cursor is sampled and the sample box is displayed on the left of the cursor. The menu items are displayed on the upper part of the screen.

3. Select a menu item and the ◀ ◁ to adjust each item level.
   - The result box is displayed on the right of the cursor and shows the adjusted color.
4. Press ENTER to store the adjusted result.
   • “PROCESSING” is displayed for a few seconds and the result is stored in LOG.
   • You can store up to 8 logs under LOG for each PICTURE MODE setting.
5. Press MENU or RETURN to return to the previous menu.
   • Repeat the steps above to store more adjustment.

Managing stored logs
You can edit or delete the stored logs of the selected PICTURE MODE.
1. Select LOG and press ENTER.
   • The LOG menu is displayed.
2. Select the required log from 1 - 8 or ALL DELETE, and press ENTER.
   • Select CHANGE to edit the log.
   • The cursor menu is displayed and you can readjust the color.
   • Select DELETE to delete the log.
   • The confirmation screen will be displayed. Select OK to delete.
   • When you select ALL DELETE, the "DELETE ALL LOG." screen is displayed. Select OK to delete all logs. The PROFILE setting will be set to NORMAL.

Saving a log setting as a profile
Return to the COLOR MANAGEMENT menu and save the stored log as a profile. Make sure that the PICTURE MODE is not switched.

1. Select the PROFILE SAVE menu and press ENTER
   • The PROFILE SAVE menu is displayed. You can save the profile as USER1, USER2 and USER3.

2. Press ENTER to save the profile
   • The confirmation screen is displayed. Press ENTER again to save.

Loading saved profiles
When profiles are loaded under the PICTURE MODE setting, you can keep them as you defined until the PROFILE is set to NORMAL.
1. Select the required PICTURE MODE and press ENTER.
2. Press the COLOR MANAGEMENT button and select the PROFILE menu.
   • The profile settings of the selected PICTURE MODE will be displayed.
3. Select the required profile and press ENTER.

NOTE:
• LOG and PROFILE SAVE are not displayed before you apply COLOR MANAGEMENT.
• If you load a profile with a different attribute mode of the profile, the CURSOR and PROFILE SAVE menus will not be displayed.
• The approximate colors will be adjusted at the same time. If you adjust the exact same color differently, both colors will affect each other and you might get unexpected results.
• White, Black and Grey are not adjustable.
• If you escape the COLOR MANAGEMENT menu or attempt to perform another menu action before you save the adjusted profile, the confirmation screen will be displayed.
• If you switch the input signal before you save the profile, the setting will be cancelled without notice.
Menu Navigation

The menu system allows you to access functions which do not have their own dedicated buttons on the Remote control. The menu options are structured and categorized. You can navigate through the menu with ▲ ▼ ▶ ▷ buttons.

Navigating through the MENU

Displaying the Main menu
Press MENU button to display the Main menu and the operating guidance.

Operating procedure

1. Press ▲ ▼ to scroll to the required Main menu item and press ENTER to select.
   - The selected item is highlighted in orange and the Sub-menu is displayed on the right. See “Sub-menu” on page 27.

2. Press ▲ ▼ to scroll to the required Sub-menu item and press ◄ ► or ENTER to adjust.
   - The selected item is called up and the other menu items disappear from the screen.
   - If there is a lower level, the next level will be displayed.

3. Press ◄ ► to adjust or set the selected item.
   - For items using a bar scale, the current settings are displayed on the left of the bar scale.
   - You can cycle through the options of an item by pressing ◄ ►.

4. Press MENU or RETURN to return to the previous menu.
   - To continue projection, press the button repeatedly until the menu disappears.

About the bar scale items
The triangle mark under the bar indicates factory default setting and the square indicates the current setting.

Main menu
The Main menu has 4 options. Select the required option and press ENTER to display the Sub-menu.
Sub-menu

Sub-menu items vary by the selected input signal.

### PICTURE menu
See “PICTURE Menu” on page 28.

<table>
<thead>
<tr>
<th>Sub-menu items</th>
<th>Default setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>PICTURE MODE</td>
<td>NORMAL</td>
</tr>
<tr>
<td>CONTRAST</td>
<td>0</td>
</tr>
<tr>
<td>BRIGHTNESS</td>
<td>0</td>
</tr>
<tr>
<td>COLOR</td>
<td>0</td>
</tr>
<tr>
<td>TINT</td>
<td>0</td>
</tr>
<tr>
<td>SHARPNESS</td>
<td>0</td>
</tr>
<tr>
<td>COLOR TEMPERATURE</td>
<td>0</td>
</tr>
<tr>
<td>DYNAMIC IRIS</td>
<td>ON</td>
</tr>
<tr>
<td>LIGHT HARMONIZER</td>
<td>AUTO</td>
</tr>
</tbody>
</table>

**ADVANCED MENU**

**FAVOURITE SAVE**

**FAVOURITE LOAD**

**SIGNAL MODE**

1. The default settings vary by the selected PICTURE MODE.

2. PC/COMPONENT/HDMI signals only

### POSITION menu
See “POSITION Menu” on page 31.

<table>
<thead>
<tr>
<th>Sub-menu items</th>
<th>Default setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>V - POSITION</td>
<td>0</td>
</tr>
<tr>
<td>H - POSITION</td>
<td>0</td>
</tr>
<tr>
<td>DOT CLOCK</td>
<td>0</td>
</tr>
<tr>
<td>CLOCK PHASE</td>
<td>0</td>
</tr>
<tr>
<td>ASPECT</td>
<td>AUTO</td>
</tr>
<tr>
<td>WSS</td>
<td>ON</td>
</tr>
<tr>
<td>OVER SCAN</td>
<td>+7</td>
</tr>
<tr>
<td>KEYSTONE</td>
<td>ON</td>
</tr>
<tr>
<td>AUTO SETUP</td>
<td></td>
</tr>
</tbody>
</table>

1. PC signal only

2. COMPONENT/PC signals only

3. 16:9 for PC or HDMI signals

4. VIDEO/S-VIDEO/COMPONENT signals only

5. PC signal only

### LANGUAGE menu
Select the required language option.

<table>
<thead>
<tr>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEUTSCH</td>
</tr>
<tr>
<td>FRANÇAIS</td>
</tr>
<tr>
<td>ESPAÑOL</td>
</tr>
<tr>
<td>ITALIANO</td>
</tr>
<tr>
<td>PORTUGUÊS</td>
</tr>
<tr>
<td>SVENSKA</td>
</tr>
<tr>
<td>NORSK</td>
</tr>
<tr>
<td>DANSK</td>
</tr>
<tr>
<td>POLŠKI</td>
</tr>
<tr>
<td>ČEŠTINA</td>
</tr>
<tr>
<td>MAGYAR</td>
</tr>
<tr>
<td>РУССКИЙ</td>
</tr>
<tr>
<td>한국어</td>
</tr>
<tr>
<td>ENGLISH</td>
</tr>
<tr>
<td>中文</td>
</tr>
</tbody>
</table>

### OPTION menu
See “OPTION Menu” on page 34.

<table>
<thead>
<tr>
<th>Sub-menu items</th>
<th>Default setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>INPUT GUIDE</td>
<td>DETAILED</td>
</tr>
<tr>
<td>OSD DESIGN</td>
<td>TYPE1</td>
</tr>
<tr>
<td>OSD POSITION</td>
<td>CENTRE</td>
</tr>
<tr>
<td>BACK COLOR</td>
<td>BLUE</td>
</tr>
<tr>
<td>STARTUP LOGO</td>
<td>ON</td>
</tr>
<tr>
<td>AUTO SEARCH</td>
<td>ON</td>
</tr>
<tr>
<td>INSTALLATION</td>
<td>FRONT/DESK</td>
</tr>
<tr>
<td>SLEEP</td>
<td>OFF</td>
</tr>
<tr>
<td>ALTITUDE</td>
<td>LOW</td>
</tr>
<tr>
<td>LAMP POWER</td>
<td>NORMAL</td>
</tr>
<tr>
<td>LAMP RUNTIME</td>
<td></td>
</tr>
</tbody>
</table>

**TEST PATTERN**
**PICTURE Menu**

Depending on the projection environment, you can use these preset parameter settings to optimise image projection. Press 

![](remote_control.png)

\( ightarrow \) to cycle through the options.

### Reproducing color of an sRGB image

For reproducing the original color of S-VIDEO images precisely, set as follows.

1. Press PICTURE ADJUSTMENT and select NATURAL.
2. Press DEFAULT to reset the other Sub-menu menu items.
3. Press RETURN once to return to the Main menu and select OPTION.
4. Switch the LAMP POWER to NORMAL.

**NOTE:**
- It may take for a while until the selected mode is stabilized.

## PICTURE MODE

Depending on the projection environment, you can use these preset parameter settings to optimise image projection. Press 

![](remote_control.png)

\( ightarrow \) to cycle through the options.

### FOR A BRIGHT ROOM

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NORMAL</td>
<td>Setting for a general image, such as sports or games</td>
</tr>
<tr>
<td>DYNAMIC</td>
<td>Bright and sharp setting</td>
</tr>
<tr>
<td>VIVID</td>
<td>Vivid and crisp color setting</td>
</tr>
</tbody>
</table>

### FOR A DARK ROOM

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINEMA1</td>
<td>Hollywood style colors</td>
</tr>
<tr>
<td>CINEMA2</td>
<td>Deeper and more rich color setting</td>
</tr>
<tr>
<td>VIDEO</td>
<td>Setting for active images, such as music or concert</td>
</tr>
<tr>
<td>NATURAL</td>
<td>Reproduces the original color of the image</td>
</tr>
</tbody>
</table>

- See “Navigating through the MENU” on page 26.

## CONTRAST

You can adjust the contrast of the projected image. Adjust the BRIGHTNESS in advance if necessary.

Lower (\( \downarrow \)) - Higher (\( \rightarrow \))

- Setting range: -32 to +32

## BRIGHTNESS

You can adjust the brightness of the projected image.

Darker (\( \downarrow \)) - Brighter (\( \rightarrow \))

- Setting range: -32 to +32

## COLOR

You can adjust the color saturation of the projected image.

Lighter (\( \downarrow \)) - Darker (\( \rightarrow \))

- Setting range: -32 to +32
- When PC is connected, this function is available with
  - 125 (1080)/60i, 125 (1080)/50i,
  - 125 (1080)/60p and 125 (1080)/50p signals only.
PICTURE Menu

TINT
You can adjust the skin tone in the projected image.

More reddish More greenish

- Setting range: -32 to +32
- When PC is connected, this function is available with 1 125 (1 080)/60i, 1 125 (1 080)/50i, 1 125 (1 080)/60p and 1 125 (1 080)/50p signals only.

SHARPNESS
You can adjust the sharpness of the projected image.

Less sharp More sharp

- Setting range is vary according to the selected input signal

COLOR TEMPERATURE
You can adjust the white balance of the projected image.

Less bluish Less reddish

- Setting range: -6 to +6

DYNAMIC IRIS
You can switch automatic adjustment of the lamp and the lens iris on/off.

- ON: Automatic adjustment
- OFF: No adjustment

LIGHT HARMONIZER
LUMINANCE SENSOR detects the brightness of the room and keeps the luminance in balance automatically. If needed, you can switch on/off this function or adjust it manually. Press  to cycle through the options.

- OFF: No adjustment
- AUTO: Automatic adjustment
- MANUAL: Manual adjustment (0 - +8)

NOTE:
- To assure correct performance of the LIGHT HARMONIZER, do not interrupt the light onto the LUMINANCE SENSOR.

ADVANCED MENU
From the ADVANCED MENU, you can perform more detailed image adjustment manually.

- GAMMA
You can adjust linear intensity at 3 levels. Press  to increase/decrease.

<table>
<thead>
<tr>
<th>Levels</th>
<th>Default setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>GAMMA HIGH</td>
<td>0</td>
</tr>
<tr>
<td>GAMMA MID</td>
<td>0</td>
</tr>
<tr>
<td>GAMMA LOW</td>
<td>0</td>
</tr>
</tbody>
</table>

- Setting range: -8 to +8

- CONTRAST
You can adjust the amount of contrast in RGB colors individually. Press  to increase/decrease.

<table>
<thead>
<tr>
<th>RGB</th>
<th>Default setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONTRAST R</td>
<td>0</td>
</tr>
<tr>
<td>CONTRAST G</td>
<td>0</td>
</tr>
<tr>
<td>CONTRAST B</td>
<td>0</td>
</tr>
</tbody>
</table>

- Setting range: -16 to +16

- BRIGHTNESS
You can adjust the brightness in RGB colors individually. Press  to increase/decrease.

<table>
<thead>
<tr>
<th>RGB</th>
<th>Default setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRIGHTNESS R</td>
<td>0</td>
</tr>
<tr>
<td>BRIGHTNESS G</td>
<td>0</td>
</tr>
<tr>
<td>BRIGHTNESS B</td>
<td>0</td>
</tr>
</tbody>
</table>

- Setting range: -16 to +16

- COLOR MANAGEMENT
You can manage your own defined color settings. See “Setting your own color profile” on page 24.
NR (Noise Reduction)
You can switch the automatic noise reduction system on/off. Press \(\uparrow\uparrow\) to select the required setting.
- **ON**: Automatic noise reduction
- **OFF**: No noise reduction

**NOTE:**
- Applying noise reduction may affect image quality.

MPEG NR
You can switch the automatic noise reduction system for MPEG format images on/off. The system minimizes block noise and mosquito noise to eliminate jagged edges, providing an overall smoother image. Press \(\uparrow\uparrow\) to select the required setting.
- **ON**: Active
- **OFF**: Deactive

**NOTE:**
- MPEG NR is for MPEG images only.
- MPEG NR is not available with PC and HDMI (VGA480) signals.

CINEMA REALITY
You can switch the automatic image synchronizer on/off for 24 frames a second images, such as movies. Press \(\uparrow\uparrow\) to select the required setting.
- **ON**: Active
- **OFF**: Deactive

**NOTE:**
- S-VIDEO, VIDEO, PC, COMPONENT available signals are 525i (480i), 625i (576i),
  125 (1 080)/50i, 1 125 (1 080)/60i, 1 125 (1 080)/50p and 1 125 (1 080)/60p, while
  HDMI available signals are 1 125 (1 080)/60i, 1 125 (1 080)/50p and 1 125 (1 080)/60p
- If the CINEMA REALITY is different from the required setting of the image, select OFF.

TV-SYSTEM
When the video signal is changed, the setting switches automatically.
You can switch the setting manually to match the video data. Press \(\uparrow\uparrow\) to cycle through the options.

FAVOURITE SAVE
You can save the adjusted PICTURE settings with up to 3 in each of 2 signal groups.
1. Adjust the different items of the PICTURE menu.
2. Select FAVOURITE SAVE and press ENTER.
3. Select FAVOURITE 1, FAVOURITE 2 or FAVOURITE 3 to save and press ENTER.
   - The confirmation screen is displayed.
4. Select OK and press ENTER.
   - To cancel, select CANCEL and press ENTER, or press the RETURN button.

FAVOURITE LOAD
You can access saved FAVOURITE settings instantly.
1. Select the required setting from FAVOURITE 1, FAVOURITE 2 or FAVOURITE 3.
   - Undefined setting will not be displayed.
2. Press ENTER to activate the selected setting.

**NOTE:**
- If you have not saved any settings, FAVOURITE 1, FAVOURITE 2 and FAVOURITE 3 are not displayed.

SIGNAL MODE
The current selected signal is displayed when PC/COMPONENT/HDMI equipment is connected.

**NOTE:**
- See “List of compatible signals” on page 41.
POSITION Menu

You can move the projected image horizontally for fine adjustment.

Move left  Move right

You can move the projected image vertically for fine adjustment.

Move down  Move up

DOT CLOCK

If you have interference patterns on the projected image, which is sometimes referred to as moire or noise, you can minimize it by pressing ➤➤ to adjust the clock frequency.

NOTE:
- If the projecting signal's dot clock frequency is higher than 150 MHz, the adjustment may not make a difference.

CLOCK PHASE

If you require further adjustment for the same reason as the DOT CLOCK adjustment, you can fine adjust the timing of the clock. Press ➤➤ to adjust.

NOTE:
- If the projecting signal's dot clock frequency is higher than 150 MHz, the adjustment may not make a difference.
- CLOCK PHASE is not available with
  - 1125 (1080)/50i, 1125 (1080)/60i,
  - 1125 (1080)/50p, 1125 (1080)/60p,
  - 1125 (1080)/24p, 750 (720)/50p and
  - 750 (720)/60p signals using the COMPONENT connection.
### ASPECT

You can switch the aspect ratio manually when needed.

#### Aspect ratio options and projection example

If you apply the aspect ratio options to the projected image, the result will be as follows. The result may differ due to the input signals. See “Switching the aspect ratio” on page 23.

#### VIDEO/S-VIDEO/COMPONENT

Not available with 1 125 (1 080)/50i, 1 125 (1 080)/60i, 1 125 (1 080)/50p, 1 125 (1 080)/60p, 1 125 (1 080)/24p, 750 (720)/50p and 750 (720)/60p signals.

<table>
<thead>
<tr>
<th>Original size</th>
<th>4:3</th>
<th>Squeeze signal</th>
<th>16:9 Letter box</th>
<th>14:9 Letter Box</th>
<th>2.35:1 Cinescope</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16:9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>JUST</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ZOOM/ZOOM1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ZOOM2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14:9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### COMPONENT signals

Available with 1 125 (1 080)/50i, 1 125 (1 080)/60i, 1 125 (1 080)/50p, 1 125 (1 080)/60p, 1 125 (1 080)/24p, 750 (720)/50p and 750 (720)/60p signals.

<table>
<thead>
<tr>
<th>Original Size</th>
<th>4:3</th>
<th>16:9</th>
<th>Cinescope</th>
</tr>
</thead>
<tbody>
<tr>
<td>H - FIT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>V - FIT</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

V SCROLL: Escape and press ▲ ▼ to scroll the image of PC signals to adjust the edge vertically.
**Aspect ratio depend on signals**

Press ◀ ▶ to cycle through the aspect ratio options. The cycle pattern depends on the connected signals.

**VIDEO/S-VIDEO**
- 4:3 ➔ 16:9 ➔ 14:9 ➔ JUST ➔ ZOOM1 ➔ ZOOM2
- AUTO ➔ 4:3 ➔ 16:9 ➔ JUST ➔ ZOOM
- NTSC signal

**PC (RGB)**
- 4:3 ➔ 16:9 ➔ V SCROLL
- 4:3 ➔ 16:9
- VGA or SVGA signals
- V SCROLL only
- WIDE768
- Not switchable
- WIDE480/600/720/768-2 signals

**HDMI**
- 4:3 ➔ 16:9
- 16:9 ➔ H - FIT ➔ V - FIT ➔ ZOOM
  - 1 125 (1 080)/50i, 1 125 (1 080)/60i,
  - 1 125 (1 080)/50p, 1 125 (1 080)/60p,
  - 1 125 (1 080)/24p, 750 (720)/50p and
  - 750 (720)/60p signals
- 4:3 ➔ 16:9 ➔ JUST ➔ ZOOM
- 525p (480p) and 625p (576p) signals

**YPbPr**
- 4:3 ➔ 16:9 ➔ 14:9 ➔ JUST ➔ ZOOM1 ➔ ZOOM2
- 625i (576i), 625p (576p)
- AUTO ➔ 4:3 ➔ 16:9 ➔ JUST ➔ ZOOM
- 525i (480i), 525p (480p)
- 16:9 ➔ H - FIT ➔ V - FIT
- 1 125 (1 080)/50i, 1 125 (1 080)/60i,
- 1 125 (1 080)/50p, 1 125 (1 080)/60p,
- 1 125 (1 080)/24p, 750 (720)/50p,
- 750 (720)/60p signals

**WSS**
If a PAL/625p (576p)/625i (576i) signal is input and that signal has an identification signal, the aspect ratio is automatically switched to the required setting. You can switch the system off manually.

**OVER SCAN**
If the 4 edges of an image is partly dropped, you can use this function to adjust and project it properly.

**KEystone**
If the projector is aligned non-perpendicularly to the screen, or if the projection screen has an angled surface, you can vertically correct keystone.

<table>
<thead>
<tr>
<th>Image</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Keystone Image" /></td>
<td><img src="image2" alt="Keystone Operation" /></td>
</tr>
</tbody>
</table>

- Setting range: -32 to 32

**AUTO SETUP**
You can adjust V - POSITION, H - POSITION, DOT CLOCK and CLOCK PHASE automatically when connecting via PC. Press ENTER to adjust these at the same time.

**NOTE:**
- You can correct the distortion ± 30 degrees from the vertical plane. For a better quality image, installing the projector with a minimum of distortion is recommended.
- Some distortion may be retained for Lens shift adjustment.
- The distortion of the Main menu screen is not correctable.
- The result of the keystone correction will affect on the aspect ratio and the size of the image.

**OVER SCAN**
If the 4 edges of an image is partly dropped, you can use this function to adjust and project it properly.

- Shrink
- Enlarge

- Setting range: 0 to +10
- OVER SCAN is not available with PC signals.
OPTION Menu

INPUT GUIDE
When you press INPUT or the INPUT SELECT button to change the input method, the guidance is indicated in the upper right corner of the screen. The following display methods are available. Press ◄► to cycle through the options.

<table>
<thead>
<tr>
<th>Options</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Turn off the guidance.</td>
</tr>
<tr>
<td>SIMPLE</td>
<td>Display the input method by text. The INPUT GUIDE will go out after 5 seconds without any operation.</td>
</tr>
<tr>
<td>DETAILED</td>
<td>Display the input method by graphic. The INPUT GUIDE will go out after 10 seconds without any operation.</td>
</tr>
</tbody>
</table>

OSD DESIGN
You can change the background color of the menu. Press ◄► to cycle through the options.

<table>
<thead>
<tr>
<th>Options</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE1</td>
<td>Semi transparent black</td>
</tr>
<tr>
<td>TYPE2</td>
<td>Solid blue</td>
</tr>
<tr>
<td>TYPE3</td>
<td>Semi transparent dark blue</td>
</tr>
</tbody>
</table>

OSD POSITION
You can change the position where to display the menu. Press ◄► to cycle through the options.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>UPPER LEFT</td>
<td>UPPER CENTRE</td>
<td>UPPER RIGHT</td>
</tr>
<tr>
<td>CENTRE</td>
<td>LOWER LEFT</td>
<td>LOWER CENTRE</td>
</tr>
<tr>
<td>LOWER RIGHT</td>
<td>LOWER CENTRE</td>
<td>LOWER RIGHT</td>
</tr>
</tbody>
</table>

BACK COLOR
You can choose a BLUE or BLACK screen for when the projector is idle. Press ◄► to select an option.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ON: Active</td>
<td>OFF: Deactive</td>
</tr>
</tbody>
</table>

STARTUP LOGO
You can switch on/off the logo that is displayed when starting up. Press ◄► to select an option.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ON: Active</td>
<td>OFF: Deactive</td>
</tr>
</tbody>
</table>

AUTO SEARCH
When the projector is turned on, the input terminals are detected and an input signal is selected automatically. You can switch on/off the system. Press ◄► to select an option.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ON: Active</td>
<td>OFF: Deactive</td>
</tr>
</tbody>
</table>

NOTE: When no signal is detected, the last used input method will be selected.

HDMI SIGNAL LEVEL
You can switch the HDMI signal level NORMAL or EXPAND when an HDMI (RGB) signal selected. Press ◄► to select an option.
**INSTALLATION**
When installing the projector, select the projection method according to the projector position. Press \( \downarrow \uparrow \) to cycle through the options. See “Projection method” on page 15.

<table>
<thead>
<tr>
<th>FRONT/DESK</th>
<th>Setting on a desk/floor and projecting from front</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRONT/CEILING</td>
<td>Mounting in the ceiling and projecting from front</td>
</tr>
<tr>
<td>REAR/DESK</td>
<td>Setting on a desk/floor and projecting from rear</td>
</tr>
<tr>
<td>REAR/CEILING</td>
<td>Mounting in the ceiling and projecting from rear</td>
</tr>
</tbody>
</table>

**SLEEP**
You can select the required duration of time and set the off timer to turn off the POWER of the projector automatically. 3 minutes before turn-off, the countdown of minutes will be displayed in the lower right corner. Press \( \downarrow \uparrow \) to cycle through the options. See “Switching off the projector automatically” on page 23.

**ALTITUDE**
If you use the projector at high elevations, set the fan speed to HIGH. Press \( \downarrow \uparrow \) to select HIGH or LOW.

**NOTE:**
- At 1 400 m (4593 ft) above sea level, the setting must be HIGH.

**LAMP POWER**
You can adjust the power of the lamp to save on electricity, prolong the lamp life and reduce the noise.

<table>
<thead>
<tr>
<th>Options</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>NORMAL</td>
<td>When higher luminance is required such as movies</td>
</tr>
<tr>
<td>ECO - MODE</td>
<td>When lower luminance is sufficient such as in a small room</td>
</tr>
</tbody>
</table>

**NOTE:**
- When no input signal is detected, the function is disabled.

**LAMP RUNTIME**
You can check how long time has been the lamp used.

**NOTE:**
- LAMP RUNTIME is a relevant matter for lamp replacement timing. See “Care and Replacement” on page 37.

**TEST PATTERN**
You can use the 2 different of test pattern to adjust the focus of the image. The PICTURE MODE is switched to DYNAMIC temporarily, and return to the last used setting when return to projection.

1. Press ENTER to display test pattern 1 and adjust the focus with the Focus ring.

2. Press ENTER to display test pattern 2 and adjust the focus with the Focus ring again.

3. Press MENU or RETURN to return to the previous menu, or press repeatedly to return to the screen.

**NOTE:**
- While a test pattern is displayed, the PICTURE MODE is changed temporarily to DYNAMIC.
- When the projector and/or the screen is tilted, adjust the focus at the center of the image. The upper and lower edge might be out of focus.
- When the image is distorted in keystone, adjust the KEYSTONE in POSITION menu.
TEMP and LAMP Indicators

Controlling alerts

If a problem should occur with the projector, the TEMP and/or LAMP indicators will alert you. Respond to the alert as follows.

1. Confirm the POWER indicator status and turn off the projector in the proper way.
2. Find out the cause of the problem.
3. Follow the instructions for each indication below and solve the problem.
4. Turn on the projector in the correct way and confirm the indicator is not indicating a problem any longer.

NOTE:
● If no problem is found or the problem remains, do not turn on the projector. Instead contact an Authorized Service Center.

LAMP indicator
TEMP indicator

■ TEMP indicator

| Indicator and projector | ● Illuminating RED and still projecting  
|                        | ● Flashing RED and POWER is turned off |
| Problem                | The temperature inside and/or outside the projector is abnormally high. |
| Cause                  | The ventilation ports are covered.  
|                        | The room temperature is too high.  
|                        | The Air filter is excessively dirty and the ventilation is poor. |
| Remedy                 | Remove the object(s) from the ventilation ports or clear around the projector.  
|                        | Reinstall the projector at a temperature controlled place. See “Setting up” on page 14.  
|                        | Clean or replace the Air filter in the proper way. See “Cleaning the Air filter” on page 37. |

■ LAMP indicator

| Indicator | ● Illuminating RED  
|           | ● Flashing RED |
| Problem   | LAMP RUNTIME has reached 1 800 hours (with LAMP POWER set to NORMAL).  
| Cause     | Lamp unit will run out soon and needs to be replaced.  
| Remedy    | Replace the Lamp unit. See “Before replacing the Lamp unit” on page 38.  
|           | ● Let the LAMP cool down and turn on the projector.  
|           | ● If the POWER does not turn on, contact an Authorized Service Center. |
Care and Replacement

Before cleaning

- Ensure the projector is switched off.
- Unplug all the cables from the projector.

Cleaning your projector

- **Cleaning the outer surface of the projector**
  Wipe off dirt and dust gently with a soft cloth.
  - If it is difficult to remove the dirt, soak a cloth in a neutral detergent diluted with water, wring the cloth well and then wipe the projector. Dry off the projector with dry cloth.
  - If you use a chemical treated wipe, follow the instructions supplied with it.

- **Cleaning the lens surface**
  Wipe off dirt and dust gently with a lint-free cloth.
  - Make sure no dirt or dust remains on the surface of the lens. It will be enlarged and projected onto a screen.

- **Cleaning the Air filter**
  If the Air filter is excessively dirty, the internal temperature of the projector increases and may cause malfunction. Clean the Air filter regularly every 100 hours of usage.
  1. Turn the projector upside down and place it gently on a soft cloth.
  2. Press the tab and slightly slide up the Air filter to remove.
  3. Vacuum dirt and dust from the Air filter.
  - Do not wash the Air filter.
  4. Place and slightly slide in the Air filter in the Air intake port to attach.
  - Make sure the Air filter clicks into the place.

**NOTE:**
- Do not use the projector without attaching the Air filter.

- **Replacing the Air filter**
  The Air filter should be replaced when cleaning is ineffective and when replacing the Lamp unit. An replacement Air filter is provided with a replacement lamp unit, ET - LAX100. Contact an Authorized Service Center for the optional Air filter.
Care and Replacement

Before replacing the Lamp unit

- Ensure the projector is switched off.
- Unplug all the cables from the projector.
- Prepare a Phillips-head screwdriver.
- Contact an Authorized Service Center to purchase a replacement Lamp unit (ET-LAX100).

**NOTE:**
- Prior to replacing the lamp unit, allow it to cool down to prevent the risk of burns, damage and other hazards.
- Do not attempt replacement with an unauthorized lamp unit.

When to replace the Lamp unit

The Lamp unit is consumable and the brightness decreases by duration of usage. The LAMP indicator will alert you of the replacement timing at 1,800 hours, and at 2,000 hours, the projector will be turned off. 1,800 or 2,000 hours is a rough guidance and might be shortened by the usage conditions, characteristics of the lamp unit, environmental conditions, and so on. You can check the duration of usage time using LAMP RUNTIME in the OPTION menu.

<table>
<thead>
<tr>
<th>Indication</th>
<th>On screen</th>
<th>LAMP indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Over 1,800 hours</td>
<td>&quot;REPLACE LAMP&quot; is displayed on the upper left of the screen for 30 seconds. To clear the screen immediately, press any button.</td>
<td>Illuminates RED</td>
</tr>
<tr>
<td>Over 2,000 hours</td>
<td>&quot;REPLACE LAMP&quot; is displayed on the upper left of the screen, and until you respond it will stay. To clear the screen, press any button.</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:**
- The guide times, 1,800 and 2,000 hours, are rough estimates based on certain conditions and is not a guaranteed time. The estimated condition is: LAMP POWER in OPTION menu set to NORMAL.
- To prolong the lamp life, set the LAMP POWER in OPTION menu to ECO - MODE. See “LAMP POWER” on page 35.
- For more information about the Lamp unit, such as guaranteed time, see the “Replacement Instructions” provided with the Lamp unit.
Replacing the lamp unit

Replacing

1. Turn off the MAIN POWER switch according to the procedure “Switching the projector on/off” on page 19, and then disconnect the power cord plug from the wall outlet and check that the area around the lamp unit has cooled down.

2. Use a Phillips screwdriver to turn the lamp unit cover fixing screws at the bottom of the projector, and then remove the lamp unit cover.

3. Use a Phillips screwdriver to loosen the two lamp unit fixing screws until the screws turn freely. Then hold the handle of the lamp unit and gently pull it out from the projector.

4. Insert the new lamp unit while making sure that the direction of insertion is correct, and then use a Phillips screwdriver to securely tighten the lamp unit fixing screw.

5. Install the lamp unit cover, and then use a Phillips screwdriver to securely tighten the lamp unit cover fixing screws.

NOTE:
- Be sure to install the lamp unit and the lamp unit cover securely. If they are not securely installed, it may cause the protection circuit to operate so that the power cannot be turned on.
- Grip the handle when you remove the lamp unit. Some parts of the lamp unit are sharpened and may cause injury.

Resetting the LAMP RUNTIME

If the lamp usage time has passed 2000 hours (when LAMP POWER has been set to NORMAL), the projector will switch to standby mode after approximately 10 minutes of operation. The resetting procedure should thus be completed within 10 minutes.

1. Insert the power cord plug into the wall outlet and then press the MAIN POWER switch.

2. Press the POWER button so that a picture is projected onto the screen.

3. Press the MENU button to display the menu screen, and then press the ▲ or ▼ button to select the OPTION menu.

4. Press the ENTER button, and then press the ▲ or ▼ button to select LAMP RUNTIME.

5. Press and hold the ENTER button for approximately 3 seconds. The confirmation screen, “LAMP RUNTIME RESET.” is displayed and select OK.

6. Turn off the power.
   - This will reset the cumulative usage time for the lamp unit to zero.
## Troubleshooting

Should any problem persist, contact your dealer.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Reference page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power does not turn on.</td>
<td>● The power cord may not be connected.</td>
<td>19</td>
</tr>
<tr>
<td></td>
<td>● The <strong>MAIN POWER</strong> switch is turned off.</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>● No electric supply is at the wall outlet.</td>
<td>19</td>
</tr>
<tr>
<td></td>
<td>● <strong>TEMP</strong> indicator is lit or flashes.</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td>● <strong>LAMP</strong> indicator is lit or flashes.</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td>● The lamp unit cover has not been securely installed.</td>
<td>39</td>
</tr>
<tr>
<td>No picture appears.</td>
<td>● The video signal input source may not be connected to a terminal properly.</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>● The input selection setting may not be correct.</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td>● The <strong>BRIGHTNESS</strong> adjustment setting may be at the minimum setting.</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>● The <strong>SHUTTER</strong> function may be in use.</td>
<td>42</td>
</tr>
<tr>
<td>The picture is fuzzy.</td>
<td>● The lens cover may still be attached to the lens.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>● The lens focus may not have been set correctly.</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>● The projector may not be at the correct distance from the screen.</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>● The lens may be dirty.</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>● The projector may be tilted too much.</td>
<td>14</td>
</tr>
<tr>
<td>The color is pale or greyish.</td>
<td>● <strong>COLOR</strong> or <strong>TINT</strong> adjustment may be incorrect.</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>● The input source which is connected to the projector may not be adjusted correctly.</td>
<td>18</td>
</tr>
<tr>
<td>The Remote control does not operate.</td>
<td>● The batteries may be weak.</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>● The batteries may not have been inserted correctly.</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td>● The remote control signal receptor on the projector may be obstructed.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>● The remote control unit may be out of the operation range.</td>
<td></td>
</tr>
<tr>
<td>The picture does not display correctly.</td>
<td>● The signal format (<strong>TV-SYSTEM</strong>) may not have been set correctly.</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>● There may be a problem with the VCR or other signal source.</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>● A signal which is not compatible with the projector is being input.</td>
<td>43</td>
</tr>
<tr>
<td>Picture from a computer does not appear.</td>
<td>● The cable may be too long.</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>● The external video output from a laptop computer may not be correct.</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>(You may be able to change the external output settings by pressing the [Fn] + [F3] or [Fn] + [F10] keys simultaneously. The actual method varies depending on the type of computer; refer to the documentation provided with your computer for further details.)</td>
<td>-</td>
</tr>
</tbody>
</table>
## Technical Information

### List of compatible signals

<table>
<thead>
<tr>
<th>Mode</th>
<th>Display resolution (dots)¹</th>
<th>Scanning frequency</th>
<th>Dot clock frequency (MHz)</th>
<th>Picture quality²</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTSC/NTSC 4.43/</td>
<td>720 x 480i</td>
<td>15.7</td>
<td>59.9</td>
<td>A</td>
<td>VIDEO/S-VIDEO</td>
</tr>
<tr>
<td>PAL/PAL-N/SECAM</td>
<td>720 x 576i</td>
<td>15.6</td>
<td>50.0</td>
<td>A</td>
<td>VIDEO/S-VIDEO</td>
</tr>
<tr>
<td>525i (480i)</td>
<td>720 x 480i</td>
<td>15.7</td>
<td>59.9</td>
<td>A</td>
<td>COMPONENT</td>
</tr>
<tr>
<td>625i (576i)</td>
<td>720 x 576i</td>
<td>15.6</td>
<td>50.0</td>
<td>A</td>
<td>COMPONENT</td>
</tr>
<tr>
<td>525p (480p)</td>
<td>720 x 483</td>
<td>31.5</td>
<td>59.9</td>
<td>A</td>
<td>COMPONENT/HDMI</td>
</tr>
<tr>
<td>625p (576p)</td>
<td>720 x 576</td>
<td>31.3</td>
<td>50.0</td>
<td>A</td>
<td>COMPONENT/HDMI</td>
</tr>
<tr>
<td>1125 (1 080)/60i</td>
<td>1 920 x 1 080i</td>
<td>33.8</td>
<td>60.0</td>
<td>AA</td>
<td>COMPONENT/PC/HDMI</td>
</tr>
<tr>
<td>1125 (1 080)/50i</td>
<td>1 920 x 1 080i</td>
<td>28.1</td>
<td>50.0</td>
<td>AA</td>
<td>COMPONENT/PC/HDMI</td>
</tr>
<tr>
<td>1125 (1 080)/24p</td>
<td>1 920 x 1 080</td>
<td>27.0</td>
<td>24.0</td>
<td>AA</td>
<td>COMPONENT/HDMI</td>
</tr>
<tr>
<td>1125 (1 080)/60p</td>
<td>1 920 x 1 080p</td>
<td>67.5</td>
<td>60.0</td>
<td>AA</td>
<td>COMPONENT/PC/HDMI</td>
</tr>
<tr>
<td>1125 (1 080)/50p</td>
<td>1 920 x 1 080p</td>
<td>56.3</td>
<td>50.0</td>
<td>AA</td>
<td>COMPONENT/PC/HDMI</td>
</tr>
<tr>
<td>750 (720)/60p</td>
<td>1 280 x 720</td>
<td>45.0</td>
<td>60.0</td>
<td>AA</td>
<td>COMPONENT/HDMI</td>
</tr>
<tr>
<td>750 (720)/50p</td>
<td>1 280 x 720</td>
<td>45.0</td>
<td>50.0</td>
<td>AA</td>
<td>COMPONENT/HDMI</td>
</tr>
<tr>
<td>VGA480</td>
<td>640 x 480</td>
<td>31.5</td>
<td>59.9</td>
<td>A</td>
<td>PC/HDMI</td>
</tr>
<tr>
<td>WIDE480</td>
<td>856 x 480</td>
<td>30.1</td>
<td>60.1</td>
<td>A</td>
<td>PC</td>
</tr>
<tr>
<td>SVGA</td>
<td>800 x 600</td>
<td>35.2</td>
<td>56.3</td>
<td>A</td>
<td>PC</td>
</tr>
<tr>
<td>WIDE600</td>
<td>1 072 x 600</td>
<td>37.2</td>
<td>59.9</td>
<td>AA</td>
<td>PC</td>
</tr>
<tr>
<td>WIDE720</td>
<td>1 280 x 720</td>
<td>45.1</td>
<td>60.1</td>
<td>AA</td>
<td>PC</td>
</tr>
<tr>
<td>XGA</td>
<td>1 024 x 768</td>
<td>48.4</td>
<td>60.0</td>
<td>A</td>
<td>PC</td>
</tr>
<tr>
<td>WIDE768</td>
<td>1 280 x 768</td>
<td>45.3</td>
<td>56.5</td>
<td>A</td>
<td>PC</td>
</tr>
<tr>
<td>MXGA</td>
<td>1 152 x 864</td>
<td>64.0</td>
<td>71.2</td>
<td>A</td>
<td>PC</td>
</tr>
<tr>
<td>SXGA</td>
<td>1 152 x 864</td>
<td>67.5</td>
<td>74.9</td>
<td>A</td>
<td>PC</td>
</tr>
<tr>
<td>WIDE768-2</td>
<td>1 366 x 768</td>
<td>48.8</td>
<td>59.8</td>
<td>A</td>
<td>PC</td>
</tr>
</tbody>
</table>

1. The “i” appearing after the resolution indicates an interlaced signal.
2. The following symbols are used to indicate picture quality.
   - AA Maximum picture quality can be obtained.
   - A Signals are converted by the image processing circuit before picture is projected.
The serial connector which is on the connector panel of the projector conforms to the RS-232C interface specification, so that the projector can be controlled by a personal computer which is connected to this connector.

### Connection

![Diagram of connection](image)

**NOTE:**
- You must use only an RS-232C Serial Interface Cable with a ferrite core, type ET-ADSER.

### Pin assignments and signal names

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Signal name</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>RXD</td>
<td>Received data</td>
</tr>
<tr>
<td>4</td>
<td>GND</td>
<td>Earth</td>
</tr>
<tr>
<td>5</td>
<td>TXD</td>
<td>Transmitted data</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>Connected internally</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>NC</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>NC</td>
</tr>
</tbody>
</table>

### Communication settings

<table>
<thead>
<tr>
<th></th>
<th>RS-232C</th>
<th>Character length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal level</td>
<td></td>
<td>8 bits</td>
</tr>
<tr>
<td>Sync. method</td>
<td>Asynchronous</td>
<td></td>
</tr>
<tr>
<td>Baud rate</td>
<td>9 600 bps</td>
<td></td>
</tr>
<tr>
<td>Parity</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>X parameter</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>S parameter</td>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>
Basic format

The projector cannot receive any command for 10 seconds after the lamp is switched on. Wait 10 seconds before sending the command.

If sending multiple commands, check that a response has been received from the projector for one command before sending the next command.

When a command which does not require parameters to be sent, the colon (:) is not required.

If an incorrect command is sent from the personal computer, the ER401 command will be sent from the projector to the personal computer.

Control commands

<table>
<thead>
<tr>
<th>Command</th>
<th>Control contents</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>PON Power ON</td>
<td>In standby mode, all commands other than the PON command are ignored.</td>
<td>- The PON command is ignored during lamp ON control.</td>
</tr>
<tr>
<td>POF Power OFF</td>
<td></td>
<td>- If a PON command is received while the cooling fan is operating after the lamp has switched off, the lamp is not turned back on again straight away in order to protect the lamp.</td>
</tr>
<tr>
<td>IIS Input signal selection</td>
<td>Parameter: VID = VIDEO IN, RG1 = PC IN, SVD = S-VIDEO IN, YUV = COMPONENT IN, HDM = HDMI IN</td>
<td></td>
</tr>
<tr>
<td>OMN Menu screen</td>
<td>The menu screen will be displayed.</td>
<td></td>
</tr>
<tr>
<td>OEN ENTER</td>
<td>Use this command to accept and to activate items selected in the on-screen menus.</td>
<td></td>
</tr>
<tr>
<td>OBK RETURN</td>
<td>Use this command to return to a previous menu screen or to clear the menu screen.</td>
<td></td>
</tr>
<tr>
<td>OCU/OCL/OCR Navigation buttons</td>
<td>OCU = ▲ button, OCL = ◄ button, OCR = ► button</td>
<td></td>
</tr>
<tr>
<td>OST Returning to the default setting</td>
<td>Use this command to return the setting to the factory default. (page 23)</td>
<td></td>
</tr>
<tr>
<td>OFZ Freeze function</td>
<td>The picture being projected will be paused. Parameter: 0 = OFF, 1 = ON</td>
<td></td>
</tr>
<tr>
<td>OSH Shutter function</td>
<td>Use this command to momentarily turn off the picture. Operation will be switched between ON and OFF each time the command is sent. Do not switch operation ON and OFF after only short periods of time.</td>
<td></td>
</tr>
<tr>
<td>OVM MAIN</td>
<td>Use this command to display an item in the PICTURE menu. (page 28)</td>
<td></td>
</tr>
<tr>
<td>VS1 Aspect ratio selection</td>
<td>The aspect ratio will be switched each time the command is sent. (page 23)</td>
<td></td>
</tr>
<tr>
<td>VPM Picture mode selection</td>
<td>Parameter: NAT = NATURAL, DYN = DYNAMIC, CN1 = CINEMA1, CN2 = CINEMA2, CN3 = VIVID CINEMA, VID = VIDEO (page 28)</td>
<td></td>
</tr>
<tr>
<td>OOT SLEEP selection</td>
<td>Setting the duration of time to turn off the power automatically. 0 = OFF, 1 = 60 min, 2 = 90 min, 3 = 120 min, 4 = 150 min, 5 = 180 min, 6 = 210 min, 7 = 240 min. (page 23)</td>
<td></td>
</tr>
</tbody>
</table>
**Technical Information**

### Inquiry commands

<table>
<thead>
<tr>
<th>Command</th>
<th>Control contents</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>QPW</td>
<td>Power condition</td>
<td>000 = OFF 001 = ON</td>
</tr>
<tr>
<td>QIN</td>
<td>Input signal</td>
<td>VID = VIDEO IN</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RG1 = PC IN</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SVD = S-VIDEO IN</td>
</tr>
<tr>
<td></td>
<td></td>
<td>YUV = COMPONENT IN</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HDM = HDMI IN</td>
</tr>
<tr>
<td>QPM</td>
<td>Picture mode</td>
<td>Parameter:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NAT = NATURAL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DYN = DYNAMIC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CN1 = CINEMA1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CN2 = CINEMA2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CN3 = VIVID CINEMA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>VID = VIDEO (See page 33)</td>
</tr>
<tr>
<td>QSH</td>
<td>Shutter function</td>
<td>0 = OFF 1 = ON</td>
</tr>
<tr>
<td>QFZ</td>
<td>Freeze function</td>
<td>0 = OFF 1 = ON</td>
</tr>
<tr>
<td>QOT</td>
<td>SLEEP function</td>
<td>0 = OFF 1 = 60 min.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 = 90 min.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 = 120 min.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4 = 150 min.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 = 180 min.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6 = 210 min.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7 = 240 min. (page 23)</td>
</tr>
</tbody>
</table>

### Cable specifications

(When connected to a personal computer)

![Diagram of cable connections](image)

**Projector**

1  2  3  4  5  6  7  8

**PC (DTE)**

1  2  3  4  5  6  7  8  9
Sub-menu items vary according to the selected input signal.
## Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power supply</strong></td>
<td>AC 100 - 240 V 50 Hz/60 Hz</td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>290 W</td>
</tr>
<tr>
<td></td>
<td>During standby (when fan is stopped): 0.08 W</td>
</tr>
<tr>
<td><strong>Amps</strong></td>
<td>3.5 A - 1.5 A</td>
</tr>
<tr>
<td><strong>LCD panel</strong></td>
<td>Panel size (diagonal): 0.7 type (17.78 mm)</td>
</tr>
<tr>
<td></td>
<td>Aspect ratio: 16 : 9</td>
</tr>
<tr>
<td></td>
<td>Display method: 3 transparent LCD panels (RGB)</td>
</tr>
<tr>
<td></td>
<td>Drive method: Active matrix method</td>
</tr>
<tr>
<td></td>
<td>Pixels: 921 600 (1 280 x 720) x 3 panels</td>
</tr>
<tr>
<td><strong>Lens</strong></td>
<td>Manual zoom (2 x)/Manual focus</td>
</tr>
<tr>
<td></td>
<td>F 1.9 - 3.1, f 21.7 mm - 43.1 mm</td>
</tr>
<tr>
<td><strong>Lamp</strong></td>
<td>UHM lamp (220 W)</td>
</tr>
<tr>
<td><strong>Luminosity</strong></td>
<td>2 000 lm</td>
</tr>
<tr>
<td><strong>Scanning frequency</strong></td>
<td>Horizontal scanning frequency: 30 kHz - 70 kHz</td>
</tr>
<tr>
<td></td>
<td>Vertical scanning frequency: 50 Hz - 87 Hz</td>
</tr>
<tr>
<td></td>
<td>Dot clock frequency: Less than 150 MHz</td>
</tr>
<tr>
<td><strong>COMPONENT (YPbPr) signals</strong></td>
<td>525i (480i), 525p (480p), 625i (576i), 625p (576p), 1 125 (1 080)/24p, 750 (720)/50p, 750 (720)/60p, 1 125 (1 080)/50i, 1 125 (1 080)/60i, 1 125 (1 080)/60p, 1 125 (1 080)/60p</td>
</tr>
<tr>
<td><strong>Color system</strong></td>
<td>7 (NTSC/NTSC 4.43/PAL/PAL-M/PAL-N/SECAM)</td>
</tr>
<tr>
<td><strong>Projection size</strong></td>
<td>1 016 mm - 5 080 mm (40&quot; - 200&quot;)</td>
</tr>
<tr>
<td><strong>Throw distance</strong></td>
<td>1.2 m - 12.4 m (3'11&quot; - 40'8&quot;)</td>
</tr>
<tr>
<td><strong>Screen aspect ratio</strong></td>
<td>16 : 9</td>
</tr>
<tr>
<td><strong>Installation</strong></td>
<td>Front/Rear/Ceiling/Desk (Menu selection method)</td>
</tr>
</tbody>
</table>
| Connectors | S-VIDEO IN | Single - line, Mini DIN 4p  
Y: 1.0 V [p-p], C: 0.286 V [p-p], 75 Ω |
|---|---|---|
| VIDEO IN | Single - line, RCA pin jack  
1.0 V [p-p], 75Ω |
| PC IN | RGB Single - line, D - sub HD 15-pin (female)  
- R.G.B: 0.7 V [p-p], 75 Ω  
- G.SYNC 1.0 V [p-p], 75 Ω  
- HD/SYNC TTL high impedance, automatic positive/negative polarity compatible  
- VD TTL high impedance, automatic positive/negative polarity compatible |
| COMPONENT IN | Y, PB/CB, PR/CR Single - line, RCA pin jack x 3  
- Y: 1.0 V [p-p] (including sync), 75 Ω  
- PB/CB, (PR/CR) 0.7 V [p-p], 75 Ω |
| HDMI IN | Single - line, 19-pin HDMI connector |
| SERIAL | DIN 8-pin RS-232C compatible |

<table>
<thead>
<tr>
<th>Cabinet</th>
<th>Moulded plastic (ABS/PC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td></td>
</tr>
</tbody>
</table>
- Width 395 mm (15 -17/32")  
- Height 112 mm (4 - 13/32")  
- Length 300 mm (11 - 25/32") |
| Weight | 4.9 kg (10.8 lbs.) |

| Operating environment |  
- Temperature 0 °C - 40 °C (32 °F - 104 °F)  
When the ALTITUDE (page 35) is set to HIGH: 0 °C - 35 °C (32 °F - 95 °F)  
- Humidity 20% - 80% (no condensation) |

| Certifications | UL60950-1  
FCC Class B  
C-UL  
ICES-003 |

<table>
<thead>
<tr>
<th>Remote control</th>
<th>Power supply 3 V DC (AA battery x 2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating range</td>
<td>Approx. 7 m (23') (when operated directly in front of signal receptor)</td>
</tr>
<tr>
<td>Weight</td>
<td>125 g (4.4 ozs.) (including batteries)</td>
</tr>
<tr>
<td>Dimensions</td>
<td></td>
</tr>
</tbody>
</table>
- Width 48 mm (1 - 7/8")  
- Length 138 mm (5 - 13/32")  
- Height 28.35 mm (1-3/32") (not including projecting parts) |

<table>
<thead>
<tr>
<th>Options</th>
<th>Ceiling bracket ET-PKX100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Projection screen</td>
<td>ET-SRW90CT</td>
</tr>
<tr>
<td>Serial adapter</td>
<td>ET-ADSER (DIN 8-pin/D-sub 9-pin)</td>
</tr>
</tbody>
</table>
Trademark acknowledgements

- VGA and XGA are trademarks of International Business Machines Corporation.
- S-VGA is a registered trademark of the Video Electronics Standards Association.
- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- The font used in the on-screen displays is a Ricoh bitmap font, which is manufactured and sold by Ricoh Company, Ltd.
All other trademarks are the property of the various trademark owners.

Information on Disposal in other Countries outside the European Union

This symbol is only valid in the European Union.
If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.
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