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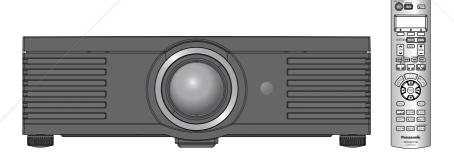


Panasonic®

Operating Instructions

LCD Projector

Model No. PT-AE2000U







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

TQBJ0233

Important Safety Notice

Dear Panasonic Customer:

The following information should be read and understood as it provides details, which will enable you to operate the projector in a manner which is both safe to you and your environment, and conforms to legal requirements regarding the use of projectors. Before connecting, operating or adjusting this projector, please read these instructions completely and save this booklet with the projector for future reference. 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-AE2000U

Serial number:

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DONOT 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:

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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.



Jo not remove

NOTICE:

This product has a High Intensity Discharge (HID) lamp that contains mercury. Dispose may be regulated in your community due to environmental considerations. For disposal or recycling information, please contact your local authorities, or the Electronic Industries Alliance: http://www.eiae.org

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.

Pursuant to at the directive 2004/108/EC, article 9(2)

Panasonic Testing Center

Panasonic Service Europe, a division of Panasonic Marketing Europe GmbH

Winsbergring 15, 22525 Hamburg, F.R. Germany

WARNING: Not for use in a computer room as defined in the Standard for the Protection

of Electronic Computer/Data Processing Equipment, ANSI/NFPA 75.

Declaration of Conformity

Model Number: PT-AE2000U
Trade Name: Panasonic

Responsible party: Panasonic Corporation of North America

Address: One Panasonic Way, Secaucus, New Jersey 07094

Telephone number: (888) 411 - 1996

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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formation 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.

RUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

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Quick steps

1. Set up your projector 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 See "Menu Navigation" on page 28.

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LAMP RUNTIME

-Merchant.com (800) 281-886 SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Precautions with regard to safety

WARNINGS

If you notice smoke, strange smells or noise coming from the projector, disconnect the power 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 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.

Never attempt to modify or disassemble the projector.

- High voltages can cause fire or electric shocks.
- For any inspection, adjustment and repair work, please contact an Authorized Service Center.

Clean the power plug regularly to prevent it from becoming covered in dust.

- If dust builds up on the power plug, the resulting humidity can damage the insulation, which could result in five. Pullthe power 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 plug out from the wall outlet.

Do not handle the power plug with wet hands.

• Failure to observe this may result in electric shocks.

Insert the power 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 do anything that might damage the power cord or the power 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 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.

Do not touch the leaked liquid from the batteries.

- If you touch the leaked liquid, it may hurt your skin.
 Immediately wash away the liquid with water and seek medical advice.
- If you get the leaked liquid in your eye, it may cause blindness or damage. Never rub your eye, and immediately wash away the liquid with water and seek medical advice.

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 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 50 cm (20") of space], otherwise burns or damage could result.

Replacement of the lamp is recommended 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 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 programming 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. IRCE FOR PROJECTOR LAMPS AND ACCESSORIES

ENGLISH - 7

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.

Do not set up the projector in a high temperature environment, such as near a heater or in direct sunlight.

• Failure to observe this may result in fire, malfunction or plastic deterioration.

Do not set up the projector outdoors.

• The projector is designed for indoor use only.

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 or different kind of 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.

Remove the used batteries from the remote control promptly.

 If you leave used batteries in the remote control for an extended period of time, it may cause liquid leaking, abnormal internal temperature rising or explosion.

If not using the projector for an extended period of time, disconnect the power plug from the wall outlet and remove the batteries from the remote control.

- If dust builds up on the power plug, the resulting humidity may damage the insulation, which could result in fire.
- Keeping or leaving the remote control with batteries inside may cause insulation deterioration, electrical leakage or explosion which could result in fire.

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.

Disconnect the power 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.

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.

When transporting the projector, hold the body at the bottom securely.

 Do not hold the adjuster legs or the top cover to move the projector, as this may damage 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 or lighting equipment.

 The life of the lamp may be shortened or the projector may be turned off. See "TEMP indicator" on page 42.

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 or an Authorized Service Center to carry out all installation work.

- You will need to purchase the separate installation kit (Model No. ET-PKE2000, ET-PKE1000S).
 Furthermore, all installation work is should only be carried out by a qualified technician.
- See "Ceiling mount bracket safeguards" on page 51 for the safety cable installation.

If using this projector at high elevations (above 1 400 m), set the HIGHLAND to ON. See "ALTITUDE" on page 41.

 Failure to observe this may result in malfunctions or the life of the lamp or the other components may be shortened.



Precautions with regard to safety

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, attach the lens cover.

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. It is recommended to switch off the projector once and try after 1 hour later again. Please note that this does not affect the performance of your LCD.

The projector has a high pressure mercury lamp and that is characterized as follows.

- The brightness of the lamp depends on the duration of use.
- The lamp may explode or shorten the lamp life by shocks or chipping damage.
- The lamp may explode only occasionally after using the projector.
- The lamp may explode if using the projector after the instructed lamp replacement timing.
- The lamp life is depends on individual lamp characteristics, usage condition and the installation environment. Especially the consecutive use of the projector for more than 10 hours, or the frequent switching on or off may greatly affect on the lamp life.

Screen

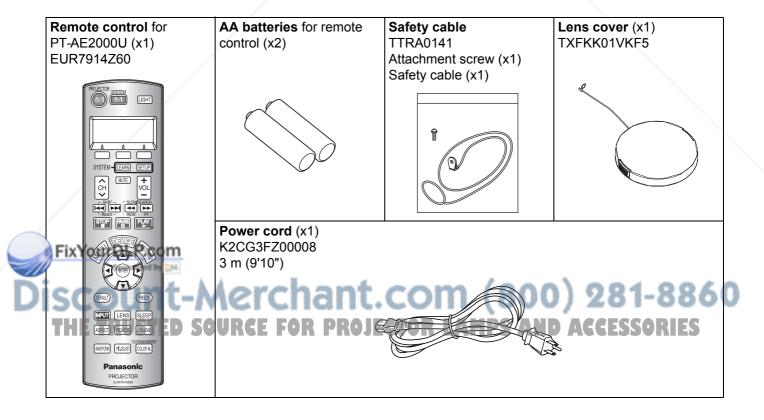
 Do not apply any volatile substances which may cause discoloration to the screen, and do not let it become dirty or damaged.

Optical components

 If you use the projector consecutively 6 hours every day, the optical components may need to be replaced in less than 1 year.

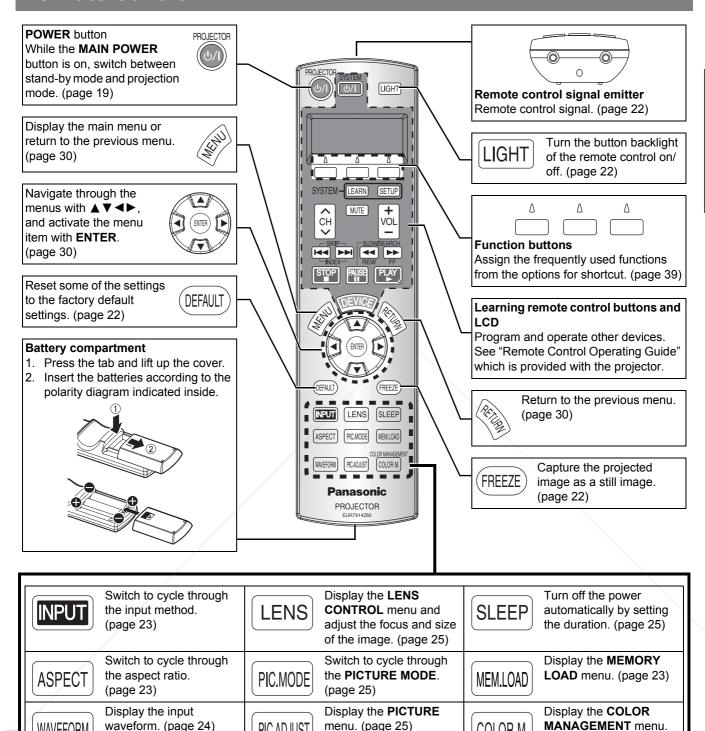
Accessories

Make sure the following accessories are provided with your projector.



About Your Projector

Remote control



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WAVEFORM

NOTE:

COLOR M.

(page 26)

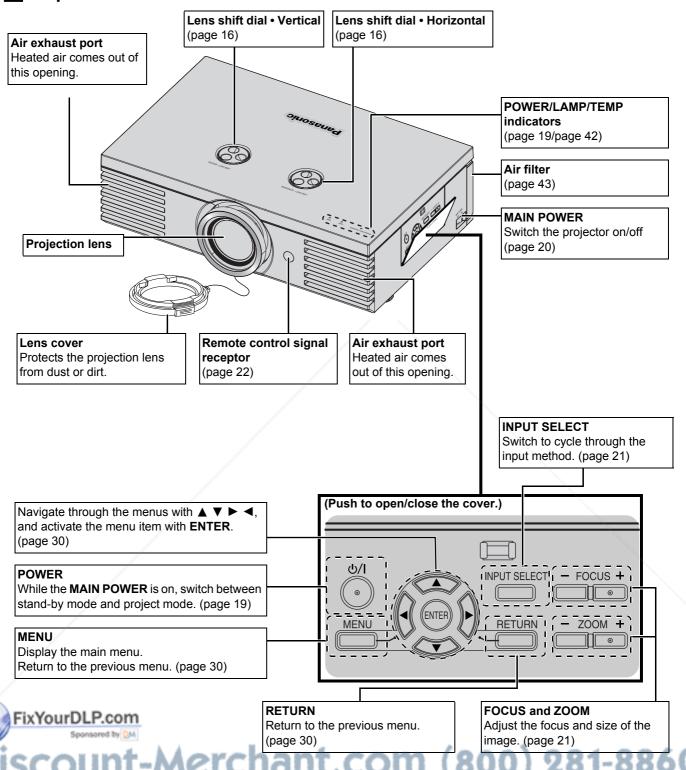
- · Do not drop the remote control.
- Avoid contact with liquids or moisture. OR DR OF CONTROL Use manganese batteries or alkaline batteries with the remote control. Avoid contact with liquids or moisture. AMPS AND ACCESSORIES
- · Do not attempt to modify or disassemble the remote control. Contact an Authorized Service Center for repairs.
- · Do not keep pressing the remote control buttons as this may shorten battery life.

PIC.ADJUST

- · Do not point the laser in other people's eyes or stare into beam.
- · See "Remote control operation" on page 22.

Projector body

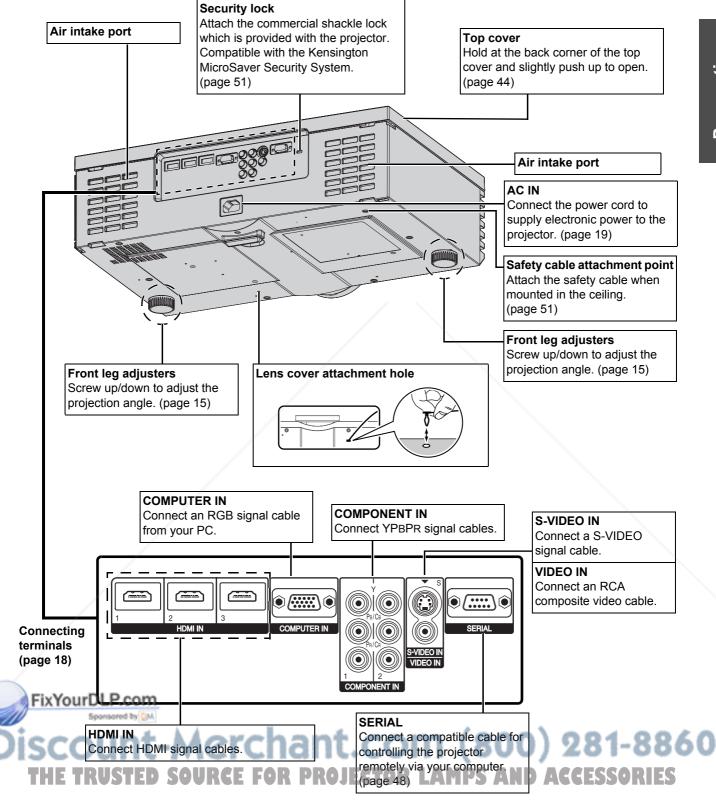
Top and front view



NOTE:TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

- Do not cover the ventilation openings or place anything within 50 cm (20") of them as this may cause damage or injury.
- · While the projector is not in use, keep the lens cover to protect the lens.

Back and bottom view



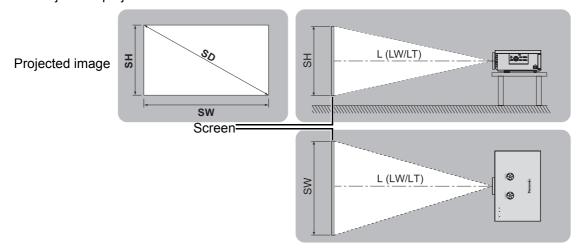
NOTE:

- Do not cover the ventilation openings or place anything within 50 cm (20") of them as this may cause damage or injury.
- The projector should only be used with the attached power cord to ensure optimum performance and avoid damage to the projector.
- · Do not open the top cover other than replacing the lamp unit.

Setting up

Screen size and throw distance

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



| Projection size (16 : 9) | | | Throw distance (L) | | |
|--------------------------|--------------------|-------------------|-----------------------|-----------------------|--|
| Screen Diagonal (SD) | Screen height (SH) | Screen width (SW) | Minimum distance (LW) | Maximum distance (LT) | |
| 1.01 m (40") | 0.50 m (1'7") | 0.89 m (2'11") | 1.2 m (3'11") | 2.3 m (7'6") | |
| 1.27 m (50") | 0.62 m (2') | 1.11 m (3'7") | 1.5 m (4'11") | 2.9 m (9'6") | |
| 1.52 m (60") | 0.75 m (2'5") | 1.33 m (4'4") | 1.8 m (5'10") | 3.5 m (11'5") | |
| 1.77 m (70") | 0.87 m (2'10") | 1.55 m (5'1") | 2.1 m (6'10") | 4.1 m (13'5") | |
| 2.03 m (80") | 1.00 m (3'3") | 1.77 m (5'9") | 2.4 m (7'10") | 4.7 m (15'8") | |
| 2.28 m (90") | 1.12 m (3'8") | 1.99 m (6'6") | 2.7 m (8'10") | 5.3 m (17'4") | |
| 2.54 m (100") | 1.25 m (4'1") | 2.21 m (7'3") | 3.0 m (9'10") | 5.9 m (19'4") | |
| 3.05 m (120") | 1.49 m (4'10") | 2.66 m (8'8") | 3.6 m (11'9") | 7.2 m (23'7") | |
| 3.81 m (150") | 1.87 m (6'1") | 3.32 m (10'10") | 4.5 m (14'9") | 9.0 m (29'6") | |
| 5.08 m (200") | 2.49 m (8'2") | 4.43 m (14'6") | 6.0 m (19'8") | 12.0 m (39'4") | |

^{*} All measurements above are approximate and may differ slightly from the actual measurements.

Calculation methods for screen dimensions

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

 $SW(m) = SD(m) \times 0.872$

 $SH(m) = SD(m) \times 0.490$

LW (m) = $1.189 \times SD (m) - 0.04$

 $LT (m) = 2.378 \times SD (m) - 0.05$

NOTE:

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

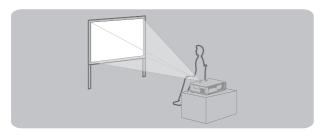


^{*} The results above are approximate and may differ slightly from the actual measurements.

Projection method

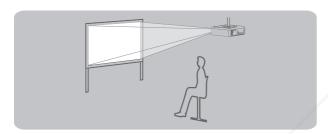
You can use the projector with any of the following 4 projection methods. To set the desired method in the projector, See "INSTALLATION" on page 41.

Setting on a desk/floor and projecting from front



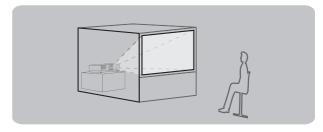
INSTALLATION: FRONT/DESK

Mounting in the ceiling and projecting from front



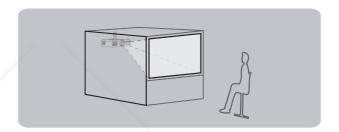
INSTALLATION: FRONT/CEILING

Setting on a desk/floor and projecting from rear



INSTALLATION: REAR/DESK

Mounting in the ceiling and projecting from rear



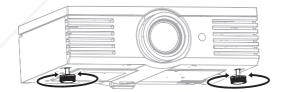
INSTALLATION: REAR/CEILING

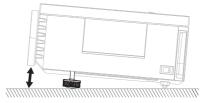
NOTE:

- · A translucent screen is required for rear projection.
- When mounting the projector in the ceiling, the optional ceiling mount bracket (ET-PKE2000, ET-PKE1000S) is required.
- See "Ceiling mount bracket safeguards" on page 51.

Front leg adjusters and throwing angle

You can screw up/down the front leg adjusters to control the angle of the projector for adjusting the throwing angle. See "Positioning the image" on page 21.





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NOTE:

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- 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 38.
- Screw up the adjuster legs, and an audible click will be heard as the limit.

281-886

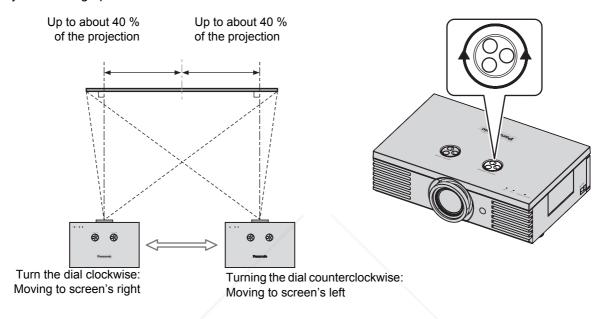
Lens shift and positioning

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 lens shift dials within the shift range of the lens.

Adjusting the lens shift dials

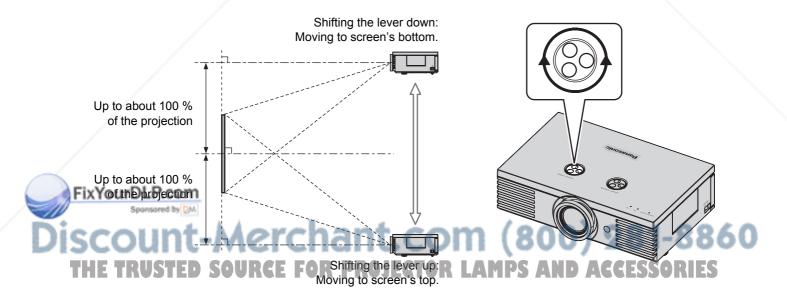
Horizontal shift

You can place the projector where the projector lens is up to 40% horizontally off-center from the screen and then adjust the image position with the **Lens shift dial • Horizontal**.



Vertical shift

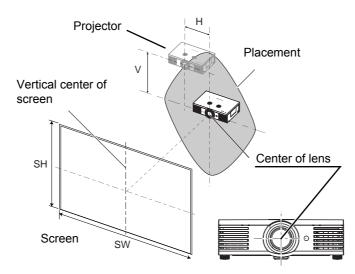
You can place the projector where the projector lens is up to 100% vertically off-center from the screen and the adjust the image position with the **Lens shift dial • Vertical**.



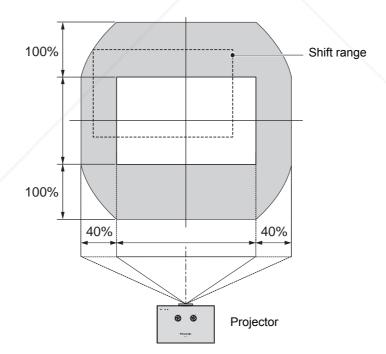
Projector location range

You can determine where to locate the screen and the projector by considering the lens shift possibilities. See "Positioning the image" on page 21.

When the screen position is fixed



When the projector position is fixed





NOTE:

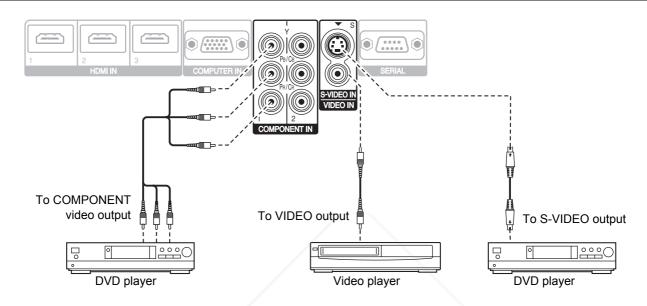
- When the projector is located right in front of the screen and the lens shift dials is centered, you will get the best quality of the projection image.
- When the **Lens shift dial Vertical** is at the vertical limit of the shift range, you cannot turn the dial to the horizontal limit, likewise when the **Lens shift dial Horizontal** is at the horizontal limit of the shift range, you cannot turn the dial to the horizontal limit.
- When the projector is tilted and you adjust KEYSTONE, the center of the screen and the lens need to be realigned.
- Do not force the lens shift dials to turn as this may damage the projector. Turning the dials maximum limit is 4 or 5 times from the default position.

Connections

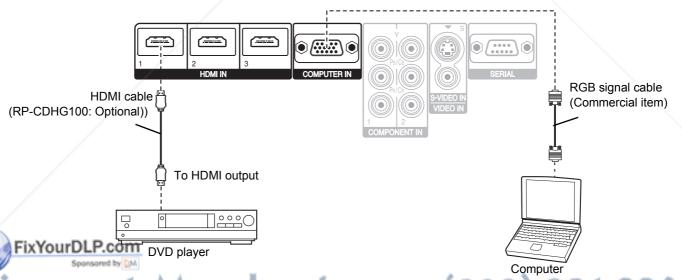
Before connecting to the projector

- 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 47.
- Audio cables must be connected from each peripheral device directly to the audio reproduction system.

Connecting to COMPONENT IN/VIDEO IN/S-VIDEO IN



Connecting to COMPUTER IN/HDMI IN



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- Make sure the HDMI cable is adapted to your HDMI device for proper performance.
- A compatible cable is required for an HDMI 1 080p 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. "Serial terminal" on page 48

Switching the projector on/off

Power cord

Connecting

- 1. Make sure the shape of the power 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 outlet.

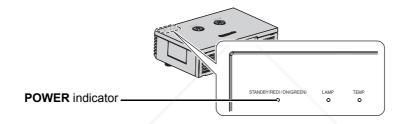
Disconnecting

- 1. Make sure the **MAIN POWER** is switched off and unplug the power cord from the wall outlet.
- 2. Hold the plug and unplug the power cord from the **AC IN** connector on the side of the projector.

NOTE:

- · Do not use other than the provided power cord.
- · Ensure all the input devices are connected and turned off before connecting the power cord.
- 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



| Indicator status Status | | Status |
|-------------------------|----------------|--|
| No illuminati | on or flashing | The MAIN POWER button is switched off. |
| Red | Lit | The MAIN POWER button is switched on and the projector is in standby. |
| Green | Flashing | The POWER button is switched on and the projector is getting ready to project. |
| Green | Lit | The projector is ready to project. |
| | Lit | The POWER button is switched off and the projector is cooling the lamp. |
| Orange | Flashing | The POWER button is switched on again when cooling the lamp and recovering to projection mode. Recovery may take a while. |

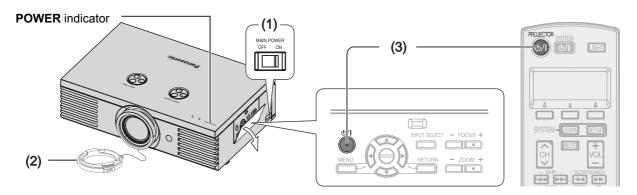
NOTE:

- · While the projector is cooling the lamp, do not switch the MAIN POWER button off or unplug the power cord.
- The electric consumption in standby mode is 0.08 W.



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Switching on the projector

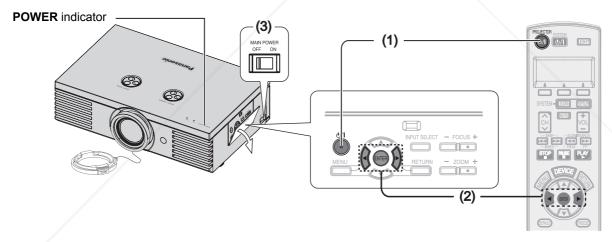


- 1. Switch the MAIN POWER button on.
 - The power indicator lights up in red.
- 2. Remove the lens cover from the lens.
- 3. Press the POWER button.
 - The power indicator lights up in green after flashing for a while.
 - The **STARTUP LOGO** is displayed on the screen. See "STARTUP LOGO" on page 40.

NOTE:

- When starting up the projector, some small rattling or tinkling sound may be heard, or the display may flicker for the characteristics of the lamp. Those are normal and do not affect the performance of the projector.
- · Do not attempt to modify the lens cover which may cause burns, fire or damage to the projector.

Switching off the projector



- 1. Press the **POWER** button.
 - The confirmation screen is displayed. It will disappear and return to the projection after 10 seconds without any operation.
 - To return to the projection, press any button except the POWER button.
- 2. Press ◀ to select **OK** and press the **POWER** or **ENTER** button.
 - The power indicator lights up in orange while cooling the lamp, then illuminates red when it is ready to switch off the MAIN POWER button.
- 3. Switch off the **MAIN POWER** button on the back of the projector.

NOTE

T • Press the POWER twice or for a long duration to switch the power off. AMPS AND ACCESSORIES

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** button to select the required input method if needed. See "Switching the input signal" on page 23.
 - The image will be projected on the screen.

NOTE:

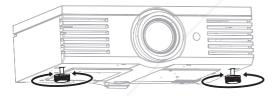
• AUTO SEARCH is ON as default and the signal from the connected devices is detected automatically. See "AUTO SEARCH" on page 40.

Positioning the image

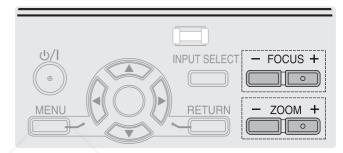
- 1. Press the **ASPECT** button to select the required aspect mode. See "Switching the aspect ratio" on page 23.
- 2. Adjust the projected image with the lens shift dials. See "Lens shift and positioning" on page 16.



- 3. Adjust the angle of the projector.
 - Screw down the front leg adjusters and adjust the angle vertically.
 - See "Front leg adjusters and throwing angle" on page 15.



- 4. Adjust the focus and the projected image size.
 - Press +/- of the FOCUS and ZOOM buttons to adjust.



NOTE:

- Do not touch the air exhaust port as this may cause burns or injury.
- If keystone distortion occurs, see "KEYSTONE" on page 38.
- If you adjust the focus, you may need to adjust the size of the image by pressing the **ZOOM** button again.



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Remote control operation

Operating range



You can operate the projector with the remote control within the remote range 7 m (22'11").

Facing to the projector

Ensure the remote control emitter is facing to the remote control signal receptor on front/back 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. This function may not be effective with a translucent screen.

NOTE:

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

Turning on the button backlight



In a dark room, you can turn on the button backlight to operate the remote control. Press the **LIGHT** button on the upper right corner of the unit to turn on the backlight and enter the light-on mode.

After 30 seconds without any operation, the backlight will go out and press any but the LIGHT button to turn on again. To escape from the light-on mode, press the LIGHT button.

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.

Capturing an image



When projecting an image, press FREEZE button to capture the projected image and Fix Yourdisplayitom the screen as a still picture. Press again to escape.

You can adjust AREA SELECT of the SPLIT ADJUST menu by pressing the **ENTER** button while the frozen image is displayed. See "SPLIT ADJUST" on page 32.

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Switching the input signal



You can switch the input method manually by pressing the **INPUT** 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.

 The graphical guidance will be displayed on the upper right of the projected image and you can confirm the selected input method which is highlighted in yellow. See "INPUT GUIDE" on page 40.

| IN OT COIDE ON PO | ago io. | | |
|-------------------|------------|----------------|--|
| COMPONENT 1 IN | (=) | COMPONENT 2 IN | |
| ★ | | ★ ∓ | |
| COMPUTER IN | | S-VIDEO IN | |
| + | =" | + | |
| HDMI 3 IN | | VIDEO IN | |
| ★ | =" | ★ ₹ | |
| HDMI 2 IN | (=) | HDMI 1 IN | |
| | | | |

| COMPONENT 1 IN | COMPONENT (YPBPR) signals from the equipment connected to |
|----------------|--|
| COMPONENT 2 IN | COMPONENT IN 1/ COMPONENT IN 2. |
| S-VIDEO IN | S-VIDEO signal from the equipment connected to S-VIDEO IN. |
| VIDEO IN | VIDEO signal from the equipment connected to VIDEO IN. |
| HDMI 1 IN | HDMI signal from the equipment |
| HDMI 2 IN | connected to HDMI IN 1/HDMI IN 2/ |
| HDMI 3 IN | INDIMI IN 3. |
| COMPUTER IN | COMPUTER (RGB) signal from the equipment connected to COMPUTER IN. |

NOTE:

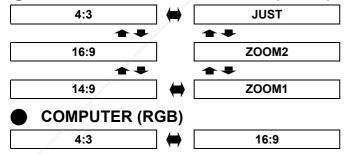
- If you select an unplugged input method, the guidance will blink on and off several times.
- · See "List of compatible signals" on page 47.
- · See "Connections" on page 18.

Switching the aspect ratio



The aspect ratio will be 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 36.

■ VIDEO/S-VIDEO/COMPONENT (YPBPR)



HDMI

4:3

16:9

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 type is defined not only by the input method but also by the input signals. See "List of compatible signals" on page 47.
- 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.

Loading a saved setting

You can access saved settings instantly.

MEM_LOAD See "MEMORY LOAD" on page 34.

NOTE:

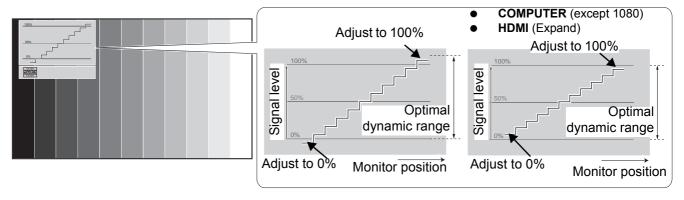
- If you have not saved any settings, MEMORY1 16 will not be displayed.
- 1. Select the required setting from MEMORY1 16.
- Undefined setting will not be displayed.
- 2. Press **ENTER** to activate the selected setting.

Adjusting the signal condition with a waveform



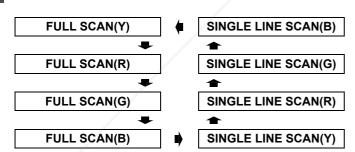
You can display the image brightness and contrast level of the input signal with a waveform. See "WAVEFORM MONITOR" on page 32.

| FULL SCAN | Monitoring the waveform of brightness and contrast of the whole image. |
|------------------|--|
| SINGLE LINE SCAN | Monitoring the waveform of brightness and contrast in each horizontal line of the image. |



Displaying the waveform

- Press the WAVEFORM button and display the waveform monitor.
 - Press the WAVEFORM button again to escape from the waveform mode.
- 2. Press **ENTER** button until the required waveform option is displayed.
 - In FULL SCAN mode, press ▲ ▼ ◀ ► to change the waveform position.
 - In SINGLE LINE SCAN mode, press ▲ ▼ to select the required line position.



NOTE:

- In SINGLE LINE SCAN mode, the position of the waveform monitor depends on the position of the selected line.
- You can display the main menu by pressing the MENU Fix button and adjust the menu items.
 - The called up menu items displayed position depends on the position of the waveform monitor.
- You can activate AUTO ADJUST of the WAVEFORM menu by pressing the DEFAULT button.
- The signal which is lower than 0% in the waveform will be displayed as same as 0% on the projected image.
 - While the waveform is displayed, the image is displayed without the COLOR MANAGEMENT adjustment.
 - When adjusting the KEYSTONE of the POSITION menu while the waveform is displayed, xvYCC will be deactivated.

Adjustment example

Project a commercial test signal for picture adjustment on the screen and press the **WAVEFORM** button.

Adjusting with luminance options

- Press the ENTER button until FULL SCAN(Y)/ SINGLE LINE SCAN(Y) is displayed.
- 2. Press the PIC. ADJUST to display the PICTURE MODE of the PICTURE menu.
- 3. Press ▼ several times to display the **BRIGHTNESS**.
- 4. Adjust the **BRIGHTNESS** by pressing ◀ ▶.
 - Adjust the bottom line of the waveform to 0% (0 or 7.5 IRE).
 - Setting range: -32 to +32
- 5. Press ▼ once to display the CONTRAST.
- 6. Adjust the **CONTRAST** by pressing **◄** ▶.
 - Adjust the bottom line of the waveform to 100% (100 IRE).
 - Setting range: -64 to +64

| FULL SCAN(Y)/SINGLE LINE SCAN(Y) | | |
|----------------------------------|-------------------------------------|--|
| | Adjust the bottom line of the | |
| | waveform to 0% (0 IRE or 7.5 IRE) | |
| CONTRAST | Adjust the top line of the waveform | |
| | to 100% (100 IRE) | |

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Adjusting with RGB options

- 1. Press the **ENTER** button until the required option is displayed.
- Press the PIC. ADJUST twice to display the GAMMA of the ADVANCED MENU menu.
- 3. Press ▼ several times to display the required brightness option.
- 4. Adjust the brightness option by pressing ◀ ▶.
 - Adjust the bottom line of the waveform to 0% (0 IRE or 7.5 IRE).
 - Setting range: -16 to +16
- 5. Press ▼ once to display the required contrast option.
- 6. Adjust the contrast option by pressing ◀ ▶.
 - Adjust the top line of the waveform to 100% (100 IRE).
 - Setting range: -32 to +32

| FULL COANTRYONIOL | E LINE COANTE | |
|----------------------------------|-------------------------------------|--|
| FULL SCAN(R)/SINGL | E LINE SCAN(R) | |
| BRIGHTNESS R | Adjust the bottom line of the | |
| | waveform to 0% (0 IRE or 7.5 IRE) | |
| CONTRAST R | Adjust the top line of the waveform | |
| OOMINATIN | to 100% (100 IRE) | |
| FULL SCAN(G)/SINGLE LINE SCAN(G) | | |
| BRIGHTNESS G | Adjust the bottom line of the | |
| | waveform to 0% (0 IRE or 7.5 IRE) | |
| CONTRAST G | Adjust the top line of the waveform | |
| CONTRAST G | to 100% (100 IRE) | |
| FULL SCAN(B)/ | | |
| BRIGHTNESS B | Adjust the bottom line of the | |
| DRIGHTINESS D | waveform to 0% (0 IRE or 7.5 IRE) | |
| CONTRACT R | Adjust the top line of the waveform | |
| CONTRAST B | to 100% (100 IRE) | |

Adjusting the focus and zoom

LENS

You can adjust the focus and zoom of the projected image. Press the **LENS** button to

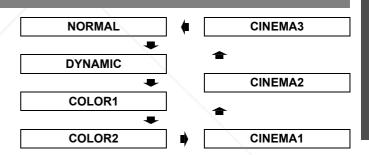
display the **LENS CONTROL** menu. See "LENS CONTROL" on page 39.

Switching the picture mode

PIC.MODE

You can switch the preset picture mode settings by pressing the **PIC. MODE** button. Press the button until the required setting is

selected. See "PICTURE MODE" on page 31.



Adjusting the image



You can display the **PICTURE** and **ADVANCED MENU** menu items with called up style by pressing the **PIC. ADJUST** button. Press the button to switch between

PICTURE and **ADVANCED MENU** 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, xvYCC,
 DETAIL CLARITY, NR, MPEG NR, CINEMA
 REALITY and TV-SYSTEM

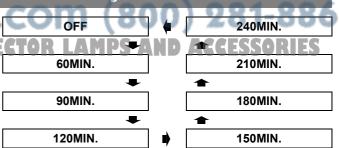
NOTE:

- For each menu items description, see "PICTURE menu" on page 31.
- The screen will be cleared after 7 seconds without any operation.

Switching off the projector automatically

SLEEP

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 41.



Setting your own color profile



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

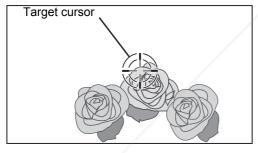
| PROFILE | | NORMAL | |
|----------------|---------|--------|----------|
| CURSOR | | | |
| LOG | | | |
| PROFILE SAVE | | | |
| PROFILE DELETE | | | |
| PROFILE NAME C | HANG | iΕ | |

Create a new profile

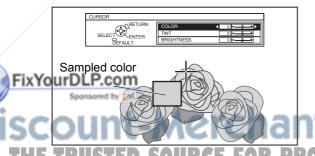
Adjusting the selected color

Select a color and adjust **COLOR**, **TINT** and **BRIGHTNESS**.

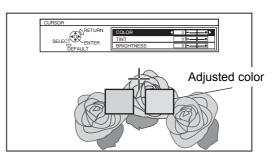
- 1. Select the **CURSOR** menu and press **ENTER**.
 - The projected image is captured, and the target cursor is displayed.
 - When the LOG is fully stored, the target cursor will not be displayed. See "Managing stored logs" on page 26.



- 2. Move the cursor with ▲ ▼ ◀ ▶ 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.



- - The result box is displayed on the right of the cursor and shows the adjusted color.



| COLOR | Adjust the vividness of the color. Setting range: -30 to +30 |
|------------|--|
| TINT | Adjust the color tone. Setting range: -30 to +30 |
| BRIGHTNESS | Adjust the brightness of the color. Setting range: -20 to +20 |

- 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.
- 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.

| PICTURE MODI | E : CINEM | A1 | |
|--------------|-----------|-----|-----|
| POINT1 | 0 | 0 | +2 |
| POINT2 | -1 | 0 | -2 |
| POINT3 | 0 | +10 | 0 |
| POINT4 | -10 | +10 | -10 |
| POINT5 | -6 | +5 | +7 |
| POINT6 | +3 | -3 | +1 |
| POINT7 | 0 | +7 | +9 |
| POINT8 | -1 | +14 | -4 |
| ALL DELETE | | | |

Sampled color — Adjusted color

- 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. Solution 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.

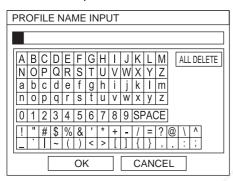
Saving a log setting as a profile

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

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

| USER1 | |
|-------|--|
| USER2 | |
| USER3 | |

- 2. Press ENTER to save the profile
 - The confirmation screen is displayed. Press ENTER again to save.
- 3. Use ▲ ▼ ◀ ▶ to specify the location of the required character to enter and press the ENTER button.
 - You can enter up to 14 characters.



- 4. Repeat step 3 until you finish the text line.
 - Move cursor to ALL DELETE and press the ENTER button to delete all the entered text line.
 - Press the **DEFAULT** button to delete the last entered character or indicated with cursor in the text box.
 - To insert a character in the entered text line, move the cursor to the text box to select the required place and press ▼ then perform step 4.
- 5. Select **OK** and press the **ENTER** button to set the entered text as a name.
 - Press the ENTER button without entering any text to keep the default name.

Deleting the saved profiles

You can delete the profiles from **PROFILE DELETE** menu.

- Select PROFILE DELETE and press the ENTER button.
- Select the required profile or ALL DELETE and press the ENTER button.
 - The confirmation screen will be displayed and select OK

Changing the profile names

You can change the name of the profiles from the **PROFILE NAME CHANGE** menu.

- Select PROFILE NAME CHANGE and press the ENTER button.
- 2. Select the required profile and press the **ENTER** button.
- 3. Use ▲ ▼ ◀ ► to specify the location of the required character to enter and press the ENTER button.
- 4. Select **OK** and press the **ENTER** button to set the entered text as a name.

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**.

- Select the required PICTURE MODE and press ENTER.
- 2. Press the **COLOR M.** 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**.

| NORMAL | Return to the default setting of the PICTURE MODE menu. |
|--------|--|
| USER1 | |
| USER2 | Defined profile settings. |
| USER3 | |

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 Gray 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.

Press the ENTER button (CC) 281-8860

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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 \blacktriangle \blacktriangledown \blacktriangleright \blacktriangleleft buttons.

Main menu and sub-menu

NOTE:

- · Some default settings vary by the selected input signal.
- · Sub-menu items vary according to the selected input signal.
- · Some settings are adjustable without any signals.

| Main menu | Sub-menu | Options | (Underlined | is default | setting) | Page |
|--------------|-------------------|--------------------------------|-------------|------------|--------------------------------|----------------|
| PICTURE | PICTURE MODE | NORMAL | DYNAMIC | | COLOR1 | page 31 |
| | | COLOR2 | CINEMA1 | | CINEMA2 | |
| | | CINEMA3 | | | | |
| | CONTRAST | Default: 0 | | | | page 31 |
| | BRIGHTNESS | Default: 0 | | | | page 31 |
| | COLOR | Default: 0 | | | | page 31 |
| | TINT | Default: 0 | | | | page 31 |
| | SHARPNESS | Default: 0 | | | | page 31 |
| | COLOR TEMPERATURE | Default: 0 | | | | page 32 |
| | DYNAMIC IRIS | <u>ON</u> | OFF | | | page 32 |
| | WAVEFORM MONITOR | <u>OFF</u> | | GLE LINE | • • | page 32 |
| | | FULL SCAN(Y) | | GLE LINE | • • | |
| | | FULL SCAN(R) | | GLE LINE | • • | |
| | | FULL SCAN(G) | | GLE LINE | • • | |
| | | FULL SCAN(B) | | NITOR PO | | |
| | | / | AU1 | O ADJUS | <u> </u> | |
| | SPLIT ADJUST | AREA SELECT | | | | page 32 |
| | | SPLIT ADJUST MO | | NORM | | |
| | ADVANCED MENU | GAMMA | GAMMA H | | Default: 0 | page 33 |
| | | | GAMMA M | | Default: 0 | |
| | | | GAMMA L | | Default: 0 | |
| | | CONTRAST | CONTRAS | | Default: 0 | |
| | | | CONTRAS | | Default: 0 | |
| | | | CONTRAS | | Default: 0 | |
| | | BRIGHTNESS | BRIGHTNE | | Default: 0 | |
| | | | BRIGHTNE | SS G | Default: 0 | |
| | | | BRIGHTNE | SS B | Default: 0 | |
| | | COLOR MANAGEN | MENT PRO | FILE | | |
| | | | CUF | RSOR | | |
| | | | LOC | | | |
| | | | | OFILE SAV | | |
| | | | | OFILE DEL | | |
| | | 1/00 | | | ME CHANGE | |
| | | XVYCC | ON ON | | OFF | 1 |
| FixYourDLP.o | | DETAIL CLARITY | <u>ON</u> | | OFF | _ |
| Spansared | B√ DW | NR MPEG NR | | ON ON | OFF OFF | - |
| iccour | t_Merch | CINEMA REALITY | m / | ON ON | OFF - | 3860 |
| ISCOU | nt-Mercha | TV-SYSTEM | AUTO | 211 | 7 20 1~C | |
| THE TRUST | FED SOURCE FOR | PROJECTOR | SECAM | PAL-N | ACPAL-MSOR | IES |
| 1111 111491 | - Sooner ran | | PAL | NTSC 4 | | |
| | MEMORY SAVE | MEMORY1 - 16 | 1 | | | page 34 |
| | MEMORY LOAD | MEMORY1 - 16 | | | | page 34 |
| | MEMORY EDIT | MEMORY DEL | MEI | MORY NA | ME CHANGE | page 35 |
| | SIGNAL MODE*1 | 1 | | | | page 35 |
| | JOINTAL MODE | | | | | 12 3 3 3 3 3 3 |

^{*1.} COMPUTER/COMPONENT/HDMI signals only

| Main menu | Sub-menu | Options (Underlined is default setting) | Page |
|---|---------------------|---|---------|
| POSITION | H-POSITION | Default: 0 | page 36 |
| _ | V-POSITION | Default: 0 | page 36 |
| | DOT CLOCK*1 | Default: 0 | page 36 |
| | CLOCK PHASE*2 | Default: 0 | page 36 |
| | ASPECT | 4:3 16:9 14:9 | page 36 |
| | | ZOOM1 ZOOM2 JUST | |
| | WSS*3 | | page 38 |
| | OVER SCAN*4 | Default: 0 | page 38 |
| | KEYSTONE | Default: 0 | page 38 |
| | AUTO SETUP*5 | | page 38 |
| ENS CONTROL | ZOOM/FOCUS | | page 39 |
| | | | |
| UNCTION | BUTTON1 | | page 39 |
| BUTTON | BUTTON2 | | |
| • | BUTTON3 | | |
| E | | | |
| ANGUAGE | | | |
| | | 1/2 | 2/2 |
| | DEUTSCH | POLSKI | |
| | FRANÇAIS ESPAÑOL | ČEŠTINA MAGYAR | |
| | ITALIANO | РУССКИЙ | |
| | PORTUGUÊS | ไทย | |
| | SVENSKA | 한국어 | |
| | NORSK | ● ENGLISH | |
| | DANSK | 中文 | |
| | | V | |
| OPTION | INPUT GUIDE | DETAILED SIMPLE OFF | page 40 |
| | OSD DESIGN | TYPE1 TYPE2 TYPE3 | page 40 |
| M | OSD POSITION | UPPER LEFT UPPER CENTER UPPER RIGHT | page 40 |
| | | CENTER | |
| | | LOWER LEFT LOWER CENTER LOWER RIGHT | |
| | BACK COLOR | BLUE BLACK | page 40 |
| | STARTUP LOGO | ON OFF | page 40 |
| | AUTO SEARCH | ON OFF | page 40 |
| | HDMI SIGNAL LEVEL | NORMAL EXPAND | page 40 |
| | FRAME RESPONSE | NORMAL FAST | page 40 |
| | INSTALLATION | FRONT/DESK FRONT/CEILING REAR/DESK REAR/CEILING | page 41 |
| | SLEEP | OFF 60MIN. 90MIN. 120MIN. | page 41 |
| | JLEEF | 150MIN. 180MIN. 210MIN. 240MIN. | paye 41 |
| | ALTITUDE | LOW HIGH | page 41 |
| CivVeDI C | | NORMAL ECO-MODE | page 41 |
| FixYourDLP | LAMP RUNTIME | | page 41 |

- *1. COMPUTER signals only
 *2. COMPUTER/COMPONENT signals only
 *3. VIDEO/S-VIDEO/COMPONENT signals only

 - PROJECTOR LAMPS AND ACCESSORIES *4. Not available with COMPUTER signals F . *5. COMPUTER signals only

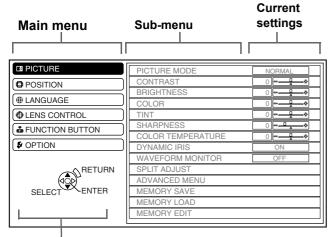
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Navigating through the MENU

Displaying the main menu



Press the **MENU** button to display the main menu and the operating guidance.

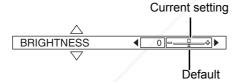


Operating guidance

Contains the required buttons to adjust the settings.

Adjusting with the bar scale items

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



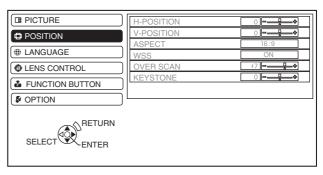
Returning to the previous menu



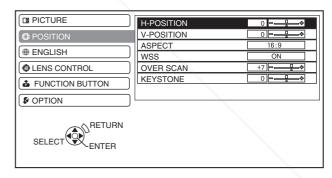
Press the **MENU** or **RETURN** button to return to the previous menu. Press repeatedly to escape from the menu mode and return to the projection.

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 "Main menu and sub-menu" on page 28.



- 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. Called up item will be disappear after 5 seconds and return to the menu mode.
 - If there is a lower level, the next level will be displayed.



- 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 ◀ ►.



 Press MENU or RETURN to return to the previous menu.

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See "Resetting to the factory default settings" on page 22 to reset each menu items.

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PICTURE menu

Remote control

Control panel

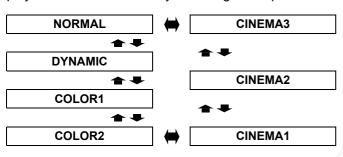




- See "Navigating through the MENU" on page 30.
- See "Main menu and sub-menu" on page 28.

PICTURE MODE

Depending on the projection environment, you can use these preset parameter settings to optimize image projection. Press ◀ ▶ to cycle through the options.



| NORMAL | Setting for a general image, such as sports or games |
|---------|---|
| DYNAMIC | Bright and sharp setting |
| COLOR1 | Setting for HDTV standard in ITU-R BT. 709 and color temperature 6 500 K at the default setting of the PICTURE menu items. |
| COLOR2 | Setting for DCDM standard (SMPTE431-2) and color temperature 6 300 K at the default setting of the PICTURE menu items. |
| CINEMA1 | Hollywood style colors |
| CINEMA2 | Deeper and more rich color setting |
| CINEMA3 | Vivid and crisp color setting |

NOTE:

 It may take for a while until the selected mode is stabilized.



CONTRAST

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

Lower



Higher

• Setting range: -64 to +64

BRIGHTNESS

You can adjust the brightness of the projected image.

Darker



Brighter

• Setting range: -32 to +32

COLOR

You can adjust the color saturation of the projected image.

Lighter



Darker

- Setting range: -32 to +32
- When COMPUTER signal is connected, only available with the following signals.

TINT

You can adjust the skin tone in the projected image.

More reddish



More greenish

- Setting range: -32 to +32
- When COMPUTER signal is connected, only available with the following signals.

SHARPNESS

You can adjust the sharpness of the projected image.

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Less S sharp



More RIES

 Setting range will vary according to the selected input signal.

COLOR TEMPERATURE

You can adjust the white balance of the projected image.

Less bluish



More bluish

• 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

WAVEFORM MONITOR

You can monitor whether or not the luminance level of the input signal is in the recommended range by displaying it in the waveform monitor. If the waveform is not in the range, adjust it for the best quality. See "Adjusting the signal condition with a waveform" on page 24.

| • | OFF |
|---|-------------------------------|
| | FULL SCAN(Y) |
| | FULL SCAN(R) |
| | FULL SCAN(G) |
| | FULL SCAN(B) |
| | SINGLE LINE SCAN(Y) |
| | SINGLE LINE SCAN(R) |
| | SINGLE LINE SCAN(G) |
| | SINGLE LINE SCAN(B) |
| | MONITOR POSITION UPPER LEFT |
| | AUTO ADJUST |

- 1. Press ▲ ▼ to move to the required waveform style.
- 2. Press ENTER to select.
 - The WAVEFORM MONITOR will be displayed.
 - See "Adjusting the signal condition with a waveform" on page 24.

MONITOR POSITION

When the **FULL SCAN** is selected, press ▲ ▼ ◀ ▶ to adjust the position of the monitor.

- - See "Adjusting the signal condition with a waveform" on page 24.

AUTO ADJUST

You can switch on/off the automatic adjustment system in each items.

| Items | Default setting |
|--------------------|-----------------|
| BLACK LEVEL ADJUST | ON |
| WHITE LEVEL ADJUST | ON |
| RGB ADJUST (BLACK) | OFF |
| RGB ADJUST (WHITE) | OFF |

- 1. Press ▲ ▼ and select the required item.
- 2. Press ◀ ▶ and switch on/off.
- 3. Press ▲ ▼ and select AUTO and press ENTER.
 - The confirmation screen will be displayed.
- 4. Press ◀ ▶ and select **OK**.
- 5. Press ENTER.

NOTE:

• When the WAVEFORM MONITOR is set to OFF, the AUTO ADJUST is not displayed.

SPLIT ADJUST

You can perform image adjustment in some PICTURE menu items while displaying a certain area of the frozen image in a split window.

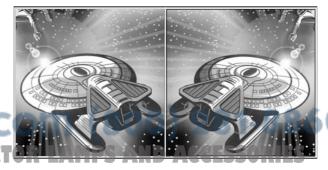
SPLIT ADJUST MODE

Select the required split style from NORMAL and REVERSE in the SPLIT ADJUST MODE menu.

NORMAL



REVERSE

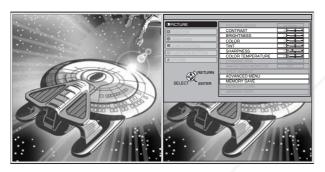


Adjusting the image in a split window

- 1. Select AREA SELECT and press the ENTER button.
 - The image will be frozen and the area cursor will be displayed.



- Press ◀ ► to move the area cursor to select the required area and press the ENTER button.
 - The selected frozen image will be displayed in a split
- 3. Press the **MENU** to display the **PICTURE** menu on the right.



- 4. Adjust the required PICTURE menu items.
 - The Other menu items are not available.
 - Sub-menu items vary according to the selected input signal. See "Main menu and sub-menu" on page 28.
- 5. Press MENU/RETURN button several times to escape from the menu.
- 6. Press the ENTER button.
 - The confirmation screen will be displayed. Select OK to finish the adjustment.
- 7. Press the **ENTER** button.

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- Press the ENTER button again to return to the AREA SELECT.
- Press the **RETURN** button escape from the **SPLIT** ADJUST mode.

ADVANCED MENU

You can perform more detailed image adjustment manually.

GAMMA

You can adjust linear intensity at 3 levels. Press ◀ ▶ to increase/decrease 1 point.

| Levels | Default setting |
|------------|-----------------|
| GAMMA HIGH | 0 |
| GAMMA MID | 0 |
| GAMMA LOW | 0 |

Setting range: -8 to +8

CONTRAST

You can adjust the amount of contrast in RGB colors individually. Press

▶ to increase/ decrease 1 point.

| RGB | Default setting |
|------------|-----------------|
| CONTRAST R | 0 |
| CONTRAST G | 0 |
| CONTRAST B | 0 |

Setting range: -32 to +32

BRIGHTNESS

You can adjust the brightness in RGB colors individually. Press ◀ ▶ to increase/decrease 1 point.

| RGB | Default setting |
|--------------|-----------------|
| BRIGHTNESS R | 0 |
| BRIGHTNESS G | 0 |
| BRIGHTNESS B | 0 |

Setting range: -16 to +16

NR (Noise Reduction)

You can switch the automatic noise reduction system on/off. Press ◀ ▶ to select the required setting.

ON: Automatic noise reduction • OFF: No noise reduction

MPEG NR

You can switch the automatic noise reduction system for MPEG format images on/off. The system minimize block noise and mosquito noise to eliminate jagged edges, providing an overall smoother image. Press ◀ ▶ to select the required settina.

ON: Active OFF: Deactive

 MPEG NR system is not available with COMPUTER/ HDMI (VGA60) signals.



COLOR MANAGEMENT

You can manage your own defined color settings. See "Setting your own color profile" on page 26.

xvYCC

You can switch on/off the automatic adjustment system for signals which complied with xvYCC.

ON: ActiveOFF: Deactive

NOTE:

 xvYCC adjustment system is only available with HDMI signals in COLOR1 of PICTURE MODE menu.

DETAIL CLARITY

You can switch on/off the automatic detail clarity system.

ON: ActiveOFF: Deactive
CINEMA REALITY

You can switch the automatic image synchronizer on/off for 24 frames a second images, such as movies. Press ◀ ▶ to select the required setting.

ON: ActiveOFF: Deactive

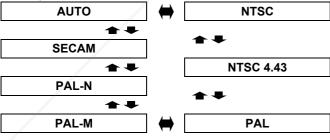
NOTE:

 CINEMA REALITY is effective only with interlace signals.

TV-SYSTEM

When the video signal is changed, the setting switches automatically.

You can switch the setting manually to match the video data. Press ◀ ▶ to cycle through the options.



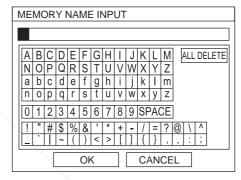
NOTE:

PAL60/PAL-M/PAL-N/SECAM.

MEMORY SAVE

You can save and name the adjusted **PICTURE** menu settings for instant access from **MEMORY LOAD** menu.

- 1. Adjust the items in PICTURE menu.
- Select MEMORY SAVE and press the ENTER button.
- 3. Select the required memory setting and press the **ENTER** button.
 - The confirmation screen will be displayed. Select OK and press the ENTER button.
 - Indicated with ★ is in use, and ☆ is empty.
- Use ▲ ▼ ◀ ► to specify the location of the required character to enter and press the ENTER button.
 - You can enter up to 16 characters.



- 5. Repeat step 4 until you finish the text line.
 - Move the cursor to ALL DELETE and press the ENTER button to delete all the entered text line.
 - Press the **DEFAULT** button to delete the last entered character or indicated with cursor in the text box.
 - To insert a character in the entered text line, move the cursor to the text box to select the required place and press ▼ then perform step 4.
- 6. Select **OK** and press the **ENTER** button to set the entered text as a name.

NOTE:

• If you leave the text box empty and save, the default memory number will stay as a name.

MEMORY LOAD

You can access the saved settings instantly. See "Loading a saved setting" on page 23.

- 1. Select a setting from MEMORY1 16.
 - Undefined settings will not be selectable.
- 2. Press ENTER to activate.

NOTE:

If you have not saved any settings, MEMORY1 - 16 will not be displayed.

MEMORY EDIT

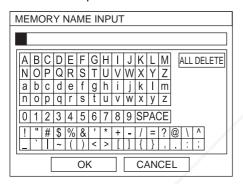
You can edit the named memory settings.

Deleting a memory setting

- Select MEMORY DEL and press the ENTER button
- 2. Select the required memory setting and press the **ENTER** button.
 - If you select ALL DELETE, you can delete all of the saved memory settings.
- 3. Select **OK** in the confirmation screen and press the **ENTER** button.

Changing the name of the memory setting

- 1. Select the required memory setting and press the **ENTER** button.
- Use ▲ ▼ ◀ ► to specify the location of the required character to enter and press the ENTER button.
 - You can enter up to 16 characters.



- 3. Repeat step 4 until you finish the text line.
 - Move the cursor to ALL DELETE and press the ENTER button to delete all the entered text line.
 - Press the **DEFAULT** button to delete the last entered character or indicated with cursor in the text box.
 - To insert a character in the entered text line, move the cursor to the text box to select the required place and press ▼ then perform step 4.
- 4. Select **OK** and press the **ENTER** button to set the entered text as a name.

NOTE:

 If you have not saved any settings, MEMORY1 - 16 will not be displayed.



SIGNAL MODE

The current selected signal will be displayed. This is available with signals from **COMPUTER IN**/ **COMPONENT IN/HDMI IN** only.

NOTE:

· See "List of compatible signals" on page 47.

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POSITION menu

Remote control

Control panel





- See "Navigating through the MENU" on page 30.
- See "Main menu and sub-menu" on page 28.

H-POSITION

You can move the projected image horizontally for fine adjustment.

Move left



Move right

V-POSITION

You can move the projected image vertically for fine adjustment.

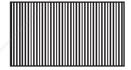
Move down



Move up

DOT CLOCK

If you have interference patterns of the projected image, which is sometimes referred to as moire or noise, you can minimize it by pressing ◀ ▶ to adjust the clock frequency. (Available with signals from **COMPUTER IN** only)



NOTE:

- If the projecting signal's dot clock frequency is higher than 150 MHz, the adjustment may not make a difference.
- DOT CLOCK needs to be adjusted before adjusting the FIX CLOCK PHASE.

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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. (Available with signals from **COMPUTER IN/COMPONENT IN** only)

NOTE:

- If the projecting signal's dot clock frequency is higher than 150 MHz, the adjustment may not make a difference.
- Available signals from COMPONENT IN:
 1 125 (1 080)/60i, 1 125 (1 080)/50i, 1 125 (1 080)/60p,
 1 125 (1 080)/50p, 1 125 (1 080)/24p, 750 (720)/60p

ASPECT

You can switch the aspect ratio manually when needed.

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 → ZOOM1 → ZOOM2 → JUST AUTO → 4:3 → 16:9 → JUST → ZOOM NTSC signal |
|----------------------|--|
| COMPUTER (RGB) | 4:3 → 16:9 4:3 → 16:9 VGA or SVGA signals Not switchable WIDE480/600/720/768/768-2/800/900 signals |
| НОМІ | 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 |
| COMPONENT (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 |

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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.

| Original size | | 4:3 | Squeeze signal | 16:9 Letter box | 14:9 Letter Box | 2.35:1 Cinescope |
|----------------|---|--------------------------------|-------------------|--------------------|---|---------------------|
| | | | 00 00 | 00 00 | | 000 000 |
| 4:3 | Projects at 4:3. | ${}^{\circ}_{\circ}{}^{\circ}$ | 00 00 | 00 00 | | 000 000 |
| 16:9 | Adjusts horizontally to 16:9. | | 00000 | | | 000 000 |
| JUST | Adjusts horizontally to fit 16:9. Closer to edge, more enlarged. Not available with COMPUTER signals. | | 00 00 | 00 00 | ${\overset{\circ}{\circ}} {\overset{\circ}{\circ}}$ | 000 000 |
| ZOOM/ ZOOM1 | Adjusts to 16:9 size with preserving original ratio. Escape the menu mode and press ▲ ▼ to adjust vertically. | | | 00 00 | | 000 000 |
| ZOOM2 | Adjusts to cinescope size not including letter box. Escape the menu mode and press ▲ ▼ to adjust vertically. | | | | | 100000 |
| 14:9 | Adjusts to 14:9. | | 00 00 | 00 00 | | 000 000 |

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

| | / | 4:3 | 16:9 | Cinescope |
|---------------|---|--|-------|-----------|
| Original Size | | ${}^{\circ}_{\circ}{}^{\circ}_{\circ}$ | 00 00 | 000 000 |
| H - FIT | Adjusts horizontally to 16:9. | | 20000 | 000 000 |
| V - FIT | Adjusts to 16:9 vertically. Escape and press ▲ ▼ to scroll the image to adjust the edge vertically. | | | 000 000 |
| FixYourDLP | Adjusts to 16:9 size with preserving original ratio. Escape the menu mode and press ▲ ▼ to adjust vertically. | | | 000 000 |

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WSS

WSS (Wide Screen Signalling) detects if a **PAL**/625p (576p)/625i (576i) signal is input and that signal has an identification signal, and switch the aspect ratio to required setting automatically. 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.

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

Shrink



Enlarge

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.

| Image | Operation |
|-------|-----------|
| | ENTEN D |
| | (EUTE) |

• Setting range: -32 to 32

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 the lens shift adjustment.
- The distortion of the main menu screen is not correctable.
- The result of the keystone correction will affect the aspect ratio and the size of the image.

AUTO SETUP

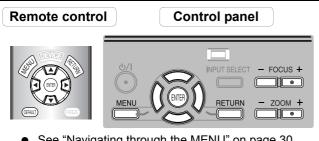
You can adjust V - POSITION, H - POSITION, DOT CLOCK and CLOCK PHASE automatically when connecting via COMPUTER IN. Press ENTER to adjust these at the same time.



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ENS CONTROL

FUNCTION BUTTON



- See "Navigating through the MENU" on page 30.
- See "Main menu and sub-menu" on page 28.

ZOOM/FOCUS

You can use the 2 different test patterns to adjust the focus and zoom of the image. See "Lens shift and positioning" on page 16.

- 1. Press **ENTER** to display test pattern 1.
 - Press ▲ ▼ to adjust the focus and ◀ ► to adjust the zoom.



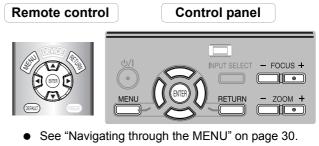
- 2. Press **ENTER** to display test pattern 2.
 - Press ▲ ▼ to adjust the focus and ◀ ► to adjust the zoom.



- 3. Press **ENTER** to display the projected image.
 - You can confirm the adjustment is fit to the projected image.
- 4. Press MENU or RETURN to return to the previous menu, or press repeatedly to escape the menu mode.

NOTE:

- · 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.



See "Main menu and sub-menu" on page 28.

BUTTON1/2/3

You can assign certain menu options to the 3 function buttons for instant operation.

- 1. Select the required button from **BUTTON1**, BUTTON2 or BUTTON3 and press the ENTER
- 2. Press ▲ ▼ ◀ ▶ to select the required menu options and press the ENTER button.

| HDMI 1 IN | NORMAL |
|----------------|-------------------------|
| HDMI 2 IN | DYNAMIC |
| HDMI 3 IN | COLOR1 |
| COMPUTER IN | COLOR2 |
| COMPONENT 1 IN | CINEMA1 |
| COMPONENT 2 IN | CINEMA2 |
| S-VIDEO IN | CINEMA3 |
| VIDEO IN | SPLIT ADJUST |
| BLANK | WAVEFORM AUTO ADJUST |
| AUTO SETUP | MEMORY LOAD |
| CONTRAST | BRIGHTNESS |
| CONTRAST R | BRIGHTNESS R |
| CONTRAST G | BRIGHTNESS G |
| CONTRAST B | BRIGHTNESS B |

BLANK function

You can stop the projection temporary for electrical power save. Press any button except the **LIGHT** and learning remote control buttons.

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OPTION menu

Remote control

Control panel





- See "Navigating through the MENU" on page 30.
- See "Main menu and sub-menu" on page 28.

INPUT GUIDE

When you change the input method, the guidance appears in the upper right corner of the screen. The following display methods are available. Press ◀ ▶ to cycle through the options.

| Options | Function |
|----------|--|
| OFF | Turn off the guidance. |
| SIMPLE | Display the input method by text. The INPUT GUIDE will go out after 5 seconds without any operation. |
| DETAILED | Display the input method by graphic. The INPUT GUIDE will go out after 10 seconds without any operation. |

OSD DESIGN

You can change the background color of the menu. Press ◀ ▶ to cycle through the options.

• TYPE1 Semi transparent black

• TYPE2 Solid blue

• TYPE3 Semi transparent dark blue

OSD POSITION

You can change the position where to display the menu. Press ◀ ► to cycle through the options.

UPPER I FFT UPPER CENTER UPPER RIGHT

CENTER



LOWER RIGHT

BACK COLOR

You can choose a screen color from **BLUE** or **BLACK** for when the projector is in idle. Press ◀ ▶ to select.

STARTUP LOGO

You can switch the logo on/off that is displayed when starting up the projector. Press ◀ ► to select the required option. **STARTUP LOGO** will be displayed for 30 seconds.

ON ActiveOFF Deactive

AUTO SEARCH

When the projector is turned on, the input terminals are detected and an input signal is selected automatically. You can switch the system on/off. Press ◀ ► to cycle through the options.

ON ActiveOFF Deactive

NOTE:

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

HDMI SIGNAL LEVEL

When an **HDMI IN** is selected, you can switch the **HDMI** signal **NORMAL** or **EXPAND** to display the image. Press

◆ to select an option.

NORMAL
 EXPAND
 For general HDMI equipment
 For HDMI equipment with expanded

signals.

NOTE:

HDMI SIGNAL LEVEL is not available with some equipment.

FRAME RESPONSE

You can minimize the time delay of image displaying for the interlace signals.

NORMAL Prioritize the image quality
 FAST Prioritize the frame response

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INSTALLATION

When installing the projector, select the projection method according to the projector position. Press ◀ ► to cycle through the options. See "Projection method" on page 15.

| FRONT/DESK | Setting on a desk/floor and projecting from front |
|---------------|---|
| FRONT/CEILING | Mounting in the ceiling and projecting from front |
| REAR/DESK | Setting on a desk/floor and projecting from rear |
| REAR/CEILING | Mounting in the ceiling and projecting from rear |

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 ◀ ► to cycle through the options. See "Switching off the projector automatically" on page 25.

ALTITUDE

If you use the projector at high elevation, the **ALTITUDE** setting need to be **HIGH** to set the fan speed high. Press

- ◆ to select the required option.
 - LOW The fan speed is low.HIGH The fan speed is high.

NOTE:

- At 1 400 m (4 593 ft) above sea level, the setting must be HIGH.
- The loudness of fan noise depends on the ALTITUDE setting.

LAMP POWER

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

| Options | Function |
|----------|-------------------------------------|
| NORMAL | When higher luminance is required. |
| ECO-MODE | When lower luminance is sufficient. |

NOTE:

 When no input signal is detected, the function is disabled.

LAMP RUNTIME

You can check how long the lamp has been used.

NOTE:

 LAMP RUNTIME is a relevant matter for lamp replacement timing. See "Replacing the lamp unit" on page 44.



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TEMP and LAMP Indicators

Managing the indicated problems

If a problem should occur with the projector, the **LAMP** and/or **TEMP** indicators will inform you. Manage the indicated problems as follow.

- 1. Confirm the status of all indicators and projector, and switch off the projector in proper way.
- 2. Find out the cause of the problem by status of the **LAMP** and/or **TEMP** indicators.
- 3. Follow the following instruction for each indication 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

| Indicator | Illuminating red | ● Flashing red | | |
|-----------|---|--|--|---|
| Problem | LAMP RUNTIME has reached 1 800 hours. | The lamp circuit failure, abnormal function or lamp unit is damaged. | | |
| Cause | The lamp unit will run out soon and needs to be replaced. | The MAIN POWER is switched on again before the lamp unit is cooled enough. | The lamp circuit failure, abnormal function. | The lamp unit is damaged. |
| Remedy | See "Replacing the lamp unit" on page 44. | Let the lamp unit cool down and turn on the MAIN POWER. | Contact an Authorized Service Center. | See "Replacing the lamp unit" on page 44. |

TEMP indicator

| In | dicator | Illuminating red and still Flashing red and the PC | | | |
|----|---------|---|---|--|--|
| Pı | roblem | The temperature inside and/or outside the projector is abnormally high. | | | |
| C | Cause | The ventilation openings are covered. | The room temperature is too high. | The air filter is excessively dirty and the ventilation is poor. | The projector is located at high elevations (above 1 400 m). |
| R | emedy | Remove the object(s) from the ventilation openings or clear around the projector. | Reinstall the projector in temperature controlled place. See page 52. | Replace the air filter in the proper method. See page 43. | Turn on the projector and set the ALTITUDE to HIGH. See page 41. |

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Mainten

Care and Replacement

Cleaning the projector

Before cleaning the projector

- Switch off the MAIN POWER switch in proper way and disconnect the power plug from the wall outlet.
- Unplug all the cables from the 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. Place a finger at the bottom of the air filter
- 2. Slightly push up and pull out 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. A replacement air filter is provided with a replacement lamp unit, ET-LAE1000. Contact an Authorized Service Center for the optional air filter.



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Replacing the lamp unit

Before replacing the lamp unit

- Switch off the MAIN POWER button in proper way and disconnect the power plug from the wall outlet.
- Make sure the lamp unit and the surroundings are cooled enough.
- Unplug all the cables from the projector.
- Prepare a Phillips-head screwdriver.
- Contact an Authorized Service Center to purchase a replacement lamp unit (ET-LAE1000).
- When the projector is mounted in the ceiling, do not work directly under the projector or put your face closer to the projector.

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 inform you of the replacement timing at 1 800 hours, and at 2 000 hours, the projector will be turned off. Those figures are 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.

| | On screen | LAMP indicator |
|------------------|---|------------------|
| Indication | REPLACE LAMP | |
| | | LAMP |
| Over 1 800 hours | "REPLACE LAMP" is displayed on the upper left of the screen for 30 seconds. To clear the screen immediately, press any button. | Illuminates red. |
| Over 2 000 hours | "REPLACE LAMP" is displayed on the upper left of the screen, and it will stay until you respond. To clear the screen, press any button. | |

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 41.
- For more information about the lamp unit, such as guaranteed time, see the instructions which is provided with the lamp

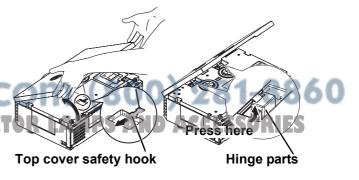
Opening the top cover

- 1. Hold at the back corner of the top cover and slightly push up to open.
- 2. Unhook the top cover safety hook from the

- 3. Hold the top cover up and press one of the buttons of the hinge parts each to remove.
 - · When the projector is mounted in the ceiling, removing the hinge parts is not required.
- 4. Remove the top cover aside.

NOTE: When the projector is mounted in the ceiling;

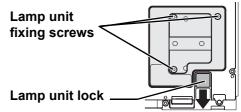
- · Place yourself at back side of the projector, then open and close the top cover.
- Do not work directly under the projector or put your face closer to the projector.



Maintenance

Removing and replacing the lamp unit

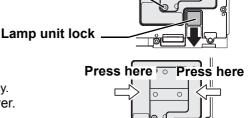
- 1. Use a Phillips screw driver to loosen the 3 lamp unit fixing screws until the screws turn freely.
- 2. Hold the handle of the lamp unit and release the lamp unit lock.
- 3. Pull out the lamp unit gently from the projector.



- 4. Replace the new lamp unit while making sure that the direction of insertion is correct.
 - Press the top of the lamp unit and make sure the unit is installed securely.
- 5. Tighten the lamp unit fixing screws securely with a Phillips screwdriver.

Attaching the top cover

- Attach the hinge parts of the top cover to the projector and press slightly until it clicks.
 - When the projector is mounted in the ceiling, attaching the hinge parts is not required.
- 2. Hook the top cover safety hook to the projector.
- 3. Hooking the tabs of the top cover to the front of the projector and lift down slowly.
- 4. Press the back corner of the top cover gently until it clicks.
 - Make sure to hook the top cover safety hook to the body.





NOTE:

- Be sure to install the lamp unit and the top cover of the projector 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 and keep the lamp unit paralleled when you remove the lamp unit. Some parts of the lamp unit are sharpened and may cause injury.
- Do not switch the power on while the top cover is opened.
- When the projector is mounted in the ceiling, keep the lamp unit paralleled up and remove.

Resetting the LAMP RUNTIME

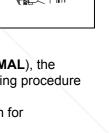
If the lamp usage time has passed 2 000 hours (when **LAMP POWER** has been set to **NORMAL**), the projector will switch to standby mode after approximately 10 minutes of operation. The resetting procedure should thus be completed within 10 minutes.

- 1. Connect the power cord to the projector and a wall outlet, and switch the **MAIN POWER** on.
- 2. Switch the POWER button.
- 3. Press the **MENU** button to display the menu.
- 4. Press ▲ ▼ to select **OPTION** and press **ENTER**.
- 5. Press ▲ ▼ to select LAMP RUNTIME.



- 6. Press and hold the **ENTER** button for approximately 3 seconds.
- 7. The confirmation screen will be displayed and select **OK**.
- 8. Switch off the **POWER** button to reset the duration of the **LAMP RUNTIME**.
- Confirm the duration of time in LAMP RUNTIME is reset to "0".





Mainte

Troubleshooting

Should any problem persist, contact your dealer.

| Problem | Cause | Reference page |
|--|---|----------------------------------|
| Power does not turn on. | The power cord may not be connected. The MAIN POWER switch is turned off. No electric supply is at the wall outlet. TEMP indicator is lit or flashes. LAMP indicator is lit or flashes. The lamp unit cover has not been securely installed. The circuit breakers have tripped. | 19 20 19 42 42 44 |
| No picture appears. | The video signal input source may not be connected to a terminal properly. The input selection setting may not be correct. The BRIGHTNESS adjustment setting may be at the minimum setting. The SHUTTER function may be in use. The lens cover may still be attached to the lens. | 18 23 31 39 12 |
| The picture is fuzzy. | The lens focus may not have been set correctly. The projector may not be at the correct distance from the screen. The lens may be dirty. The projector may be tilted too much. | 21 14 10 16 |
| The color is pale or grayish. | COLOR or TINT adjustment may be incorrect. The input source which is connected to the projector may not be adjusted correctly. | 31 28 |
| The Remote control does not operate. | The batteries may be weak. The batteries may not have been inserted correctly. The remote control signal receptor on the projector may be obstructed. The remote control unit may be out of the operation range. | - 11 22 22 |
| The picture does not display correctly. | The signal format (TV-SYSTEM) may not have been set correctly. There may be a problem with the VCR or other signal source. A signal which is not compatible with the projector is being input. | 34 - 47 |
| Picture from a computer does not appear. | The cable may be longer than the optional cable. The external video output from a laptop computer may not be correct. (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.) | - 48 |



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Appendi

Technical Information

List of compatible signals

| Mode | Display | Display | Display Scanning frequency | | Dot clock frequency | Picture | Terminals |
|--------------------------------|-----------|----------------|----------------------------|--------|------------------------|-----------------------|------------------|
| | ыѕріау | (dots)*1 | H (kHz) | V (Hz) | (MHz) | quality ^{*2} | rerminais |
| NTSC/NTSC 4.43/ PAL-M/PAL60 | - | 720 x 480i | 15.7 | 59.9 | - | Α | VIDEO/S-VIDEO |
| PAL/PAL-N/SECAM | - | 720 x 576i | 15.6 | 50.0 | - | Α | |
| 525i (480i) | 525i | 720 x 480i | 15.7 | 59.9 | 13.5 | Α | COMPONENT |
| 625i (576i) | 625i | 720 x 576i | 15.6 | 50.0 | 13.5 | Α | COMIT CITELLI |
| 525p (480p) | 525p | 720 x 483 | 31.5 | 59.9 | 27.0 | Α | COMPONENT/HDMI |
| 625p (576p) | 625p | 720 x 576 | 31.3 | 50.0 | 27.0 | Α | OOMI ONLIVITIDMI |
| 1 125 (1 080)/60i | 1 125/60i | 1 920 x 1 080i | 33.8 | 60.0 | 74.3 | AA | COMPONENT/ |
| 1 125 (1 080)/50i | 1 125/50i | 1 920 x 1 080i | 28.1 | 50.0 | 74.3 | AA | HDMI/COMPUTER |
| 1 125 (1 080)/24p | 1 125/24p | 1 920 x 1 080 | 27.0 | 24.0 | 74.3 | AA | COMPONENT/HDMI |
| 1 125 (1 080)/60p | 1 125/60p | 1 920 x 1 080 | 67.5 | 60.0 | 148.5 | AA | COMPONENT/ |
| 1 125 (1 080)/50p | 1 125/50p | 1 920 x 1 080 | 56.3 | 50.0 | 148.5 | AA | HDMI/COMPUTER |
| 750 (720)/60p | 750/60p | 1 280 x 720 | 45.0 | 60.0 | 74.3 | AA | COMPONENT/HDMI |
| 750 (720)/50p | 750/50p | 1 280 x 720 | 37.5 | 50.0 | 74.3 | AA | OOM ONENTAL |
| VGA480 | VGA60 | 640 x 480 | 31.5 | 59.9 | 25.2 | Α | |
| | VGA75 | 640 x 480 | 37.5 | 75.0 | 31.5 | Α | |
| | VGA85 | 640 x 480 | 43.3 | 85.0 | 36.0 | Α | |
| | VGA138 | 640 x 480 | 72.1 | 138.0 | 62.3 | Α | |
| WIDE480 | WIDE480 | 856 x 480 | 30.1 | 60.1 | 31.5 | Α | |
| SVGA | SVGA55 | 800 x 600 | 35.2 | 56.3 | 36.0 | Α | |
| | SVGA60 | 800 x 600 | 37.9 | 60.3 | 40.0 | Α | |
| | SVGA70 | 800 x 600 | 48.1 | 72.2 | 50.0 | Α | |
| | SVGA75 | 800 x 600 | 46.9 | 75.0 | 49.5 | Α | |
| | SVGA85 | 800 x 600 | 53.7 | 85.1 | 56.3 | Α | |
| WIDE600 | WIDE600 | 1 072 x 600 | 37.2 | 59.9 | 51.4 | Α | |
| WIDE720 | WIDE720 | 1 280 x 720 | 45.1 | 60.1 | 76.5 | AA | |
| XGA | XGA60 | 1 024 x 768 | 48.4 | 60.0 | 65.0 | Α | COMPUTER |
| | XGA70 | 1 024 x 768 | 56.5 | 70.1 | 75.0 | Α | |
| | XGA75 | 1 024 x 768 | 60.0 | 75.0 | 78.8 | Α | |
| | XGA85 | 1 024 x 768 | 68.7 | 85.0 | 94.5 | Α | |
| | XGA89 | 1 024 x 768 | 72.1 | 89.0 | 99.2 | Α | |
| WIDE768 | WIDE768 | 1 280 x 768 | 45.3 | 56.5 | 76.2 | Α | |
| MXGA | MXGA70 | 1 152 x 864 | 64.0 | 71.2 | 94.2 | Α | |
| | MXGA75 | 1 152 x 864 | 67.5 | 74.9 | 108.0 | Α | |
| SXGA | SXGA60 | 1 280 x 1 024 | 64.0 | 60.0 | 108.0 | Α | |
| SXGA60+ | SXGA60+ | 1 400 x 1 050 | 65.1 | 59.9 | 122.4 | Α | |
| WIDE768-2 | WIDE768-2 | 1 360 x 768 | 48.8 | 59.8 | 74.3 | Α | |
| WIDE800 | WIDE800 | 1 280 x 800 | 49.7 | 59.8 | 83.5 | Α | |
| WIDE900 | WIDE900 | 1 440 x 900 | 55.9 | 59.8 | 106.5 | Α | |

^{*1.} The "i" appearing after the resolution indicates an interlaced signal.

A Signals are converted by the image processing circuit before picture is projected.



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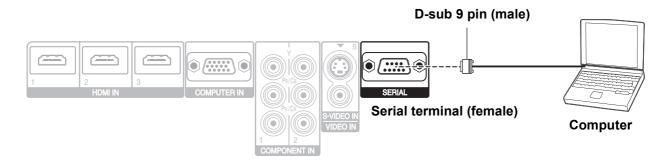
^{*2.} The following symbols are used to indicate picture quality.

AA Maximum picture quality can be obtained.

Serial terminal

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 connecter.

Connection



NOTE:

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

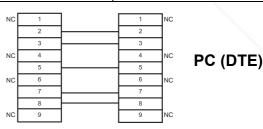
Pin assignments and signal names

| | Pin No. | Signal name | Contents |
|-----------------------------------|---------|-------------|----------------------|
| | ① | | NC |
| | 2 | TXD | Transmitted data |
| | 3 | RXD | Received data |
| (6) (7) (8) (9) (1) | 4 | | NC |
| | (5) | GND | Earth |
| | 6 | | NC |
| | 7 | RTS | Connected internally |
| | 8 | CTS | Connected internally |
| | 9 | | NC |

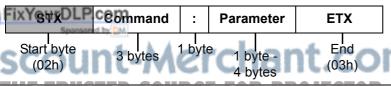
Cable specifications

(When connected to a personal computer)

Projector



Basic format



The data streaming from the computer will start with STX, and proceed to Command, Parameter and end with ETX. You can add the required parameter.

- The projector can not 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.

Appendi3

Communication settings

| Signal level | RS-232C | Character length | 8 bits |
|--------------|--------------|------------------|--------|
| Sync. method | Asynchronous | Stop bit | 1 bit |
| Baud rate | 9 600 bps | X parameter | None |
| Parity | None | S parameter | None |

Control commands

| Command | Control contents | Remarks |
|---------------------|--------------------|--|
| PON | POWER ON | In standby mode, all commands other than the PON command are ignored. The PON command is ignored during lamp ON control. |
| POF | POWER OFF | 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. |
| IIS | INPUT | Parameter: CP1 = COMPONENT1 IN CP2 = COMPONENT2 IN SVD = S-VIDEO IN VID = VIDEO IN HD1 = HDMI1 IN HD2 = HDMI2 IN HD3 = HDMI3 IN RG1 = COMPUTER IN |
| OMN | MAIN | Displaying the main menu. |
| OEN | ENTER | Activating the selected items in the menu mode. |
| ОВК | RETURN | Returning to the previous menu or escaping from the menu mode. |
| OCU/OCD/ OCL/OCR | Navigation buttons | OCU = ▲ button OCD = ▼ button OCR = ▶ button |
| OLE | LENS | Activating the LENS CONTROL menu. |
| OST | DEFAULT | Resetting to the factory default setting. (page 22) |
| OFZ | FREEZE | Freezing the projected screen. Parameter: 0 = OFF |
| ООТ | SLEEP | Setting the duration of time to turn off the power automatically. (page 25) 0 = OFF |
| OSH | BLANK | Turning off the projection temporarily. Send the command to switch between ON and OFF. Do not send the command consecutively. |
| OVM | PICTURE | Activating the PICTURE menu. Send the command to switch menu items. (page 25) |
| OWM | WAVEFORM | Activating the WAVEFORM. (page 24) Parameter: 0 = OFF 1 = FULL SCAN (Y) 2 = FULL SCAN (R) 3 = FULL SCAN (G) 4 = FULL SCAN (B) (page 24) 5 = SINGLE LINE SCAN (Y) 6 = SINGLE LINE SCAN (Y) 7 = SINGLE LINE SCAN (G) 8 = SINGLE LINE SCAN (B) |
| VS1 | ASPECT | Switching the aspect ratio. (page 23) |
| Fig Your DI | PICTURE MODE | Switching the PICTURE MODE. (page 25) Parameter: NOR = NORMAL DYN = DYNAMIC CL1 = COLOR1 CL2 = COLOR2 CN1 = CINEMA1 CN2 = CINEMA2 CN3 = CINEMA3 |

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Technical Information

Inquiry commands

| Command | Control contents | | Parameter |
|---------|---------------------|---|--|
| QPW | Power status | 000 = OFF | 001 = ON |
| QFZ | FREEZE status | 0 = OFF | 1 = ON |
| QIN | INPUT signal status | CP1 = COMPONENT1 IN SVD = S-VIDEO IN HD1 = HDMI1 IN HD3 = HDMI3 IN | CP2 = COMPONENT2 IN VID = VIDEO IN HD2 = HDMI2 IN RG1 = COMPUTER IN |
| QOT | SLEEP status | 0 = OFF 1 = 60min. 5 = 180min. 6 = 210min. | 2 = 90min. 3 = 120min. 4 = 150min. 7 = 240min. |
| QPM | PICTURE MODE status | NOR = NORMAL DYN = DYNAMIC CN1 = CINEMA1 CN2 = CINEMA2 | |
| QSH | BLANK status | 0 = OFF | |
| QWM | WAVEFORM status | Parameter: 0 = OFF 1 = FULL SCAN (Y) 2 = FULL SCAN (R) 3 = FULL SCAN (G) 4 = FULL SCAN (B) | 5 = SINGLE LINE SCAN (Y) 6 = SINGLE LINE SCAN (R) 7 = SINGLE LINE SCAN (G) 8 = SINGLE LINE SCAN (B) |



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Ceiling mount bracket safeguards

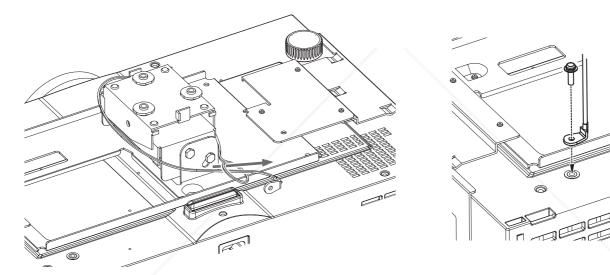
The projector and the ceiling mount bracket are designed sufficiently safety though, make sure the safety cable provided with the projector is installed and attached to the bottom of the projector when mounting in the ceiling for safety and security.

NOTE:

- Even if it is guarantee period, the manufacturer is not responsible for any hazard or damage caused by using a ceiling mount bracket which is not purchased from an authorized distributors, or environmental conditions.
- · Make sure to use a torque driver and do not use an electrical screwdriver or an impact screwdriver.
- · Installation work of the ceiling mount bracket should only be carried by a qualified technician.
- · Remove an unused ceiling mount bracket promptly.

Installing the safety cable

- 1. Install the ceiling mount bracket according to the Installation Instructions.
- 2. Loop the security cable around the ceiling mount bracket with less slack.
 - Lace the cable of the end with a latch through the loop on the other end of the cable.
- 3. Attach the latch on to the bottom of the projector with a provided screw.
 - Torque: 1.25±0.2 N·m



^{*} Indicated above is ET-PKE1000S.



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Specifications

| Power supply | | AC 100 - 240 V 50 Hz/60 Hz | | | |
|------------------------------|-------------------------------|---|---|--|--|
| Power consumption | | 240 W During standby (when fan is stopped): 0.08 W | | | |
| Amps | | 2.8 A - 1.2 A | | | |
| | Panel size (diagonal) | 0.74 type (17.78 mm) | | | |
| | Aspect ratio | 16:9 | | | |
| LCD panel | Display method | 3 transparent LCD panels (RGB) | | | |
| | Drive method | Active matrix method | | | |
| | Pixels | 2 073 600 (1 980 x 1 080) x 3 panels | | | |
| Lens | | Manual zoom (2x)/Manual focus F 1.9 - 3.2, f 22.4 mm - 44.8 mm | | | |
| Lamp | | UHM lamp (165 W) | | | |
| Luminosity | | 1 500 lm | | | |
| Operating environment | | Temperature | 0 °C - 40 °C (32 °F - 104 °F) When the ALTITUDE (page 41) is set to ON: 0 °C - 35 °C (32 °F - 95 °F) | | |
| | | Humidity | 20% - 80% (no condensation) | | |
| Scanning | Horizontal scanning frequency | 30 kHz - 70 kHz | | | |
| frequency*1 (for RGB signal) | Vertical scanning frequency | 50 Hz - 85 Hz | | | |
| | Dot clock frequency | Less than 150 MHz | | | |
| COMPONENT (YPBPR) signals | | 525i (480i), 525p (480p), 625i (576i), 625p (576p), 750 (720)/60p, 750 (720)/50p, 1 125 (1 080)/60i, 1 125 (1 080)/50i, 1 125 (1 080)/60p, 1 125 (1 080)/50p, 1 125 (1 080)/24p | | | |
| Color system | | 7 (NTSC/NTSC 4.43/PAL/PAL-M/PAL-N/PAL60/SECAM) | | | |
| Projection size | | 40" - 200" (1 016 mm - 5 080 mm) | | | |
| Throw distance | | 1.2 m - 12 m (3'11" - 39'4") | | | |
| Screen aspect ratio | | 16:9 | | | |
| Installation | | FRONT/DESK, FRONT/CEILING, REAR/DESK, REAR/CEILING (Menu selection method) | | | |

^{*1.} See "List of compatible signals" on page 47 for available signals.



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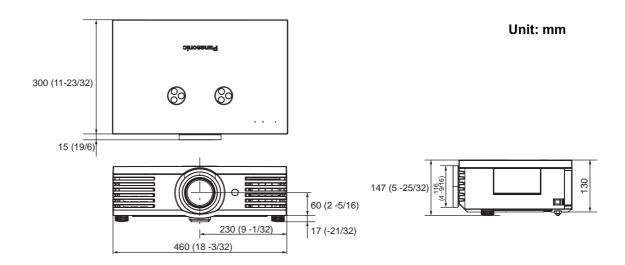
Single - line, Mini DIN 4p Y: 1.0 V [p-p], C: 0.286 V [p-p], 75 Ω

| | | g | [[- [-], | |
|---|-----------------|---|---|--|
| | VIDEO IN | Single - line, RCA pin jack1.0 V [p-p], 75Ω | | |
| Cabinet Dimensions Weight | | , , , | , | |
| | | R.G.B. | 0.7 V [p-p], 75 Ω | |
| | | G.SYNC | 1.0 V [p-p], 75 Ω | |
| Cabinet Dimensions Weight Certifications | COMPUTER IN | HD/SYNC | TTL high impedance, automatic positive/negative polarity compatible | |
| | | VD | TTL high impedance, automatic positive/negative polarity compatible | |
| | | Y, PB/CB, PR/CR | Single - line, RCA pin jack x 3 | |
| | COMPONENT IN | Y: | 1.0 V [p-p] (including sync), 75 Ω | |
| | | PB/CB, (PR/CR) | 0.7 V [p-p], 75 Ω | |
| | HDMI IN | Triple - line, 19-pin HDMI connector | | |
| | SERIAL | D-sub 9-pin RS-232C compatible | | |
| Cabinet | | Moulded plastic (PC+ABS) | | |
| | | Width | 460 mm (18 -3/32") | |
| Dimensions | | Height | 130 mm (5 -3/32") | |
| | | Length | 300 mm (11 -25/32") | |
| Weight | | 7.2 kg (15.9 lbs.) | | |
| Certifications | | UL60950-1 FCC Class B | C-UL ICES-003 | |
| | Power supply | 3 V DC (AA battery x 2) | | |
| | Operating range | Approx. 7 m (23') (when operated | directly in front of signal receptor) | |
| Damata control | Weight | 170 g (6 ozs.) (including batteries |) | |
| Remote control | | Width | 52 mm (2 -1/32") | |
| | Dimensions | Length | 200 mm (7 -27/32") | |
| | | Height | 28.5 mm (1 -3/32") (not including surface projection parts) | |
| | Cable cover | ET-PCE2000 | | |
| | Ceiling bracket | ET-PKE2000/ET-PKE1000S | | |
| | | | | |
| Options | COMPUTER IN | | | |

S-VIDEO IN

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Dimensions





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Appendi

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- 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.



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NOTE:

This product contains a CR Coin Cell Lithium Battery which contains Perchlorate Material - special handling may apply.

See www.dtsc.ca.gov/hazardouswaste/perchlorate.

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