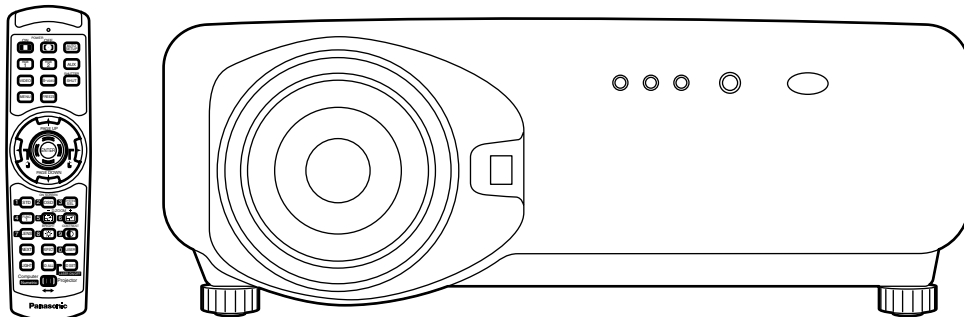


Panasonic

DLP™ Based Projector **Commercial Use**

Operating Instructions

Model No. **PT-D7500U**
PT-D7600U



Read these instructions completely before operating this unit.

Dear Panasonic Customer:

This instruction booklet provides all the necessary operating information that you might require. We hope it will help you to get the most performance out of your new product, and that you will be pleased with your Panasonic DLP™ based projector.

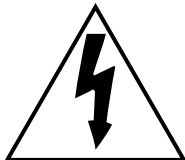
The serial number of your product may be found on its back. You should note it in the space provided below and retain this booklet in case service is required.

Model number: **PT-D7500U / PT-D7600U**

Serial number:

IMPORTANT SAFETY NOTICE

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

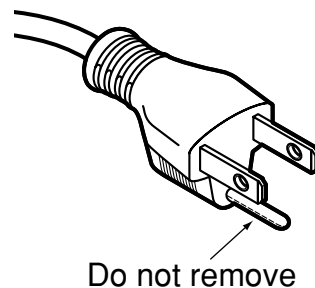


The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the Product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



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

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



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.

CAUTION: Any unauthorized changes or modifications to this equipment will void the user's authority to operate.

Declaration of Conformity

Model Number: PT-D7500U/PT-D7600U
Trade Name: Panasonic
Responsible Party: Matsushita Electric Corporation of America
One Panasonic Way, Secaucus, NJ 07094
Telephone Number: 1-800-524-1448 or 1-800-526-6610
Email: pbtsservice@panasonic.com

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 receiver, including interference that may cause undesired operation.

NOTICE: This product has a High Intensity Discharge (HID) lamp that contains a small amount of mercury. It also contains lead in some components. Disposal of these materials may be regulated in your community due to environmental considerations. For disposal or recycling information please contact your local authorities, or the Electronics Industries Alliance: <<http://www.eiae.org>.>

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Precautions with regard to safety

WARNING

If a problem occurs (such as no image) or if you notice smoke or a strange smell coming from the projector, turn off the power and disconnect the power cord 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.

If foreign objects or water get inside the projector, or if the projector is dropped or the cabinet is broken, turn off the power and disconnect the power cord 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 cover the air filter, the air inlet and exhaust vents.

- Doing so may cause the projector to overheat, which can cause fire or damage to the projector.

Do not overload the wall outlet.

- If the power supply is overloaded (for example, by using too many adapters), overheating may occur and fire may result.

Do not remove the cover or modify it in any way.

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

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

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

Do not do anything that might damage the power cord or the power cord plug.

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

Do not handle the power cord plug with wet hands.

- Failure to observe this may result in electric shocks.

Insert the power cord plug securely into the wall outlet.

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

Do not place the projector on top of surfaces which are unstable.

- If the projector is placed on top of a surface which is sloped or unstable, it may fall down or tip over, and injury or damage could result.

Do not place the projector into water or let it become wet.

- Failure to observe this may result in fire or electric shocks.

Do not disassemble the lamp unit.

- If the lamp section breaks, it may cause injury.

Precautions with regard to safety

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.

After removing the battery from remote control unit, keep it away from the reach of children.

- The battery can cause death by suffocation if swallowed.
- If the battery is swallowed, seek medical advice immediately.

Do not allow the + and - terminals of the battery to come into contact with metallic objects such as necklaces or hairpins.

- Failure to observe this may cause the battery to leak, overheat, explode or catch fire.
- Store the battery in a plastic bag and keep it away from metallic objects.

Insulate the battery using tape or similar before disposal.

- If the battery comes into contact with metallic objects or other batteries, it may catch fire or explode.

Caution

Do not set up the projector in humid or dusty places or in places where the projector may come into contact with smoke or steam.

- Using the projector under such conditions may result in fire or electric shocks.

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 battery or place it into water or fire.

- Failure to observe this may cause the battery to overheat, leak, explode or catch fire, and burns or other injury may result.

When inserting the battery, make sure the polarities (+ and -) are correct.

- If the battery is inserted incorrectly, it may explode or leak, and fire, injury or contamination of the battery compartment and surrounding area may result.

Use only the Specified battery.

- If an incorrect battery is used, it may explode or leak, and fire, injury or contamination of the battery compartment and surrounding area may result close to this port, otherwise burns or damage could result.

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.

Do not bring your hands or other objects close to the air outlet port.

- Heated air comes out of the air outlet port. Do not bring your hands or face, or objects which cannot withstand heat.

Replacement of the lamp unit should only be carried out by a qualified technician.

- The lamp unit has high internal pressure. It can easily become damaged if struck against hard objects or dropped, and injury or malfunctions may result.

Do not use the old lamp unit.

- The lamp section may break.

Replacement of the lamp unit should only be carried out after it has completely cooled off, otherwise burns may result.**Disconnect the power cord plug from the wall outlet as a safety precaution before carrying out any cleaning.**

- Electric shocks can result if this is not done.

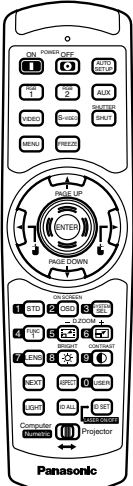
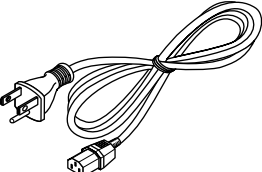
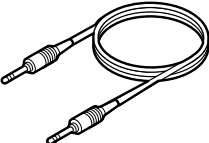
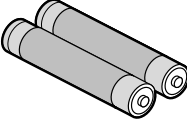
Ask an Authorized Service Center to clean inside the projector at least once a year.

- 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.

Do not reach for the openings beside the optical lens, during horizontal or vertical movements of the lens there is a injury hazard.**An effort to keep our environment clean, Please bring the non repairable unit your Dealer or a Recycling Company.**

Accessories

Check that all of the accessories shown below have been included with your projector.

<p>Remote control unit</p> 	<p>Power cord [K2CF3EH00001 x 1]</p> 	<p>wired cable for remote control [15m (49'3"), K1EA03NA0001 x 1]</p> 	<p>Battery for remote control unit [R03NPA/2ST x 1]</p> 
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Precautions on handling

■ Precautions on transport

The projection lens is susceptible to vibrations and impacts. Care should be taken to protect the lens from vibrations and impacts when transporting.

■ Precautions on installation

Be sure to observe the following precautions when installing the product.

- **Avoid installing the product in a place exposed to vibrations or impacts.**

If the projector is installed in a place where vibrations are transmitted from a source of driving power and others or mounted in a car or a vessel, vibrations or impacts may be transmitted to the product to damage the internal parts, causing failure. Install the product in a place free from vibrations and impacts.

- **Do not install the projector near high-voltage power lines or power sources.**

The product may be exposed to interference if it is installed in the vicinity of high-voltage electrical power lines or power sources.

- **Do not place the projector on a vinyl sheet or carpet.**

If a vinyl sheet is sucked up and blocks the air filter intake port, the internal temperature of the projector may increase, which triggers the protection circuit, turning off the power.

- **Be sure to ask a specialized technician when to install the product to a ceiling.**

If the product is to be installed hanging from the ceiling, purchase an optional hanging attachment (for high ceiling: Model No. ET-PKD75) (for low ceiling: Model No. ET-PKD75S) and call a specialized technician for installation.

- **Do not place the projector over 2 700 m (8881.5') above sea level. When using it over 1 400 m (4605.3') above sea level, set the "Fan Control", described on page 72, to "HIGH".**

Otherwise the life of the product may be shortened.

■ Precautions on use

- **To view clear images:**

- The audience cannot enjoy high-contrast and clear images if outside light or the illumination interferes the screen surface. Draw window curtains or blinds, turn off the lightings near the screen or take other proper measures.
- In rare cases, wafture can occur on the screen affected by the warm air from the exhaust port depending on the environment.

- **Do not touch the surface of the projection lens with bare hand.**

If fingerprints or stains are left on the projection lens surface, they are magnified and projected on the screen. Keep your hands away from the lens. Cover the lens with the supplied lens cap when the projector is not used.

- **Screen**

If the screen has stains, flaws or discoloration, clear images cannot be viewed. When handling the screen, be careful not to apply volatile substances or leave flaws or stains on the screen.

- **Lamp**

A mercury lamp with high internal pressure is used for the light source of this product. A high-pressure mercury lamp has the following characteristics:

- It may burst with a loud sound or end its life cycle by not illuminating because of given impacts, flaws, or deterioration due to used hours.
- The life cycle of a mercury lamp varies according to the individual difference or conditions of use.
- In rare cases, it may burst shortly after the first lighting.
- The possibility of burst increases when the lamp is used beyond the replacement time.

■ Disposal

To discard the product, call the dealer or a specialized dealer

Cleaning and maintenance

Be sure to remove the power cord plug from the receptacle before cleaning.

Use soft and dry cloth to clean the cabinet

If stains are hard to remove, use a cloth dampened with a kitchen detergent solution (neutral) and squeezed to wipe the cabinet and finish with a dry cloth. If a chemical wipe is used, follow its instructions.

Do not clean the lens surface with fuzzy or dusty cloth.

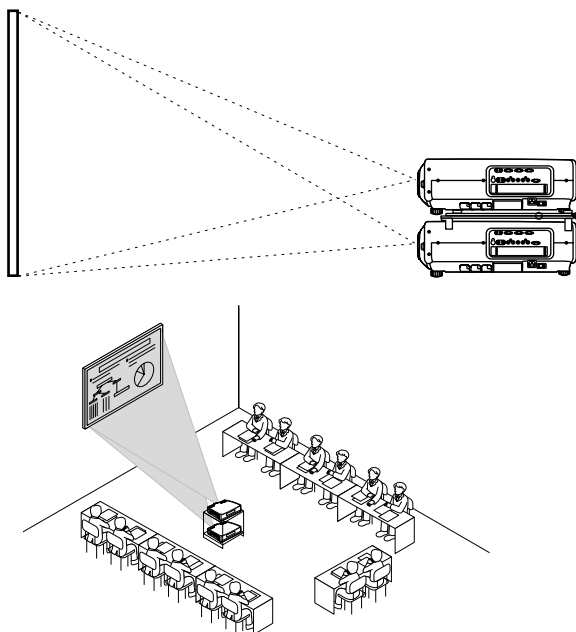
If dust adheres to the lens, it will be magnified and projected on the screen. Use a soft and clean cloth to wipe off dust.

Examples of system expansion

The projector is provided with a number of terminals and optional accessories to enable various system expansions. Both input and output are provided to all terminals on the main unit. The following are some examples of system expansion:

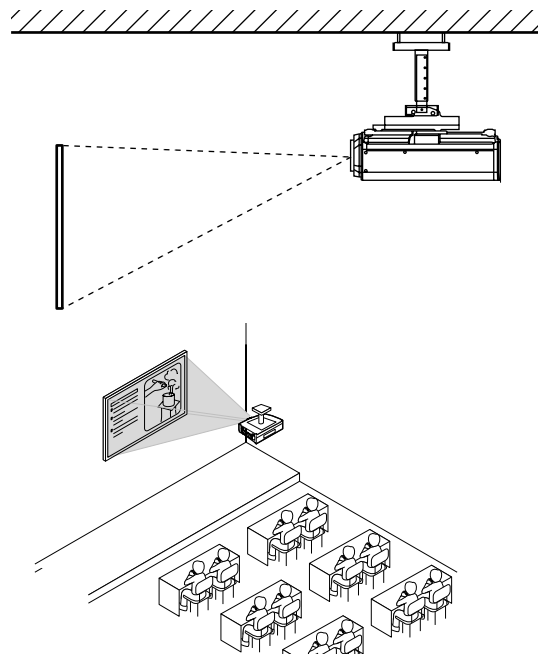
System 1

Stacking two projectors with the stacking brackets can double the picture brightness.



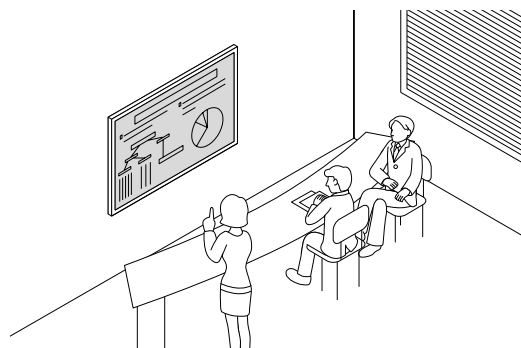
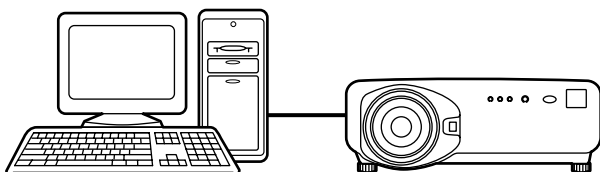
System 2

The optional high- or low-ceiling mount bracket flexibly fits the projector in individual site conditions.



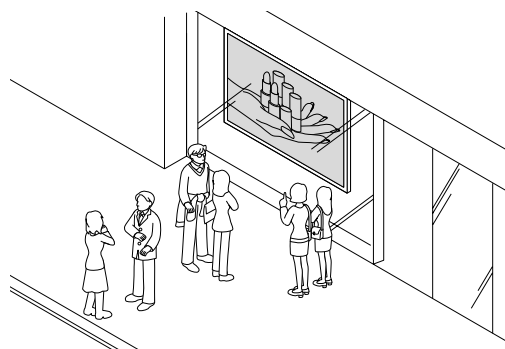
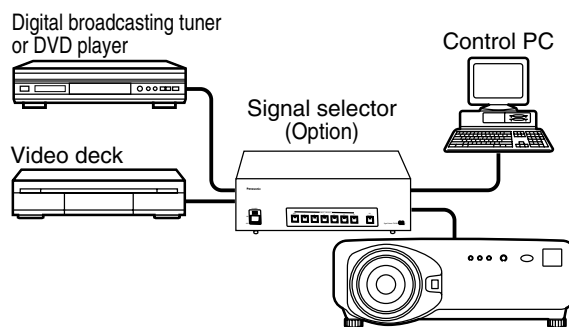
System 3

PC equipped with a DVI-D input module (an optional item) can be attached to the projector for computer image viewing (Realization of high-resolution picture.)



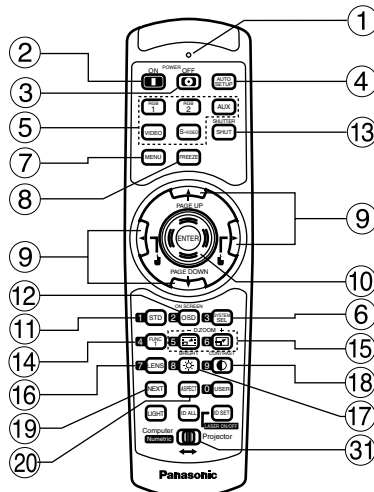
System 4

Connection of a signal selector enables to feed a variety of video sources to the projector.



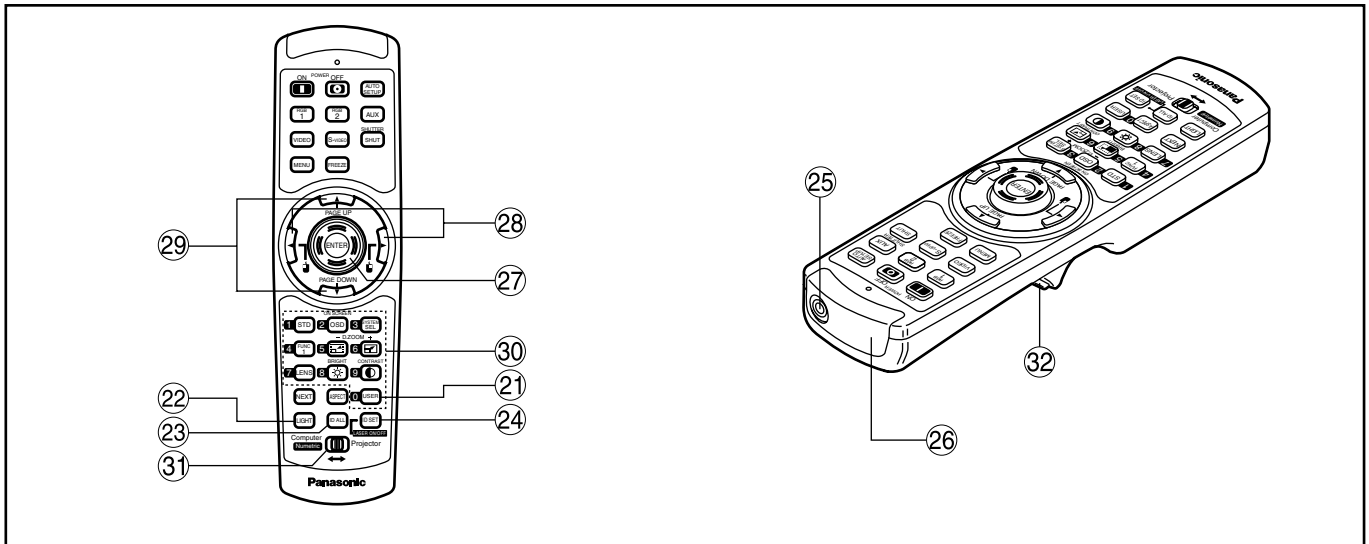
Name and function of parts

Remote control



< When the operation mode selector ⑳ is set to Projector >

- ① **Remote control operation indicator lamp**
The lamp flashes when any remote control button is pressed.
- ② **POWER ON button (page 39)**
Turns on the power if the MAIN POWER has been put to the "I" position.
- ③ **POWER OFF button (page 40)**
Turns off the power if the MAIN POWER has been put to the "I" position.
- ④ **AUTO SET UP button (page 42)**
Pressing this button while projecting an image automatically corrects the picture positioning on the screen. While the auto setup feature is active, a message "AUTO SETUP" appears on the screen.
- ⑤ **Input selector (RGB1, RGB2, AUX, VIDEO, S-VIDEO) button**
Use to toggle through the RGB1, RGB2, AUX (module input), VIDEO and S-VIDEO input ports.
- ⑥ **SYSTEM SELECTOR button (page 66)**
System switching can be done.
- ⑦ **MENU button (page 49)**
Displays and clears the Main Menu. It can also return to the previous screen when the menu is displayed.
- ⑧ **FREEZE button (page 47)**
Press this button to freeze the image temporarily.
- ⑨ **Arrow ▲ ▼ ◀ ▶ buttons (page 49)**
Use these buttons to select an item on the menu screen, change setting and adjust the level.
- ⑩ **ENTER button (page 49)**
Press this button to enter your menu selection or to run function.
- ⑪ **Standard (STD) button (page 49)**
Press this button to restore the default factory setting.
- ⑫ **ON SCREEN button (page 48)**
This button turns on and off the on-screen indication function.
- ⑬ **SHUTTER button (page 47)**
Press this button to black out the image temporarily.
- ⑭ **Function 1 (FUNC1) button (page 74)**
This button can control the functions set in "FUNC1" of the "Option" screen from Main Menu.
- ⑮ **Digital Zoom (- D.ZOOM +) buttons (page 47)**
Any portion of the picture can be zoomed in.
- ⑯ **LENS button (page 41)**
Switches to the mode of projection lens adjustment.
- ⑰ **BRIGHT button (page 51)**
Switches to the mode of black level adjustment.
- ⑱ **CONTRAST button (page 51)**
Switches to the mode of image contrast adjustment.
- ⑲ **NEXT button**
When multiple signal selectors are connected to the main unit in the system, this button specifies the second signal selector or beyond. With the ID set button pressed, every press on the button will change the value in the ten's place.
- ⑳ **ASPECT button**
Switches the image aspect ratio to 4:3, 16:9.



- ②① **USER button**
Displays the sub-memory screen of the signal registration.
- ②② **LIGHT button (③② Click button)**
When this button is pressed, the remote control button light is turned on. The light goes off about 30 seconds after you stop remote control operation.
- ②③ **ID ALL button (page 16,69)**
When two or more main units are used in the system, this button switches to the mode to control them simultaneously with a single remote control.
- ②④ **ID SET button (page 16,69)**
When two or more main units are used in the system, this button specifies the ID of the remote control.
- ②⑤ **Remote control wired terminal (page 17)**
To use the wired output terminal, connect the remote control and the main unit with the supplied cable.
- ②⑥ **Remote control transmitter window**
Operate the remote control aiming at the remote control receiver window on the main unit.

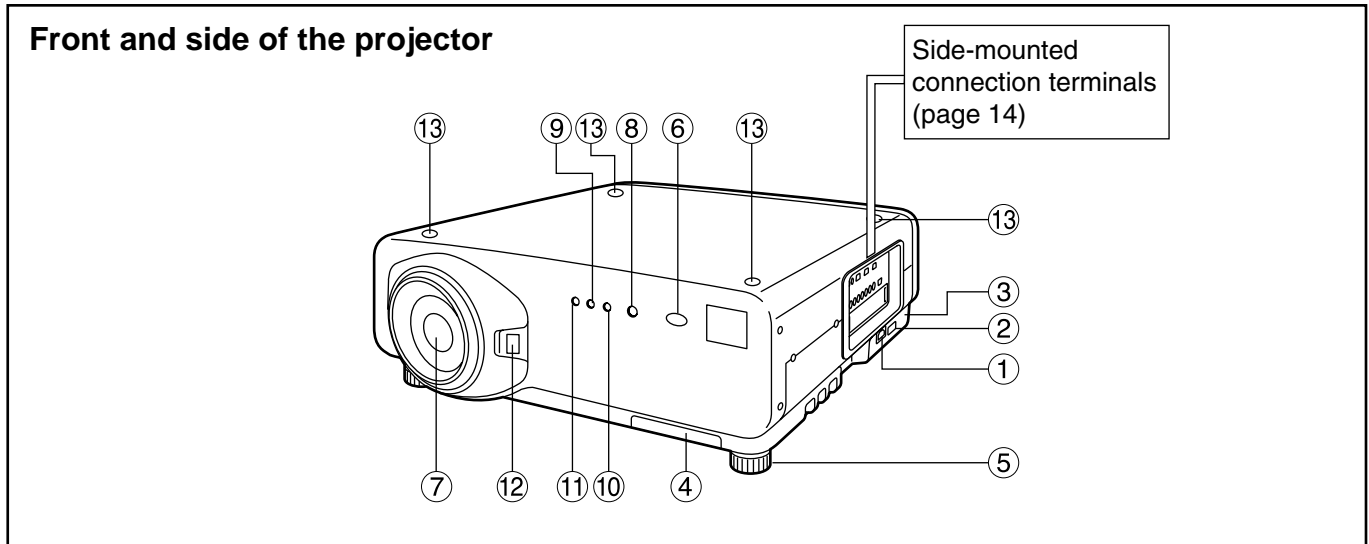
<When the operation mode selector ③① is set to Computer>

- ②⑦ **ENTER button**
Moves the mouse cursor.
- ②⑧ **⏪ ⏩ (◀ ▶) buttons**
These buttons correspond to the left and right mouse buttons.
- ②⑨ **PAGE UP/PAGE DOWN buttons**
These buttons correspond to the PAGE UP/PAGE DOWN buttons on PC's keyboard.
- ③① **Numeric (0-9) button**
In a system that uses two or more units of this projector or in a system that connects to an optional signal selector, these buttons specify a particular projector unit or the input of the signal selector. They are also used to enter ID numbers when selecting the ID or to enter specific numbers when entering a password.
- ③① **Operation mode selector (Computer/Numeric, Projector) switch (page 17)**
Put this selector to the right position to control the projector and to the left position to control the PC or use numeric buttons.
- ③② **Click button (page 17)**
This button corresponds to the left mouse button when the operation mode is switched to the Computer position.

Note

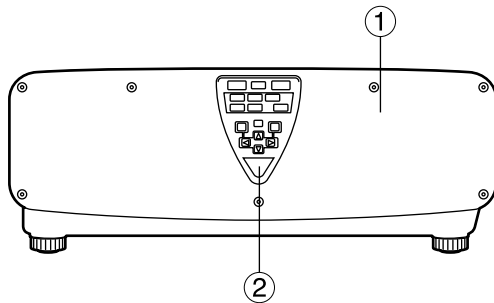
- To use the remote control as a mouse, please purchase an optional wireless mouse receiver (model No.: ET-RMRC1).
- The AUX button to switch the input is disabled when an optional input module is not connected.

Name and function of parts

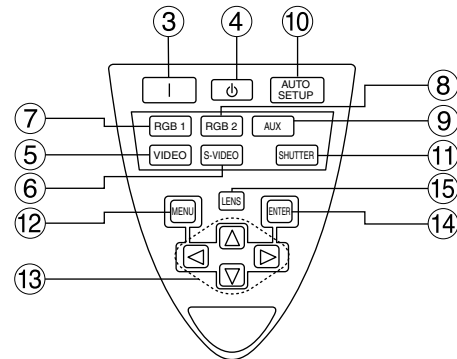


- ① **AC IN terminal (page 39)**
Connect the supplied line power cord into this receptacle.
Do not connect any other cable to this socket.
- ② **MAIN POWER switch (page 39)**
Use this switch to turn on "I" and off "O" the commercial line power applied to the projector.
- ③ **Burglar lock**
Attach a commercial burglar prevention cable (e.g., from Kensington) to this lock port. It is compatible with the Micro Save Security System from Kensington. This security lock is compatible with the Microsaver Security System from Kensington. Contact details for this company are given below.
Kensington Technology Group ACCO Brands Inc.
2885 Campus Drive San Mateo, CA94403
Tel (650)572-2700
Fax (650)572-9675
<http://www.kensington.com/>
<http://www.gravis.com/>
- ④ **Air filter (page 94)**
- ⑤ **Level-adjusting feet (page 18)**
Use these feet to adjust the tilt of the projector.
(Leveling feet are provided at the front and rear, right and left.)
- ⑥ **Remote control receiver window (front) (page 15)**
This window receives the signal beam emitted from the remote control.
- ⑦ **Projection lens (optional)**
Lens for projecting images on the screen.
- ⑧ **Power indicator lamp (page 39)**
The lamp lights in red when the MAIN POWER switch is turned to "I" (on). It turns to green when the POWER ON button of the remote control or the main unit is pressed.
- ⑨ **LAMP1 monitor (page 93)**
This lamp lights up when the time to replace lamp unit 1 is reached. It also blinks if something unusual occurs in the lamp circuit.
- ⑩ **LAMP2 monitor (page 93)**
This lamp lights up when the time to replace lamp unit 2 is reached. It also blinks if something unusual occurs in the lamp circuit.
- ⑪ **Temperature monitor (TEMP) (page 93)**
Lighting or blinking of this lamp indicates an abnormal condition of the internal temperature.
- ⑫ **Projection lens cover lock button**
This button toggles between lock and unlock of the detachable cover for the projection lens (optional).
- ⑬ Use this for locating the projectors when stacking two units.

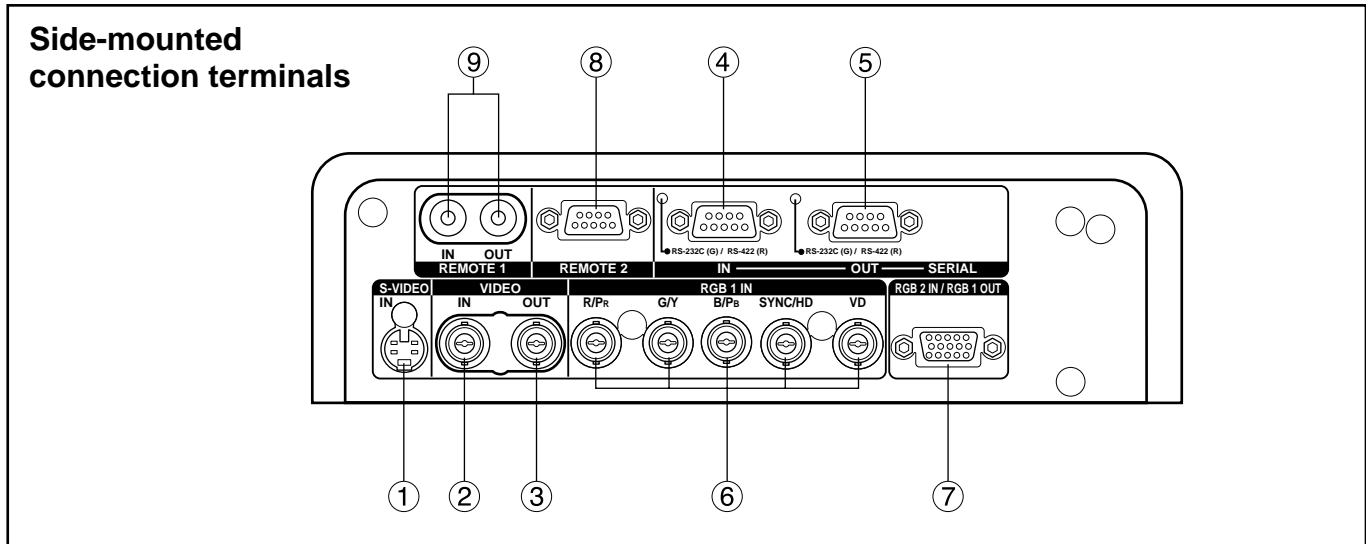
Rear view of the main unit



Controls on rear panel



- ① **Lamp unit housing door**
The lamp unit is housed.
- ② **Remote control receiver window (rear) (page 15)**
This also receives the signal beam coming from the remote control.
- ③ **POWER ON (I) button (page 39)**
Turns on the power.
- ④ **POWER OFF (⏻) button (page 40)**
Turns off the power.
- ⑤ **VIDEO button (page 39)**
Switches to video input.
- ⑥ **S-VIDEO button (page 39)**
Switches to S-VIDEO input.
- ⑦ **RGB1 button (page 39)**
Switches to RGB1 input.
- ⑧ **RGB2 button (page 39)**
Switches to RGB2 input.
- ⑨ **AUX button (page 39)**
Switches to optional input module input.
- ⑩ **AUTO SETUP button (page 42)**
Pressing this button while projecting an image automatically corrects the picture positioning on the screen. While the auto setup feature is active, a message "EXECUTING..." appears on the screen.
- ⑪ **SHUTTER button (page 47)**
Press this button to black out the image temporarily.
- ⑫ **MENU button (pages 48 and 49)**
Displays and clears the Main Menu. It can also return to the previous screen when the menu is displayed.
- ⑬ **Arrow (◀ ▶ ▲ ▼) buttons (page 49)**
Use to select an item on the menu screen, change setting and adjust the level.
- ⑭ **ENTER button (page 49)**
Press this button to enter your menu selection or to run function.
- ⑮ **LENS button (page 41)**
Switches to the adjustment mode for lens focus, zoom and shift (position).



- ① **S-VIDEO IN terminal (pages 24 and 25)**
An input terminal for S-video signals (MIN4-pin DIN).
This terminal complies with S1 signals and automatically toggles between 16:9 and 4:3 according to the size of input signals.
- ② **VIDEO IN terminal (page 25)**
An input terminal for video signals. (BNC)
- ③ **VIDEO OUT terminal (page 25)**
An output terminal (active through) for video signals. (BNC)
- ④ **SERIAL IN terminal (pages 25–27, 77–79)**
This terminal is an RS-232C/RS-422 compliant input terminal (switching necessary) to connect a PC and to externally control the main unit (D-SUB 9-pin female).
- ⑤ **SERIAL OUT terminal (pages 26, 27, 77–79)**
This terminal is an RS-232C/RS-422 compliant output terminal (switching necessary) to supply signals given to the serial input terminal (D-SUB 9-pin male).
- ⑥ **RGB (YPbPr)1 input terminal (pages 26, 27)**
A terminal to input RGB or YPbPr signals (BNC).
- ⑦ **RGB (YPbPr)2 input/RGB (YPbPr)1 output terminal (pages 26, 27)**
This terminal (active through) receives RGB or YPbPr signals or supplies signals given to the RGB1 input terminal (D-SUB 15-pin female).
- ⑧ **REMOTE2 terminal (page 80)**
The user can remotely control the main unit by using an external control circuit to this terminal (D-SUB 9-pin female).
- ⑨ **REMOTE1 IN/OUT terminal (page 17)**
When two or more main units are used in the system, they can be connected and controlled with a wired remote control cable (M3 jack).

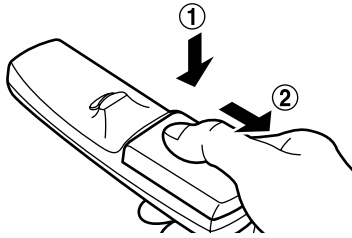
Using the remote control unit

■ Loading dry cells

When loading supplied AA dry cells into the battery compartment of the remote control, make sure that their polarities are correct.

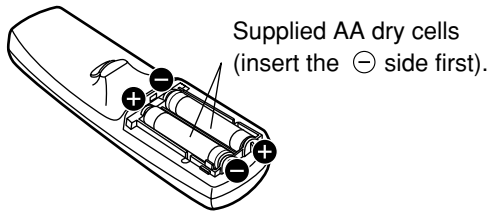
1. Open battery compartment lid.

Open the lid in the order of steps ① and ②.



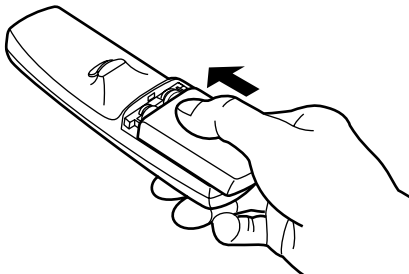
2. Insert the dry cells.

Into battery compartment, with their polarities orientated as indicated (+, -) in the compartment.



3. Close the battery compartment lid.

Replace the battery compartment lid over the compartment and slide until it clicks.



- Attention**
- Do not drop the remote control unit.
 - Do not expose remote control unit to any liquid.
 - Do not use NiCd batteries.

■ Effective range of remote control operation

The remote control should normally be aimed at either the front or rear remote control receiver window on the projector (fig. 1). Otherwise, it may also be aimed at the screen, which will reflect commands back to the projector's front receiver window as illustrated in figure 2.

The effective control range is approx. 7 meters from the beam receiver on the front or rear.

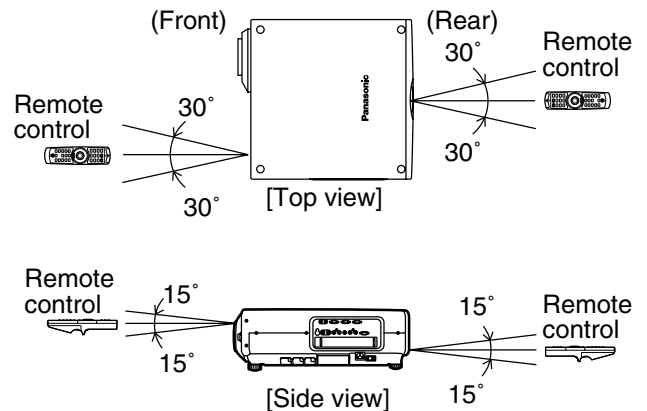


Figure 1

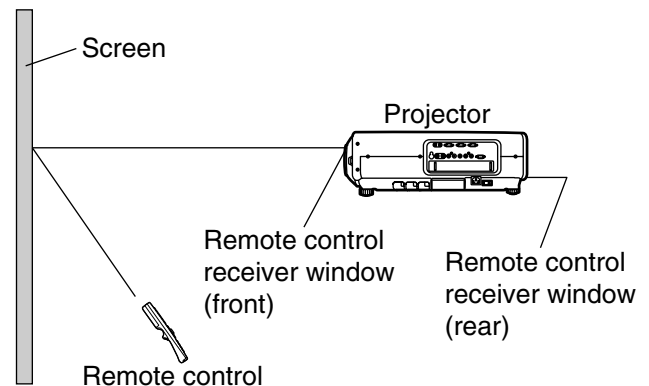


Figure 2

- Note**
- When the remote control is aimed at the screen, the effective control range may be reduced due to the optical loss by screen reflection.
 - The remote control may not function properly if an object is in the light path.
 - The remote control receiver may not function properly in intense ambient light such as fluorescent lamps. Carefully site the projector so its remote control receiver windows will not be directly exposed to intense light.

■ Setting projector ID number to remote control

Every projector has its ID number and the ID number of the controlling projector must be set to the remote control in advance so that the user can operate the remote control. **The ID number of the projector is set to “ALL” on shipping, and use the ID ALL button of the remote control when using only a single projector.**

Procedure of ID setting

Press the ID SET button, and within five seconds, use the NEXT button to set the number of the tens digit in the ID number, which is already set in the projector, and then use one of the numeric (0-9) buttons to set the number of the units digit.

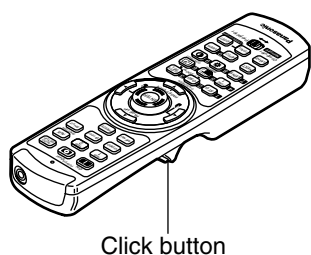
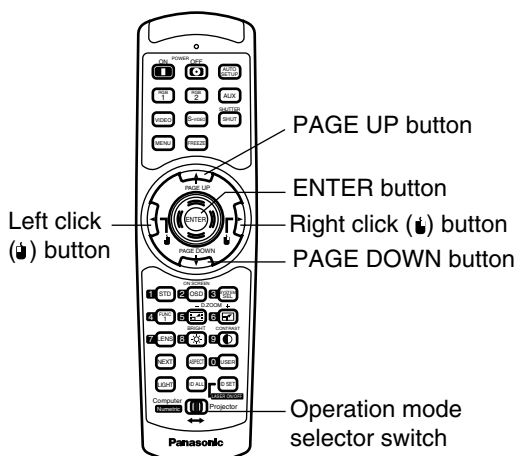
However, if the ID ALL button is pressed, the projector can be controlled regardless of the ID number of the projector (simultaneous control mode).

- If the ID SET button is pressed, the ID number goes back to the one set before pressing the ID SET

button unless the NEXT button and a numeric button are pressed within five seconds after the ID SET button is pressed.

- Do not press the ID SET button accidentally or carelessly because the ID number on the remote control can be set even when no projector is around.
- Your specified ID number is stored in the remote control unit unless another one is specified later. However, the stored ID will be erased if the batteries of the remote control are left exhausted. When the dry cells are replaced, set the same ID number again.

■ Using the remote control as a PC mouse



Operation mode selector switch

Put the knob to the Computer position.

• ENTER button

Pressing the front, rear, left and right edges of the button moves the mouse cursor up, down, left and right.

• Right click (⏏) button

This button can be used as the right mouse button.

• Left click (⏏) button

This button can be used as the left mouse button.

• PAGE UP button

This button can be used as the Page Up button on the PC keyboard.

• PAGE DOWN button

This button can be used as the Page Down button on the PC keyboard.

• Click button

This button can be used as the left mouse button.

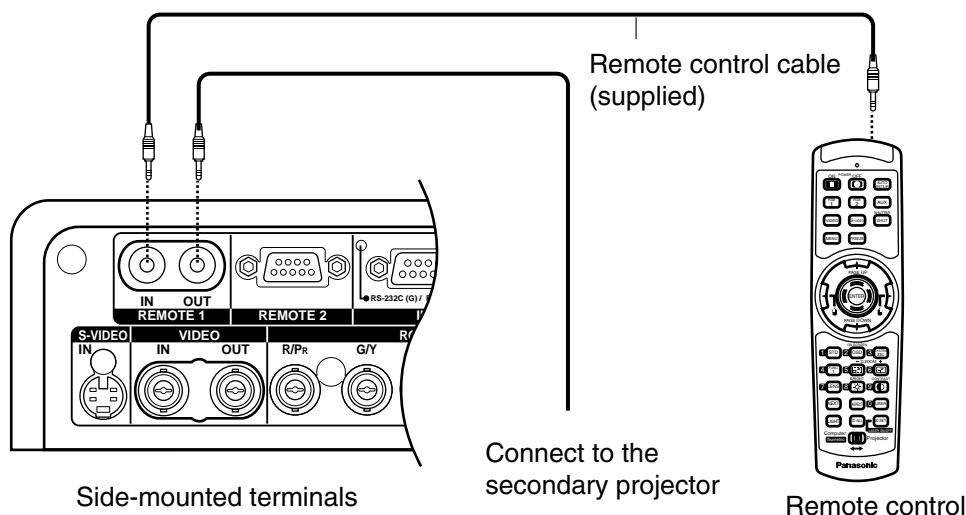
Note

- To use the remote control as a mouse, please purchase an optional wireless mouse receiver (model No.: ET-RMRC1).

■ Using a wired remote control

When multiple main units are connected in the system, connect the units with the supplied remote control cable to simultaneously control the multiple main units with a single remote control unit through the

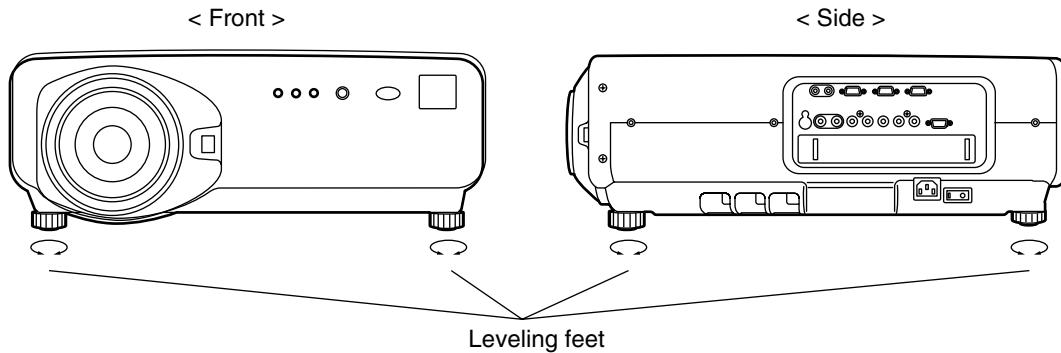
REMOTE1 IN/OUT terminal. It is effective to use the wired remote control in the environment in which an obstacle stands in the light path or where devices are susceptible to outside light.



Installation

■ Adjusting the leveling feet

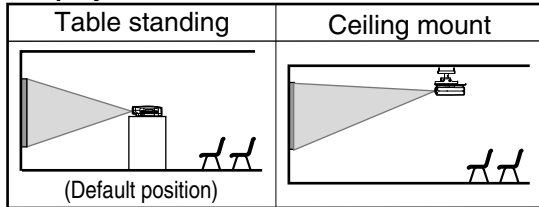
The four leveling feet mounted at the bottom of the projector are level-adjustable (0 mm–33 mm) which can be used when the floor surface is not horizontal.



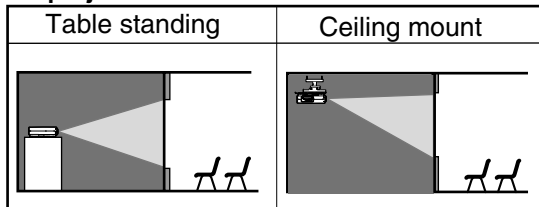
■ Projection scheme

This projector is applicable to any of the following four projection schemes. Select the most suitable scheme to the situation of your location. Use the OPTION menu on the menu screen to choose the desired projection scheme. (Refer to page 70)

Front projection

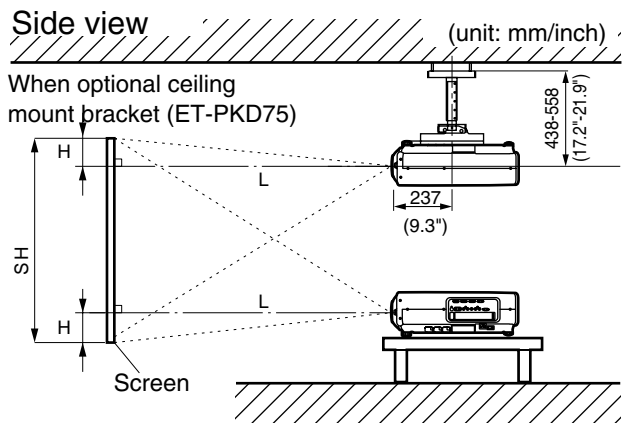


Rear projection



■ Installation geometry

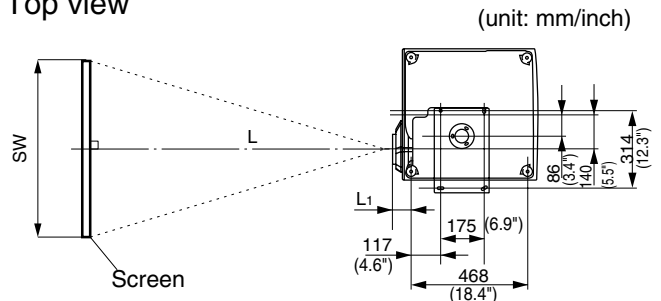
When planning the projector and screen geometry, refer to the figures below and the information on the next page for reference. After the projector is roughly positioned, picture size and vertical picture positioning can be finely adjusted with the powered zoom lens and lens shifting mechanism.



*For PT-D7500U, $H = -0.2 \times SH$ to $1.2 \times SH$
 For PT-D7600U, $H = 0$ to SH

L : Projection distance
 SH : Height of the image
 SW : Image width
 H : Vertical distance between the lens center level and the bottom edge of the projected image

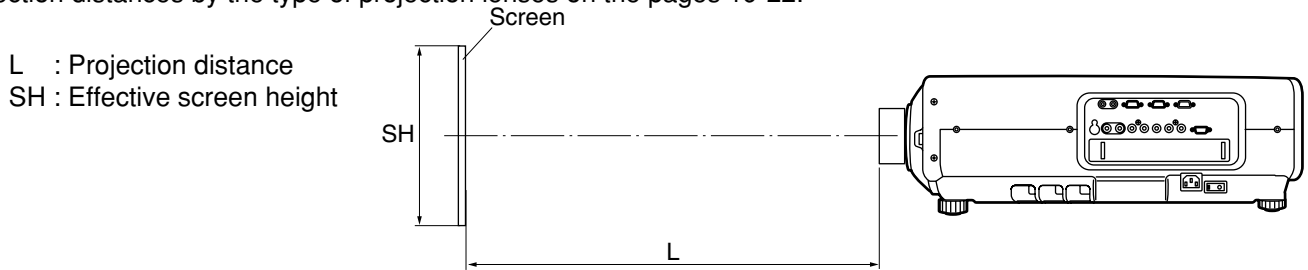
Top view



Lens	Dimension of L1 (Approx.)
ET-D75LE1/ET-D75LE1SC	102 (4")
ET-D75LE2/ET-D75LE2SC	86.5 (3.4")
ET-D75LE3/ET-D75LE3SC	90 (3.5")
ET-D75LE4/ET-D75LE4SC	113.9 (4.5")
ET-D75LE5	190 (7.5")

■ Projection distances by the type of projection lenses (optional)

Every type of optional projection lenses has a different projection distance to achieve the same screen size. Select and purchase a projection lens most suitable to the size of your location referring to the following tables and the projection distances by the type of projection lenses on the pages 19-22.



Projection distances by the type of projection lenses (for PT-D7500U)

• For the screen aspect ratio of 4:3

Units: m (feet/inches)

Screen size (inch)	Screen dimensions		Projection distance (L)								
			Zoom lens								
	Effective height (SH)	Effective width (SW)	ET-D75LE1/SC (1.87-2.5 :1)		ET-D75LE2/SC (2.5-3.75 :1)		ET-D75LE3/SC (3.75-6.25 :1)		ET-D75LE4/SC (6.25-10.0 :1)		ET-D75LE5 (1.0 : 1)
Minimum			Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum		
70	1.066 (3'6")	1.422 (4'8")	2.81 (9'3")	3.74 (12'3")	3.78 (12'5")	5.68 (18'8")	5.73 (18'10")	9.47 (31'2")	9.48 (31'2")	15.45 (50'10")	1.40 (4'7")
80	1.219 (4'0")	1.625 (5'4")	3.22 (10'7")	4.29 (14'1")	4.34 (14'3")	6.50 (21'4")	6.57 (21'7")	10.84 (35'8")	10.85 (35'8")	17.67 (58'1")	1.61 (5'3")
90	1.371 (4'6")	1.828 (6'0")	3.63 (11'11")	4.84 (15'11")	4.89 (16'1")	7.33 (24'11")	7.40 (24'4")	12.21 (40'2")	12.22 (40'2")	19.90 (65'5")	1.82 (6'0")
100	1.524 (5'0")	2.032 (6'8")	4.04 (13'3")	5.39 (17'9")	5.44 (17'11")	8.15 (26'10")	8.23 (24'1")	13.58 (44'8")	13.59 (44'8")	22.12 (72'9")	2.04 (6'8")
120	1.828 (6'0")	2.438 (8'0")	4.87 (16'0")	6.49 (21'4")	6.54 (21'6")	9.81 (32'3")	9.90 (32'7")	16.32 (53'8")	16.33 (53'9")	26.56 (87'4")	2.46 (8'1")
150	2.286 (7'6")	3.048 (10'0")	6.10 (20'0")	8.13 (26'9")	8.20 (27'0")	12.28 (40'5")	12.40 (40'9")	20.43 (67'2")	20.44 (67'3")	33.23 (109'3")	3.10 (3'6")
200	3.048 (10'0")	4.064 (13'4")	8.16 (26'10")	10.88 (35'9")	10.96 (36'0")	16.41 (54'0")	16.56 (54'6")	27.28 (89'9")	27.29 (89'9")	44.34 (145'10")	4.16 (10'2")
250	3.810 (12'6")	5.080 (16'8")	10.22 (33'7")	13.62 (44'10")	13.72 (45'1")	20.54 (67'7")	20.73 (68'2")	34.13 (112'3")	34.14 (112'3")	55.45 (182'5")	5.22 (17'2")
300	4.572 (15'0")	6.096 (20'0")	12.28 (40'5")	16.37 (53'16")	16.48 (54'2")	24.67 (81'2")	24.89 (81'11")	40.98 (134'10")	40.99 (134'10")	66.56 (218'11")	6.28 (20'8")
350	5.334 (17'6")	7.112 (23'4")	14.34 (47'2")	19.11 (62'10")	19.24 (63'3")	28.80 (94'9")	29.06 (95'7")	47.83 (157'4")	47.84 (157'4")	77.67 (255'6")	-----
400	6.096 (20'0")	8.129 (26'8")	16.40 (53'11")	21.86 (71'11")	22.00 (72'4")	32.93 (108'4")	33.22 (109'3")	54.68 (179'11")	54.69 (179'11")	88.78 (292'0")	-----
500	7.620 (25'0")	10.160 (33'4")	20.52 (67'6")	27.35 (90'1")	27.52 (90'6")	41.19 (135'6")	41.55 (136'8")	68.38 (224'11")	68.39 (224'11")	111.00 (365'1")	-----
600	9.144 (30'0")	12.192 (40'0")	24.64 (81'0")	32.84 (108'1")	33.04 (108'8")	49.45 (162'8")	49.88 (164'1")	82.08 (270'0")	82.09 (270'0")	133.22 (437'6")	-----

Note

- The projection distances listed here involve an error of ±5%.
- Keystone distortions are corrected in the way the screen size becomes smaller than the original one.

Installation

Projection distances by the type of projection lenses (for PT-D7500U)

• For the screen aspect ratio of 16:9

Units: m (feet/inches)

Screen size (inch)	Screen dimensions		Projection distance (L)								
			Zoom lens								
	Effective height (SH)	Effective width (SW)	ET-D75LE1/SC(1.87-2.5 :1)		ET-D75LE2/SC(2.5-3.75 :1)		ET-D75LE3/SC(3.75-6.25 :1)		ET-D75LE4/SC(6.25-10.0 :1)		ET-D75LE5 (1.0 : 1)
Minimum			Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
70	0.871 (2'10")	1.549 (5'1")	3.062 (10'1")	4.090 (13'5")	4.133 (13'7")	6.196 (20'4")	6.258 (20'7")	10.326 (34'0")	10.332 (34'0")	16.845 (55'5")	1.535 (5'1")
80	0.996 (3'3")	1.771 (5'10")	3.510 (11'6")	4.688 (15'5")	4.735 (15'7")	7.097 (23'4")	7.166 (23'7")	11.819 (38'11")	11.824 (38'11")	19.266 (63'4")	1.766 (5'10")
90	1.120 (3'8")	1.992 (6'7")	3.959 (13'0")	5.287 (17'4")	5.337 (17'7")	7.997 (26'3")	8.074 (26'7")	13.311 (43'9")	13.317 (43'10")	21.687 (71'4")	1.998 (6'7")
100	1.245 (4'1")	2.214 (7'3")	4.407 (14'6")	5.885 (19'4")	5.939 (19'6")	8.897 (29'6")	8.982 (29'6")	14.804 (48'8")	14.809 (48'9")	24.108 (79'3")	2.229 (7'4")
120	1.494 (4'11")	2.657 (8'9")	5.304 (17'5")	7.083 (23'3")	7.143 (23'6")	10.698 (35'2")	10.798 (35'6")	17.788 (58'6")	17.794 (58'6")	28.950 (95'2")	2.692 (8'10")
150	1.868 (6'2")	3.321 (10'11")	6.649 (21'10")	8.878 (29'2")	8.949 (29'5")	13.399 (44'1")	13.522 (44'6")	22.266 (73'3")	22.271 (73'3")	36.213 (119'1")	3.386 (11'2")
200	2.491 (8'2")	4.428 (14'6")	8.890 (29'37")	11.871 (39'0")	11.958 (39'4")	17.901 (58'11")	18.081 (59'6")	29.728 (97'10")	29.734 (97'10")	48.318 (158'11")	4.542 (14'11")
250	3.113 (10'3")	5.535 (18'2")	11.132 (36'7")	14.865 (48'11")	14.968 (49'3")	22.403 (73'8")	22.601 (74'4")	37.190 (122'4")	37.196 (122'4")	60.424 (198'9")	5.699 (18'19")
300	3.736 (12'3")	6.641 (21'70")	13.374 (44'0")	17.858 (58'9")	17.979 (59'11")	26.905 (88'6")	27.140 (89'3")	44.652 (146'11")	44.658 (146'11")	72.529 (238'7")	6.855 (22'7")
350	4.358 (14'4")	7.748 (25'5")	15.616 (51'4")	20.851 (68'7")	20.987 (69'0")	31.407 (103'4")	31.680 (104'2")	52.114 (171'5")	52.120 (171'5")	84.634 (278'5")	-----
400	4.981 (16'4")	8.855 (29'0")	17.857 (58'9")	23.844 (78'5")	23.997 (78'11")	35.909 (118'11")	36.219 (119'1")	59.577 (196'0")	59.582 (196'0")	96.740 (318'2")	-----
500	6.226 (20'5")	11.069 (36'4")	22.341 (73'6")	29.830 (98'0")	30.018 (98'9")	44.913 (147'11")	45.298 (149'0")	74.501 (245'1")	74.507 (245'1")	120.950 (397'10")	-----
600	7.472 (24'7")	13.282 (43'8")	26.824 (88'3")	35.816 (117'10")	36.035 (118'6")	53.917 (177'4")	54.377 (178'11")	89.425 (294'2")	89.431 (294'2")	145.161 (477'16")	-----

Note

- The projection distances listed here involve an error of $\pm 5\%$.
- Keystone distortions are corrected in the way the screen size becomes smaller than the original one.

Projection distances by the type of projection lenses (for PT-D7600U)

• For the screen aspect ratio of 5:4

Units: m (feet/inches)

Screen size (inch)	Screen dimensions		Projection distance (L)								
			Zoom lens								Fixed-focus lens
	Effective height (SH)	Effective width(SW)	ET-D75LE1/SC (1.5-2.0 :1)		ET-D75LE2/SC (2.0-3.0 : 1)		ET-D75LE3/SC (3.0-5.0 :1)		ET-D75LE4/SC(5.0-8.0 :1)		ET-D75LE5 (0.8 : 1)
Minimum			Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum		
70	1.111 (3'8")	1.389 (4'7")	2.17 (7'2")	2.89 (9'6")	2.92 (9'7")	4.41 (14'6")	4.42 (14'6")	7.40 (24'4")	7.41 (24'5")	11.97 (39'4")	1.13 (3'9")
80	1.270 (4'2")	1.587 (5'3")	2.49 (8'2")	3.32 (10'11")	3.35 (11'0")	5.05 (16'7")	5.06 (16'7")	8.48 (27'11")	8.48 (27'11")	13.69 (45'0")	1.29 (4'3")
90	1.428 (4'4")	1.785 (5'11")	2.81 (9'3")	3.74 (12'4")	3.78 (12'5")	5.70 (18'9")	5.71 (18'9")	9.55 (31'5")	9.56 (31'5")	15.41 (50'7")	1.45 (4'9")
100	1.587 (5'3")	1.984 (6'6")	3.13 (10'4")	4.17 (13'9")	4.21 (13'10")	6.34 (20'10")	6.35 (20'10")	10.63 (35'0")	10.63 (35'0")	17.14 (56'5")	1.62 (5'4")
120	1.905 (6'3")	2.381 (7'10")	3.78 (11'1")	5.02 (16'6")	5.07 (16'8")	7.63 (25'1")	7.64 (25'2")	12.78 (42'0")	12.78 (42'0")	20.59 (67'9")	1.94 (6'5")
150	2.381 (7'10")	2.976 (9'10")	4.74 (15'7")	6.30 (20'9")	6.36 (20'11")	9.57 (31'6")	9.58 (31'6")	16.00 (52'8")	16.01 (52'8")	25.70 (84'7")	2.43 (8'0")
200	3.175 (10'5")	3.968 (13'1")	6.34 (20'10")	8.44 (27'9")	8.50 (28'0")	12.79 (42'1")	12.80 (42'1")	21.38 (70'4")	21.38 (70'4")	34.38 (113'1")	3.24 (10'8")
250	3.968 (13'1")	4.960 (16'4")	7.95 (26'2")	10.57 (34'9")	10.65 (35'0")	16.02 (52'8")	16.03 (52'8")	26.75 (88'0")	26.76 (88'0")	43.00 (141'5")	4.05 (13'4")
300	4.762 (15'8")	5.953 (19'7")	9.55 (31'5")	12.71 (41'10")	12.79 (42'1")	19.24 (63'3")	19.25 (63'4")	32.13 (105'8")	32.13 (105'8")	51.62 (169'10")	4.86 (16'0")
350	5.556 (18'3")	6.945 (22'10")	11.16 (36'9")	14.84 (48'10")	14.94 (49'2")	22.47 (73'11")	22.48 (74'0")	37.50 (123'4")	37.51 (123'4")	60.24 (198'2")	-----
400	6.350 (20'11")	7.937 (26'1")	12.76 (42'0")	16.98 (55'10")	17.08 (56'2")	25.69 (84'6")	25.70 (84'7")	42.88 (141'1")	42.88 (141'1")	68.86 (226'6")	-----
500	7.937 (26'1")	9.921 (32'8")	15.97 (52'7")	21.25 (69'11")	21.37 (70'4")	32.14 (105'9")	32.15 (105'10")	53.63 (176'5")	53.63 (176'5")	86.10 (283'3")	-----
600	9.520 (31'4")	11.906 (39'2")	19.18 (63'1")	25.52 (83'11")	25.66 (84'5")	38.59 (126'11")	38.60 (127'0")	64.38 (211'10")	64.38 (211'10")	103.34 (339'11")	-----

Note

- The projection distances listed here involve an error of ±5%.
- Keystone distortions are corrected in the way the screen size becomes smaller than the original one.

Installation

Projection distances by the type of projection lenses (for PT-D7600U)

• For the screen aspect ratio of 16:9

Units: m (feet/inches)

Screen size (inch)	Screen dimensions		Projection distance (L)								
			Zoom lens								Fixed-focus lens
	Effective height (SH)	Effective width(SW)	ET-D75LE1/SC (1.5-2.0 :1)		ET-D75LE2/SC (2.0-3.0 :1)		ET-D75LE3/SC (3.0-5.0 :1)		ET-D75LE4/SC (5.0-8.0 :1)		ET-D75LE5 (0.8 : 1)
Minimum			Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum		
70	0.871 (2'10")	1.549 (5'1")	2.428 (8'0")	3.238 (10'8")	3.273 (10'9")	4.934 (16'3")	4.944 (16'3")	8.279 (27'3")	8.285 (27'3")	13.368 (44'0")	1.263 (4'2")
80	0.996 (3'3")	1.771 (5'10")	2.785 (9'2")	3.715 (12'3")	3.752 (12'4")	5.654 (18'7")	5.664 (18'8")	9.479 (31'2")	9.485 (31'3")	15.293 (50'4")	1.444 (4'9")
90	1.120 (3'8")	1.992 (6'7")	3.143 (10'4")	4.192 (13'10")	4.231 (14'0")	6.374 (21'0")	6.386 (21'0")	10.680 (35'2")	10.685 (35'2")	17.217 (56'8")	1.624 (5'7")
100	1.245 (4'1")	2.214 (7'3")	3.501 (11'6")	4.669 (15'4")	4.711 (15'6")	7.094 (23'4")	7.105 (23'5")	11.880 (39'1")	11.886 (39'1")	19.142 (63'0")	1.805 (5'11")
120	1.494 (4'11")	2.657 (8'4")	4.216 (13'11")	5.623 (18'6")	5.669 (18'8")	8.534 (28'1")	8.545 (28'1")	14.280 (47'0")	14.286 (47'0")	22.990 (75'8")	2.167 (7'1")
150	1.868 (6'2")	3.321 (10'11")	5.290 (17'5")	7.054 (23'2")	7.106 (23'4")	10.695 (35'2")	10.705 (35'1")	17.881 (58'10")	17.886 (58'10")	28.764 (94'8")	2.710 (8'11")
200	2.491 (8'2")	4.428 (14'6")	7.078 (23'3")	9.439 (31'1")	9.501 (31'3")	14.295 (47'0")	14.306 (47'1")	23.882 (78'7")	23.887 (78'7")	38.386 (126'3")	3.614 (11'11")
250	3.113 (10'3")	5.535 (18'2")	8.867 (29'2")	11.824 (38'11")	11.896 (39'2")	17.896 (58'10")	17.906 (58'11")	29.882 (98'4")	29.888 (98'4")	48.009 (157'11")	4.519 (14'11")
300	3.736 (12'3")	6.641 (21'10")	10.656 (35'1")	14.209 (46'9")	14.291 (47'1")	21.496 (70'9")	21.507 (70'9")	35.883 (118'0")	35.889 (118'1")	57.630 (189'7")	5.423 (17'10")
350	4.358 (14'4")	7.748 (25'5")	12.444 (41'0")	16.594 (54'7")	16.686 (54'11")	25.097 (82'7")	25.107 (82'7")	41.884 (137'10")	41.890 (137'10")	67.252 (221'3")	-----
400	4.981 (16'4")	8.855 (29'0")	14.233 (46'10")	18.979 (62'5")	19.082 (62'9")	28.697 (94'5")	28.708 (94'5")	47.885 (157'6")	47.891 (157'7")	76.874 (252'11")	-----
500	6.226 (20'5")	11.069 (36'4")	17.811 (58'7")	23.749 (78'1")	23.872 (78'6")	35.898 (118'1")	35.909 (118'2")	59.893 (197'0")	59.893 (197'0")	96.118 (316'2")	-----
600	7.472 (24'7")	13.282 (43'8")	21.388 (70'4")	28.519 (93'10")	28.662 (94'3")	43.099 (141'10")	43.110 (141'10")	71.894 (236'6")	71.894 (236'6")	115.362 (379'6")	-----

- Note**
- The projection distances listed here involve an error of ±5%.
 - Keystone distortions are corrected in the way the screen size becomes smaller than the original one.

If the projector is used with a screen size not listed in this manual, check the diagonal dimension (inch) of your screen and calculate the projection distance using the following formulas.

Calculation formulas for projection distance by lens types (for PT-D7500U)

Model number of projection lens		Aspect ratio	Projection distance (L) formula	Units: m	
Zoom lens	ET-D75LE1 ET-D75LE1SC (1.87–2.5 :1)	4:3	Minimal distance: $L=0.0412 \times \text{Screen diagonal (inch)} - 0.0760$ Maximal distance: $L=0.0549 \times \text{Screen diagonal (inch)} - 0.1003$		
		16:9	Minimal distance: $L=0.0443 \times \text{Screen diagonal (inch)} - 0.0759$ Maximal distance: $L=0.0598 \times \text{Screen diagonal (inch)} - 0.1002$		
	ET-D75LE2 ET-D75LE2SC (2.5–3.75 :1)	4:3	Minimal distance: $L=0.0552 \times \text{Screen diagonal (inch)} - 0.0795$ Maximal distance: $L=0.0826 \times \text{Screen diagonal (inch)} - 0.1061$		
		16:9	Minimal distance: $L=0.0601 \times \text{Screen diagonal (inch)} - 0.0794$ Maximal distance: $L=0.0899 \times \text{Screen diagonal (inch)} - 0.1060$		
	ET-D75LE3 ET-D75LE3SC (3.75–6.25 :1)	4:3	Minimal distance: $L=0.0833 \times \text{Screen diagonal (inch)} - 0.0963$ Maximal distance: $L=0.137 \times \text{Screen diagonal (inch)} - 0.1203$		
		16:9	Minimal distance: $L=0.090 \times \text{Screen diagonal (inch)} - 0.0963$ Maximal distance: $L=0.0149 \times \text{Screen diagonal (inch)} - 0.1023$		
	ET-D75LE4 ET-D75LE4SC (6.25–10.0 :1)	4:3	Minimal distance: $L=0.137 \times \text{Screen diagonal (inch)} - 0.1146$ Maximal distance: $L=0.2222 \times \text{Screen diagonal (inch)} - 0.1023$		
		16:9	Minimal distance: $L=0.1491 \times \text{Screen diagonal (inch)} - 0.1145$ Maximal distance: $L=0.2418 \times \text{Screen diagonal (inch)} - 0.1022$		
	Fixed-focus lens	ET-D75LE5 (1.0 :1)	4:3	$L= 0.0212 \times \text{Screen diagonal (inch)} - 0.0836$	
			16:9	$L= 0.0231 \times \text{Screen diagonal (inch)} - 0.0836$	

Calculation formulas for projection distance by lens types (for PT-D7600U)

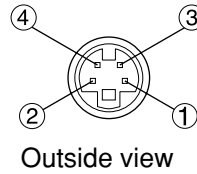
Model number of projection lens		Aspect ratio	Projection distance (L) formula	Units: m	
Zoom lens	ET-D75LE1 ET-D75LE1SC (1.5–2.0 :1)	5:4	Minimal distance: $L=0.0321 \times \text{Screen diagonal (inch)} - 0.0761$ Maximal distance: $L=0.0427 \times \text{Screen diagonal (inch)} - 0.1003$		
		16:9	Minimal distance: $L=0.0352 \times \text{Screen diagonal (inch)} - 0.0761$ Maximal distance: $L=0.0469 \times \text{Screen diagonal (inch)} - 0.1002$		
	ET-D75LE2 ET-D75LE2SC (2.0–3.0: 1)	5:4	Minimal distance: $L=0.0429 \times \text{Screen diagonal (inch)} - 0.0794$ Maximal distance: $L=0.0645 \times \text{Screen diagonal (inch)} - 0.1065$		
		16:9	Minimal distance: $L=0.0472 \times \text{Screen diagonal (inch)} - 0.0793$ Maximal distance: $L=0.0709 \times \text{Screen diagonal (inch)} - 0.1065$		
	ET-D75LE3 ET-D75LE3SC (3.0–5.0: 1)	5:4	Minimal distance: $L=0.0645 \times \text{Screen diagonal (inch)} - 0.0959$ Maximal distance: $L=0.1075 \times \text{Screen diagonal (inch)} - 0.1214$		
		16:9	Minimal distance: $L=0.7095 \times \text{Screen diagonal (inch)} - 0.0958$ Maximal distance: $L=0.1075 \times \text{Screen diagonal (inch)} - 0.1214$		
	ET-D75LE4 ET-D75LE4SC (5.0–8.0: 1)	5:4	Minimal distance: $L=0.1177 \times \text{Screen diagonal (inch)} - 0.1156$ Maximal distance: $L=0.1724 \times \text{Screen diagonal (inch)} - 0.102$		
		16:9	Minimal distance: $L=0.1182 \times \text{Screen diagonal (inch)} - 0.115$ Maximal distance: $L=0.1892 \times \text{Screen diagonal (inch)} - 0.102$		
	Fixed-focus lens	ET-D75LE5 (0.8 :1)	5:4	$L= 0.0162 \times \text{Screen diagonal (inch)} - 0.0032$	
			16:9	$L= 0.0212 \times \text{Screen diagonal (inch)} - 0.0318$	

Connection

■ Before starting connection

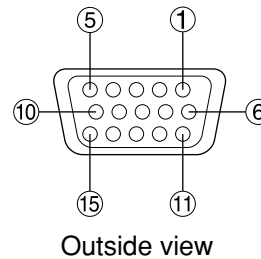
- Before connection, read carefully the instruction manual for the device to be connected.
- Turning off the power switch of the devices before connecting cables.
- If any connection cable is not supplied with the device, or if no optional cable is available for connection of the device, prepare a necessary system connection cable to suit the device.
- Video signals containing too much jitter may cause the images on the screen to randomly wobble or wafture. In this case, a time base corrector (TBC) must be connected.
- The projector accepts the following signals: video, S-Video, analog RGB and digital signals from the PC.
- Some PC models cannot be connected to the projector.

- The pin-out and signal names of the S-VIDEO IN terminal are shown in the diagram below.



Pin No.	Signal
①	Ground (luminance signal)
②	Ground (color signal)
③	Luminance signal
④	Color signal

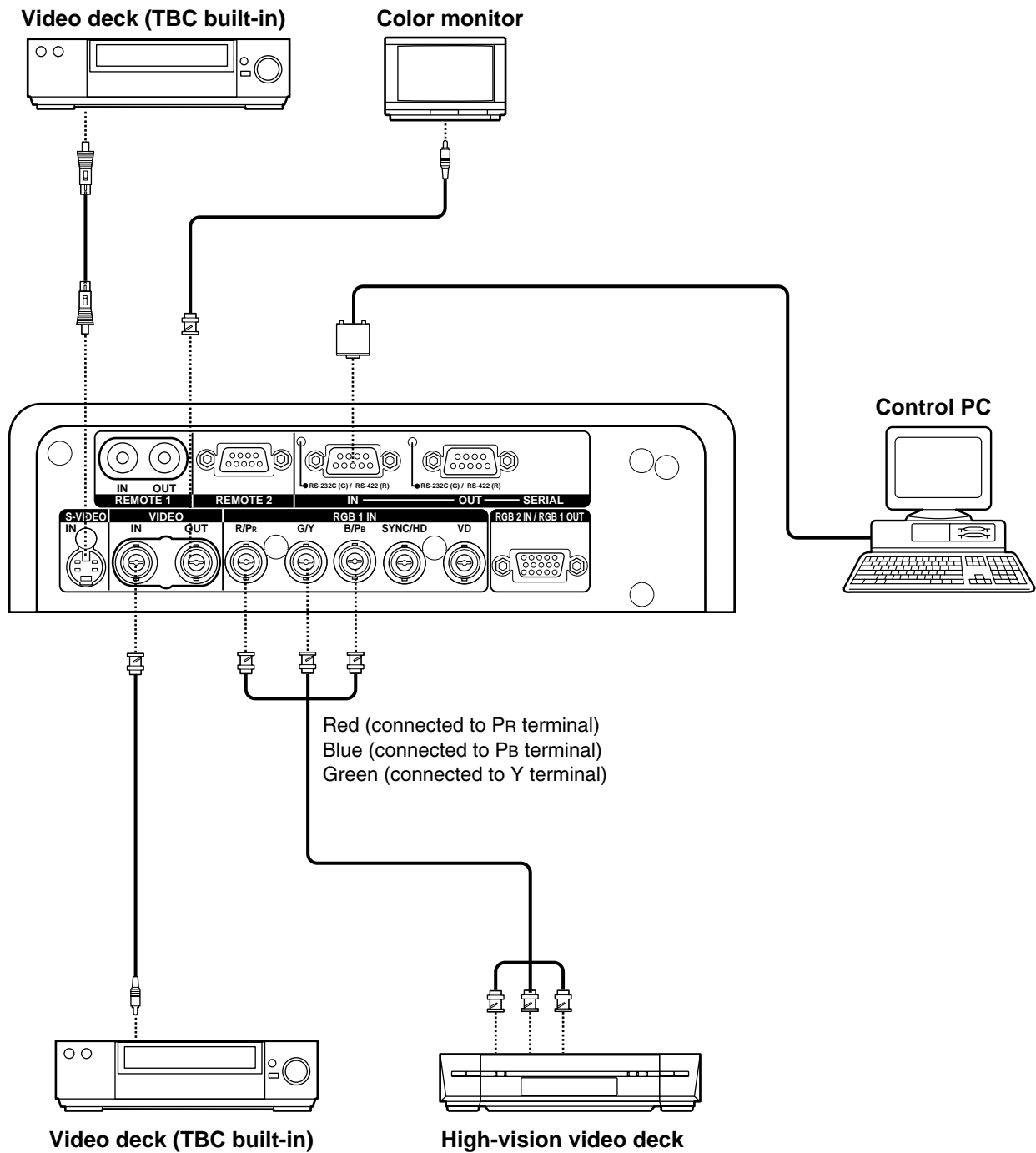
- The pin-out and signal names of the RGB2 input terminal are shown in the diagram below.



Pin No.	Signal
①	R/P _R
②	G/G · SYNC/Y
③	P _B
⑫	SDA
⑬	HD/SYNC
⑭	VD
⑮	SCL

- ④ and ⑨ are not assigned.
- ⑤ ~ ⑧, ⑩ and ⑪ are GND terminals.
- ⑫ and ⑮ are effective if the PC has the corresponding functions.

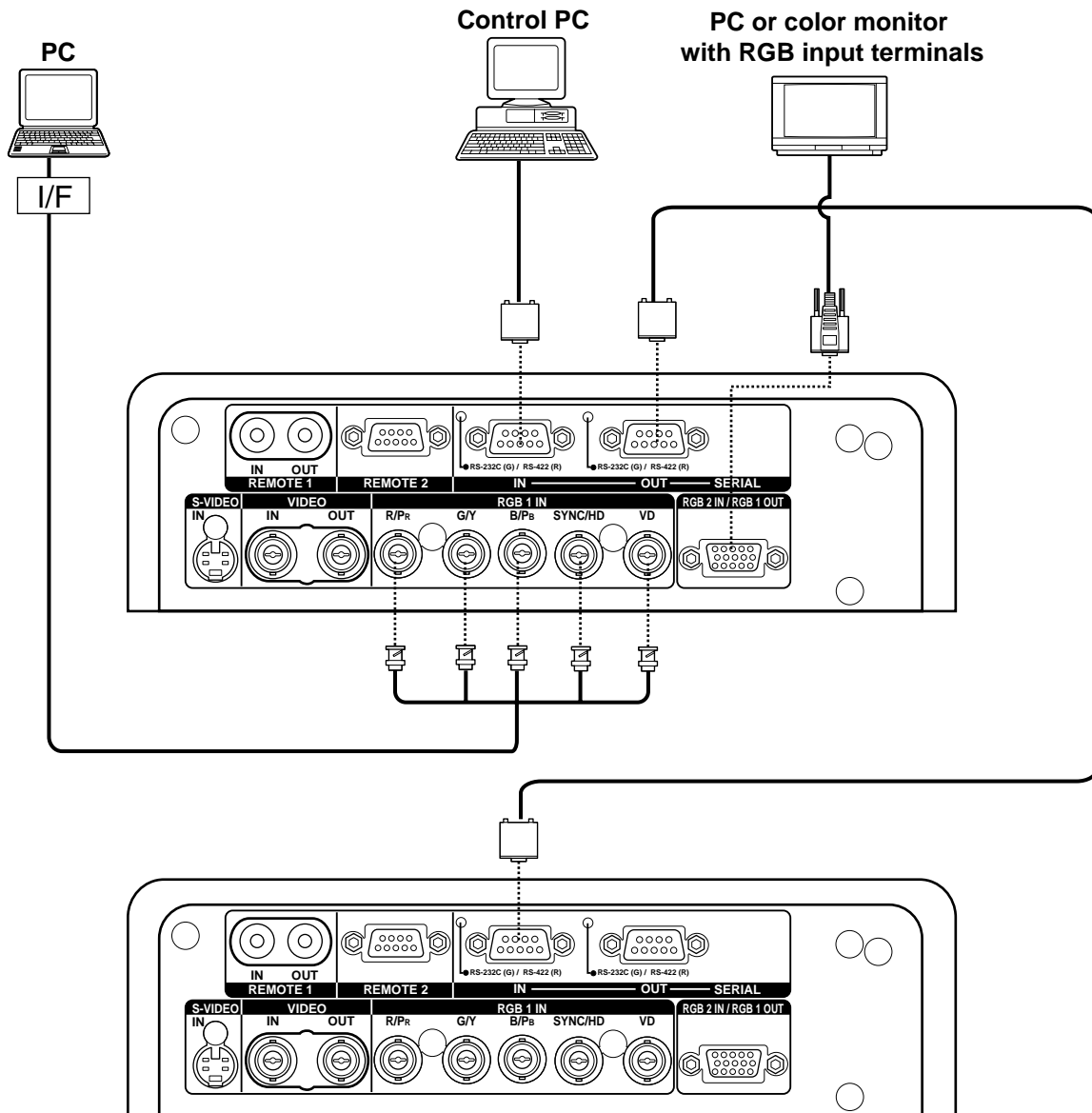
■ Example of connecting with VIDEO devices



Attention

- When connecting with a video deck, be sure to use the one with a built-in time base corrector (TBC) or use a TBC between the projector and the video deck.
- If nonstandard burst signals are connected, the image may be distorted. If this is the case, connect a TBC between the projector and the video deck.

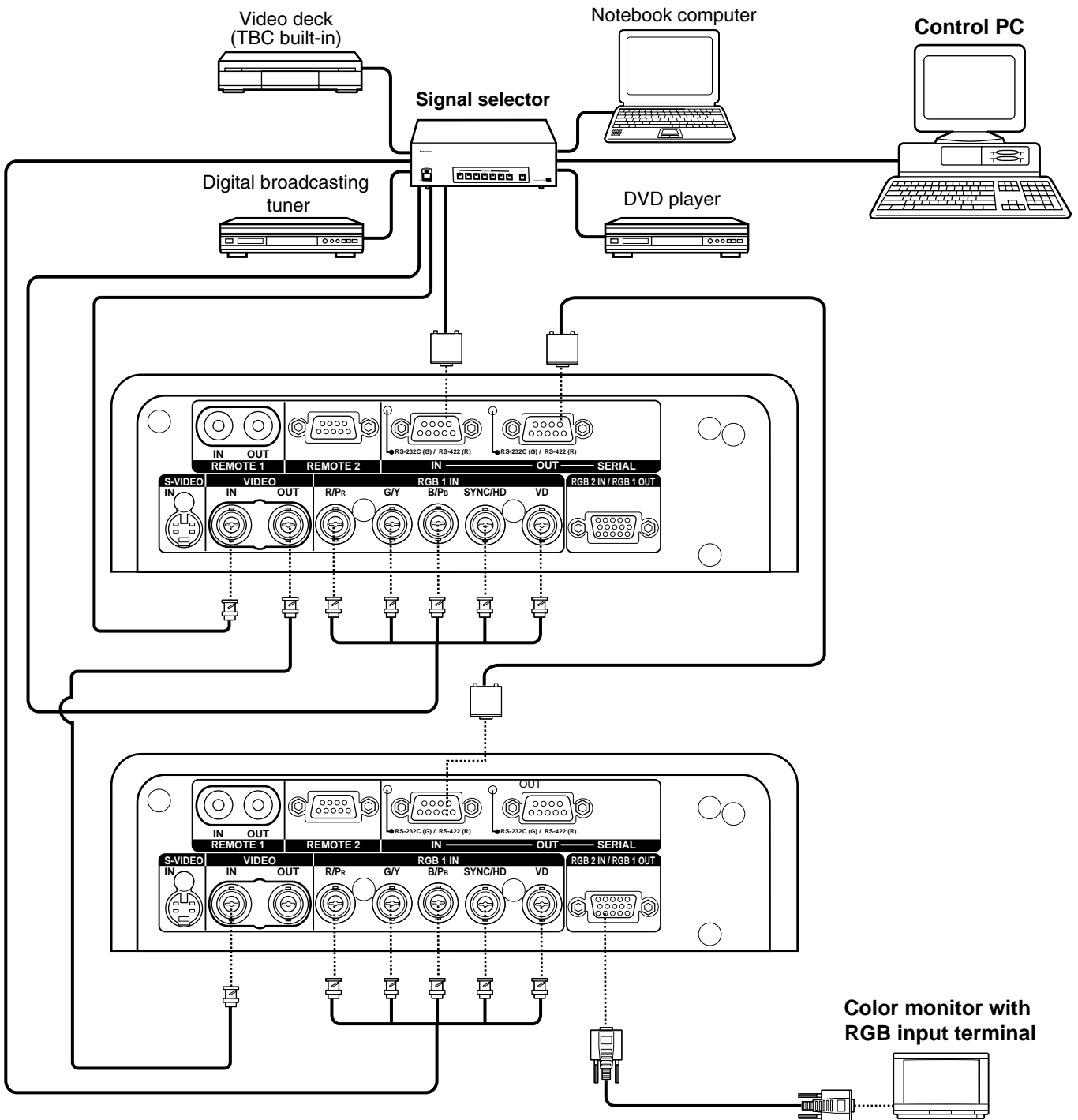
■ Example of connecting with personal computers



- Attention**
- When the main power of the main unit is turned off, also turn off the power of the PC.
 - When stacking projectors using RGB/YPbPr/YCbCr signals, divide the signals at the signal source and use RGB1 input for both projectors. When the RGB1 OUT is connected to the external RGB monitor, the image quality will be almost the same as that of checking monitors.

- Note**
- For the specifications of the RGB signals that can be applied from the PC, see the data sheet on page 101.
 - If your PC has the resume feature (last memory), the computer may not function properly until the resume capability is disabled.
 - The RGB 1 OUT (RGB 2) terminal will issue the signal that is connected to the input terminal of RGB1.

■ Example of connecting with the signal selector



Attention • When stacking projectors using RGB/YPbPr/YCbCr signals, divide the signals at the signal source and use RGB1 input for both projectors. When the RGB1 OUT is connected to the external RGB monitor, the image quality will be almost the same as that of checking monitors.

Note • Carefully read also the instruction manual for the signal selector.

Installation of input module (optional)

■ Installing the input module

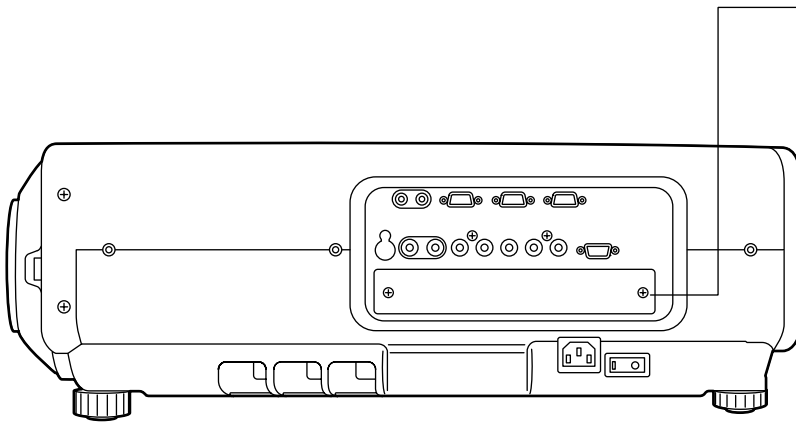
Types of the input modules (optional)

Prepare beforehand an input module (optional) compatible with the input signals of the system.

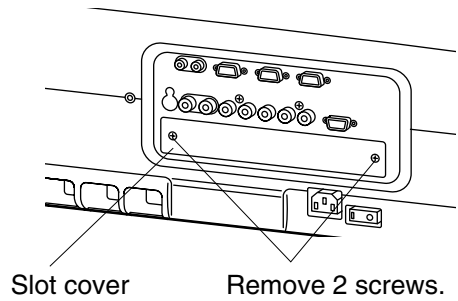
Input signal	Module model No.	Input signal level
Analog RGB signal	ET-MD95RGB	Image signal input: impedance of 75 Ω Synchronizing signal input: impedance of 75 Ω /1 kΩ R/PR/Cr: 0.7 V [p-p]: 1.0 V [p-p] for BETACAM input. G/Y: 0.7 V [p-p]: 1.0 V [p-p] for SYNC ON G/Y signal input. B/PB/Cb: 0.7 V [p-p]:1.0 V [p-p] for BETACAM input. 0.6 V [p-p]-4.0 V [p-p] for composite SYNC 75 Ω For 1 kΩ: TTL level Three value composite SYNC not supported For separate SYNC 75 Ω: 0.6 V [p-p] - 4.0 V [p-p] For 1 kΩ: TTL level Signals supporting analog RGB input modules fH: 15kHz-100kHz, fV: 24Hz -120Hz, Dot clock frequency: 20 MHz -162 MHz Signals supporting color-difference input Types Supported: 480i, 576i, 480p, 720/60p, 1080/60i(1035/60i), 1080/50i,1080/30p,1080/25p, 1080/24p, 1080/24sF
Video signal	ET-MD95VM2	Video/Y 1.0 V [p-p] C: 0.286 V [p-p] Cr / Cb: 0.7 V [p-p] Impedance: 75 Ω
Serial digital signal	ET-MD95SD1	SMPTE259M compliant
Serial digital signal	ET-MD95SD2	SMPTE259M/294M compliant
HD serial digital signal	ET-MD95SD3	SMPTE292M compliant
VGA, SVGA, XGA, SXGA	ET-MD75DV	DVI1.0 compliant Displayable resolution: VGA - SXGA Dot clock frequency: 25 MHz -112 MHz
Image file	ET-MD75NT	Format: BMP, JPEG, PNG Number of pixels: 1 024 x 768 dots Display colors: 65 536 colors Separate software is necessary to display image files. Please contact the dealer.

Procedure of installation

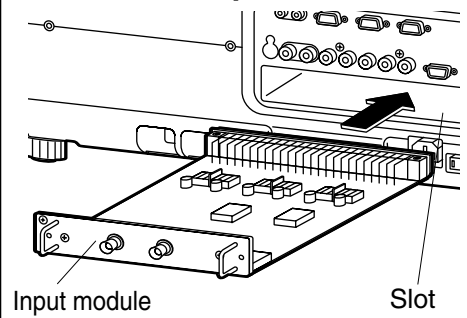
Disconnect the power before installing the input module.



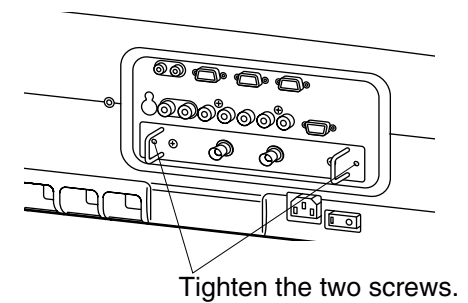
① Remove the slot cover.



② Insert the input module.



③ Fix the input module.

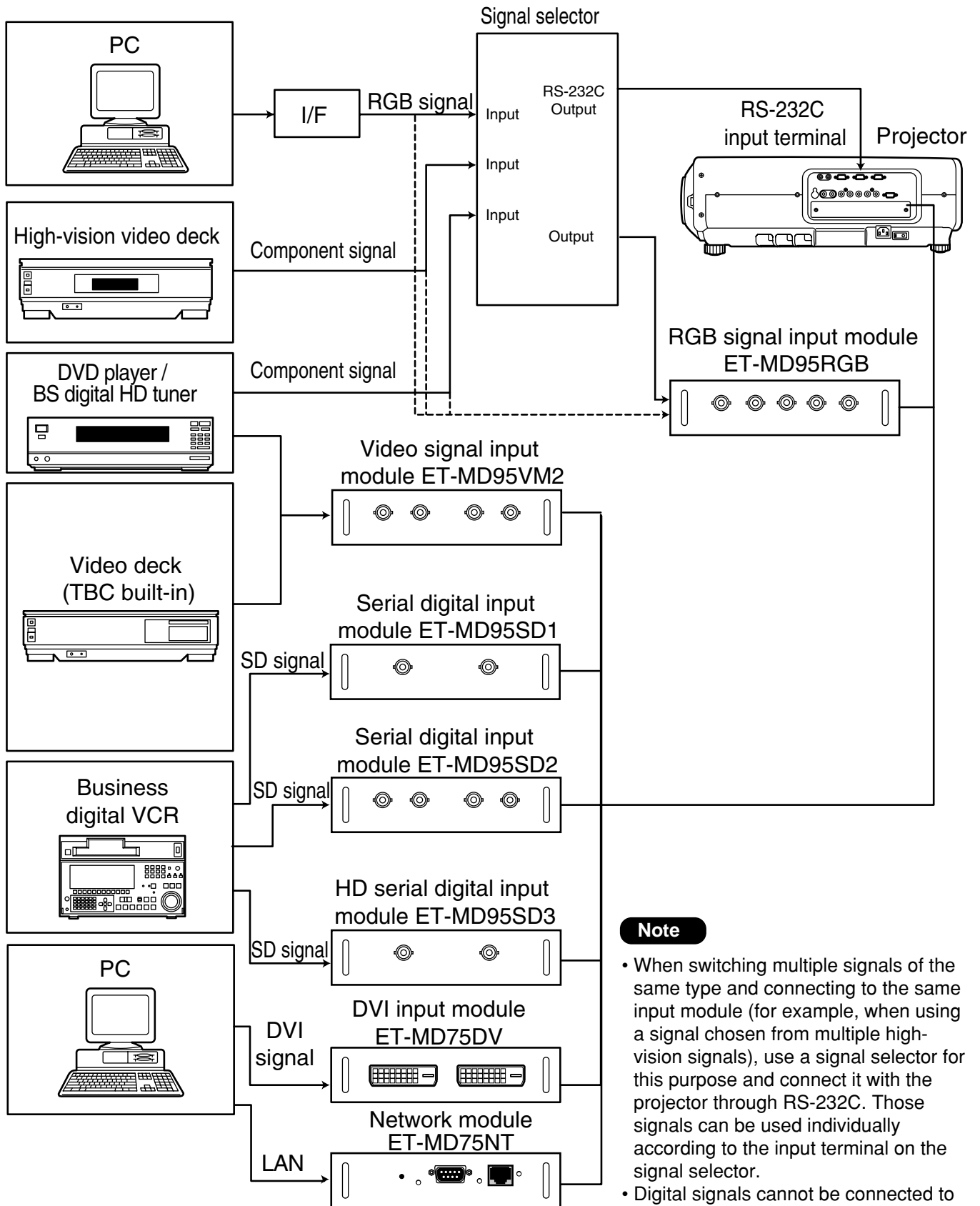


④ Register the input signal.

- This projector needs to register the type of input signal after the installation of the input module.
(For details on the registration of the input signals, refer to pages 43 and 46.)

■ Connecting signals to the input module

When installing the projector, it is necessary to connect signals to the input module in accordance with the connecting equipment.
Refer to the following diagram to establish proper connection.



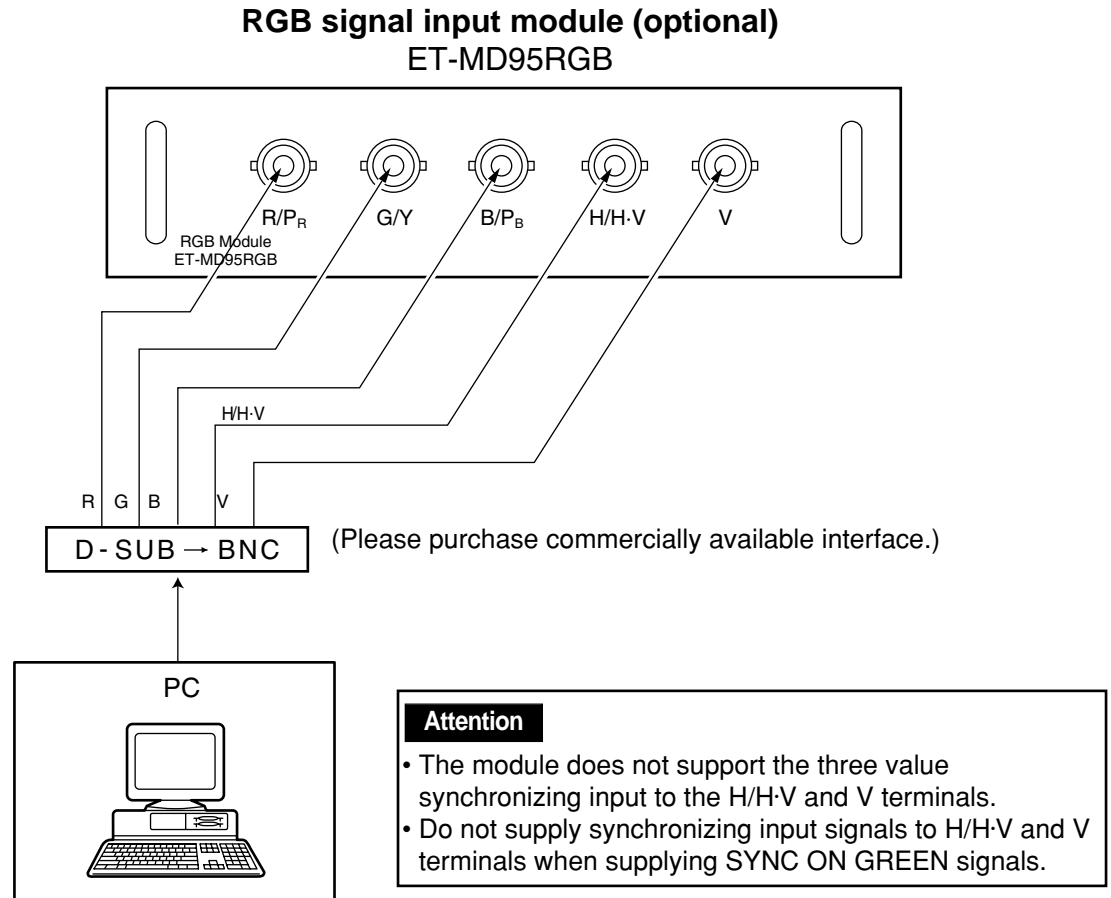
Note

- When switching multiple signals of the same type and connecting to the same input module (for example, when using a signal chosen from multiple high-vision signals), use a signal selector for this purpose and connect it with the projector through RS-232C. Those signals can be used individually according to the input terminal on the signal selector.
- Digital signals cannot be connected to the signal selector.

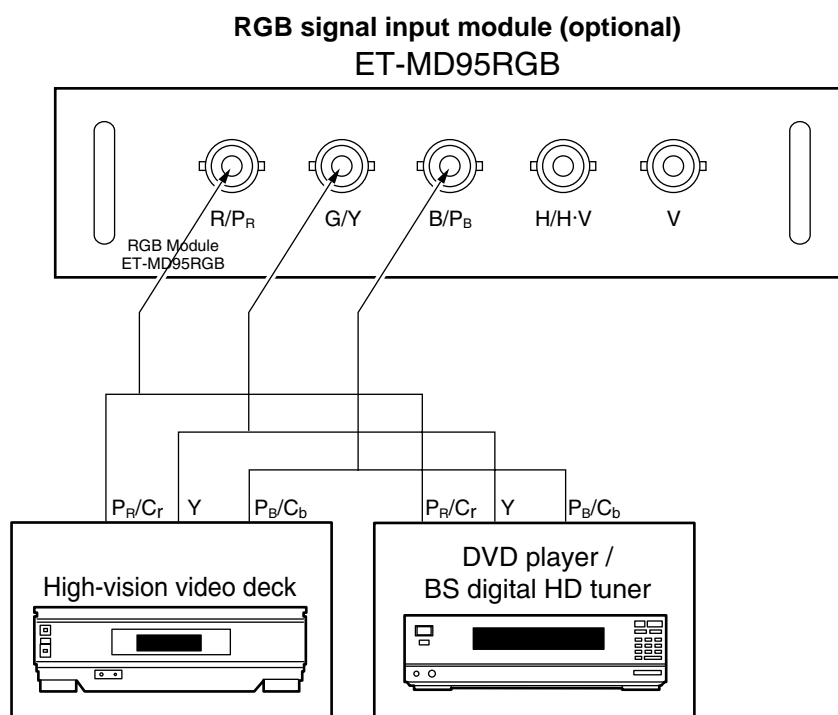
■ Connecting the signal to the analog RGB signal input module

An interface (D-SUB → BNC) is necessary to connect the projector with a PC using an analog RGB signal input module.

1. Connecting analog RGB signals



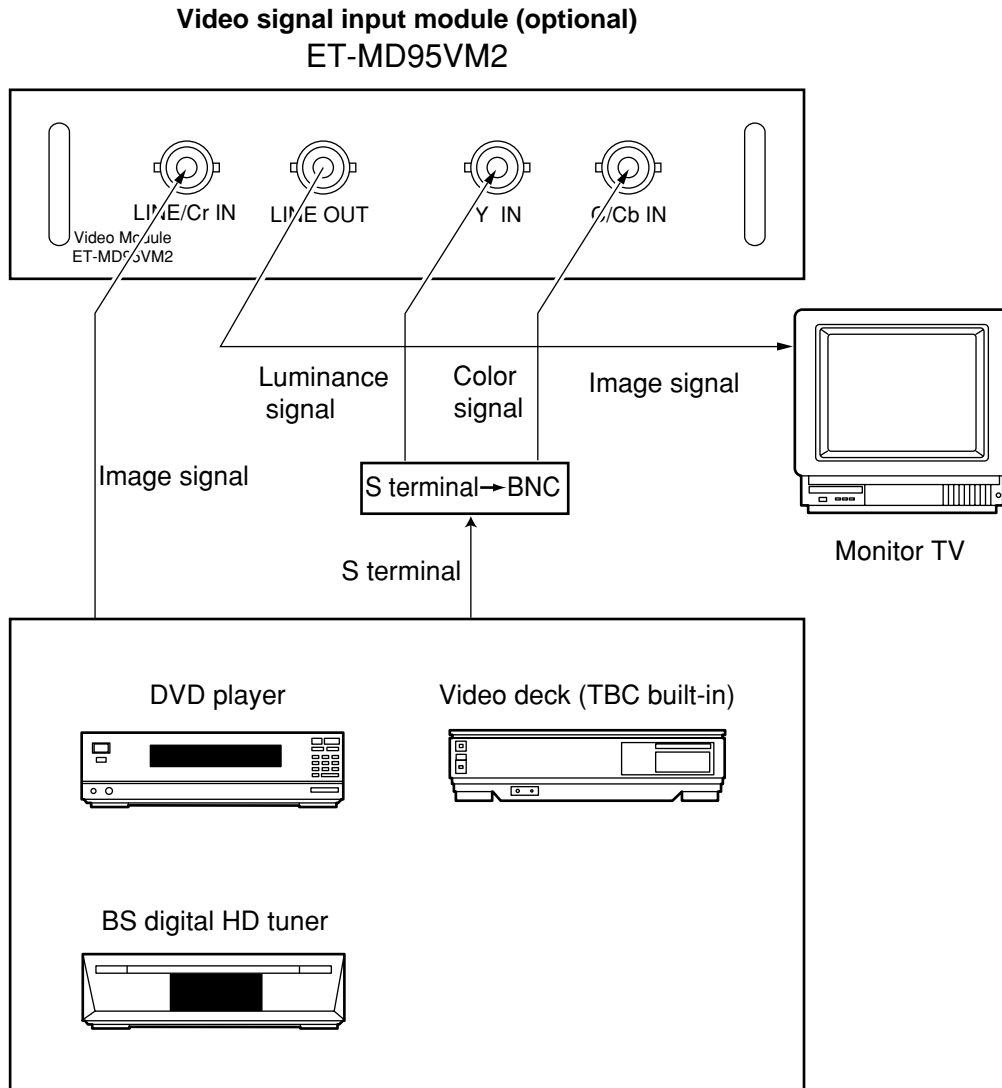
2. Connecting the component signals



Installation of input module (optional)

■ Connecting the signal to the video signal input module

1. Connecting the video signals



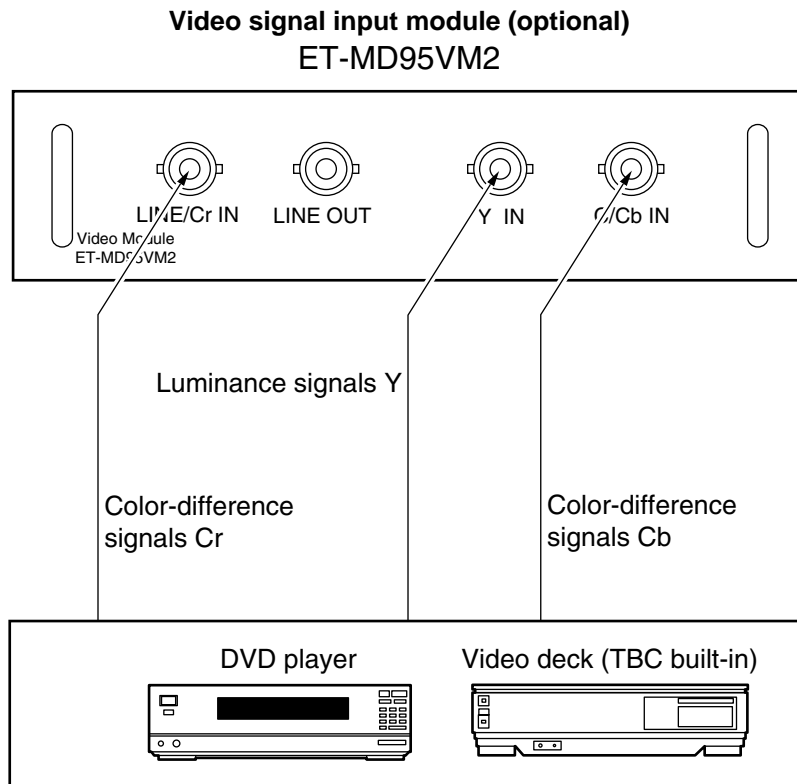
- An optional slot selector (AUX) button toggles between the LINE and Y/C input.

(Example) Each time AUX button is pressed,
LINE input → Y/C input

↑
The above cycle is repeated.

- When connecting with a video deck, be sure to use the one with built in TBC (time base corrector) or use the time base corrector between the projector and the video deck.
- If burst signals are connected to the nonstandard signals, the image may be distorted. If this is the case, connect the time base corrector between the projector and the video deck.

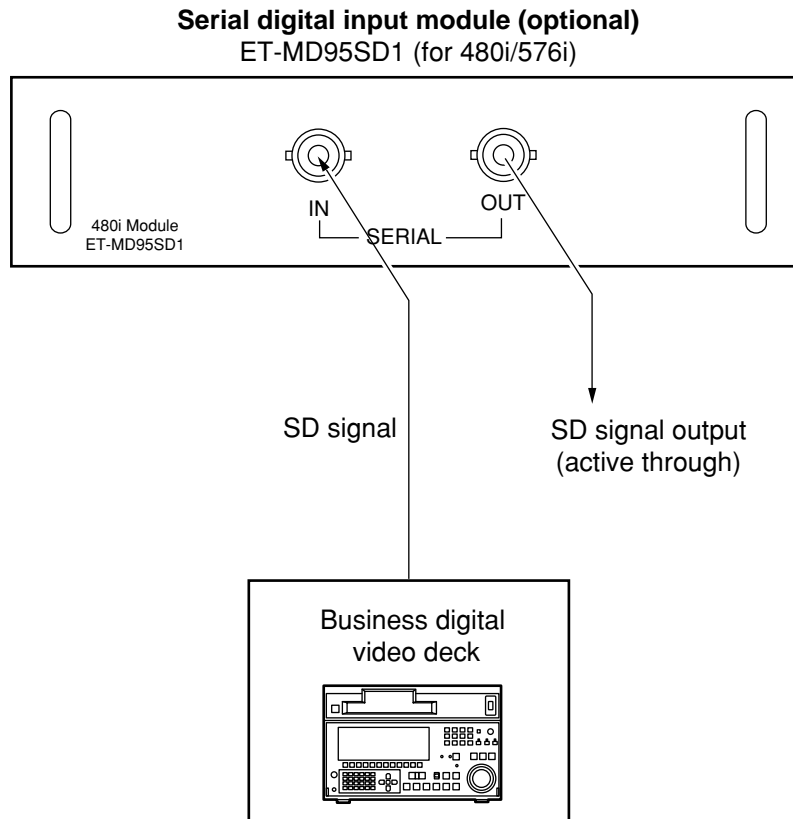
2. Connecting the component signals



- For details on switching between the video signals connection and the component signals connection, refer to the section for switching the signals of ET-MD95VM2 (optional) on page 67.

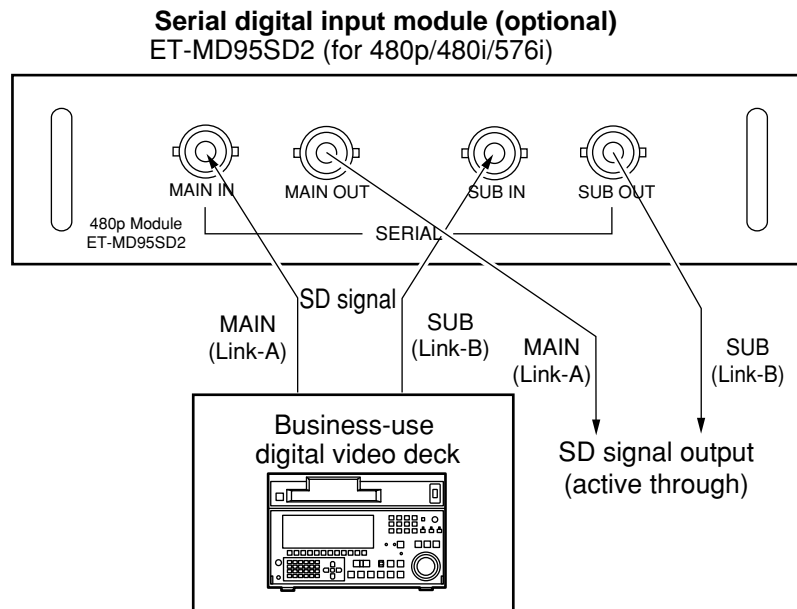
Installation of input module (optional)

■ Connecting the signal to the serial digital signal input module



- Insert the input module suitable for the input signal specifications.
- Use the SYSTEM SELECTOR button to toggle the systems of the input module that supports two types of signal specifications. Upon toggling, the input signals are displayed on the screen and cleared automatically.

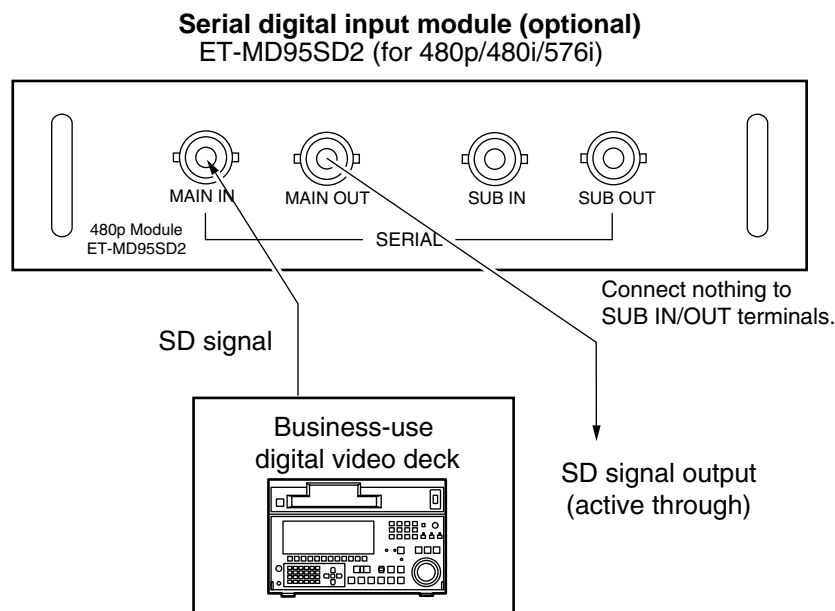
1. For 480p dual link (4:2:2p) SMPTE294M-compliant, 720x483 active line 59.94 Hz progressive scan 270 Mbps



2. 1) For 480p single link (4:2:0p) SMPTE294M-compliant, 720x483 active line 59.94 Hz progressive scan 360 Mbps

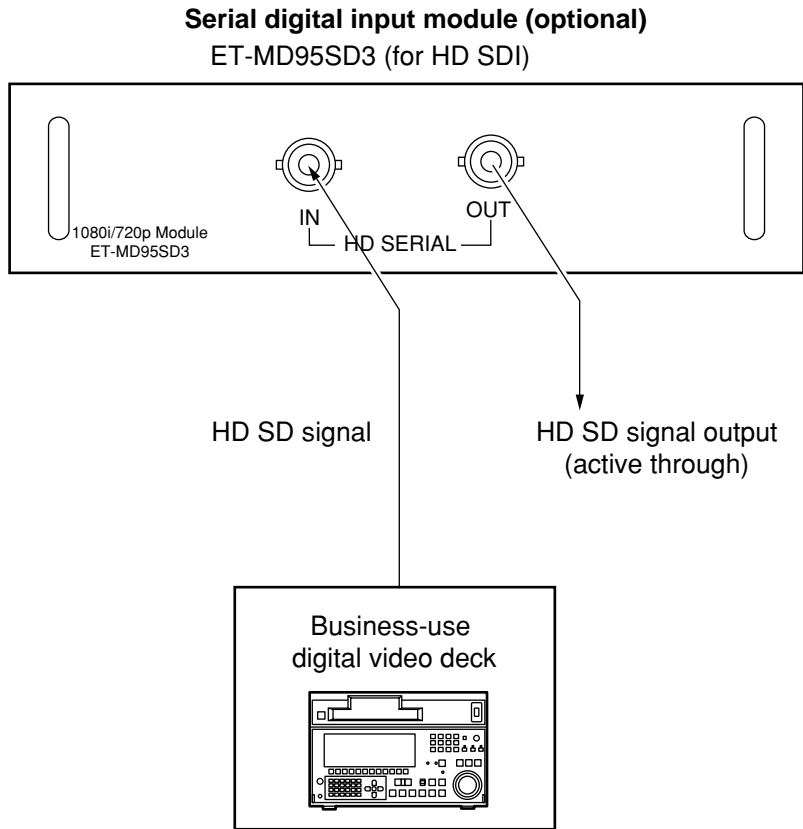
2) For 480i (4:2:2): SMPTE259M-compliant, 59.94 Hz 525 Line 270 Mbps

3) For 576i (4:2:2): SMPTE259M-compliant, 50 Hz 625 Line 270 Mbps

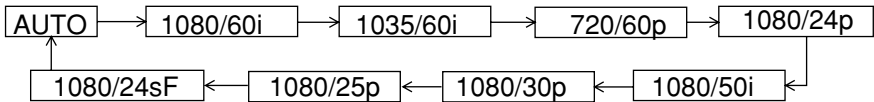


- Insert the input module that meets the input signal specifications.
- Use the SYSTEM SELECTOR button to select the input module that meets desired one of the above four types of signal specifications. While toggling through those four types, input signal and other information are displayed and cleared on the screen automatically.
- Normally, use SYSTEM SELECTOR in "AUTO".
- Automatic detection may malfunction if connection is made in any other way than listed above or if any unstable signal is connected. If this happens, switch to a system that is compatible with the signal format using the SYSTEM SELECTOR button.
- Use a 3C2W or superior cable for connection to transmit the image information without error. (Example: 3C2W, 3CFB, 4CFB, 5C2W, 5CFB, 5CFTX, 7CFB etc.)

Installing the input module (optional)

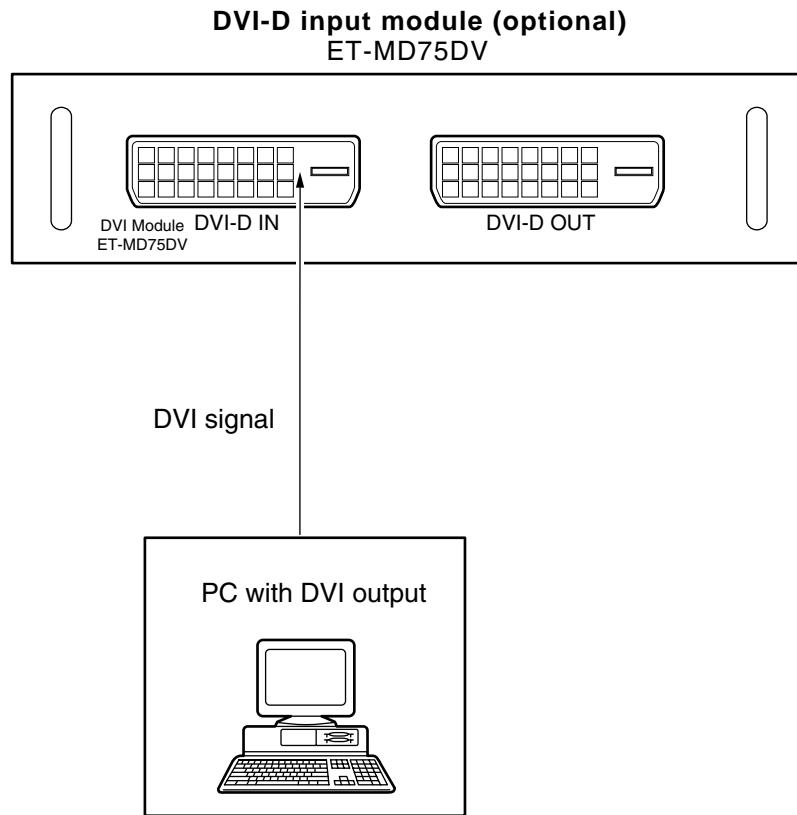


- Insert the input module that meets the input signal specifications.
- Use the SYSTEM SELECTOR button to select the input module that meets desired one of the eight types (14 formats) of signal specifications (SMPTE292M). While toggling through those eight types, input signal and other information are displayed and cleared on the screen automatically.

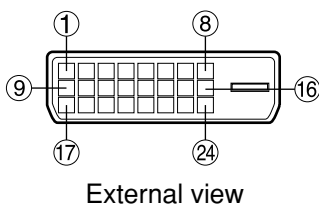


- Normally, use SYSTEM SELECTOR in “AUTO”.
- Automatic detection may malfunction if connection is made in any other way than listed above or if any unstable signal is connected. If this happens, switch to a system that is compatible with the signal format using the SYSTEM SELECTOR button.
- Use a 5CFB or superior cable for connection to transmit the image information without error. (Example: 5CFB, 5CFTX, 7CFB etc.)

■ Connecting signals to the DVI signal input module



- Pin assignments and signal names of DVI-D input terminal are listed in the table at right (terminal for TMDS-equipped PC).

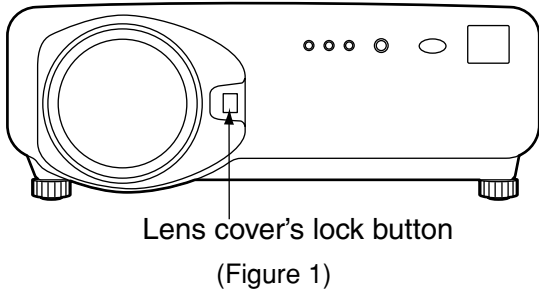


Pin No.	Signal	Pin No.	Signal
①	TMDS data 2-	⑬	T.M.D.S data 3+
②	TMDS data 2+	⑭	+5V
③	TMDS data 2 / 4 shield	⑮	Ground
		⑯	Hot plug detection
④	T.M.D.S data 4-	⑰	T.M.D.S data 0-
⑤	T.M.D.S data 4+	⑱	T.M.D.S data 0+
⑥	DDC clock	⑲	T.M.D.S data 0/5 shield
⑦	DDC data		
⑧	—	⑳	T.M.D.S data 5-
⑨	T.M.D.S data 1-	㉑	T.M.D.S data 5+
⑩	T.M.D.S data 1+	㉒	T.M.D.S clock shield
⑪	T.M.D.S data 1/3 shield		
⑫	T.M.D.S data 3-	㉓	T.M.D.S clock+
		㉔	T.M.D.S clock-

How to install and remove the projection lens (optional)

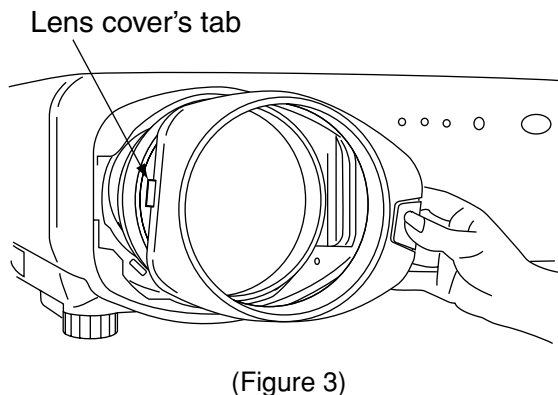
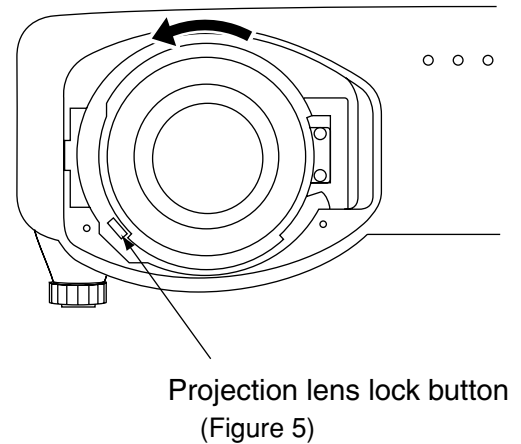
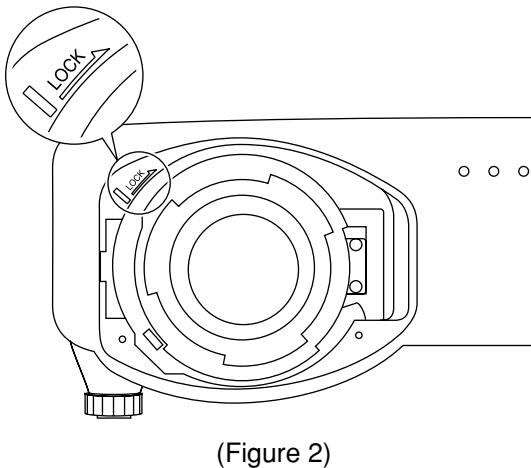
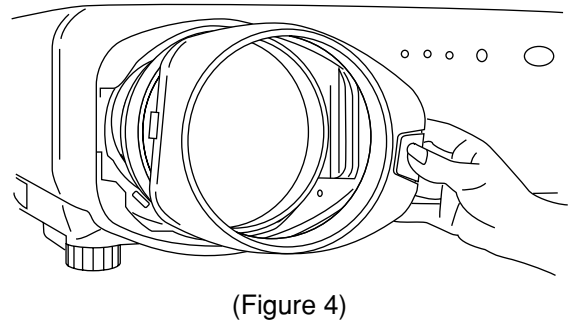
■ How to install the projection lens

- ① While pressing the lock button on the projection lens cover, pull the cover forward to remove it. (Figure 1)
- ② Pull and remove the dustproof sheet on the back of the projection lens cover.
- ③ Insert while aligning the projection lens side mark (orange) with the set side mark. (Figure 2)
- ④ Turn the lens clockwise until it clicks.
- ⑤ Insert the tab at the left of the projection lens cover into the projector and while pressing the lock button, mount the projection lens cover. (Figure 3)

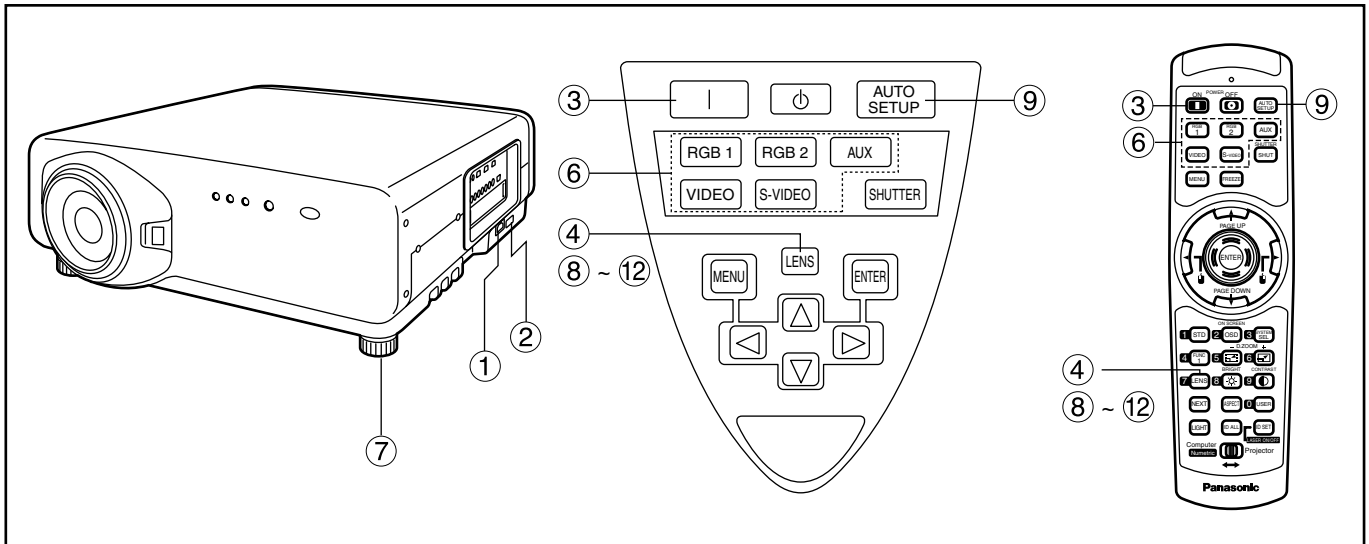


■ How to remove the projection lens

- ① While pressing the lock button on the projection lens cover, pull the cover forward to remove it. (Take care not to break the tab) (Figure 4)
- ② While pressing the lock button, turn the projection lens anticlockwise. (Figure 5)
- ③ Pull the projection lens.



Projection



■ Powering up the projector

- ① **Connect the supplied power cable. (120 V AC, 50 Hz/60 Hz)**
- ② **Press the “I” marked side of the MAIN POWER switch to turn on the power.**
The power indicator lamp on the projector will flash in red. After a short period, the indicator will illuminate and the projector will enter standby mode.
- ③ **Press the “I” button. [on the main unit or the remote control]**
The power indicator lamp illuminates in green and soon the image is projected on the screen.

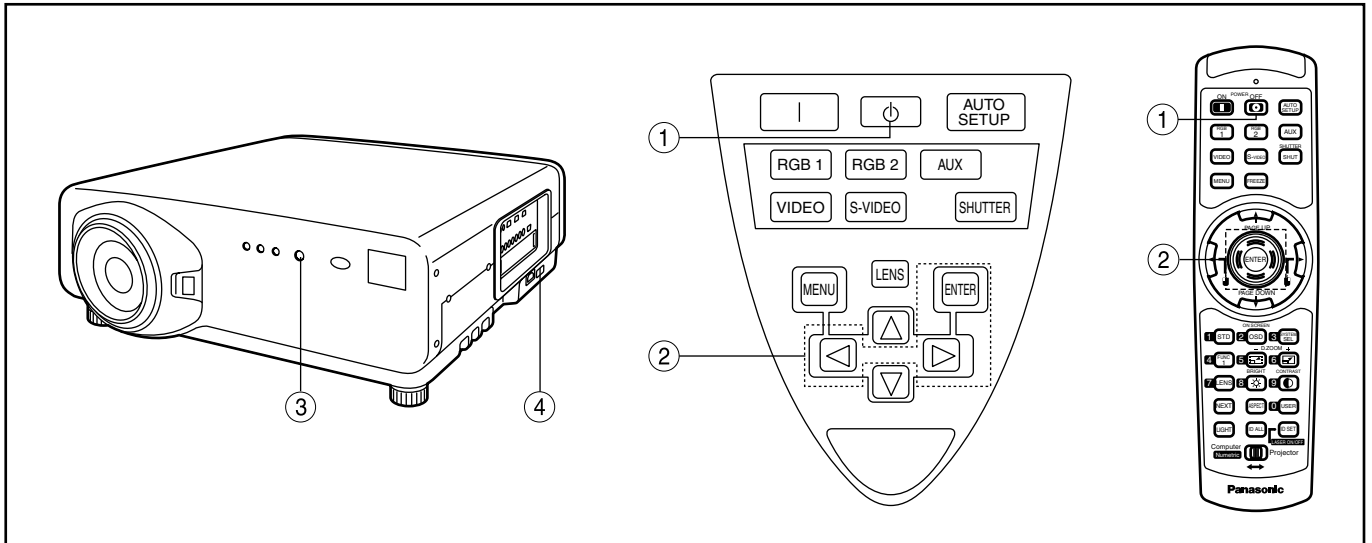
■ Making adjustment and selection

- ④ **Roughly adjust the focus of the lens. (Refer to page 41.)**
Press the LENS button on the main unit or the remote control unit to display a focus adjustment screen. Pressing ▲ ▼ ◀ ▶ buttons to adjust the image into focus.
- ⑤ **Select and set the projection scheme. (Refer to page 70.)**
- ⑥ **Select the input signal by pressing the input selector button to toggle through RGB1, RGB2, VIDEO, S-VIDEO and AUX. [on the main unit or the remote control]**
- ⑦ **Adjust the tilt of the main unit in front and rear or right and left. (Refer to page 18.)**

- ⑧ **Press the LENS button two or three times to adjust the lens shift. (Refer to page 41.)**
- ⑨ **Press the AUTO SETUP button if the input signal is RGB signal. [on the main unit or the remote control]**
- ⑩ **Fit the image size to the screen size. (Refer to page 41.)**
Press the LENS button twice and adjust the zoom of the lens on the lens zoom adjustment menu.
- ⑪ **Press the LENS button and adjust the focus of the lens on the lens focus adjustment menu.**
- ⑫ **Display the zoom adjustment menu again and adjust the zoom of the lens to fit the image size to the screen size. (Refer to page 41.)**

Note

- If the projector is powered up at about 0°C, a warm-up period of approximately five minutes may be necessary to start projection. The temperature monitor (TEMP) lamp flashes during the warm-up period. When the warm-up is completed, the temperature monitor (TEMP) lamp turns off and the image is projected on the screen.
- If this happens, raise the surrounding temperature to 0°C or higher and then turn the main power “on” and turn the power “on” (I).
- The AUX button is disabled when an optional input module is not connected.



■ Powering off the projector

- ① Press the POWER OFF “⏻” button.
- ② Select “EXECUTE” with ◀ or ▶ button and press the ENTER button.
(or press the POWER OFF “⏻” button again.)
A message “UNDER SHUTDOWN 20 SECONDS” appears and the projection of the image stops when the count turns to zero.
(The power indicator lamp of the main unit turns to orange. The cooling fan keeps running still after the projection stopped.)
- ③ Wait until the power indicator lamp of the main unit turns to red (i.e., until the cooling fan stops).
While the cooling fan is still running, never turn off the MAIN POWER switch, nor unplug the projector from the outlet.
- ④ Press the “O” marked side of the MAIN POWER switch to remove all power from the projector.

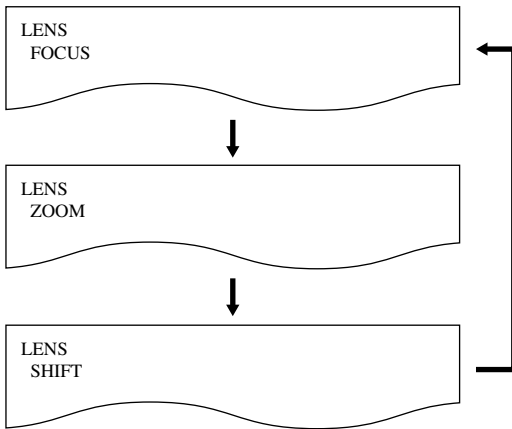
Note

- Turning on the power supply will not light up the light source lamp if the lamp is in the process of cooling down after turning off the power supply. To light up the lamp, turn on the power supply again when the lamp has been cooled sufficiently.
- The projector consumes approximately 12 watts of power even in standby mode after the cooling fan stops. (Power indicator lamp lit in red)
- If you re-power the projector after shutting off the main power inadvertently, the projection lamp may remain unlit. Please turn the power on again after a while.

How to adjust the lens

■ How to adjust the lens focus, lens zoom and lens shift (optical shift)

If the focusing, zooming or positioning of the image projected on the screen is not successful, even though the projector is properly positioned against the screen, you can adjust the focus, the zoom, or the vertical or horizontal position of the image.



- ① **Press the LENS button on the remote control or on the control panel of the main unit.**

Pressing the button changes the setup screen in the order of "LENS FOCUS", "LENS ZOOM" and "LENS SHIFT".

- ② **Choose an item and adjust it using ▲ ▼ ◀ ▶ buttons.**

Caution

Be careful not to catch your fingers between the lens and shroud when shifting the lens.

Note

- The lens zoom adjustment menu will be displayed only when a lens with zoom function is being used.

Automatic adjustment (AUTO SETUP)

Automatic adjustment function adjust the resolution, clock phase and image position automatically when dots-structured analog RGB signals such as computer signal are supplied. (Automatic adjustment is not available if signals or moving images other than analog RGB signals are supplied.)

It is recommended to supply images with a bright white frame at the outermost periphery containing characters etc. that are clear in white and black contrast when the system is in automatic adjustment mode. Avoid supplying images that involve halftones or gradation such as photographs and computer graphics.

Note

- A message "COMPLETE" appears if adjustment is ended normally.
- "CLOCK PHASE" may have been shifted even when the adjustment ended normally.
In this case, manually adjust the "CLOCK PHASE".
- If an image with blurred edges or a dark image is supplied, a message "INCOMPLETE" appears, indicating the automatic adjustment was unsuccessful.
In this case, manually adjust the items of "INPUT RESOLUTION", "CLOCK PHASE" and "SHIFT".
- For specific signals and long-sideways (or landscape) signals such as 16:9, adjustment should be made according to "AUTO SETUP" in the option menu.
- Automatic adjustment may not be available depending on the machine type of the personal computer.
- Automatic adjustment may not be available for synchronization signal of C-SYNC and G-SYNC.
- Image may be disturbed for about 4 seconds during automatic adjustment, which is not an abnormal error.
- For every supplied signal, adjustment is required.
- Automatic adjustment can be cancelled by pressing the MENU button during the course of automatic adjustment.

Registration of input signal data

The input signal data must be registered because it is not registered on shipment of the projector.

- Note**
- Up to 96 input signals can be registered.
 - Registration is performed by supplying the signal that corresponds to the mounted input module.

■ Registration of new data

When a new signal is supplied, press the MENU button on the remote control or operating section of the main unit, and a "NEW SIGNAL INPUTS" screen appears.

```
NEW SIGNAL INPUTS.
REGISTER?
NAME:
MEMORY NO:  --
S.S.NO:     ---
INPUT NO:   VIDEO
fH:         15.73kHz
fV:         59.94Hz
FORMAT:     NTSC

ENTER:EXECUTE  MENU:ESC
```

```
CHANGING DESIGNATION OF REGISTERED SIGNALS

NAME:      MAC16-A1
MEMORY NO: A1
S.S.NO:    --
INPUT NO:  RGB1
fH:        15.73kHz
fV:        59.94Hz
SYNC. STATE: H(POS)
              V(POS)

◀▶:NEXT FIGURE ▲▼:FONT SELECT  ENTER:SET  MENU:ESC
```

- ① **Press the "MENU" button.**
The "NEW SIGNAL INPUT" screen will be displayed.

- ② **Press the ENTER button.**
The "CHANGING DESIGNATION OF REGISTERED SIGNALS" screen will be displayed.

Note

- The name of input signal, memory No., signal selector input No., input terminal, frequency, synchronization signal and other data are automatically identified and displayed.
- For memory numbers, 12 pages are available (eight pieces of data can be registered on each page, from A to L) and the lowest unused number in the memory will be shown automatically. If the memory has no vacancy, use the overwriting registration procedure described on the next page. (Refer to page 44)
- The registration name (NAME) will be automatically shown by the signal name and memory number.

- ③ When using the registration name automatically shown,
press the ENTER button.
This completes the registration and returns to the "MAIN MENU" screen.
To change the registration name,
select characters one by one with the ◀ and ▶ buttons and press the ▲ and ▼ buttons to fix the characters or numbers (to delete the automatically shown name, press the STD button) and press the ENTER button when the name is changed successfully.
This completes the registration and returns to the MENU screen.

Note

- If you press the MENU button instead of the ENTER button, the new name to which you tried to change will not be registered but the signal name automatically shown will be registered.

Registration of input signal data

■ If new registration is not available because of full memory:

If the number of already registered signals is 96, or the memory is full when you entered a new signal, then press the MENU button of the remote control or the operating section of the main unit, and a “Confirm overwriting registration” screen appears. This means to erase registered signal and to register a new signal by overwriting. In this case, erase the registered signal and register a new signal by overwriting using the following Steps ① to ④ :

```
MEMORY FULL
OVERWRITE?
NAME:
MEMORY NO:    --
S.S.NO:       ---
INPUT NO:     VIDEO
fH:           15.73kHz
fV:           59.94Hz
FORMAT:       NTSC

ENTER:EXECUTE  MENU:ESC
```

```
SELECT OVERWRITE SIGNAL.

A1:SVGA72-A1   RGB1   ---
A2:SVGA72-A2   RGB1   ---
A3:SVGA72-A3   RGB1   ---
A4:SVGA72-A4   RGB1   ---
A5:SVGA72-A5   RGB1   ---
A6:SVGA72-A6   RGB1   ---
A7:SVGA72-A7   RGB1   ---
A8:SVGA72-A8   RGB1   ---

▲▼◀▶:SELECT  ENTER:SET
```

```
OVERWRITE THIS SIGNAL.

NAME:           SVGA72-A3
MEMORY NO:     A3(3-2)
S.S.NO:        ---
INPUT NO:      RGB1
fH:            48.08kHz
fV:            72.17Hz
SYNC. STATE:   H(POS)
                V(POS)

ENTER:EXECUTE  MENU:ESC
```

- ① **Press the “MENU” button.**
The “Confirm overwriting registration” screen will be displayed.
- ② **Press the ENTER button.**
The SIGNAL LIST screen will be displayed. The memory list contains 96 data items on its 12 pages (8 each on A to L pages).
- ③ **Select the signal to erase with the ▼ and ▲ buttons.**
- ④ **Press the ENTER button.**
The SIGNAL STATUS screen will be displayed. If you do not want to erase, press the MENU button to return to the “SIGNAL LIST” screen.
- ⑤ **Press the ENTER button.**
This erases the signal selected in Step ③ and the “SIGNAL STATUS” screen for the overwritten signal appears. In each item, automatically identified content of the new signal is displayed. Further Steps are the same as Step ③ on page 43.

■ Sub memory

The projector is provided with a sub memory function to register plural pieces of image adjustment data even they are determined to be the same signal by the frequency and form of the synchronization signal source.

Use this function when the user needs adjustment of picture quality such as aspect switching and white balance using the same signal source.

Sub-memory contains all data that can be adjusted by signals such as screen aspect ratio and image adjustment data (BRIGHT, CONTRAST etc.).

How to register into sub memory

A new signal cannot be registered into sub memory. A new signal must undergo signal registration.

LIST OF SUB MEMORY	
1- 1:	MAC16-A1
1- 2:	MAC16-A2
1- 3:	----
1- 4:	----
1- 5:	----
1- 6:	----
1- 7:	----
1- 8:	----

▲▼◀▶:SELECT ENTER:CHANGE



DO YOU REGISTER SUB MEMORY?	
NAME:	MAC16-A1
MEMORY NO:	--
S.S.NO:	----
INPUT NO:	RGB1
fH:	48.00kHz
fV:	60.00Hz
SYNC. STATE:	H(POS) V(POS)

ENTER:EXECUTE MENU:ESC

- ① **Press the USER button or the ◀ and ▶ buttons on normal screen (menu is not displayed).**

(A "Check sub-memory registration" screen will appear if sub-memory has not been registered.)
The screen will show a list of the sub-memory registered for the currently entered signal.

- ② **Select the SUB MEMORY number stored with the ▼, ▲, ◀ and ▶ buttons in the "Signal List".**

- ③ **Press the ENTER button.**

A "Change registered signals" screen will appear.

- ④ **If the user wants to use the name automatically displayed without change, do the same as in Step ③.**

Procedure to switch to sub memory

- ① **Press the USER button or the ◀ and ▶ buttons on normal screen (menu is not displayed).**

The screen will show a list of the sub-memory registered for the currently entered signal.

- ② **In the "Signal List", select the sub-memory signal to be switched using the ▼, ▲, ◀ and ▶ buttons.**

- ③ **Press the ENTER button.**

Signal will be switched to the one that was selected in Step ②.

How to erase sub memory

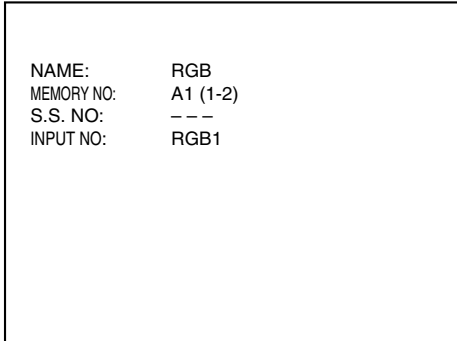
The currently selected SUB MEMORY is deleted by pressing the standard button (STD) at the "REGISTERED SIGNAL LIST" or the "SUB MEMORY LIST".

Registration of input signal data

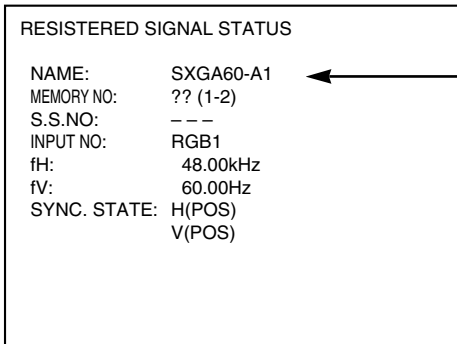
On-screen indications

① Input switching / signal switching

This shows the registered signal name on the status screen for signal switching.



② Details of registered signal



The designation can be set by the sub memory items.

MEMORY NUMBER: A1 (1-2)

displays the sub memory number.

The place in which address code (A1, A2, ..., H7 and H8) signals are registered

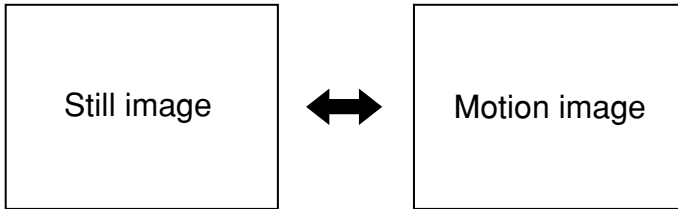
Note

Restrictions

The maximum sub memory items that can be registered for the projector are 96 including the basic signal.

Using the FREEZE function

Pressing the “FREEZE” button of the remote control switches between a still image and a motion image.



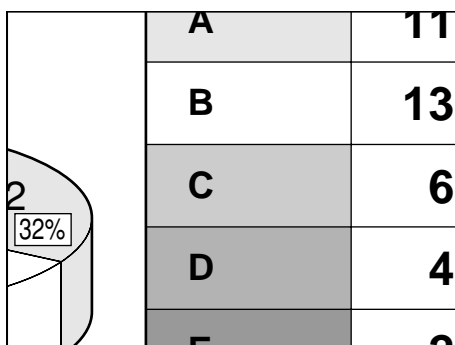
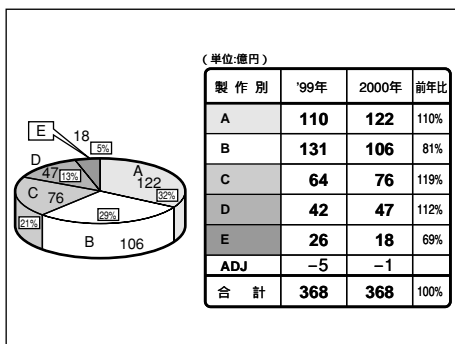
Using the SHUTTER function

If the projector is not used for a certain period of time during the meeting intermission, for example, a shutter mode is available that allows the user to hide images temporarily.

- ① **Press the SHUTTER button of the remote control or the main unit.**
The image is turned off.
- ② **Press the SHUTTER button again.**
The image comes back.

Using the digital zoom (– D.ZOOM +) function

A portion of the picture on the screen can be zoomed in on with “– D.ZOOM +” buttons of the remote control. It is useful for highlighting a specific object during the presentation.



- ① **Press the “– D.ZOOM +” button of the remote control.**
The image is zoomed in.
- ② **Change the magnification with the “– D.ZOOM +” button.**
The magnification can be adjusted in 0.1 steps over the range of 1.0 to 3.0 times.
- ③ **Use ▲ ▼ ◀ ▶ buttons to move the magnified image.**
- ④ **To restore the original image, press the MENU button.**

Attention

- The digital zoomed state cannot be stored in memory.
- If the input signal format is changed while in digital zoom mode, the projector will exit digital zoom function.

On-screen menus

■ Structure of menu screens

Menus are extensively used for configuring, adjusting or reconfiguring the projector. The menu structure is as follows:

MAIN MENU

MAIN MENU	
PICTURE	—————
POSITION	—————
LANGUAGE	—————
OPTION	—————
TEST PATTERN	—————
REGISTERED SIGNAL LIST	—————

▲▼:MENU SELECT
ENTER:SUB MENU

REGISTERED SIGNAL LIST (pages 43 and 44)

REGISTERED SIGNAL LIST			
A1 : 430i-A1	RGB1	----	
A2 : 1080/60i-A2	RGB1	----	
A3 : XGA60-A3	RGB1	----	
A4 : SXGA60-A4	RGB1	----	
A5 : XGA60-A5	AUX	----	
A6 : NTSC-A6	VIDEO	----	
A7 : XGA60-A7	RGB1	----	
A8 : SXGA60-A8	RGB1	----	

▲▼◀▶:SELECT ENTER:DETAILS STD:DELETE

OPTION (pages 69-75)

OPTION	
ID	2
SETTING	FRONT-F
LAMP1 RUNTIME	57h
LAMP2 RUNTIME	60h
LAMP SELECT	DUAL
LAMP POWER	HIGH
LAMP COOLING TIME	SHORT
RS232C SETTING	
RGB2 SELECT	RGB1 OUT
OSD POSITION	1

▲▼:MENU SELECT
◀▶:CHANGE

OPTION	
SYSTEM INFORMATION	
VIDEO SETTING	
FAN CONTROL	NORMAL
P IN P	ON
FUNC1	P IN P
CONTRAST MODE	NORMAL
PASSWORD	

▲▼:MENU SELECT
ENTER:SUB MENU

PICTURE (pages 50-55)

PICTURE	
PICTURE MODE	STANDARD
COLOR	50
TINT	30
COLOR TEMP.	STANDARD
GAMMA	STANDARD
CONTRAST	32
BRIGHT	32
SHARPNESS	6
NOISE REDUCTION	2
AI CONTROL	OFF

▲▼:MENU SELECT
◀▶:CHANGE

PICTURE	
PULLDOWN MODE	AUTO
COLOR MATCHING	OFF

▲▼:MENU SELECT ◀▶:CHANGE
ENTER:SUB MENU

POSITION (pages 56-64)

POSITION	
SHIFT	
SIZE	VID AUTO
BLANKING	
KEYSTONE	
EDGE BLENDING	

▲▼:MENU SELECT
ENTER:SUB MENU

LANGUAGE (page 65)

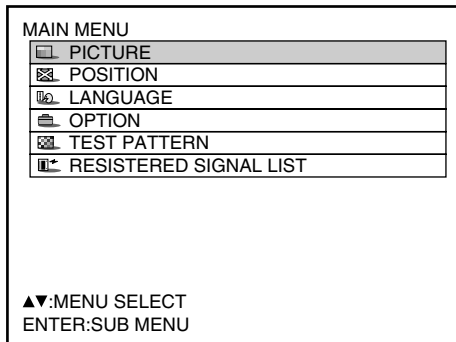
LANGUAGE	
ENGLISH	
DEUTSCH	
FRAN AIS	
ESPA OL	
ITALIANO	
日本語	
中文	

▲▼:SELECT ENTER:SET

■ Basic operations on menu screen

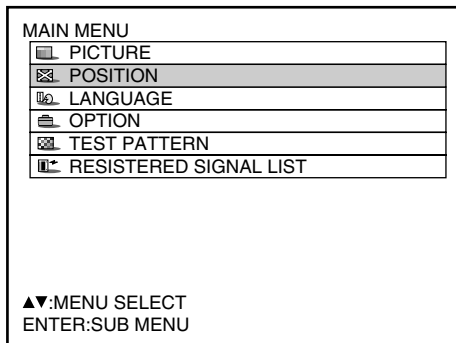
① Press the “MENU” button.

The MAIN MENU appears on the screen.



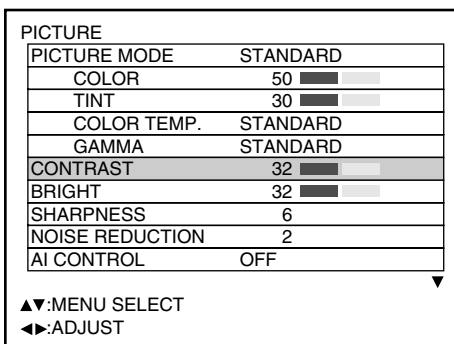
② Select the desired item with the ▼ or ▲ button.

Selected items are displayed in blue.



③ Press the “ENTER” button to establish your selection.

The submenu for the selected option will now open. (Example: PICTURE Menu)



④ Highlight the desired adjustment item with the ▼ or ▲ button, then change or adjust the parameter value with the ◀ or ▶ buttons.

For the items such as “COLOR”, “TINT”, “CONTRAST” and “BRIGHT”, an individual adjustment screen with an individual bar graph as shown below is displayed by pressing the ENTER button.



- If no button is operated for approx. 5 seconds while the individual adjustment screen is displayed, the screen will return to the previous page.

■ Returning to the previous screen

- When the “MENU” is on the screen, pressing the “MENU” button returns to the previous page.
- When the MAIN MENU is on the screen, pressing the “MENU” button clears all menus from the screen.

■ Menu items shown in gray characters

- Some menu items may not be valid for certain signal formats applied to the projector. The menu items that cannot be adjusted or used are shown in gray characters, and they cannot be selected.

■ Menu items setting

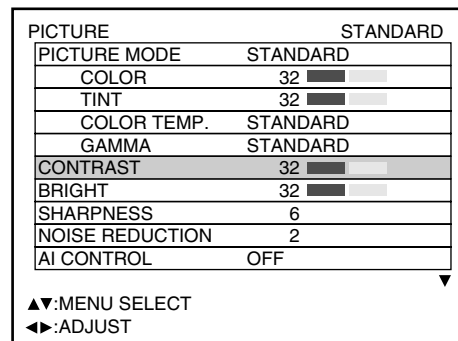
The bottom prompt line differs on each menu depending on the selected menu option:

- A prompt “◀ ▶ CHANGE” appears when changing the setting.
- A prompt “◀ ▶ ADJUST” appears for a separate bar graph.
- When ▼ and ▲ buttons are displayed above or under the items in the “PICTURE” or “OPTION” screen, they indicate that there are more adjustment (items).

■ Resetting to the factory default

STD (standard) button is used to reset all of the projector adjustment values to the default levels which were set at the time of shipment from the factory. It is pressed after the respective adjustment mode screen has been displayed.

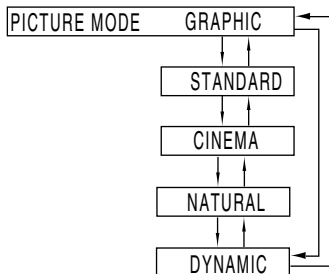
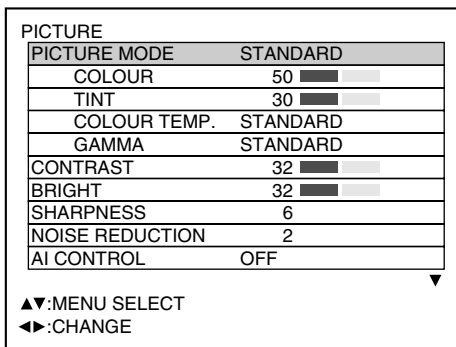
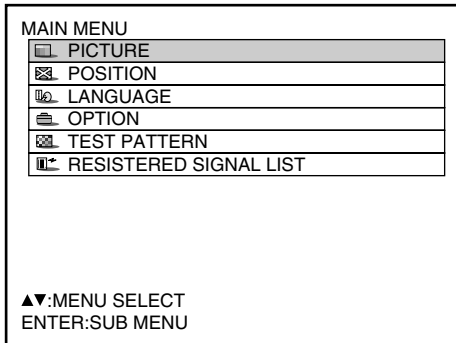
- When the Menu screen is displayed A “STANDARD” indicator appears on the upper right corner of the menu.



Adjusting the picture

■ Switching the picture mode

The user can switch to the desired picture mode suitable for the image source and the environment in which this projector is used.



- ① **Press the “MENU” button.**
The MAIN MENU screen will be displayed.
- ② **Select “PICTURE” with the ▲ ▼ buttons.**

- ③ **Press the “ENTER” button.**
The PICTURE screen will be displayed.
- ④ **Select “PICTURE MODE” with the ▲ ▼ buttons.**
- ⑤ **Select “PICTURE MODE” with the ◀ ▶ buttons.**

GRAPHIC: The picture becomes suitable for input from to the personal computer.

STANDARD: The picture becomes suitable for moving images in general.

CINEMA: The picture becomes suitable for movie sources.

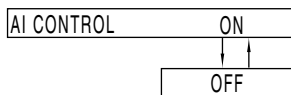
NATURAL: The picture complies with sRGB.

DYNAMIC: The picture becomes suitable for the use in well-lighted areas.

- Factory defaults are “GRAPHIC” for RGB system and “STANDARD” for moving images.

■ Switching the AI control

By setting the AI control to “ON”, the picture is automatically adjusted for the optimal contrast in response to the changes in brightness.

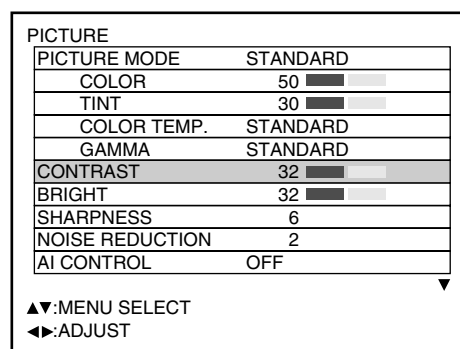
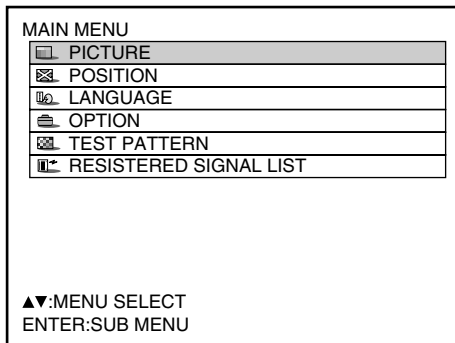


- ① **Press the ▲ ▼ buttons on the “PICTURE” screen and select “AI CONTROL”.**
- ② **Switch the AI control to “ON” with the ◀ ▶ buttons.**

The desired picture can be obtained by following the procedure below.

■ Adjusting Contrast / Bright / Color / Tint

Adjustment procedure – to adjust picture (color intensity)



- ① **Press the “MENU” button.**
The MAIN MENU screen will be displayed.
- ② **Select “PICTURE” with the ▲ ▼ buttons.**
- ③ **Press the “ENTER” button.**
The PICTURE screen will be displayed.
- ④ **Select “CONTRAST” with the ▲ ▼ buttons.**
- ⑤ **Press the “ENTER” button.**
The CONTRAST individual adjustment screen will be displayed.
- ⑥ **Adjust the level with the ◀ ▶ buttons.**
The function of the button changes according to the item as shown in the following table:
- ⑦ **Repeat Steps ④, ⑤ and ⑥ to adjust the “BRIGHT”, “COLOR” or “TINT”.**
The individual adjustment screen can be displayed for “CONTRAST” and BRIGHT” by the remote control. Refer to the following table:

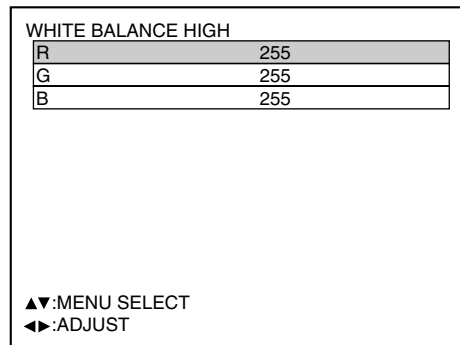
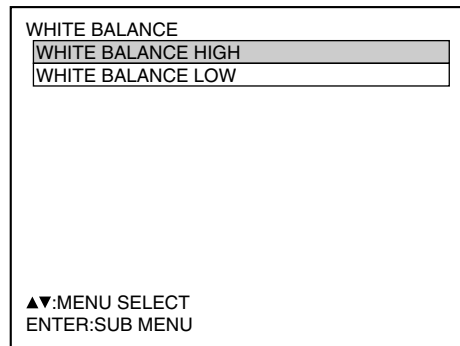
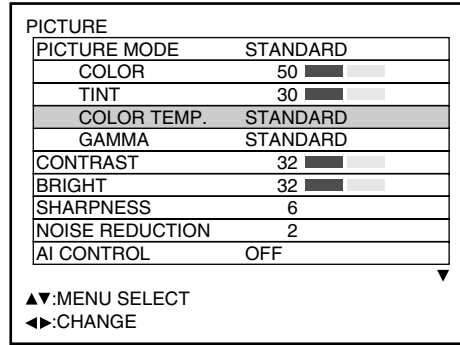
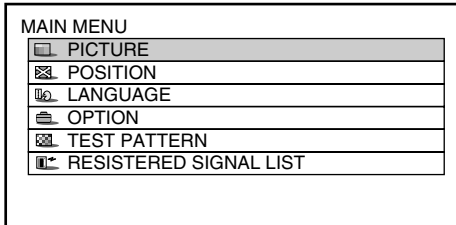
Item	Operation	Adjustment	Adjustment range	Remarks
CONTRAST	Press ▶ button	Raises the picture brightness and the picture becomes clearer.	Maximum value 63	Use the CONTRAST button on the remote control.
	Press ◀ button	Lowers the picture brightness and weakens the picture.	Minimum value 0	
BRIGHT	Press ▶ button	Raises the picture brightness.	Maximum value 63	Use the BRIGHT button on the remote control.
	Press ◀ button	Lowers the picture brightness.	Minimum value 0	
COLOR	Press ▶ button	Deepens colors.	Maximum value 100	
	Press ◀ button	Weakens colors.	Minimum value 0	
TINT	Press ▶ button	Adjusts skin tone toward greenish color.	Maximum value 100	
	Press ◀ button	Adjusts skin tone toward reddish-purple	Minimum value 0	

Note • If no button is operated for approx. 5 seconds while the individual adjustment screen is displayed, the screen will return to the “PICTURE” screen.

Adjusting the picture

■ Adjusting the color temperature

Adjustment procedure (to be performed while projecting the signals to be adjusted)



- ① Press the “MENU” button.
The MAIN MENU screen will be displayed
- ② Select “PICTURE” with the ▲ ▼ buttons.
- ③ Press the “ENTER” button.
The PICTURE screen will be displayed.
- ④ Select “COLOR TEMP.” with the ▲ ▼ buttons.
- ⑤ Select the desired setting from below with the ◀ ▶ buttons.
“LOW”, “MIDDLE”, “HIGH”, “DYNAMIC” and “USER”, “STANDARD”, “NATURAL”, “CINEMA”, “GRAPHIC”

<To further adjust toward the desired white balance>

- ⑥ Select “USER” in Step ⑤.
- ⑦ Press the “ENTER” button.
- ⑧ Select “WHITE BALANCE HIGH” or “WHITE BALANCE LOW” with the ▲ ▼ buttons.
- ⑨ Press “ENTER” button.
The WHITE BALANCE HIGH (LOW) screen will be displayed.
- ⑩ Select “R”, “G” or “B” with the ▲ ▼ buttons.
- ⑪ Adjust the level with the ◀ ▶ buttons.

Item	Operation	Adjustment	Remarks
R (Red)	Press ▶ button	Deepens red.	Maximum value 255 Minimum value 0
	Press ◀ button	Weakens red.	
G (Green)	Press ▶ button	Deepens green.	
	Press ◀ button	Weakens green.	
B (Blue)	Press ▶ button	Deepens blue.	
	Press ◀ button	Weakens blue.	

- Note**
- All colors will not be displayed properly unless adequate adjustment is made. If the adjustment is not successful, press “STD” (standard) button when the individual adjustment screen is displayed to restore the factory default setting only for the displayed item.
 - The color temperature cannot be adjusted for the internal test pattern (refer to page 81). Be sure to project the input signal when adjusting the color temperature.
 - If the color matching is set to “USER”, the color temperature will be fixed to “USER”.

■ Adjusting color matching

When multiple sets are used simultaneously, this projector allows the user to correct the difference of colors among the sets.

Procedure of adjustment

MAIN MENU	
PICTURE	
POSITION	
LANGUAGE	
OPTION	
TEST PATTERN	
REGISTERED SIGNAL LIST	

PICTURE	
PULLDOWN MODE	AUTO
COLOR MATCHING	USER

▲▼:MENU SELECT ◀▶:CHANGE
ENTER:SUB MENU

COLOR MATCHING:USER	
R	
G	
B	

▲▼:MENU SELECT
ENTER:SUB MENU

R	
R	2048
G	0
B	0

▲▼:MENU SELECT
◀▶:ADJUST

- ① **Press the “MENU” button.**
The MAIN MENU screen will be displayed.
- ② **Select “PICTURE” with the ▲ ▼ buttons.**
- ③ **Press “ENTER” button.**
The PICTURE screen will be displayed.
- ④ **Select “COLOR MATCHING” with the ▲ ▼ buttons.**
- ⑤ **Switch to “USER” with the ◀ ▶ buttons.**
- ⑥ **Press the “ENTER” button.**
The COLOR MATCHING screen will be displayed.
- ⑦ **Select the desired color for adjustment with the ▲ ▼ buttons.**
- ⑧ **Press the ENTER button.**
- ⑨ **Select the color to be corrected with the ▲ ▼ buttons.**
- ⑩ **Adjust with the ◀ ▶ buttons.**

Note

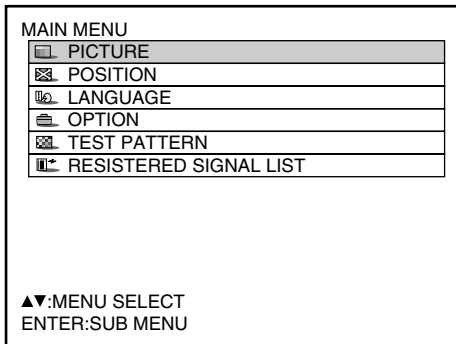
Adjustment

- The effects of correcting the adjustment color
When tuning the correction color that is the same as the adjustment color: the brightness of the adjustment color changes.
When tuning the correction color RED: RED is added to or reduced from the adjustment color.
When tuning the correction color GREEN: GREEN is added to or reduced from the adjustment color.
When tuning the correction color BLUE: BLUE is added to or reduced from the adjustment color.
- This adjustment should be carried out by a person who is familiar with the projector or by a service person because a high level of skill is required to make successful adjustment.
- Pressing the “STD” (standard) button will restore the factory defaults for all items.
- If the color matching is set to “USER”, the color temperature will be fixed to “USER”.

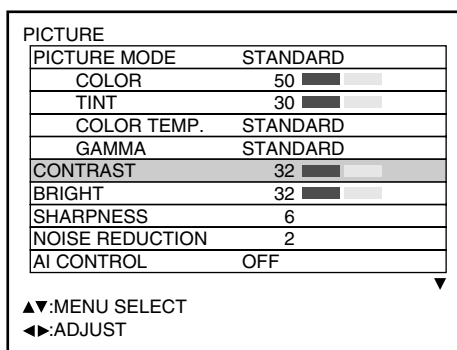
Adjusting the picture

■ Sharpness / Gamma / Noise reduction / Pulldown mode

Procedure of adjustment



- ① Press the “MENU” button.
The MAIN MENU screen will be displayed.
- ② Select “PICTURE” with the ▲ ▼ buttons.



- ③ Press the “ENTER” button.
The PICTURE screen will be displayed.
- ④ Select desired one of the items in the following table with the ▲ ▼ buttons.

Note • When ▼ and ▲ buttons are displayed above or under the items in the “PICTURE” or “OPTION” screen, they indicate that there are more adjustment (items).

- ⑤ Switch the setting with the ◀ ▶ buttons.
Refer to the following table for the items and the details.

Adjustment items	Operation	Adjustment
Sharpness	Sharpens the outline of the image.	0 to 7 for the RGB system and the HD system (factory setting is 2) 0 to 15 for the SD system (factory setting is 6)
Gamma selection	Switches the gamma modes	10 types including: Standard 1, 2, Cinema, User 1, User 2, 2.2, 2.5, Natural, Graphic 1, Graphic 2 (Factory setting is Graphic 1 for the RGB system and Standard 1 for the SD and HD systems)
Noise reduction	Switches the noise reduction effect mode.	Four types: OFF (no correction), 1 (low), 2 (middle), 3 (high) (factory default: 2)
Pulldown mode	Increase the vertical resolution when the PAL (or SECAM) 576i signal input or the NTSC 480i signal input is applied.	OFF: Unforced cinema processing AUTO: Performs automatic detection and cinema processing. (factory default) 2:2 FORCED-ON: Forced cinema processing

Note • Noise reduction cannot be adjusted with analog RGB input, DVI input or network input.
• In pull-down mode, the image quality will be deteriorated (lowered vertical resolution) if “2:2 Forced On” is selected for setting of others than a signal that has been pulled-down by 2:2.

■ To set the sRGB compliant picture

sRGB is the international color reproduction standard (IEC61966-2-1) established by IEC (International Electrotechnical Commission).

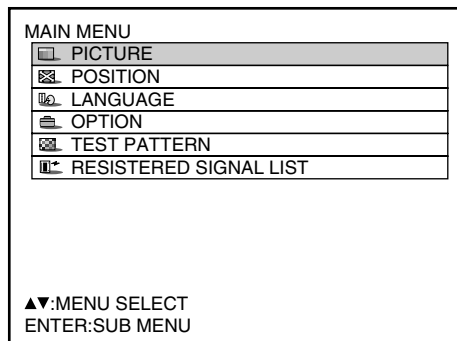
Perform the following setting procedure to reproduce the higher-fidelity picture in compliance with sRGB.

1. Set color matching adjustment to “OFF”.
2. Press the ▲ ▼ buttons on the “PICTURE” menu and select the “PICTURE MODE”. Set to “NATURAL” with the ◀ ▶ buttons.
3. Select the “COLOR” with the ▲ ▼ buttons.
Press the STD (standard) button on the remote control to restore the factory default. Follow the same procedure to restore the factory default for “TINT”, “COLOR TEMP.” and “GAMMA”.

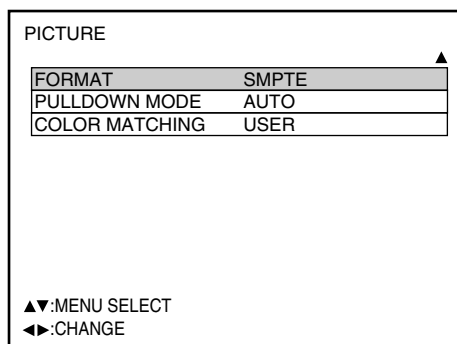
Note • sRGB is only enable when RGB signals are being input.

To input BETACAM with YCbCr 480i

When receiving a picture of 480i with analog component signal YCbCr input, the input level of Cb and Cr can be switched.



- ① Press the “MENU” button.
The MAIN MENU screen will be displayed.
- ② Select “PICTURE” with the ▲ ▼ buttons.



- ③ Press “ENTER” button.
The PICTURE screen will be displayed.
- ④ Select “FORMAT” with the ▲ ▼ buttons.
- ⑤ Switch the signal format with the ◀ ▶ buttons.
• This toggles between SMPTE and BETACAM.

<Signal level>

Format	Y	Synchronous part	Cb , Cr
SMPTE	700 mV	300 mV	±350 mV
BETACAM	714 mV	286 mV	±504 mV

- Note**
- This function is available only when input signals are supplied through the analog RGB input module (ET-MD95RGB). RGB1, RGB2 inputs do not support BETACAM signals.
 - This function can be switched only when receiving the picture of 480i in the YCbCr mode. It cannot be switched when receiving the picture of signals other than RGB-REALITY mode, RGB mode and 480i.
 - SMPTE is the factory default.

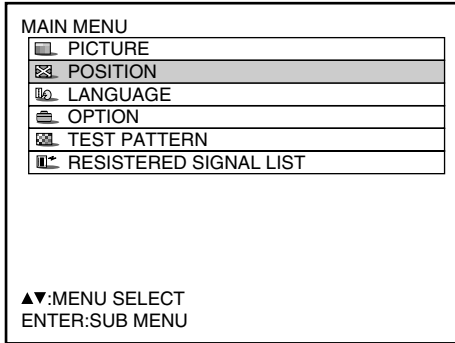
Adjusting the position

Desired position can be achieved by following the procedure below.

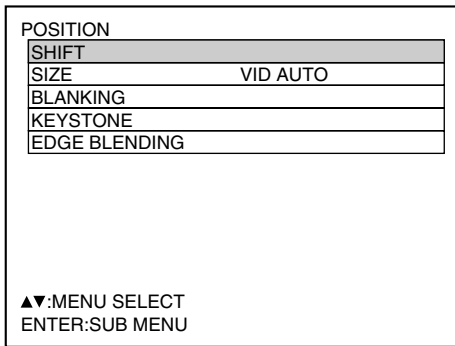
■ Shift adjustment

This function allows the user to adjust the picture position vertically or horizontally if the position of the image projected on the screen is displaced when the projector is properly positioned against the screen.

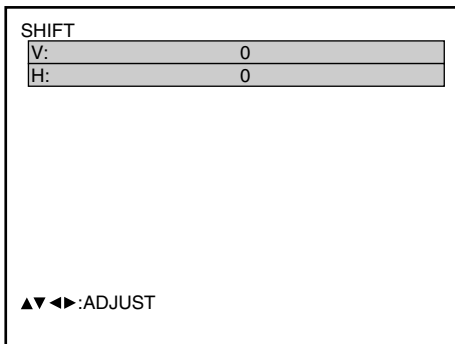
Procedure of adjustment



- ① **Press the “MENU” button.**
The MAIN MENU screen will be displayed
- ② **Select the “POSITION” with the ▲ ▼ buttons.**



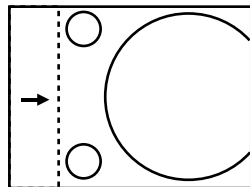
- ③ **Press the “ENTER” button.**
The POSITION screen will be displayed.
- ④ **Select “SHIFT” with the ▲ ▼ buttons.**



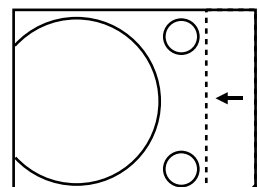
- ⑤ **Press the “ENTER” button.**
The SHIFT screen will be displayed.
- ⑥ **Adjust the position with the ▲ ▼ ◀ ▶ buttons.**
- ⑦ **Press the “MENU” button three times.**
The on-screen indications disappear and the normal screen appears again.

<For horizontal (right and left) adjustment>

Pressing ► button will move the image to the right.

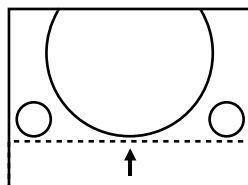


Pressing ◀ button will move the image to the left.

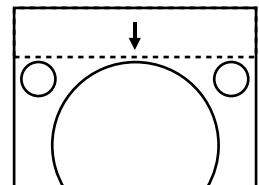


<For vertical (up and down) adjustment>

Pressing ▲ button will move the image upward.



Pressing ▼ button will move the image downward.



■ Size adjustment

Procedure of adjustment

MAIN MENU	
PICTURE	
POSITION	
LANGUAGE	
OPTION	
TEST PATTERN	
REGISTERED SIGNAL LIST	

▲▼:MENU SELECT
ENTER:SUB MENU

POSITION	
SHIFT	
SIZE	VID AUTO
BLANKING	
KEystone	
EDGE BLENDING	

▲▼:MENU SELECT
◀▶:CHANGE ENTER:SUB MENU

ZOOM	
INTERLOCK:	OFF
V:	100 %
H:	100 %
HV:	100 %

▲▼:MENU
◀▶:CHANGE

- ① **Press the “MENU” button.**
The MAIN MENU screen will be displayed.
- ② **Select the “POSITION” with the ▲ ▼ buttons.**
- ③ **Press the “ENTER” button.**
The POSITION screen will be displayed.
- ④ **Select “SIZE” with the ▲ ▼ buttons.**
- ⑤ **Using the ◀ ▶ buttons, select a size mode from the following:**
“DEFAULT”, “THROUGH”, “ZOOM”, “4:3”, “16:9”, “S 4:3”, “HV FIT”, “VID AUTO”, “S1 AUTO”, and “VID AUTO (PRIORITY)”
- ⑤ **Press the “ENTER” button.**
The SIZE adjustment screen will be displayed.
- ⑥ **Select the desired item with the ▲ ▼ buttons.**
- ⑦ **Adjust with the ◀ ▶ buttons.**

- Note**
- For details on the size mode, refer to the next page.
 - If “THROUGH” is selected in the size mode, the individual adjustment screen is not displayed.

Adjusting the position

Size modes

- **DEFAULT:** Pictures are displayed without changing the aspect ratio of the input signals.
- **THROUGH:** Pictures are displayed without changing the resolution of the input signals.
- **ZOOM:** Pictures can be displayed in various magnifications. The user can magnify the pictures with the magnification ranging from 50% to 999%, and the fiducial point is set on the top left of the screen.
- **4:3:** Pictures are displayed in the aspect ratio of 4:3.
- **16:9:** Pictures are displayed in the aspect ratio of 16:9.
- **S4:3:** Pictures are scaled down to 75% of the original size without changing the aspect ratio of the input signals. This mode is used when projecting the 4:3 pictures on the 16:9 screen.
- **HV FIT:** Pictures are displayed on the whole panel pixels.
If the aspect ratio of the input signals is different from that of the panel, the pictures are displayed by converting it into the panels aspect ratio (4:3 for PT-D7500U and 5:4 for PT-D7600U).
- **VID AUTO:** The projector identifies the video ID (VID) embedded in the picture signals and displays the picture by automatically switching the screen sizes between 4:3 and 16:9.
This function is effective for the video and S-video input.
- **S1 AUTO:** The projector identifies the S1 signal and displays the picture by automatically switching the screen sizes between 4:3 and 16:9.
This function is effective for the S-video input.
- **VID AUTO (PRIORITY):** The projector identifies the abovementioned VID or S1 signals and displays the picture by automatically choosing the screen sizes of 4:3 or 16:9 according to the VID if it is detected or S1 signals if a VID is not detected.
This function is effective for the S-video input.

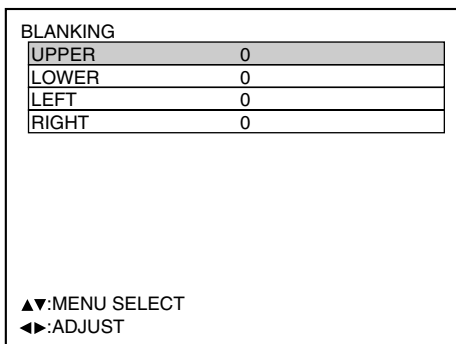
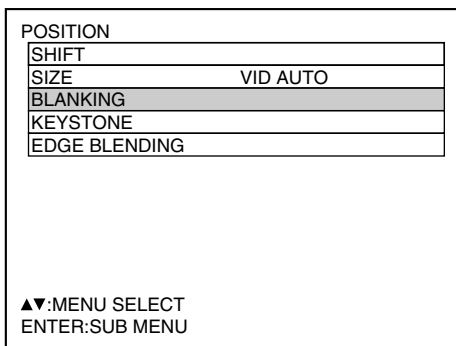
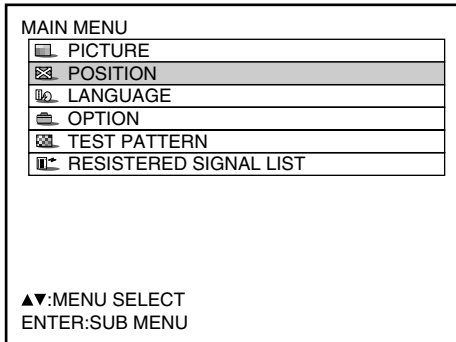
Note Some size modes are not available for certain types of input signals.

- For RGB1 and RGB2 input signals: VID AUTO, S1 AUTO or VID AUTO (PRIORITY) cannot be selected.
- For VIDEO input signals: DEFAULT, S1 AUTO or VID AUTO (PRIORITY) cannot be selected.
- For an NTSC signal with VIDEO or S-VIDEO input: DEFAULT cannot be selected.

■ Blanking adjustment

Blanking adjustment fine-tunes the images projected by the video deck or other devices when the noise appears on the edges of the screen or if a part of the image lies slightly offscreen.

Procedure of adjustment



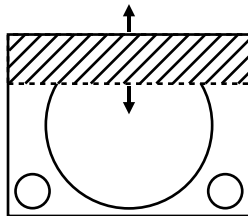
- ① **Press the “MENU” button.**
The MAIN MENU screen will be displayed.
- ② **Select the “POSITION” with the ▲ ▼ buttons.**

- ③ **Press the “ENTER” button.**
The POSITION screen will be displayed.
- ④ **Select “BLANKING” with the ▲ ▼ buttons.**

- ⑤ **Press the “ENTER” button.**
The BLANKING adjustment screen will be displayed.
- ⑥ **Select the desired item for adjustment with the ▲ ▼ buttons.**
- ⑦ **Adjust blanking with the ◀ ▶ buttons.**
The value changes from 0 to 511.

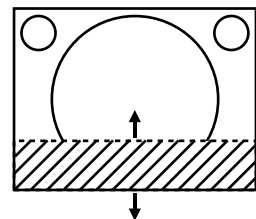
<When correcting the upper blanking of the screen (top) >

Press ◀ button to move the blanking zone upward; ▶ button to downward.



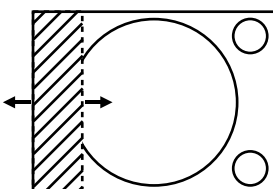
<When correcting the lower blanking of the screen (bottom) >

Press ▶ button to move the blanking zone upward; ◀ button to downward.



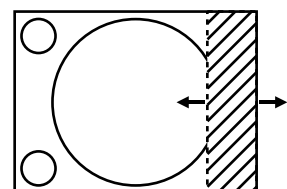
<When correcting the left hand blanking of the screen (left) >

Press ▶ button to move the blanking zone to the right; ◀ button to the left.



<When correcting the right hand blanking of the screen (right) >

Press ◀ button to move the blanking zone to the right; ▶ button to the left.

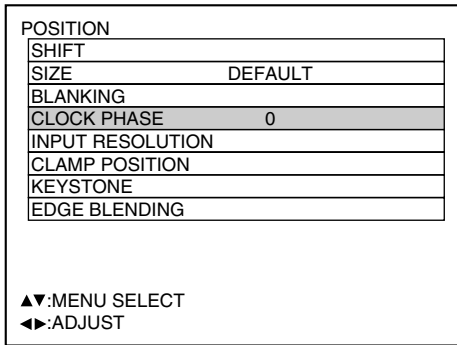
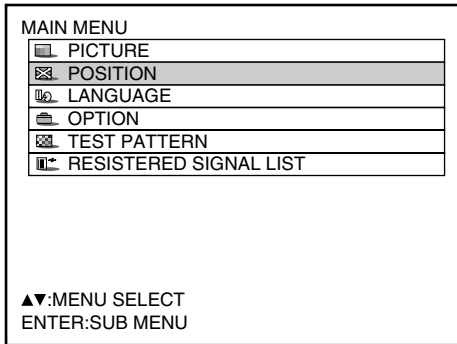


Adjusting the position

■ Clock phase adjustment

Clock phase adjustment achieves the best image when the screen flickers or halo is observed around the contour.

Procedure of adjustment



- ① **Press the “MENU” button.**
The MAIN MENU screen will be displayed
- ② **Select the “POSITION” with the ▲ ▼ buttons.**
- ③ **Press the “ENTER” button.**
The POSITION screen will be displayed
- ④ **Select “CLOCK PHASE” with the ▲ ▼ buttons.**
- ⑤ **Adjust the clock phase with the ◀ ▶ buttons.**
The value changes from 0 to 31.

- Note**
- No optimal value may be obtained if the output of the PC to which the signal input is applied is unstable.
 - No optimal value may be obtained if the total number of dots is not correct.
 - The clock phase can be adjusted only when RGB signal input is applied with RGB1, RGB2 IN, and the analog input module (optional: ET-MD95RGB).

■ Adjusting the input resolution

Input resolution adjustment achieves the best image when the screen flickers or halo is observed around the contour.

Procedure of adjustment

MAIN MENU	
PICTURE	
POSITION	
LANGUAGE	
OPTION	
TEST PATTERN	
REGISTERED SIGNAL LIST	
▲▼:MENU SELECT ENTER:SUB MENU	

POSITION	
SHIFT	
SIZE	DEFAULT
BLANKING	
CLOCK PHASE	0
INPUT RESOLUTION	
CLAMP POSITION	
KEystone	
EDGE BLENDING	
▲▼:MENU SELECT ENTER: SUB MENU	

INPUT RESOLUTION	
TOTAL DOTS	1056
DISPLAY DOTS	832
TOTAL LINES	666
DISPLAY LINES	624
▲▼:MENU SELECT ◀▶:ADJUST	

- ① **Press the “MENU” button.**
The MAIN MENU screen will be displayed.
- ② **Select the “POSITION” with the ▲ ▼ buttons.**
- ③ **Press the “ENTER” button.**
The POSITION screen will be displayed.
- ④ **Select “INPUT RESOLUTION” with the ▲ ▼ buttons.**
- ⑤ **Press the “ENTER” button.**
The INPUT RESOLUTION screen will be displayed.
- ⑥ **Select one of the following items with the ▲ ▼ buttons and adjust it with the ◀ ▶ buttons.**
“TOTAL DOTS”, “DISPLAYED DOTS”, “TOTAL LINES” and “DISPLAYED LINES”
Each item automatically displays a value in response to the type of the input signal. If vertical stripes appear on the screen or the image is partly missing, increase or decrease the displayed value while observing the screen to achieve the optimal value.

Note

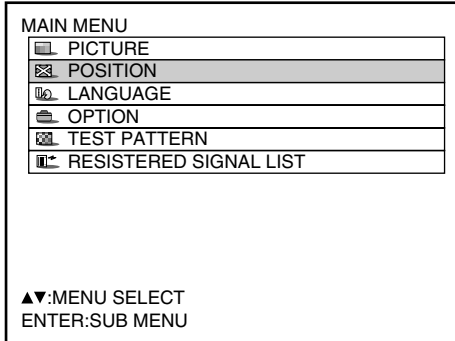
- The abovementioned vertical stripes will not appear on the screen when all signals are input.
- The picture may be distorted during the adjusting operation, but this is not a fault.
- The input resolution can be adjusted only when RGB signal input is applied with RGB1, RGB2 IN, and the analog RGB input module (optional: ET-MD95RGB).

Adjusting the position

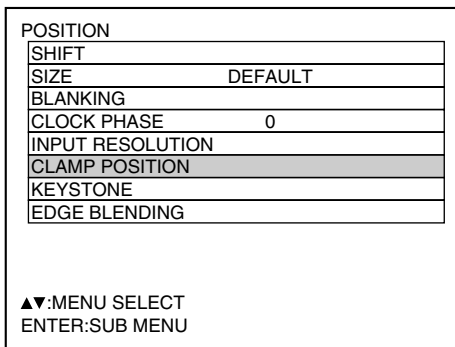
■ Adjusting the clamp position

Use the clamp position adjustment to achieve the optimal value when dark areas of the image are crushed or displayed in green.

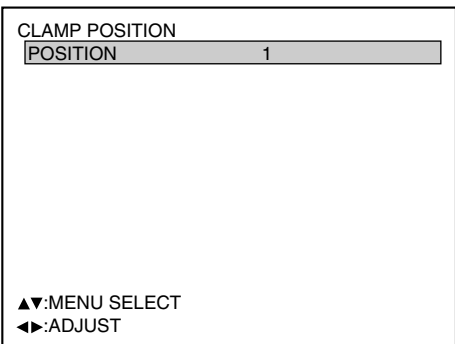
Procedure of adjustment



- ① **Press the “MENU” button.**
The MAIN MENU screen will be displayed.
- ② **Select “POSITION” with the ▲ ▼ buttons.**



- ③ **Press the “ENTER” button.**
The POSITION screen will be displayed.
- ④ **Select “CLAMP POSITION” with the ▲ ▼ buttons.**



- ⑤ **Press the “ENTER” button.**
The CLAMP POSITION screen will be displayed.
- ⑥ **Adjust with the ◀ ▶ buttons.**
The value changes from 1 to 255.

The optimal value for the clamp position adjustment

- If dark areas are crushed: → The optimal value is the point where the dark area is best improved.
- If the dark areas are displayed in green: → The optimal value is the point where the green area becomes dark and clear.

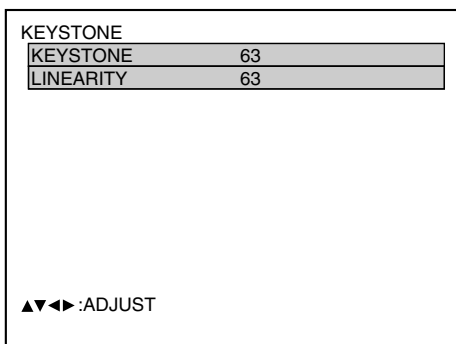
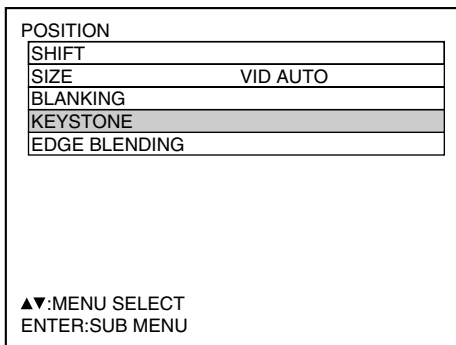
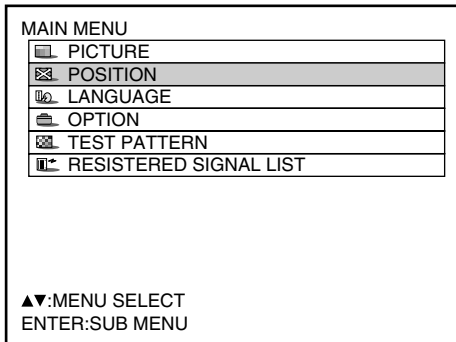
Note

- The clamp position can be adjusted only when the RGB signal input is applied with RGB1, RGB2 IN, and the analog RGB input module (optional: ET-MD95RGB).

■ Keystone distortion correction

Keystone distortion can be corrected only along either horizontal bound of the picture.

Procedure of adjustment



- ① **Press the “MENU” button.**
The MAIN MENU screen will be displayed.
- ② **Select the “POSITION” with the ▲ ▼ buttons.**
- ③ **Press the “ENTER” button.**
The POSITION screen will be displayed.
- ④ **Select “KEYSTONE” with the ▲ ▼ buttons.**
- ⑤ **Press the “ENTER” button.**
The KEYSTONE screen will be displayed.
- ⑥ **Adjust the “KEYSTONE” horizontally with the ◀ ▶ buttons.**
The value changes from 0 to 127.
- ⑦ **Adjust the vertical “LINEARITY” with the ▲ ▼ buttons.**
The value changes from 0 to 127.

Note

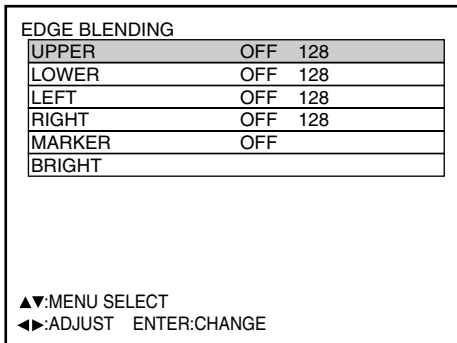
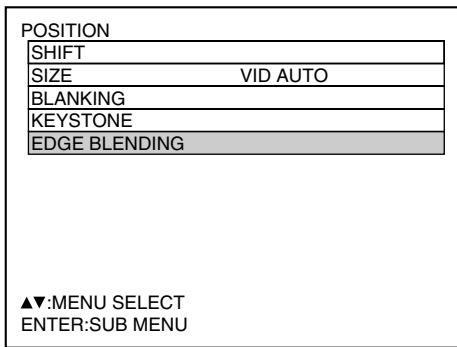
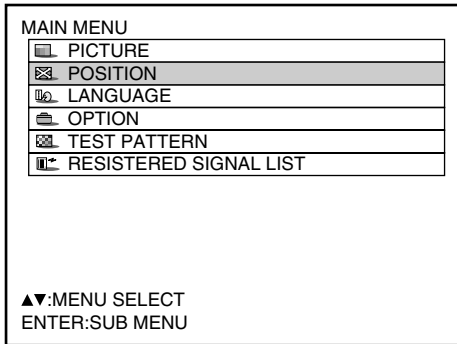
- Adjust the “LINEARITY” after adjusting the “KEYSTONE”.
- The variable range of the “LINEARITY” changes in response to the adjusted value of the “KEYSTONE”.
- Pressing STD (standard) button of the remote control will restore the factory default (“KEYSTONE”: 63, “LINEARITY”: 63).
- The adjusted value is reflected in other input signals.
- Keystone distortion can be corrected to $\pm 40^\circ$ of the angle of tilt for the projector against the screen. (If fixed-focus lens is used, the angle will be within $\pm 27^\circ$ for PT-D7500U and within $\pm 22^\circ$ for PT-D7600U.)

Adjusting the position

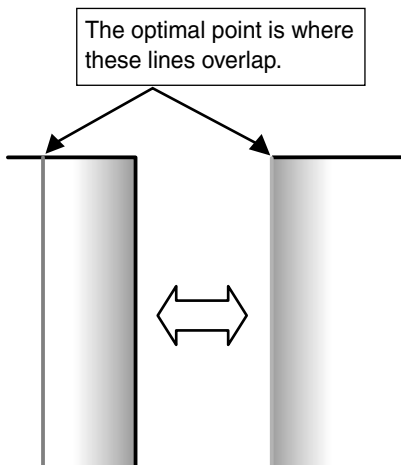
■ Edge blending adjustment

This projector has the function to hide the seams for multi-screens.

Procedure of adjustment



- ① **Press the “MENU” button.**
The MAIN MENU screen will be displayed.
- ② **Select the “POSITION” with the ▲ ▼ buttons.**
- ③ **Press the “ENTER” button.**
The POSITION screen will be displayed.
- ④ **Select “EDGE BLENDING” with the ▲ ▼ buttons.**
- ⑤ **Press the “ENTER” button.**
The EDGE BLENDING screen will be displayed.
- ⑥ **Specify the area to be adjusted with the ▲ ▼ buttons.**
To joint the top: set “UPPER” to “ON”.
To joint the bottom: set “LOWER” to “ON”.
To joint the left: set “LEFT” to “ON”.
To joint the right: set “RIGHT” to “ON”.
- ⑦ **Press the “ENTER” button to toggle “ON” and “OFF”.**
- ⑧ **Adjust the correction width with the ◀ ▶ buttons.**
<To display the adjustment marker>
- ⑨ **Select “MARKER” with the ▲ ▼ buttons.**
- ⑩ **Select “ON” with the ENTER buttons.**



Note

Adjustment marker
When the “MARKER” is set to “ON”, the image position adjustment marker is displayed. Green lines are shown on the top and the left of the displayed picture frame and red lines are displayed on the right and the bottom. The optimal point is the position where the red line of one frame overlaps the green line of the other frame.

Notice:
The correction widths of the jointed frames must be the same value all the time.
The optimal joint cannot be achieved if the jointed frames have different correction widths.

BRIGHT ADJUST	
BRIGHT INSIDE	6
BRIGHT OUTSIDE	6
UPPER	0
LOWER	0
RIGHT	0
LEFT	0

▲▼:MENU SELECT
◀▶:ADJUST

- ⑪ Select the “BRIGHT” with the ▲ ▼ buttons.
- ⑫ Press the ENTER button.
The BRIGHT ADJUST screen will be displayed.
- ⑬ Select the “BRIGHT INSIDE” with the ▲ ▼ buttons.
- ⑭ Adjust the compensation value (0-255) with the ◀ ▶ buttons.
- ⑮ Select the part of Upper, Lower, Right or Left with ▲ ▼ buttons.
- ⑯ Adjust the width which do not compensate with ◀ ▶ buttons (0-255).
- ⑰ Select the "BRIGHT OUTSIDE" with the ▲ ▼ buttons.
- ⑱ Adjust the compensation value (0-255) with the ◀ ▶ buttons.

Note • BRIGHT adjustment is used to avoid the conspicuous BRIGHT of the part in which picture images are superimposed on each other when multi-screens are displayed using the edge blending system. The optimal point will be achieved when correction is made so that BRIGHT will be the same in the part in which images are superimposed and in the part in which images are not superimposed by adjusting the BRIGHT inside. Adjust the widths of the top, bottom, left and right if the image looks brighter only in the vicinity of the borders between the overlapping and non-overlapping parts after making BRIGHT adjustment. If the image becomes darker only in the vicinity of the borders after width adjustments, also adjust the BRIGHT outside.

Changing the display language

MAIN MENU	
PICTURE	
POSITION	
LANGUAGE	
OPTION	
TEST PATTERN	
REGISTERED SIGNAL LIST	

▲▼:MENU SELECT
ENTER:SUB MENU

LANGUAGE	
ENGLISH	
DEUTSCH	
FRANÇAIS	
ESPAÑOL	
ITALIANO	
日本語	
中文	

▲▼:SELECT
ENTER:SET

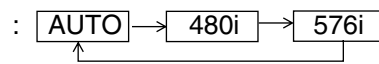
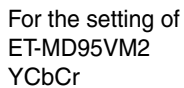
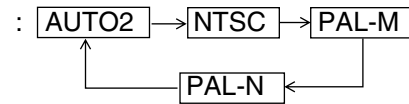
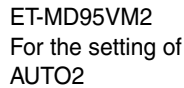
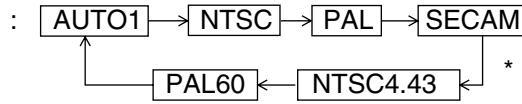
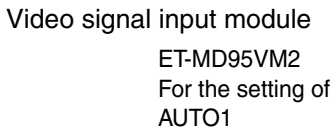
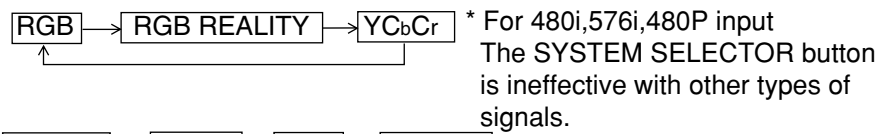
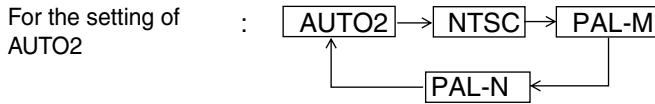
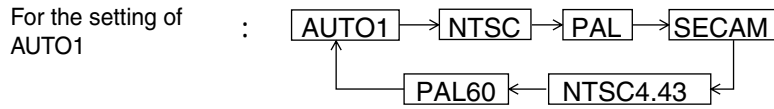
- ① Press the “MENU” button.
The MAIN MENU screen will be displayed.
- ② Select the “LANGUAGE” with the ▲ ▼ buttons.
- ③ Press the “ENTER” button.
The LANGUAGE screen will be displayed.
- ④ Select the desired language with the ▲ ▼ buttons.
- ⑤ Press the “ENTER” button to establish your selection.
Menus, setting items, adjustment screens, and control button names will be displayed in the language the user chooses. The available languages are: English, German (DEUTSCH), French (FRANÇAIS), Italian (ITALIANO), Spanish (ESPAÑOL), Japanese (日本語) and Chinese (中文).

Note • The on-screen display of the projector is set to the English language on shipping.

How to change the system format

Pressing the SYSTEM SELECTOR button on the remote control or the control panel of the main unit allows the user to make the following changes depending on the currently selected input module. The name of the selected system such as RGB, YP_BPr and AUTO is displayed on the top left of the screen and disappears automatically.

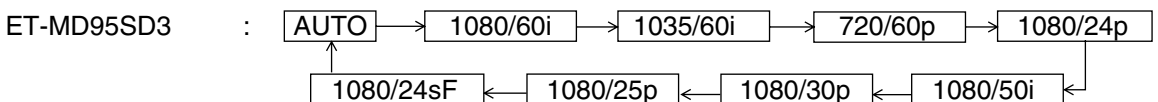
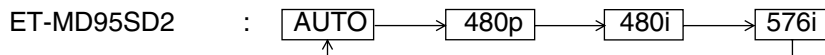
S video / Video terminal input signal



* For the details on the setting for AUTO1, AUTO2 or YCbCr, refer to page 67.

* When the STD (standard) button is pressed while changing the system mode (with the SYSTEM SELECTOR), the projector automatically returns to AUTO1, AUTO2, or AUTO.

Serial digital input module



* "AUTO 1": Selection is automatically made out of NTSC, PAL, SECAM, NTSC4.43 and PAL60.
"AUTO 2": Selection is automatically made out of NTSC, PAL-M and PAL-N.

RGB1/RGB2 terminal input signals

For 720p, 1080i input:

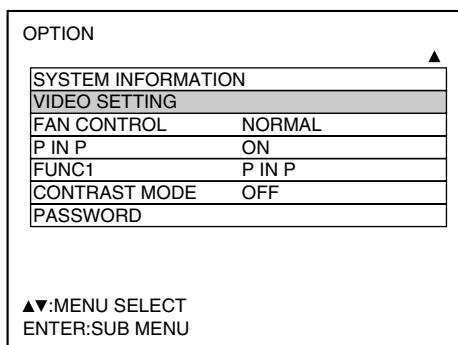
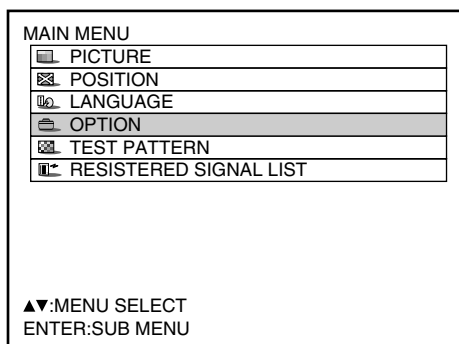
For 480i, 576i, 480p input:

For the signals other than those above, SYSTEM SELECTOR button is invalid.

How to change the signal for the ET-MD95VM2 (optional)

When ET-MD95VM2 (optional) is installed with the projector, select the signaling system according to the connected device.

Procedure of setting



① **Press the “MENU” button.**
The MAIN MENU screen will be displayed.

② **Select “OPTION” with the ▲ ▼ buttons.**

③ **Press the “ENTER” button.**
The OPTION screen will be displayed.

④ **Select “VIDEO SETTING” with the ▲ ▼ buttons.**

Note • When ▲ ▼ buttons are displayed above or under the items in the “PICTURE” or “OPTION” screen, they indicate that there are more adjustment (items).

⑤ **Press the “ENTER” button.**
The VIDEO SETTING screen will be displayed.

⑥ **Choose an input signaling system with the ▲ ▼ buttons and switch to “LINE or Y/C” or “YCbCr” with the ◀ ▶ buttons.**

The selected signaling system appears.
(The picture may be distorted during the switching operation.)

⑦ **If “LINE or Y/C” is selected, choose a video system with the ▲ ▼ buttons and switch to “AUTO1” or “AUTO2” with the ◀ ▶ buttons.**

The selected signaling system appears.
(The picture may be distorted during the switching operation.)

⑧ **Press the “MENU” button three times.**
The on-screen indications disappear and the set screen appears.

How to use RGB REALITY mode

RGB REALITY mode converts RGB (primary colors) input signals into component signals and achieves the high-quality playback by motion-image-specific picture conversion process.

This mode is effective only when the signal input is applied to the RGB input signal module (ET-MD95RGB).

The appropriate mode can be selected according to the signal. (Refer to page 66)

RGB mode: For RGB signals input from a PC etc. (mostly still images)

RGB REALITY mode: For RGB signals input from a scan converter etc. (mostly motion images)

The following are the signals that can be converted into RGB REALITY mode:

Signal name	fH(kHz)/fV(Hz)	RGB mode	RGB REALITY mode	Remarks
480i	15.73/60	△	◎	
576i	15.63/50	△	◎	
480p	31.47/60	○	◎	
720/60p	45.00/60	○	◎	
1035/60i	33.75/60	○	◎	
1080/60i	33.75/60	○	◎	
1080/24p	27.00/24	○	◎	
1080/50i	28.12/50	○	◎	
1080/30p	33.75/30	○	◎	
1080/25p	28.12/25	○	◎	
1080/24sF	27.00/48	○	◎	
Others		◎	×	RGB mode only

◎ : Supported (Factory default)

○ : Supported (To use the signal in the mode with ○, select the signal with the SYSTEM SELECTOR button and register it.)

△ : Use the signal in the RGB REALITY mode because the signal may not be supported depending on the state of the signal.

× : Not supported

Note

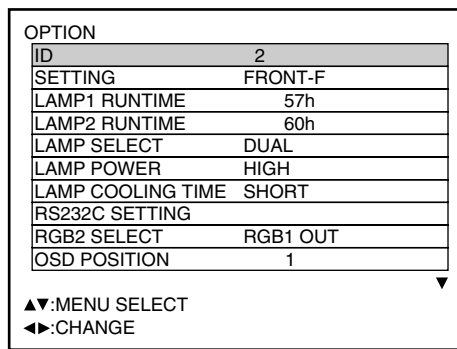
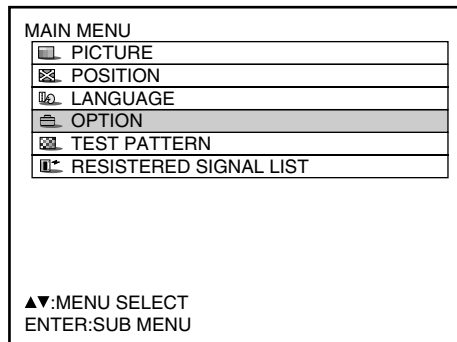
- The automatic picture adjustment (page 42) and the adjustment of the input resolution (page 61) cannot be performed because the optimal adjustment value is preset in the RGB REALITY mode.
- The projector's adjustment functions in the RGB REALITY mode are the same as those for the YPbPr (or YCbCr) input.

Option settings

■ ID number setting

The projector has an ID number setting function that helps the user to control two or more projectors either simultaneously or separately with a single remote control. **The ID number is set to "ALL" by default. Hence the ID number need not be set when only one projector is used.**

Procedure of setting



- ① **Press the "MENU" button.**
The MAIN MENU screen will be displayed.
- ② **Select "OPTION" with the ▲ ▼ buttons.**
- ③ **Press the "ENTER" button.**
The OPTION screen will be displayed.
- ④ **Select "ID" with ▲ ▼ buttons and change the value with ◀ ▶ buttons (ALL, 1, 2, ...64).**
- ⑤ **Press the "MENU" button twice.**
This concludes the setting procedure and the on-screen indications disappear and the normal screen appears again.

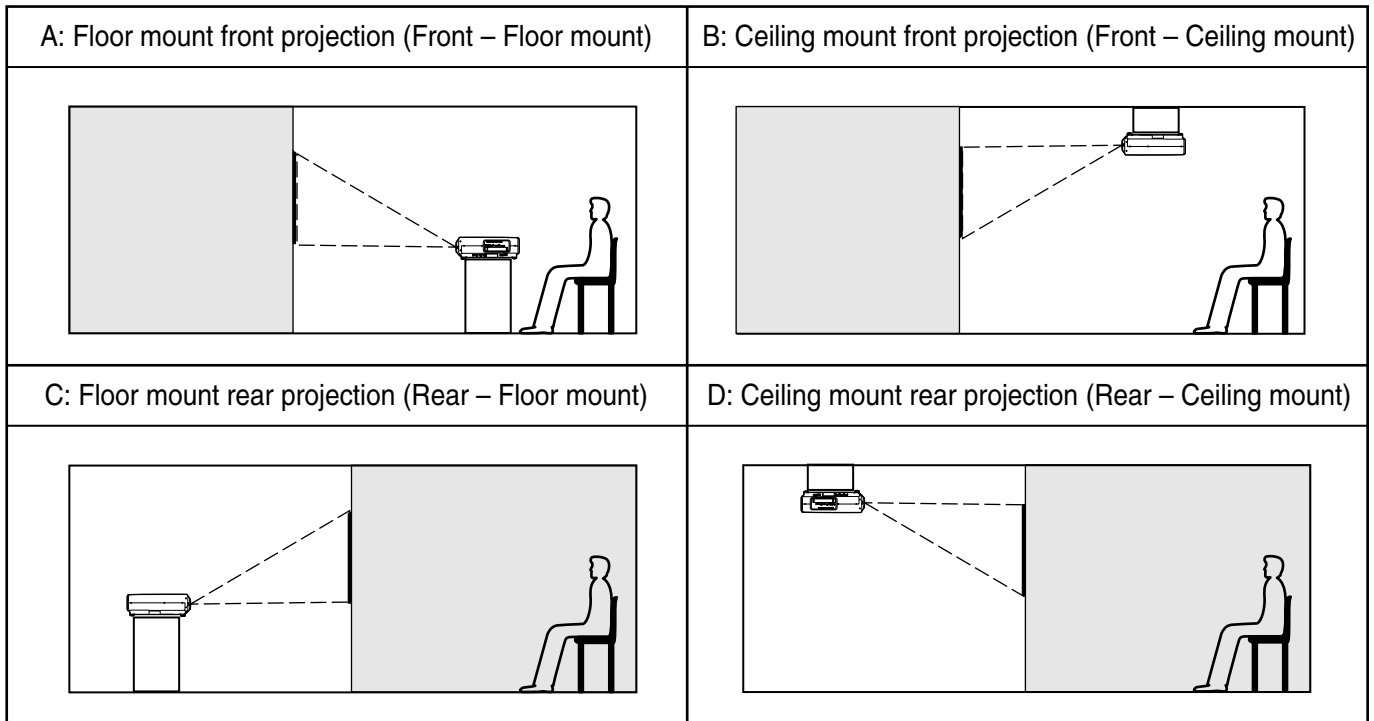
Note

- The ID number can be set to "ALL", or selected from "1" to "64".
- If the projectors are given ID numbers, their remote controls must be assigned the same ID numbers, respectively.
- If the ID number of a projector is set to "ALL", it can be controlled by the remote control or the PC with any ID number.
If multiple projectors are used and some of them have their IDs set to "ALL", they cannot be controlled separately from the projectors with other ID numbers.
For details on remote control ID setting, see page 16.

Optional settings

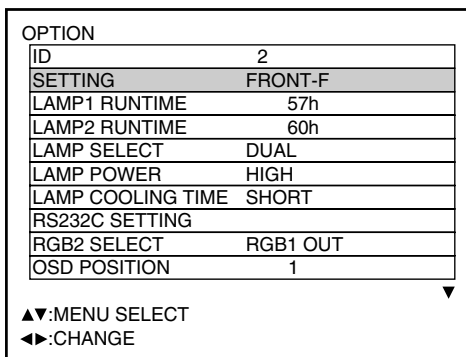
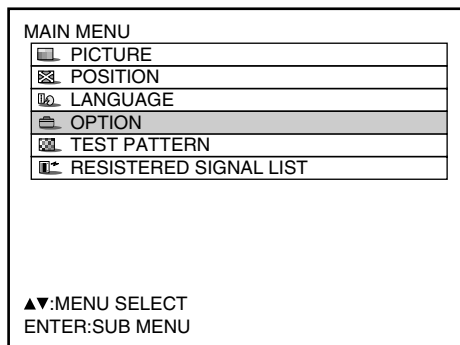
■ Installation Setting

A projection scheme can be chosen depending on the installation of the projector. If the picture is shown upside down or in reverse, change the projection scheme using the following figures A to D.



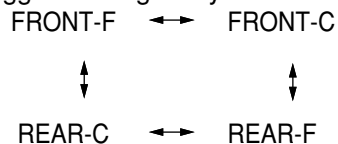
Select the setting by displaying the on-screen indications using buttons of the remote control or the control panel on the main unit.

Procedure of setting



- ① Press the “MENU” button.
The MAIN MENU screen will be displayed.
- ② Select “OPTION” with the ▲ ▼ buttons.

- ③ Press the “ENTER” button.
The OPTION screen will be displayed.
- ④ Select “SETTING” with the ▲ ▼ buttons and choose a projection scheme with the ◀ ▶ buttons.
Each time ◀ or ▶ button is pressed, the types of projection scheme, together with its indications, are toggled through a cycle as follows:

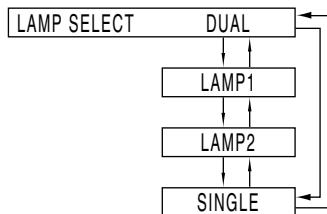


- ⑤ Press the “MENU” button twice.
The on-screen indications disappear and the normal screen appears again.

■ Lamp select

Two internal lamps in the projector can be used either in “DUAL” or “SINGLE” mode depending on user's needs or viewing conditions.

In the “SINGLE” mode, the projector may automatically switches between one lamp and the other, or one of the lamps can be specified.



“DUAL”: Two lamps illuminate.

“LAMP 1”: One lamp illuminates.
(Lamp Unit 1 is always used)

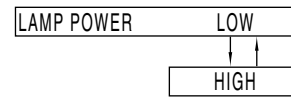
“LAMP 2”: One lamp illuminates.
(Lamp Unit 2 is always used)

“SINGLE”: One of the lamps illuminates.
(The lamp with shorter operating hours is automatically selected)

- Note**
- If any of “LAMP 1”, “LAMP 2” and “SINGLE” has been selected, when a currently lit lamp expires, or is turned off due to the elapsed time of lamp lighting exceeding 1500 hours, the other lamp will be turned on. If “DUAL” has been selected, when either of the two lamps expires, or is turned off due to the elapsed time of lamp lighting exceeding 1500 hours, the other lamp with elapsed time not exceeding 1500 hours continues lighting. Further, if the elapsed time exceeds 1500 hours for both lamps, the projector will enter a standby state.
 - If only one lamp is mounted, select “LAMP 1” or “LAMP 2” according to the relevant lamp unit. In “LAMP 1” or “LAMP 2” mode, if the corresponding lamp is not installed, the other lamp will turn on.
 - If the lamp selection is changed, picture is muted during lamp switching execution. (7-25sec.)

■ Lamp power

The luminance of the projection lamp can be changed depending on user's needs or the viewing conditions.



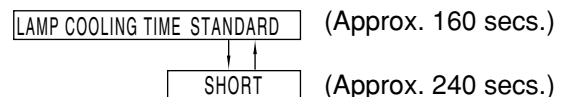
“HIGH”: Set when high brightness is necessary.

“LOW”: Set when high brightness is not necessary.

- Note**
- When set to “LOW”, it is possible to reduce power consumption, reduce operating noise and extend lamp service life.

■ Lamp cooling time

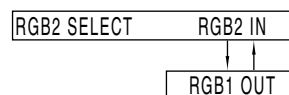
The user can change the length of time for cooling down lamps after the power off.



- Note**
- When set to “SHORT”, operating noise increases a little.

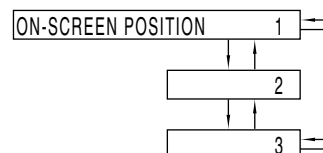
■ RGB2 select

The RGB2 terminal can be used either for RGB2 IN or RGB1 OUT function.



■ Position of on-screen indications

The user can specify the position of the on-screen indications



“1”: Top of the screen

“2”: Middle of the screen

“3”: Bottom of the screen

Option settings

■ System information

Displays the system information of the projector.

SYSTEM INFORMATION	
ROM VERSION:	1.00
SET RUNTIME:	14h
LAMP1 RUNTIME:	13h
LAMP2 RUNTIME:	13h
INPUT BOARD:	NO INSERT
NUMBER OF ENTRY SIGNAL:	4/96

ENTER: NEXT

- Pressing the “ENTER” button will move on to the next page.

SYSTEM INFORMATION	
ROM VERSION:	1.00
ON COUNT	
POWER ON TIMES:	55
LAMP 1 ON:	57(0)
LAMP 2 ON:	59(0)
AUX:	NO INSERT
NUMBER OF ENTRY SIGNAL:	4/96

ENTER: NEXT

■ Video setting

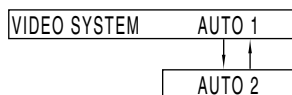
This feature allows the user to select the signaling system according to the connected device.

- ① **Select “VIDEO SETTING” from the “OPTION” screen and press the ENTER button.**

The “VIDEO SYSTEM” screen will be displayed.

- ② **Use the ▲ ▼ buttons to select “AUTO 1” or “AUTO 2”.**

- Note** • When ET-MD95VM2 (optional) is mounted, an item of “VIDEO SELECT” will appear on the “VIDEO SETTING” screen allowing the used to select either “LINE or Y/C” or “YCbCr”.

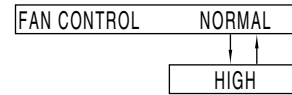


“AUTO1”: The system is automatically selected from among NTSC, PAL, SECAM, NTSC4.43 and PAL60.

“AUTO2”: The system is automatically selected from among NTSC, PAL-M and PAL-N.

■ Fan control

When using the projector over 1 400 m (4605.3') above sea level, set to “High”.



■ Automatic adjustment

(Only for RGB input)

Use this setting when adjusting a specific or oblong (16:9, etc.) signal.

- ① **Press the MENU button.**
The MAIN MENU screen will be displayed.
- ② **Select “OPTION” with the ▲ ▼ buttons.**
- ③ **Press the ENTER button.**
The OPTION screen will be displayed.
- ④ **Using the ▲ ▼ buttons, select “AUTO SETUP”.**
- ⑤ **Press the ▲ ▼ buttons.**
The AUTO SETUP screen will be displayed.
- ⑥ **Using the ◀ ▶ buttons, switch to the desired mode.**

“STANDARD”: to receive signals of which image aspect is 4:3 or 5:4
 “WIDE”: to receive signals of which image aspect is 16:9 (oblong)
 “USER”: to receive signals of specific horizontal resolution (number of horizontally displayed dots)

MODE	Applicable resolution
STANDARD	640 x 400, 640 x 480, 800 x 600, 832 x 624, 960 x 720, 1 024 x 768, 1 152 x 864, 1 152 x 870, 1 280 x 960, 1 280 x 1 024, 1 600 x 1 200
WIDE	720 x 400, 848 x 480, 1 280 x 720, 1 120 x 750, 1 376 x 768, 1 600 x 1 024

- ⑦ **If “USER” is selected, enter the horizontal resolution of signal source into “number of horizontally displayed dots” using ◀ ▶ buttons.**
- ⑧ **Press the ENTER button.**
Execute automatic adjustment.
A message “EXECUTING...” appears during automatic adjustment.
When the adjustment is complete, the system returns to the input screen.

■ P IN P

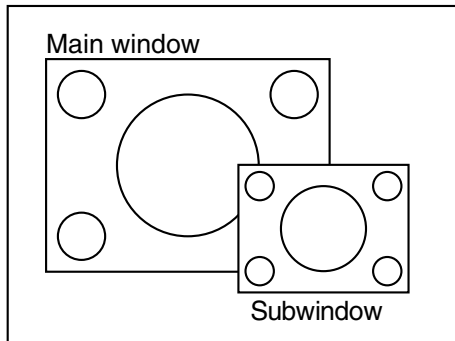
This item is used to set the condition of the Picture-In-Picture.

OPTION	
▲	
SYSTEM INFORMATION	
VIDEO SETTING	
FAN CONTROL	NORMAL
P IN P	ON
FUNC1	P IN P
PASSWORD	

P IN P	
MAIN WINDOW:	RGB1
SIZE	
POSITION	
SUB WINDOW:	RGB1
SIZE	
POSITION	
FRAME LOCK:	MAIN WINDOW
TYPE:	MAIN WINDOW
LINEALITY	MAIN WINDOW

▲▼:MENU SELECT

Select "ON" or "OFF" with the ◀ ▶ buttons. The submenu can be displayed with the "ENTER" button only when "ON" is selected.



• Main window:

The terminal selected for input is displayed.

Size: The user can specify the display size of the main window between 10% and 100%.

Position: The user can specify the display position of the main window on the screen.

• Subwindow:

The input terminal for the subwindow is displayed.

If more than one input terminal is available for P IN P, one of them can be selected with the buttons.

Size: The user can specify the display size of the subwindow between 10% and 100%.

Position: The user can specify the display position of the subwindow on the screen.

• Frame lock:

The user can select the window to apply frame lock.

"MAIN WINDOW": Frame lock is set for the input signals specified for the main window.

"SUBWINDOW": Frame lock is set for the input signals specified for the subwindow.

• Type:

The user can select the window that is displayed by priority when two windows overlap.

"MAIN WINDOW": The main window is displayed by priority.

"SUBWINDOW": The subwindow is displayed by priority.

• Linearity:

The user can select the window to apply the linearity correction when the P IN P function and the keystone distortion correction function are both used simultaneously.

"MAIN WINDOW": The linearity correction is applied to the main window.

"SUBWINDOW": The linearity correction is applied to the subwindow.

Note

- The P IN P function is not available depending on the input signals and the selected input terminals.
- The main window's picture adjustment values such as the picture mode, gamma selection and color temperature setting for the main window will be applied.

Option settings

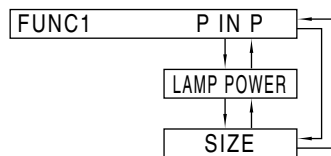
List of P IN P

Subwindow		RGB1			RGB2			VIDEO input	S-VIDEO input	AUX												
		RGB input	YCbCr input	YPbPr input	RGB input	YCbCr input	YPbPr			ET-MD95RGB				ET-MD95VM2			ET-MD95SD1	ET-MD95SD2	ET-MD95SD3	ET-MD75DV	ET-MD75NT	
										RGB input	RGBrealiry input	YCbCr input	YPbPr input	LINE input	Y / C input	YCbCr input						
RGB1	RGB input	×	×	×	×	×	×	○	○	×	○	○	×	○	○	○	○	○	×	×	×	
	YCbCr input	×	×	×	×	×	×	×	×	○	×	×	×	×	×	×	×	×	×	○	○	
	YPbPr input	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	
RGB2	RGB input	×	×	×	×	×	×	○	○	×	○	○	×	○	○	○	○	○	×	×	×	
	YCbCr input	×	×	×	×	×	×	×	×	○	×	×	×	×	×	×	×	×	×	○	○	
	YPbPr input	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	
VIDEO input		○	×	×	○	×	×	×	×	○	×	×	×	×	×	×	×	×	×	○	○	
S-VIDEO input		○	×	×	○	×	×	×	×	○	×	×	×	×	×	×	×	×	×	○	○	
AUX	ET-MD96RGB	RGB input	×	○	×	×	○	×	○	○	×	×	×	×	×	×	×	×	×	×	×	
		RGBrealiry input	○	×	×	○	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
		YCbCr input	○	×	×	○	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
		YPbPr input	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
	ET-MD95VM2	LINE input	○	×	×	○	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
		Y / C input	○	×	×	○	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
		YCbCr input	○	×	×	○	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
	ET-MD95SD1		○	×	×	○	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
	ET-MD95SD2		○	×	×	○	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
	ET-MD95SD3		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
	ET-MD75DV		×	○	×	×	○	×	○	○	×	×	×	×	×	×	×	×	×	×	×	×
ET-MD75NT		×	○	×	×	○	×	○	○	×	×	×	×	×	×	×	×	×	×	×	×	

○ : P in P (Picture in Picture) combinations are enabled
 × : P in P (Picture in Picture) combinations are disabled

■ Setting FUNC1

The user can specify the function of the “FUNC 1” button on the remote control.



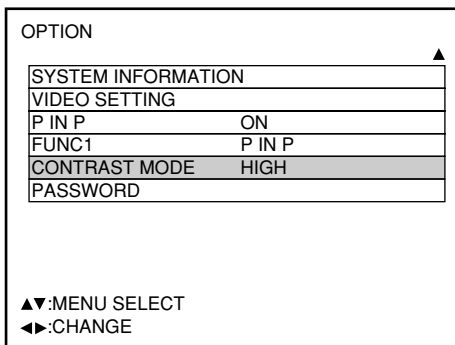
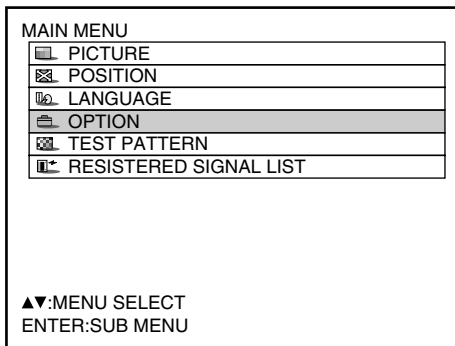
“P IN P”: Displays the P IN P function.
 “LAMP POWER”: Allows the user to set the lamp power.
 “SIZE”: Allows the user to set the picture size.

■ Password

This function is used when a service person. Input the password with the numeric buttons (0 to 9) of the remote control and press ENTER button to confirm the entry.

Setting the contrast mode

Menus are extensively used for configuring, adjusting or reconfiguring the projector. The menu structure is as follows:



- ① **Press the “MENU” button.**
The MAIN MENU screen will be displayed.
- ② **Select “OPTION” with the ▲ ▼ buttons.**
- ③ **Press “ENTER” button.**
The OPTION screen will be displayed.
- ④ **Select “CONTRAST MODE” with the ▲ ▼ buttons.**
- ⑤ **Switch to “HIGH” or “NORMAL” with the ◀ ▶ buttons.**

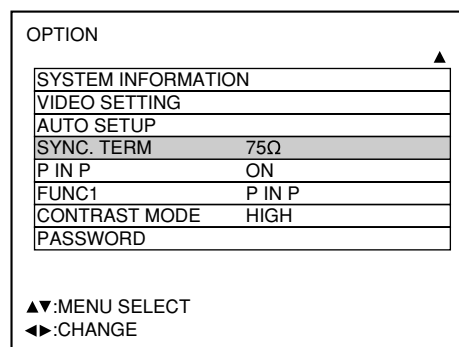
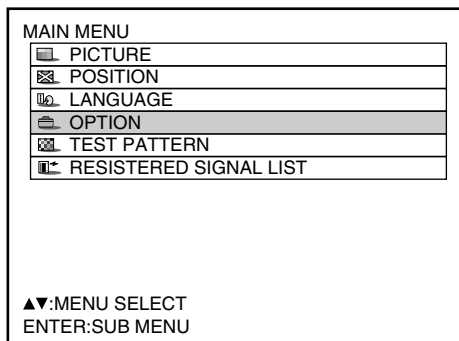
	Mode	
	NORMAL	HIGH
Contrast	Normal	Maximum
Brightness	Maximum	Normal

Note • It is recommended that the contrast mode be set to “HIGH” when watching pictures such as movies.

How to switch the input impedance (signal level) of the synchronization signal

When the ET-MD95RGB input module (sold separately) is mounted, the user can switch the input impedance (signal level) of the synchronization signal with the analog RGB input.

Choose 75 Ω when connecting with the equipment whose synchronization output impedance is 75 Ω such as a signal selector, or switch to HI-Z (TTL) when connecting with the equipment whose synchronization output is TTL such as a video card of a PC.



- ① **Press the “MENU” button.**
The MAIN MENU screen will be displayed.
- ② **Select “OPTION” with the ▲ ▼ buttons.**
- ③ **Press the “ENTER” button.**
The OPTION screen will be displayed.
- ④ **Select “SYNC. TERM” with the ▲ ▼ buttons.**
- ⑤ **Switch the input impedance (signal level) of the synchronization signal with the ◀ ▶ buttons.**
 - These buttons toggle between 75 Ω and HI-Z (TTL).

SYNC. TERM	Signal level	Input impedance
75 Ω	Amplitude: 0.6V[p-p] to 4.0V[p-p]	75 Ω
HI-Z (TTL)	High level: 2.0 V or over Low level: 0.8 V or lower	1 kΩ

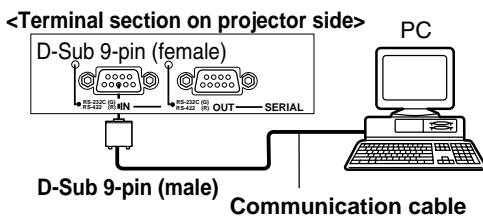
- Note**
- Switch the input impedance according to the input signal.
 - The factory default is 75 Ω.
 - The clock phase and image position may become out of balance during this switching operation. Please make readjustment accordingly.

Using the serial terminals

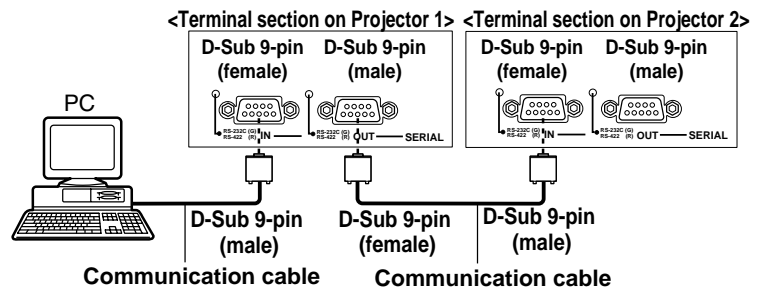
The main unit is equipped with SERIAL terminals located in its terminal section on the side, and this terminal is compliant with RS-232C. Also a serial output terminal is provided to enable plural projector control.

Examples of connection

• Single projector

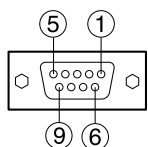


• Plural projectors



Pin assignments and signal names

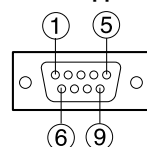
D-Sub 9-pin (female), external appearance



Serial input terminal

Pin No.	Signal name	Description
①		NC
②	TXD	Send data
③	RXD	Receive data
④		Connected internally
⑤	GND	Ground
⑥		NC
⑦	CTS	Connected internally
⑧	RTS	
⑨		NC

D-Sub 9-pin (male), external appearance



Serial output terminal

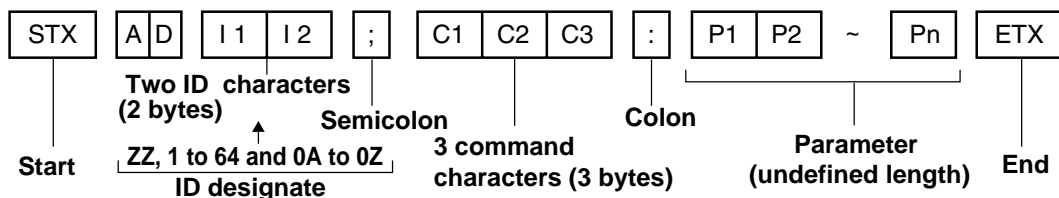
Pin No.	Signal name	Description
①		NC
②	RXD	Receive data
③	TXD	Send data
④		NC
⑤	GND	Ground
⑥		NC
⑦	RTS	Connected internally
⑧	CTS	
⑨		NC

Communication conditions (Factory setting)

Signal level	RS-232C-compliant
Synchronization method	Start-stop synchronization
Baud rate	9 600bps
Parity	None
Character length	8 bits
Stop bit	1 bit
X parameter	None
S parameter	None

Basic format

Transmission from the computer begins with STX, then the ID, command, parameter, and ETX are sent in this order. Add parameters according to the details of control.



Attention

- No command can be sent or received for 10 to 60 seconds after the lamp starts lighting. Try sending any command after that period has elapsed.
- When sending several commands, be sure to wait for a response from the projector before sending the next command. When sending commands without parameters, a colon (:) is not necessary.

Note

- If a wrong command is received, the projector will send an "ER401" command to the computer.
- Projector ID supported on the RS-232C interface is ZZ (ALL) and a group of 1 to 64 and 0A to 0Z.
- If a command is sent with a projector ID specified, the projector will return answer back only in the following cases:

If it coincides with the projector ID,
ID specification is ALL and VPS-SYSTEM is the master, or
ID specification is group and Group is the master.

■ Procedure of setting communication conditions

MAIN MENU	
PICTURE	
POSITION	
LANGUAGE	
OPTION	
TEST PATTERN	
REGISTERED SIGNAL LIST	

▲▼:MENU SELECT
ENTER:SUB MENU

OPTION	
ID	2
SETTING	FRONT-F
LAMP1 RUNTIME	57h
LAMP2 RUNTIME	60h
LAMP SELECT	DUAL
LAMP POWER	HIGH
LAMP COOLING TIME	SHORT
RS232C SETTING	
RGB2 SELECT	RGB1 OUT
OSD POSITION	1

▲▼:MENU SELECT
ENTER:SUB MENU

RS232C SETTING	
(IN) BAUDRATE	38400
(IN) PARITY	EVEN
(OUT) BAUDRATE	38400
(OUT) PARITY	EVEN
VPS SYSTEM	MASTER
GROUP	A
	MASTER

▲▼:MENU SELECT
◀▶:CHANGE

- ① **Press the “MENU” button.**
The MAIN MENU screen will be displayed.
- ② **Press ▲ and ▼ buttons to select “OPTION”.**
- ③ **Press the “ENTER” button.**
The OPTION screen will be displayed.
- ④ **Press ▲ and ▼ buttons to select “RS232C SETTING”.**
- ⑤ **Press the “ENTER” button.**
The RS232C SETTING screen will be displayed.
- ⑥ **Press ▲ and ▼ buttons to select communication conditions**
- ⑦ **Press ◀ and ▶ buttons to confirm the setting.**
- ⑧ **Press the “MENU” button three times.**
The on-screen indications disappear, and the system returns to the normal screen.

■ Control commands

When controlling the projector from a computer, the following commands are available:

Command	Function of command	Remarks
PON	Power "ON"	In standby mode, commands other than "PON" are invalid. • While the lamp is ON and being controlled, a "PON" command will not be accepted.
POF	Power "OFF"	
I I S	Switch input modes	Parameter VID = VIDEO : SVD = S-VIDEO RG1 = RGB1 : RG2 = RGB2 AUX=AUX
QSL	Query for active lamp mode	Parameter 0 = DUAL 1 = SINGLE 2 = LAMP 1 3 = LAMP 2 * "SINGLE" will use the lamp (LAMP 1 or LAMP 2) with shorter operating hours.
LPM	Active lamp mode	Parameter 0 = DUAL 1 = SINGLE 2 = Only LAMP 1 is on 3 = Only LAMP 2 is on
OLP	Lamp power setting	Parameter 0 = STANDARD, 1= HIGH

■ Cable specifications

<Connecting to a PC>

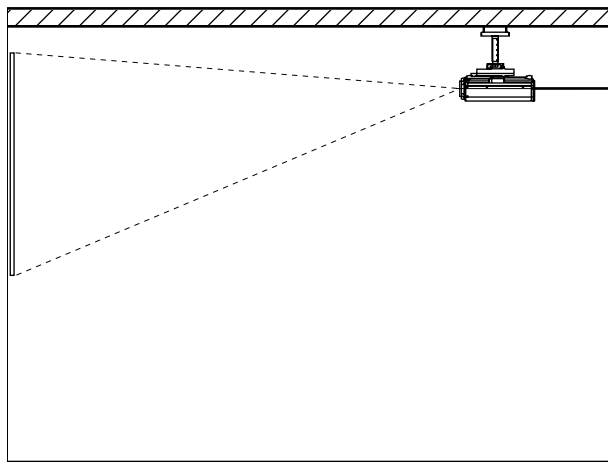
Projector		Computer (DTE specifications)	
1	NC	NC	1
2			2
3			3
4	NC	NC	4
5			5
6	NC	NC	6
7			7
8			8
9	NC	NC	9

Attention • To connect the computer to the SERIAL terminal, prepare an adequate communication cable that fits to your personal computer.

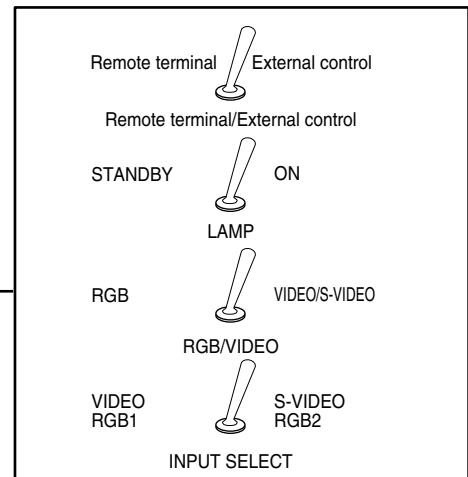
Using the REMOTE 2 terminal

Using the REMOTE 2 terminal provided on the side of the main unit, it is possible to operate the projector from a control panel etc. furnished in a distant location where infrared remote control signal cannot be received.

Example of a control panel layout



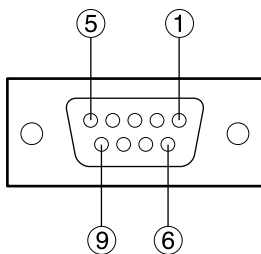
Projector set up in a meeting room



Control panel located in a different room

Pin assignments and control

Be sure to short-circuit Pins ① and ⑨ when controlling.



D-Sub 9-pin (female) external appearance

	Names of terminals	Open (H)	Short (L)
1	GND	—————	GND
2	POWER	OFF	ON
3	RGB1	Other	RGB1
4	RGB2	Other	RGB2
5	VIDEO	Other	VIDEO
6	S-VIDEO	Other	S-VIDEO
7	AUX	Other	AUX
8	SHUTTER	OFF	ON
9	RST / SET	Controlled by remote control	Controlled by external contact

Note

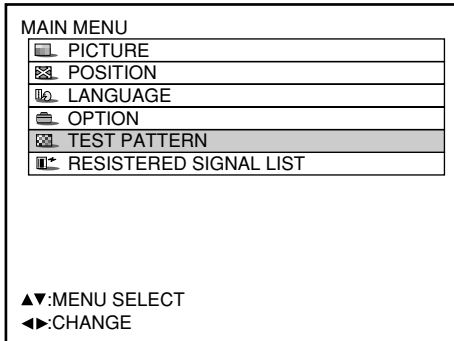
- The "POWER", "RGB" and "VIDEO" buttons on the remote control and projector will not operate when pins ① and ⑨ are shorted. In addition, it disables the main unit operation sections that correspond to those functions, remote control buttons and RS-232C commands.

Displaying the internal test pattern

The projector has seven types of internal test patterns to check the condition of the set. To display test patterns, follow the steps below.

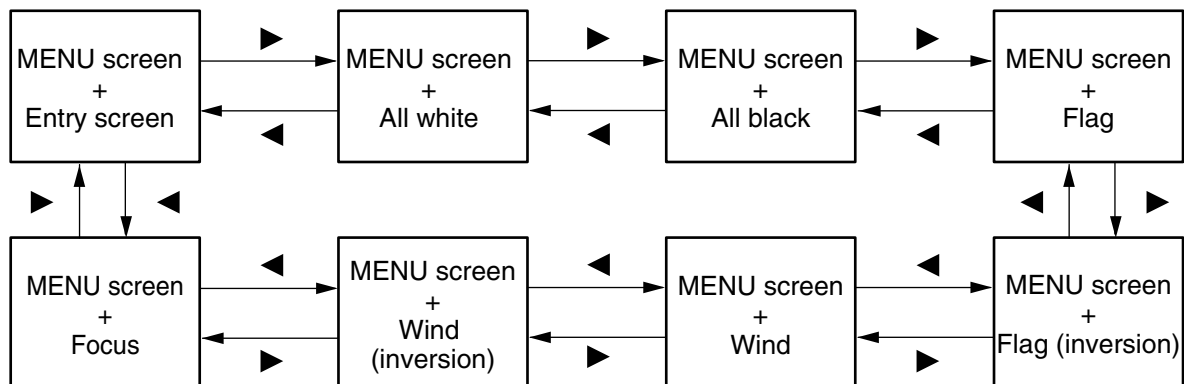
Note

• Results of adjustment on the image, picture quality, position, size and other factors will not be reflected in test patterns. Be sure to display the input signal before performing various kinds of setting.



- ① **Press the MENU button.**
The MAIN MENU screen will be displayed.
- ② **Select “TEST PATTERN” with the ▲ ▼ buttons.**
- ③ **Search through the various types of test patterns with the ◀ ▶ buttons.**

■ Cycle of displayed internal test patterns



RS-422 control functions

The RS-232C terminal of the projector is available as a RS-422 control terminal. RS-232C control terminal is selected on shipping.

CAUTION

Consult a service technician to convert RS-422 control functions.

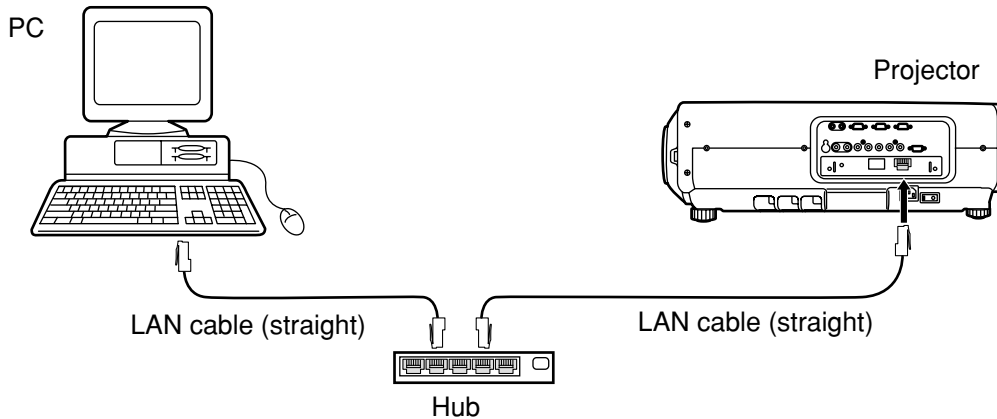
How to use network module (optional)

The network module of the projector (ET-MD75NT) is provided with a LAN interface to enable projector control from the Web browser of personal computer.

In addition, the network module also fulfills automatic E-mail transmission function. It can send mail to a predefined E-mail address when the system malfunctions or when the lamp used hours reaches the set value.

Example of connection

A LAN cable is required to use the network module.



- A Web browser is required to use this function. Make sure that a Web browser is available in the system.
- Use Microsoft Windows 95/98/Me or Windows NT4.0/Windows 2000/XP for the OS of your personal computer.
- The Web browser should be Internet Explorer 5.01 or later or Netscape Navigator/Communicator 4.75 or later.
- To use the E-mail function, communication with E-mail server must be established. Make sure that E-mail feature is available in your system.
- Use a LAN cable of straight connection and compatible to Category 5.
- The length of LAN cable must be 100 m or shorter.

Name and function of network module parts

Function switch

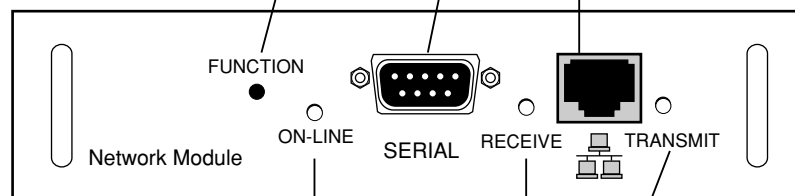
Use this function to return the network module setting to the factory setting.

Serial input/output terminal

A special terminal for service person.
Connect nothing here.

LAN terminal (10Base-T/100Base-TX)

Connect LAN cable here.



On-line lamp

This lamp lights up when the system gets ready for LAN connection.
Unlit or blinking lamp indicates that the system is in preparation for LAN connection.

LAN signal sending lamp

Blinks when sending signals.

LAN signal receiving lamp

Blinks when receiving signals.

Attention

- If the LAN terminal is touched by electrostatically charged hands (or body), failure may be caused by the discharge of static electricity.
Be careful not to touch metallic part of LAN terminal or LAN cable.

■ Initial setting of network module

Procedure of setting

MAIN MENU	
PICTURE	
POSITION	
LANGUAGE	
OPTION	
TEST PATTERN	
REGISTERED SIGNAL LIST	

▲▼:MENU SELECT
ENTER:SUB MENU

OPTION	
SYSTEM INFORMATION	
VIDEO SETTING	
NETWORK SETTING	
FAN CONTROL	NORMAL
P IN P	ON
FUNC1	P IN P
CONTRAST	NORMAL
PASSWORD	

▲▼:MENU SELECT
ENTER:SUB MENU

NETWORK SETTING	
HOST NAME	PROJECTOR
DHCP	OFF
IP ADDRESS	192.168. 0. 8
PORT	80
NET MASK	255.255.255. 0
GATEWAY	192.168. 0. 1
MAC ADDRESS	00.00.00.00.00.00
STORE	

▲▼:MENU SELECT
ENTER:ADJUST

- ① **Press the “MENU” button.**
The MENU screen will be displayed.
- ② **Select “OPTION” with the ▲ ▼ buttons.**
- ③ **Press the “ENTER” button.**
The OPTION screen will be displayed.
- ④ **Select “NETWORK SETTING” with the ▲ ▼ buttons.**
- ⑤ **Press the “ENTER” button.**
The NETWORK SETTING screen will be displayed.
- ⑥ **Select items with the ▲ ▼ buttons and press the “ENTER” button to change the setting.**
- ⑦ **Select the “STORE” with the ▲ ▼ buttons and press the “ENTER” button twice.**
The on-line lamp of network module turns off and then turns on.

Note

- It takes about two minutes for the setting to be reflected in the system.
- Do not turn off the main power supply until the on-line lamp of network module turns on again.

How to use network module (optional)

Items	Function	Description
HOSTNAME	Display of host name and setting	Make alteration if necessary when to use the DHCP server.
DHCP	DHCP client function	Set the DHCP item to ON when to acquire an IP address automatically using the DHCP server. Set to OFF if DHCP server is not used.
IP ADDR	Display of IP address and setting	Enter the IP address if DHCP server is not used.
PORT No.	Display and setting of the port number for connection with the Web browser.	Number 80 is normally used. Change the data if necessary.
NET MASK	Display of net mask and setting	Enter the net mask if DHCP server is not used.
GATEWAY	Display of gateway address and setting	Enter the gateway address if DHCP server is not used.
MAC ADDR	Display of MAC address	Displays the MAC address (Media Access Control Address), which is proper to the network device. This function may be needed when to use the DHCP server.

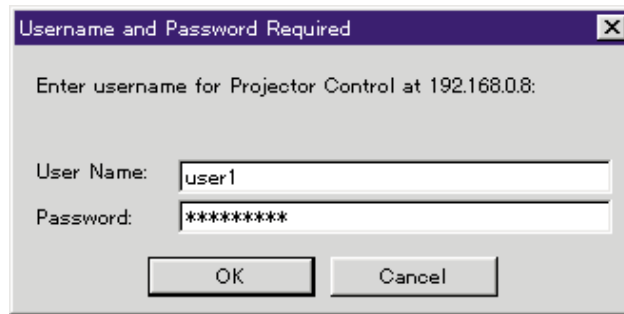
- Before using the DHCP server, make sure the DHCP server is already functioning.
- For details of IP address, net mask, and gateway, ask the network administrator.

■ Accessing from the Web browser

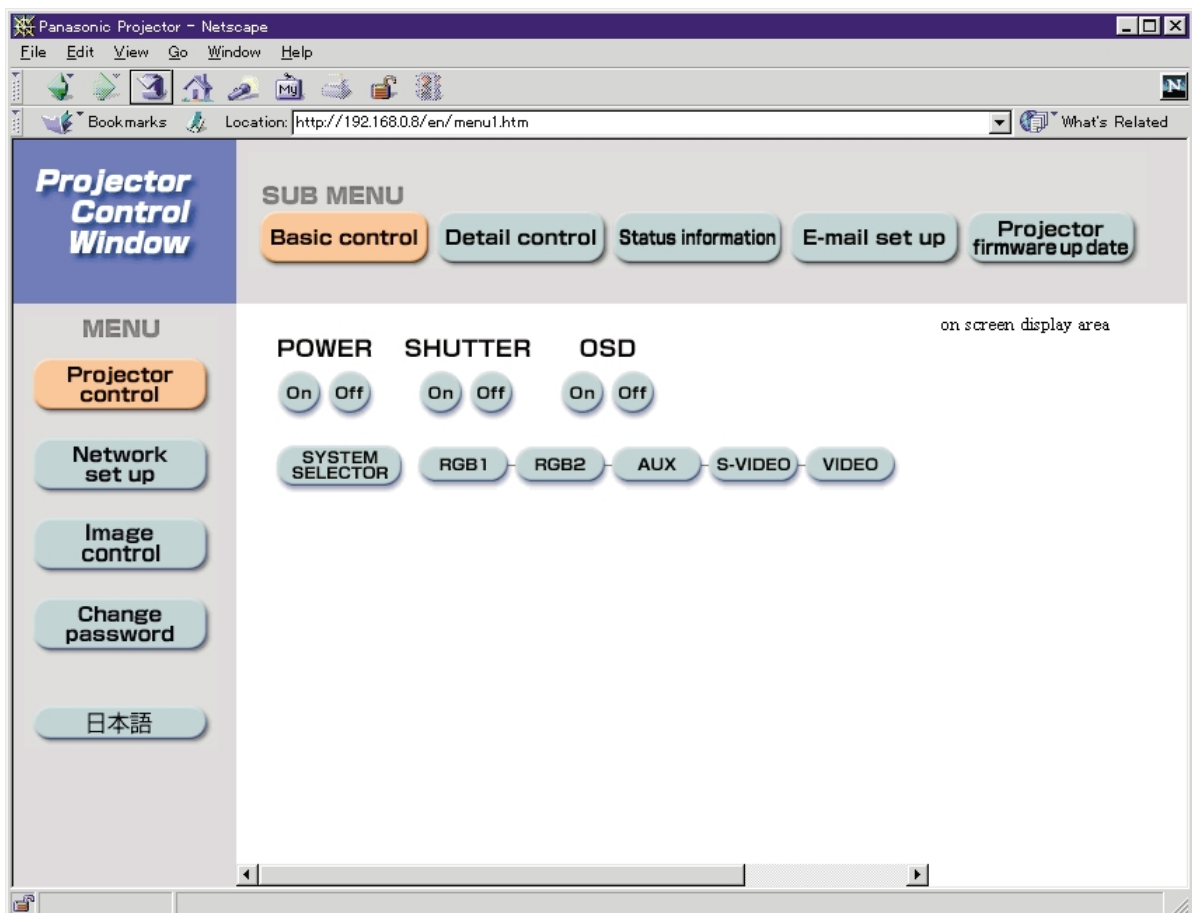
- ① Activate the Web browser in the personal computer.



- ② Enter the IP address set by the projector into the URL input field of the Web browser.
- ③ Enter “user1” in the user name field and enter “panasonic” (lower case) in the password field.



- ④ Press OK and the top page will appear.

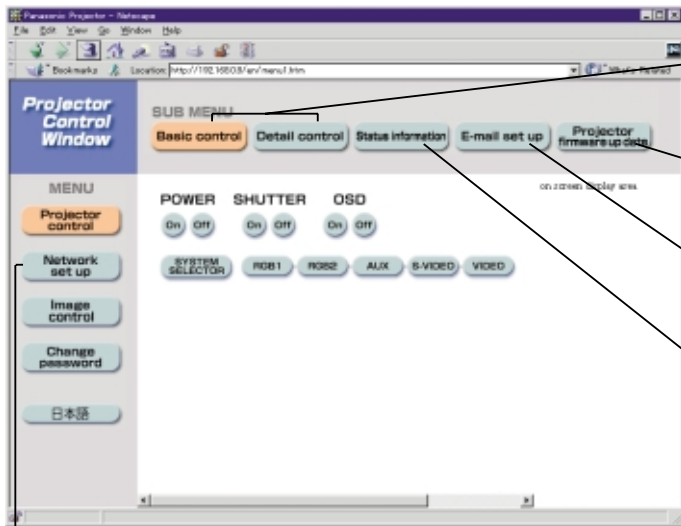


Note

- Avoid activating two or more Web browser simultaneously to work out setting or control actions.
- This feature is effective when the on-line lamp of network module is lighting.
- Change the password first of all.

How to use network module (optional)

Top page



Control button

Click this item, and a projector control page appears.

Update button

Click this item, and a projector firmware update page appears.

E-mail setting button

Click this item, and an E-mail setting page appears.

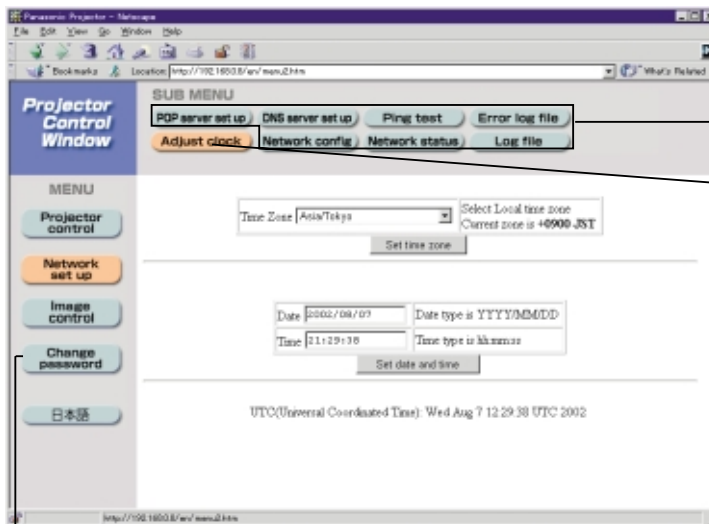
Monitor information button

Click this item, and the status of the projector is displayed.

Network setting button

Click this item, and a network setting page for IP address and other items appear.

Network setting page



Link button to network setting

Link button to time setting

If time setting goes wrong immediately after setting time, the battery must be replaced.

Link button to password changing

Network setting page

Projector Control Window

SUB MENU
 POP server set up DNS server set up Ping test Error log file
 Adjust clock **Network config** Network status Log file

MENU
 Projector control
Network set up
 Image control
 Change password
 日本語

Configuration of network

DHCP client OFF Dynamic Host Configuration protocol

IP address 192 168 0 8

Port 80 Default = 80

Subnet mask 255 255 255 0

Gate way address 192 168 0 1

Host name PROJECTOR Up to 12 characters, alphabet (A-Z), digits (0-9), minus sign (-), and period (.)

Submit

Select ON to enable the DHCP client function.

Enter the IP address if DHCP server is not used.

Enter the port number. Normally use the value of 80 as indicated.

Enter the net mask if DHCP server is not used.

Enter the gateway address if DHCP server is not used.

Enter the projector name. Enter this field when the host name is required such as when to use the DHCP server.

Projector control page

Projector Control Window

SUB MENU
 Basic control **Detail control** Status information E-mail set up Projector firmware update

MENU
 Projector control
 Network set up
 Image control
 Change password
 日本語

POWER SHUTTER OSD

On Off On Off On Off SYSTEM SELECTOR

RGB1 RGB2 AUX S-VIDEO VIDEO

MENU STD

ENTER

NEXT 1 2 3 4 5 6 7 8 9 0

AUTO SETUP

BRIGHT
 CONTRAST
 KEYSTONE
 P IN P
 FREEZE
 LENS
 PICTURE
 POSITION
 OPTION
 SIGNAL LIST
 TEST PATTERN
 GET OSD

on screen display area

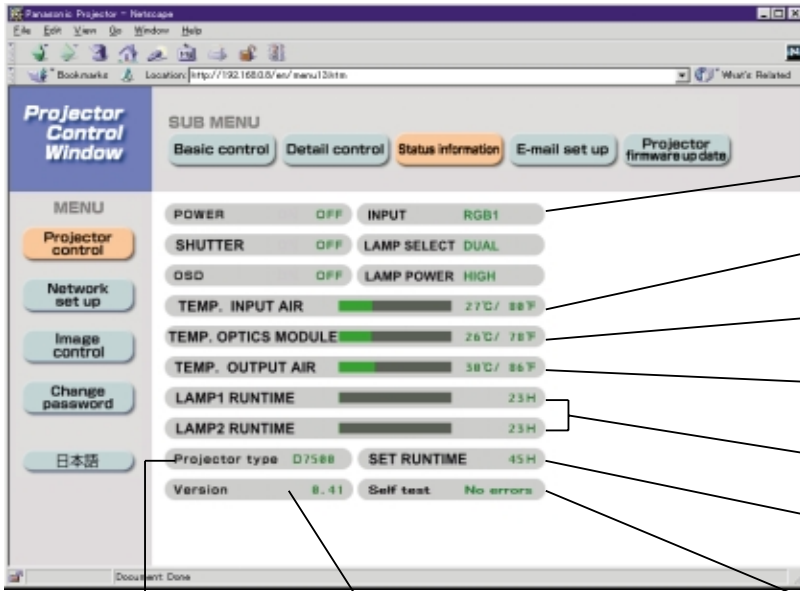
On-screen status is displayed, even if the on-screen of projector is set to off.

Pressing these buttons controls the projector and updates the on-screen description on the right of the control page when control is finished.

This button updates the on-screen description on the right of the control page with the latest information.

How to use network module (optional)

Status indication page



- Displays the status of input slot.
- Displays temperature of projector's intake air.
- Displays temperature inside the projector.
- Displays temperature of projector exhaust.
- Displays the lamp lit hours.
- Displays used hours of the projector.
- Displays self-diagnosis information.

Displays the type of projector.

Displays the firmware version of the projector main unit.

E-mail setting page

- This page allows the user to send mail to up to two mail addresses automatically.

The screenshot shows the 'E-mail set up' page in a web browser. The page is titled 'Projector Control Window' and has a sidebar with navigation buttons: 'Projector control', 'Network set up', 'Image control', 'Change password', and '日本語'. The main content area is divided into several sections:

- MAIL SERVER:** Includes an 'ENABLE' dropdown menu (set to 'Disable'), an 'SMTP SERVER NAME' text box (with a note 'Up to 63 characters'), and a 'MAIL FROM' text box (with a note 'Ex: projector name / Up to 63 characters').
- MAIL OPTION:** Includes a 'MEMO' text box (with a note 'Ex: location, country, corporation, etc. / Up to 63 characters').
- TEMPERATURE WARNING SET UP:** Includes a 'MINIMUM TIME' dropdown (set to '60 -minute interval', with a note '30 to 999 minutes'), 'INPUT AIR TEMPERATURE' (set to 'Over 50°C/122°F'), and 'OUTPUT AIR TEMPERATURE' (set to 'Over 90°C/194°F').
- E-MAIL ADDRESS 1:** Includes an 'E-MAIL ADDRESS 1' text box (with a note 'Up to 63 characters'), an 'ERROR' dropdown (set to 'OFF'), and two 'LAMP1 RUNTIME' settings (both set to 'OFF at REMAIN 200 H' and 'OFF at REMAIN 100 H').

Callout boxes provide the following explanations:

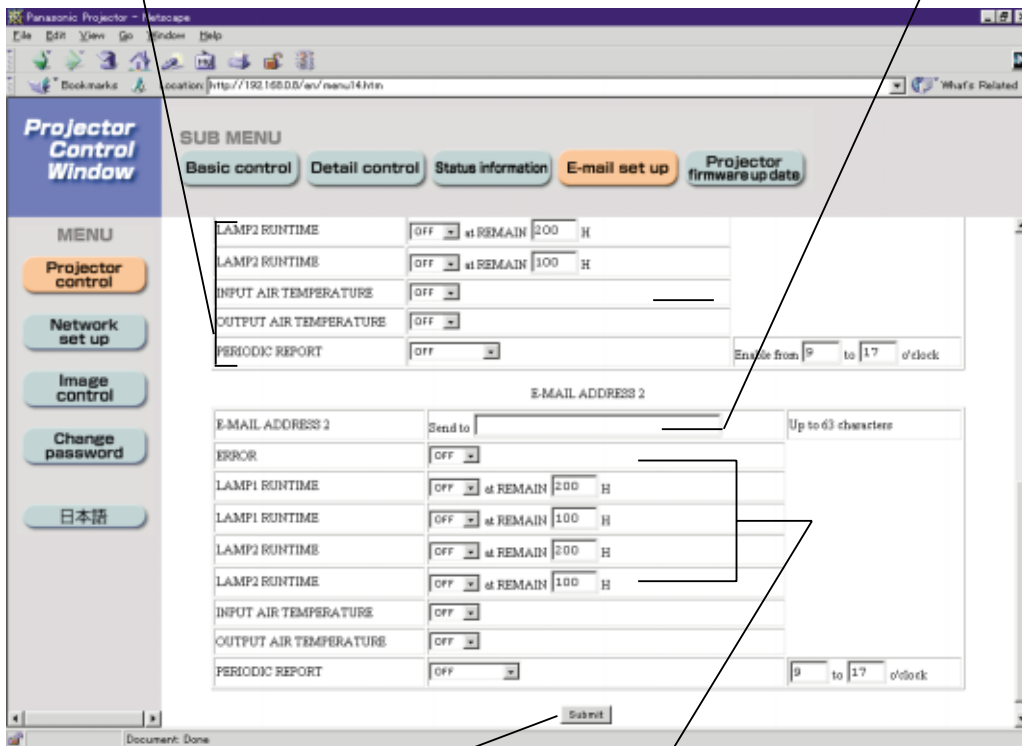
- Select "Enable" to use the E-mail function.
- Enter the IP address of the E-mail server (SMTP).
- The user can enter the location of, for example, the installed projector so that the recipient may easily identify the originator of the E-mail.
- Enter the E-mail address of the projector.
- The user can modify the minimum time interval of temperature warning mail. The default value is 60 minutes. In this case, the user cannot send another mail for 60 minutes after sending previous temperature warning mail even the set warning temperature is reached again.
- The user can modify the threshold temperature for sending temperature warning mail. If the temperature rises above the set value, control sends temperature warning mail.
- Enter the E-mail address of your desired recipient.

How to use network module (optional)

E-mail setting page (continuing)

- Select the conditions for sending E-mail.
- Error: an error is detected by self-diagnosis:
- Warning LAMP1: remaining lamp service time has reached the value set in the field on the right.
- Warning LAMP2: remaining lamp service time has reached the value set in the field on the right.
- Warning input air Temperature: temperature inside the projector has reached the value set in the above field.
- Warning output air Temperature: exhaust temperature has reached the value set in the above field.

To use two E-mail addresses, enter the E-mail address of the destination recipient.

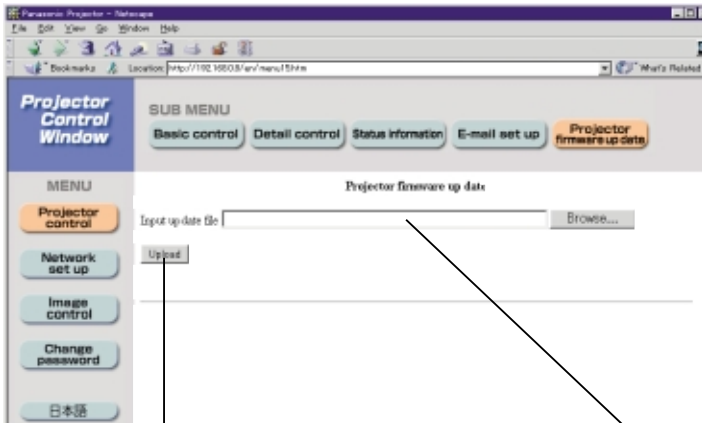


When all entries are complete, press the Submit button.

- Select the conditions for sending E-mail.
- Error: an error is detected by self-diagnosis:
- Warning LAMP1: remaining lamp service time has reached the value set in the field on the right.
- Warning LAMP2: remaining lamp service time has reached the value set in the field on the right.
- Warning input air Temperature: temperature inside the projector has reached the value set in the above field.
- Warning output air Temperature: exhaust temperature has reached the value set in the above field.

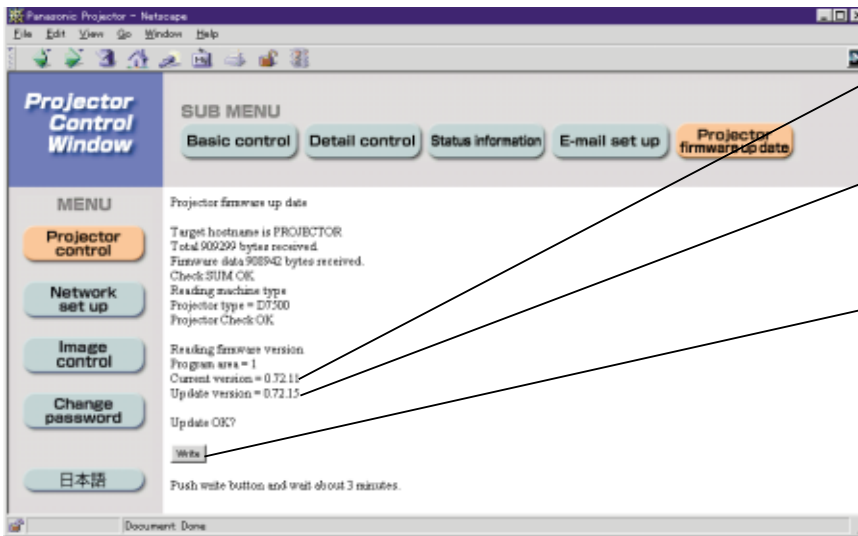
Firmware update page

(Only those personnel with expertise must execute firmware update.)



Enter file name and press the Upload button, which starts transfer. It will take some tens of seconds to finish transfer. The time will depend on the network situation.

Enter the file name of the desired firmware for updating.

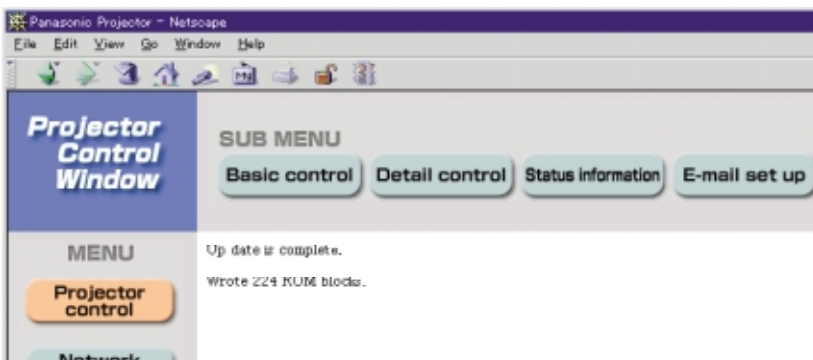


Current version appears.

Transferred updating version is displayed here.

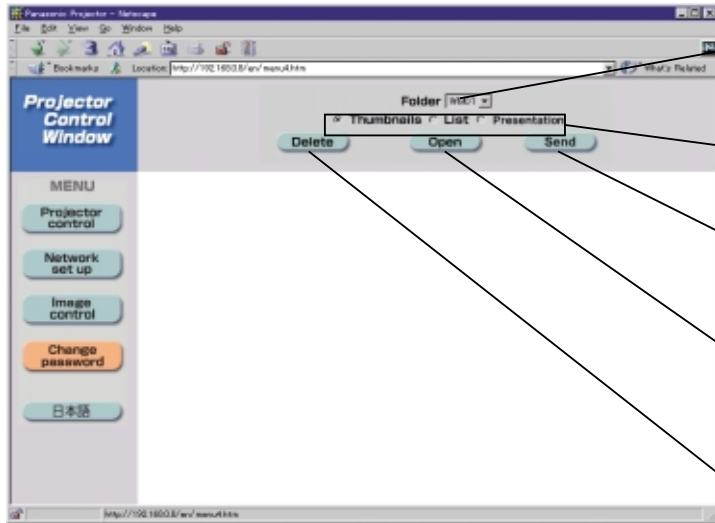
Check the current version and the updating version, and if they are correct, press the Write button, which starts updating. Do not turn off the power supply during the updating process.

- When updating is complete, this message appears.



How to use network module (optional)

Page for control of image files



- Folder selection button**
This button specifies the folder to store the image data.
- Display selection button**
This button selects the format of listing of images stored in the network module.
- Transmission button**
Transfers an image stored in the PC to the network module.
- Display button**
Displays an image stored in the network module.
- Delete file button**
Deletes an image stored in the specified folder of the network module.

Note

- The format of images is compatible with BMP, JPEG and PNG. However, some images may not be displayed because of more than one format existing in JPEG and PNG images.
- Pixels of an image correspond to horizontal 1 024 dots times vertical 768 dots.
- The system can display 65 536 colors.

■ Returning the network module setting back to the factory setting

Using the following procedure, the user can return all settings of network module such as IP address, password and Email setting to the factory setting.

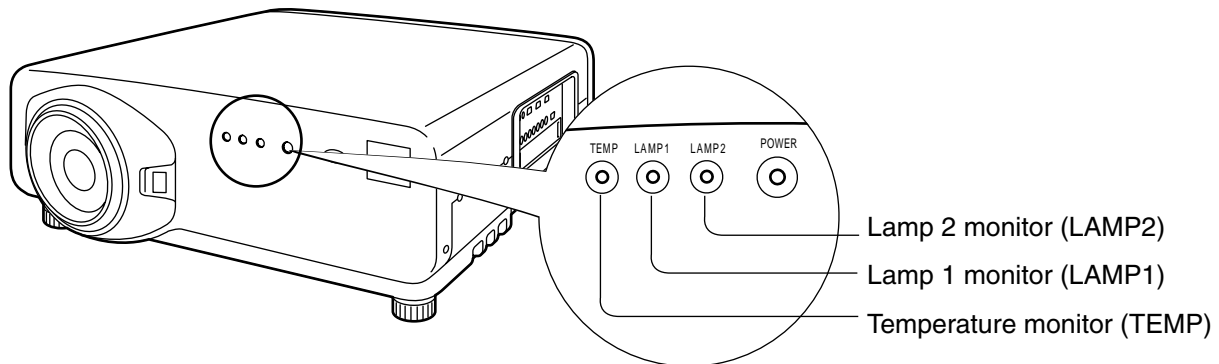
Procedure of setting




- ① Using the remote control "POWER" button, switch the power supply of the projector to standby state.
- ② Using something with a thin tip, press and hold the FUNCTION switch for three seconds. The ON-LINE lamp blinks and turns off after 30 seconds or so.
- ③ Turn off MAIN POWER.
- ④ Turn on MAIN POWER while holding the FUNCTION switch pressed using something with a thin tip.
- ⑤ When the ON-LINE lamp lights up, the operation is complete.

Note • Do not use a pencil or other fragile thing to depress the function switch.

Indication of monitor lamp

Three monitor lamps are provided at the top of main unit front to inform the user of the lamp replacement time and unusual internal temperature. These lamps indicate the degree of abnormality by combination of blinking and/or lighting lamps. Turn off the power and take the proper measure according to the table below.



Name of monitor lamp	Lamp indication	Information	Checkpoint	Remedial measure
Temperature monitor TEMP 	Lighting in red (lamp unit ON)	High temperature inside.	<ul style="list-style-type: none"> • Check if the ventilation port is blocked. • Is the room air temperature too high? • Check the air filter for clogging. 	<ul style="list-style-type: none"> • Remove the object that is blocking the ventilation port. • Move the projector to a temperature of 0 to 40 °C and the humidity of 20 to 80% (no condensation). • Turn off the MAIN POWER switch using the procedure on page 40 and clean the air filter (refer to page 94).
	Blinking in red (2 times)	High temperature inside (Standby condition)		
	Blinking in red (3 times)	Cooling fan has been stopped.		
Lamp monitor LAMP1 LAMP2  	Lighting in red	Indicates the time for replacing the lamp unit.	<ul style="list-style-type: none"> • Did you notice a “REPLACE THE LAMP” message on the screen when turning on the projector power supply. 	<ul style="list-style-type: none"> • This lamp monitor lights up when the lamp unit used hours have reached 1 300 hours. Request the dealer to replace the lamp unit.
	Blinking in red (3 times)	Error is detected in the lamp circuit.	<ul style="list-style-type: none"> • Some error has arisen in the lamp circuit. • Check for fluctuation (or drop) in the source voltage. 	<ul style="list-style-type: none"> • Turn off the MAIN POWER switch using the procedure on page 40 and consult the dealer.

Attention • Be sure to observe the procedure (How to turn “ON” and “OFF” the power supply) on page 39–40 when performing power supply operation to take a measure to the indication of temperature monitor (TEMP) lamp and lamp monitor (LAMP) lamp.

Cleaning and replacement of air filter

If too much dust is deposited in the air filter, temperature inside the main unit will rise and the temperature monitor (TEMP) lamp blinks, eventually turning off the power supply.

Clean the air filter section once every 100 hours or so as a guideline depending on the location of projector operation.

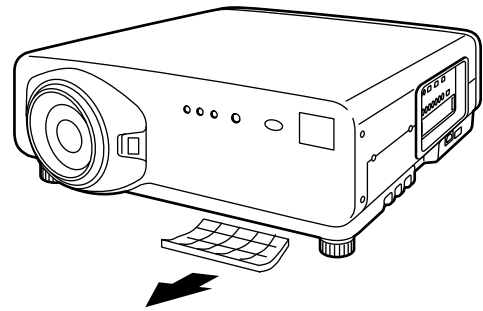
■ Procedure of cleaning

① **Turn off the main power and remove the power plug from the receptacle.**

Turn off the power supply observing the procedure (How to turn "OFF" the power supply) on page 40 and then remove the power plug.

② **Dismantle the air filter.**

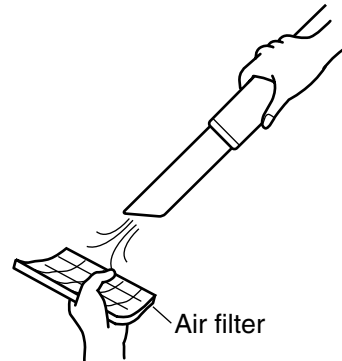
Put a hand in the bottom of the air filter, take out the filter from the main unit while pulling toward yourself.



③ **Clean the air filter.**

Suck off deposited dust with a vacuum cleaner.

Attention • Be careful not to suck in the air filter itself.



④ **Mount the air filter.**

Set the air filter and then mount the filter in the reverse order to step ②.

Attention • The air filter must be fitted in place when using the projector. Using the projector without the air filter fitted inside, dirt and dust are sucked into the projector, causing failure.

Note • If cleaning cannot remove the dust completely, then it is a sign to replace the air filter. Consult the dealer. In addition, when the lamp unit is replaced, also replace the air filter.

Replacement of lamp unit

CAUTION

- Wait until the lamp is cooled sufficiently before replacing the lamp unit.

Precautions on lamp unit replacement

- Be careful when handling a light source lamp. The lamp may burst if it is hit by solid objects or if it is dropped because of high air pressure inside the bulb.
- A used lamp unit may burst if it is handled violently. For disposition of used lamps, request an industrial waste disposal contractor.
- Do not reset the cumulative time, except when the lamp unit has been replaced with a new unit.
- If you continue to use a lamp after the replacement time, the lamp may break.
- Philips screwdriver is necessary when replacing a lamp unit. Take care not to slip your hand when using a screwdriver.

Attention

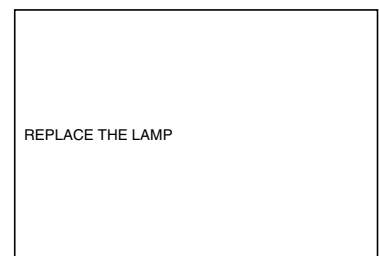
- A lamp unit is an optional part. Contact the dealer.
Lamp unit model No.: ET-LAD7500 (single bulb), ET-LAD7500W (double bulbs)
Rating: 300W 65V
- Other lamps than specified above cannot be used. Be sure to use the specified lamp.

■ Timing of lamp unit replacement

The lamp used for the light source has its due life. The life of light source lamp used in the main unit is 1 500 hours (when lamp output is HIGH and lamp selection is DUAL). However, it may happen that the lamp becomes dead (will not light) by the time of 1 500 hours depending on the characteristics of individual lamps and working conditions (lamps may reduce their life affected by the times of lighting and the intervals between previous lighting and next lighting). Therefore, it is strongly recommended for the user to keep a spare bulb. If your lamp unit is not replaced after 1 300 hours, power supply will be turned off automatically at the time of 1 500 hours, entering a standby state. After 1 500 hours of initial lighting, power supply is turned off automatically about 10 minutes later, entering a standby state even if it is turned on again.

● Indication after 1 300 hours

When lamp unit used hours have reached 1 300 hours, lamp monitor (LAMP1 or LAMP2) light up including standby state. Further, an on-screen indication will appear for about 30 seconds as shown in the diagram on the right, recommending replacement of lamp unit. (The indication on the below diagram will disappear after about 30 seconds or when either control button on the rear of main unit or remote control button is operated.) After the time of 1 500 hours, the on-screen indication will not disappear unless the menu (MENU) button is operated.



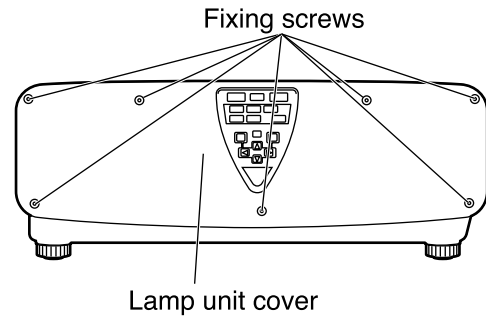
■ Procedure of lamp unit replacement

Caution • After 1 500 hours of operating the same lamp, it is only possible to operate the unit for approximately 10 minutes. Steps 8 to 14 must be completed within ten minutes.

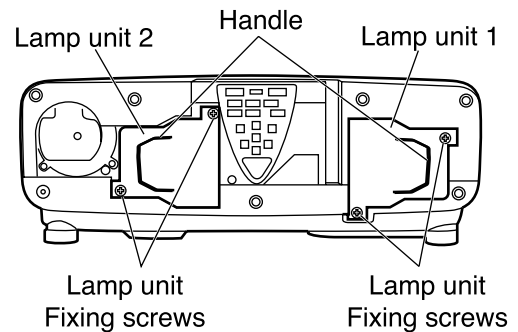
1. Turn the power off by following the steps on pages 39 ~ 40, remove the power plug and confirm that the surroundings of the lamp unit have cooled off.

2. Using a Philips screwdriver, remove the 7 screws on the lamp unit cover located on the rear of the projector.

3. Remove the lamp unit housing door from the main unit.



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



Caution

The lamp unit will be hot after it has been used.

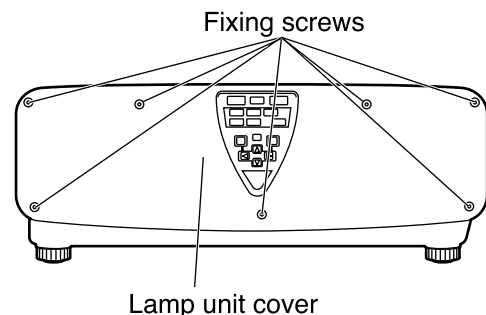
You might get burned if you touch it while it is still hot.

5. Install the new lamp unit.

6. Use a Phillips screwdriver to securely tighten the lamp unit fixing 2 screws.

7. Install the lamp unit cover, and then use a Phillips screwdriver to securely tighten the lamp unit cover fixing 7 screws.

Caution • Firmly install the lamp unit and lamp unit cover. If not installed firmly, a protection circuit will function and the power will not be turned on.



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

Caution • If the power does not turn on (power indicator lamp (red) does not turn on) even after turning the MAIN POWER switch “I”, turn the MAIN POWER “O”, confirm that the lamp unit and door are installed correctly, and turn on again.

9. Press the “I” (POWER) button so that a picture is projected onto the screen.

10. Press the “MENU” button to display the MAIN MENU screen, and then press the ▲ and ▼ buttons to move the cursor to select “OPTION”.

MAIN MENU	
PICTURE	
POSITION	
LANGUAGE	
OPTION	
TEST PATTERN	
REGISTERED SIGNAL LIST	

▲▼:MENU SELECT
ENTER:SUB MENU

11. Press the “ENTER” button to display the “OPTION” screen, and then use the ▲ and ▼ buttons to select “LAMP1 RUNTIME” or “LAMP2 RUNTIME”.

OPTION	
ID	2
SETTING	FRONT-F
LAMP1 RUNTIME	1310h
LAMP2 RUNTIME	1310h
LAMP SELECT	DUAL
LAMP POWER	HIGH
LAMP COOLING TIME	SHORT
RS232C SETTING	
RGB2 SELECT	RGB1 OUT
OSD POSITION	1

▲▼:MENU SELECT
ENTER:INITIALIZE

12. Press and hold the “ENTER” button on the projector or the remote control for approximately 3 seconds.
An item “LAMP RESET” will be added.

Note • When you press the “MENU” button, the lamp reset display disappears.

13. Press the ◀ and ▶ buttons to select for replacement lamp setting.

LAMP1: Replace the LAMP UNIT 1
LAMP2: Replace the LAMP UNIT 2
DUAL: Replace the LAMP UNIT 1 & LAMP UNIT 2

OPTION	
ID	2
SETTING	FRONT-F
LAMP1 RUNTIME	1310h
LAMP2 RUNTIME	1310h
LAMP RESET	DUAL
LAMP SELECT	DUAL
LAMP POWER	HIGH
LAMP COOLING TIME	SHORT
RS232C SETTING	
RGB2 SELECT	RGB1 OUT

▲▼:MENU SELECT
◀▶:CHANGE ENTER:EXECUTE

14. Press the “ENTER” button. When “OK?” is displayed, press the “ENTER” button.

The used hours of the specified lamp unit will be reset to zero.

OPTION		OK?
ID	2	
SETTING	FRONT-F	
LAMP1 RUNTIME	1310h	
LAMP2 RUNTIME	1310h	
LAMP RESET	DUAL	
LAMP SELECT	DUAL	
LAMP POWER	HIGH	
LAMP COOLING TIME	SHORT	
RS232C SETTING		
RGB2 SELECT	RGB1 OUT	

ENTER:EXECUTE MENU:ESC

Before asking for service . . . try to check the following points again.

Symptoms	Checkpoint
Power does not turn on	<ul style="list-style-type: none"> • Is the power cord securely plugged in the receptacle? • Is the MAIN POWER switch put to the “O” position? • Is power supply live at the receptacle? • Is the temperature monitor (TEMP) lamp on the projector front lighting or blinking? (Refer to page 93.) • Is the lamp monitor (LAMP) lamp on the projector front lighting or blinking? (Refer to page 93.) • Is the lamp unit housing door completely attached? • Was operation of ID setting made in a correctly way? (Refer to pages 16 and 69.)
No image appears on screen	<ul style="list-style-type: none"> • Is the lens covered with the cap? • Is the screen image input connected in a correct manner? • Is the device(s) connected to the projector working normally? • Is the shutter function used? (Refer to page 47.)
Screen image is blurred	<ul style="list-style-type: none"> • Is the lens in focus? (Refer to page 41.) • Is the projection distance adequate? (Refer to page 18-22.) • Is the lens dirty? • Is the projector placed vertical to the screen? (Refer to page 19.)
Pale color / bad color tint	<ul style="list-style-type: none"> • Are color strength and color tint correctly adjusted? (Refer to page 51.) • Is the device(s) connected to the projector adjusted correctly?
Remote control does not function	<ul style="list-style-type: none"> • Are dry batteries consumed? • Is polarity correct in battery setting? (Refer to page 15.) • Are there any obstacle between the remote control and the beam receiving window? (Refer to page 15.) • Are you trying to operate the remote control beyond the effective range? (Refer to page 15.) • Is the remote 2 (REMOTE2) terminal used for external control? (Refer to page 80.) • Is any external light interfering with the remote control operation? • Was operation of ID setting made in a correctly way? (Refer to pages 16 and 69.)
Abnormal image on the screen	<ul style="list-style-type: none"> • Is the input selector set to correct position? (Refer to page 66.) • Is the correct signaling system selected? (Refer to page 66-67.) • Are there any malfunctions on the source side, such as bad video tape? • Are you supplying a signal that is not compatible with the projector? (Refer to page 101.)
Images from PC are not projected	<ul style="list-style-type: none"> • Is the cable too long? • Is the correct signal destination set for notebook computer screen image? Use [Fn] and [F3] keys for setting. (For details, refer to the instruction manual of the computer.)

Specifications

Model No.	PT-D7500U	PT-D7600U
Power supply	AC 120 V, 50 Hz/60 Hz	
Power consumption	800 W (about 12 W in standby without fan running)	
DLP™ panel Panel size Display system Number of pixels	0.7 inch (aspect ratio 4:3) Three-unit DMD™ element, DLP type 3 x 786 432 pixels (1 024 x 768 dots)	0.9 inch (aspect ratio 5:4) Three-unit DMD™ element, DLP type 3 x 1 310 720 pixels (1 280 x 1 024 dots)
Lens Powered zoom Powered focus control	Option	
Projection lamp	2 bulbs x 300 W UHM lamp	
Optical output	5 000 lm (ANSI)	6 000 lm (ANSI)
Applicable scanning frequency For video signal (S-video included) For RGB signal For DVI-D signal For YPBPR signal	Horizontally 15.73 kHz/15.63 kHz, vertically 59.94 Hz/50 Hz Horizontally 15 kHz–100 kHz, vertically 24 kHz–120 kHz, Panasonic Intelligent Auto Scanning (PIAS) system Dot clock frequency 20 MHz–162 MHz (When DVI module (optional item) is mounted) VGA–S-XGA Dot clock frequency 25 MHz–112 MHz [480i], horizontally 15.73 kHz, vertically 59.94 Hz [480p], horizontally 31.5 kHz, vertically 59.94 Hz [576i], horizontally 15.63 kHz, vertically 50 Hz [720/60p], horizontally 45 kHz, vertically 60 Hz [1035/60i], horizontally 33.75 kHz, vertically 60 Hz [1080/60i], horizontally 33.75 kHz, vertically 60 Hz [1080/50i], horizontally 28.13 kHz, vertically 50 Hz [1080/24p], horizontally 27 kHz, vertically 24 Hz [1080/30p], horizontally 33.75 kHz, vertically 30 Hz [1080/25p], horizontally 28.13 kHz, vertically 25 Hz [1080/24sF], horizontally 27 kHz, vertically 48 Hz * HD/SYNC, VD terminals are not compliant with 3 value composite SYNC.	
Colour system	7 standards (NTSC/NTSC4.43/PAL/PAN-N/PAL-M/SECAM/PAL60)	
Screen size	70 inch–600 inch	
Screen aspect ratio	4:3	5:4
Projection schem	Menu-selectable from front/rear/ceiling mount, and floor standing	
Contrast ratio	600:1	
Interface ports Input module connection slot RGB1 input terminal	One system of input module connection slot 1 set, BNC x 5 [For YPBPR input] Y: 1.0 V[p-p] synchronization signal included, PBPR: 0.7 V[p-p] 75 Ω For G-SYNC: 1.0 V[p-p] 75 Ω HD/SYNC: 75 Ω, 1.4–5 Vp-p, positive/negative polarity automatically adjusted VD: 75 Ω, 1.4–5 Vp-p, positive/negative polarity automatically adjusted [For RGB input] 0.7 V[p-p] 75 Ω	

Specifications

Model No.	PT-D7500U	PT-D7600U
Interface ports		
RGB2 input/RGB1 output terminal	1 set of high-density, D-sub 15p (female) [For YPBPR input] Y: 1.0 V [p-p] synchronization signal included, PBPR: 0.7 V[p-p] 75 Ω [For RGB input] 0.7 V[p-p] 75 Ω For G-SYNC: 1.0 V[p-p] 75 Ω HD/SYNC: TTL, high-impedance, positive/negative polarity automatically adjusted VD: TTL, high-impedance, positive/negative polarity automatically adjusted • However, HD/SYNC, and VD terminals are not compliant with 3-value direct SYNC. (Active through for RGB1 output)	
Video input/output terminal	1 set BNC Y 1.0 V[p-p] C 0.286 V[p-p] 75 Ω; Compliant with S1 signals	
S-video input terminal	1 set Mini DIN 4p Y 1.0 V[p-p] C 0.286 V[p-p] 75 Ω	
Serial input/output terminal	D-sub 9-pin (female), RS-232C compliant Used for personal computer control	
Remote1 input/output terminal	1 set each for M3 pin jack Wired remote control, used for link control	
Remote2 terminal	D-sub 9p (female) Used for external control	
Length of power supply cord	2.5 m (8.2")	
Cabinet	Molded resin	
Outside dimensions	Width: 530 mm (20.8"); Height : 200 mm (7.9"); Depth: 569 mm (22.4")	
Mass	19.8 kg (44 lb) (without lens)	
Working environment condition	*1.Ambient temperature: 0 to 40°C for setting of lamp output at [LOW] and lamp selection at [DUAL, LAMP 1, LAMP 2 or SINGLE] 0 to 35°C for setting of lamp output at [HIGH] and lamp selection at [DUAL] Ambient humidity: 20 to 80% (no condensation)	
Remote control		
Power source	3 V DC (two AA dry cells)	
Operation range	approx. 7 m/23' (in front of beam receiver)	
Mass	110 g (0.24 lb) (including dry cells)	
Outside dimensions	Width: 50 mm (1.9"), Thickness: 31 mm (1.2"), Depth: 181 mm (7.1")	
Option		
Hanging attachment (For high ceiling)	: ET-PKD75	
Hanging attachment (For low ceiling)	: ET-PKD75S	
Dual attachment	: ET-DFD75	
Carrying handle	: ET-HAD75	
Projection lens	: ET-D75LE1, ET-D75LE2, ET-D75LE3, ET-D75LE4, ET-D75LE5, ET-D75LE1SC, ET-D75LE2SC, ET-D75LE3SC, ET-D75LE4SC	
DVI-D input module	: ET-MD75DV	
Network module	: ET-MD75NT	
Video signal input module	: ET-MD95VM2	
RGB signal input module	: ET-MD95RGB	
Serial digital input module (SD)	: ET-MD95SD1	
Serial digital input module (480p)	: ET-MD95SD2	
Serial digital input module (HD)	: ET-MD95SD3	
Lamp unit	: ET-LAD7500 (single bulb), ET-LAD7500W (double bulbs)	
Wireless mouse receiver	: ET-RMRC1	

*1.If the projector is used at high altitude (1 400 to 2 700 m), the value for allowable ambient temperature should be lowered by 5°C.

Appendix

<Compatible RGB/YPbPr Signals>

The following table specifies the types of RGB/ YPbPr signals compatible with the projector.

RGB signals can also be input within the range of fH=15 kHz–100 kHz, fV=24 Hz–120 Hz, dot clock=20 MHz–162 MHz.

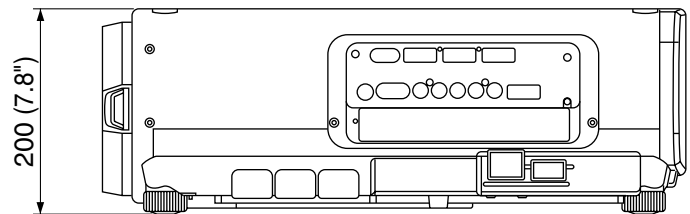
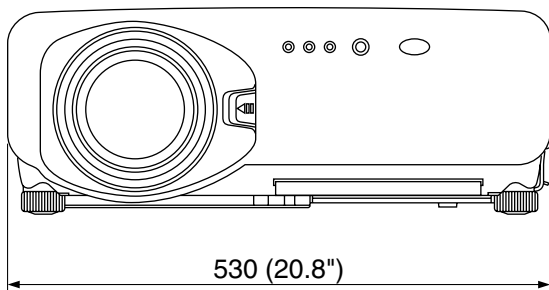
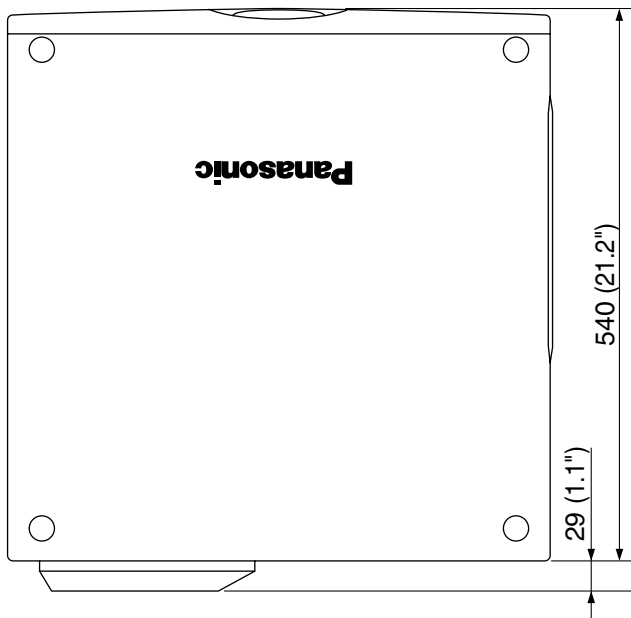
Display mode	Applicable input signal data		
	Number of displayed dots	Horizontal scanning frequency (kHz)	Vertical scanning frequency (Hz)
VGA400	640 x 400	24.8	56.4
	640 x 400	31.5	70.1
VGA480	640 x 480	31.5	59.9
	640 x 480	35.0	66.7
	640 x 480	37.9	72.8
	640 x 480	37.5	75.0
	640 x 480	43.3	85.0
	800 x 600	32.1	51.0
SVGA	800 x 600	35.2	56.3
	800 x 600	37.9	60.3
	800 x 600	48.1	72.1
	800 x 600	46.9	75.0
	800 x 600	53.7	85.1
	800 x 600	32.1	51.0
XGA	1 024 x 768	48.4	60.0
	1 024 x 768	56.5	70.1
	1 024 x 768	60.0	75.0
	1 024 x 768	65.5	81.6
	1 024 x 768	68.7	85.0
	1 024 x 768i	35.5	86.8
	1 024 x 768	80.7	100.8
	1 024 x 768	94.0	120.0
MXGA	1 152 x 864	63.9	70.0
	1 152 x 864	67.5	75.0
	1 152 x 864	77.1	85.0
	1 120 x 750	50.1	60.1
	1 120 x 750i	32.6	80.0
SXGA	1 280 x 1 024	52.4	50.0
	1 280 x 1 024	64.0	60.0
	1 280 x 1 024	72.4	66.3
	1 280 x 1 024	78.2	71.7
	1 280 x 1 024	80.0	75.0
	1 280 x 1 024	91.2	85.0
	1 280 x 1 024i	46.2	86.0
	1 280 x 1 024i	47.6	88.9
UXGA	1 600 x 1 200	75.0	60.0
MAC16	832 x 624	49.7	74.6
MAC21	1 152 x 870	68.6	75.0
HDTV	1 920 x 1 035i	33.8	60.0
720p	1 280 x 720	45.0	60.0
NTSC	768 x 480i	15.7	59.9
PAL	768 x 576i	15.6	50.0
480p	720 x 483	31.5	59.9

Note

- The number of displayed dots of PT-D7600U is 1280 x 1024. Those combinations listed in the above table that exceed these limits will be converted into 1280 x 1024 for display.
- The number of displayed dots of PT-D7500U is 1024 x 768. Those combinations listed in the above table that exceed these limits will be converted into 1024 x 768 for display.
- Character "i" that follows the number of displayed dots stands for interlace signal.
- Flicker (line flicker) will be caused in images if interlace signals are connected.

Outside dimensions

<Units: mm(inch)>



Note:

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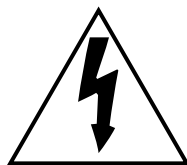
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NOTES IMPORTANTES CONCERNANT LA SÉCURITÉ

**AVERTISSEMENT: POUR RÉDUIRE LES RISQUES DE FEU OU DE CHOC ÉLECTRIQUE,
NE PAS EXPOSER CE PRODUIT À L'EAU OU À L'HUMIDITÉ**

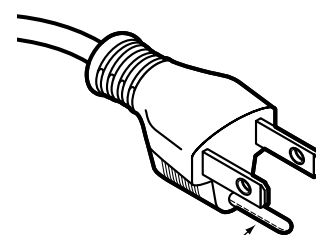


Le symbole de la flèche en forme d'éclair, dans un triangle, avertit l'utilisateur de la présence de "tensions dangereuses" à l'intérieur du produit qui peuvent être de force suffisante pour constituer un risque de choc électrique aux personnes.



Le point d'exclamation dans un triangle avertit l'utilisateur de la présence d'instructions importantes concernant l'utilisation et l'entretien (réparation) dans la littérature accompagnant le produit.

ATTENTION: Cet appareil est équipé d'une fiche de courant à trois broches avec mise à la terre. Ne pas retirer la broche de mise à la masse de la fiche. Cette fiche ne pourra être utilisée que dans une prise avec mise à la terre. Ceci est une précaution sécuritaire. S'il est impossible d'insérer la fiche dans la prise, s'adresser à un électricien. Ne pas annuler la protection de la fiche à mise à la terre.



Ne pas retirer

Précautions concernant la sécurité

AVERTISSEMENT

En cas de problème (pas d'image), ou si le projecteur dégage de la fumée ou une odeur étrange, éteindre l'appareil et débrancher immédiatement la fiche d'alimentation de la prise de courant.

- Ne pas continuer d'utiliser le projecteur dans ces cas, autrement cela peut entraîner un incendie ou des chocs électriques.
- Après s'être assuré que de la fumée ne se dégage plus, s'adresser à un centre technique agréé et demander que les réparations nécessaires soient faites.
- Le fait de réparer le projecteur soi-même est très dangereux, et ne doit jamais être fait.

Ne pas installer ce projecteur dans un endroit qui n'est pas assez résistant pour supporter le poids du projecteur.

- Si l'emplacement d'installation n'est pas assez résistant, le projecteur risque de tomber et causer de graves blessures et (ou) des dommages..

Demander à un technicien qualifié d'installer le projecteur par exemple s'il est installé au plafond.

- Si l'installation n'est pas faite correctement, cela peut entraîner des blessures ou des chocs électriques.

Si de l'eau ou des objets étrangers entrent dans le projecteur, si le projecteur tombe, ou si le boîtier est endommagé, éteindre l'appareil et débrancher immédiatement la fiche d'alimentation de la prise de courant.

- Si l'on continue d'utiliser le projecteur dans ces conditions, cela peut entraîner un incendie ou des chocs électriques.
- S'adresser à un centre technique agréé pour que les réparations nécessaires puissent être faites.

Ne pas couvrir le filtre et la sortie d'air.

- Cela risque de faire surchauffer le projecteur, et causer un incendie ou endommager le projecteur.

Ne pas surcharger la prise de courant.

- Si l'alimentation est surchargée (par exemple, par l'utilisation de trop d'adaptateurs), cela risque de faire surchauffer le projecteur et peut entraîner un incendie.

Ne pas retirer le couvercle ou le modifier.

- Des hautes tensions qui peuvent causer de graves blessures sont présentes à l'intérieur du projecteur.
- Pour toute inspection, réglage ou réparation, s'adresser à un centre technique agréé.

Nettoyer la fiche du cordon d'alimentation régulièrement afin d'éviter toute accumulation de poussière.

- Si de la poussière s'accumule sur la fiche du cordon d'alimentation, l'humidité peut endommager l'isolant et entraîner un incendie. Débrancher le cordon d'alimentation de la prise de courant et l'essuyer avec un chiffon sec.
- Si le projecteur ne sera pas utilisé pendant une période prolongée, débrancher le cordon d'alimentation de la prise de courant.

Faire attention de ne pas endommager le cordon d'alimentation.

- Ne pas endommager le cordon d'alimentation, ne pas le modifier, ne pas placer d'objets lourds, ne pas le chauffer, ne pas le placer près d'objets chauffants, ne pas le tordre, ne pas le plier ou le tirer excessivement et ne pas le rouler en boule.
- Si le cordon d'alimentation est endommagé, cela peut entraîner un incendie et des chocs électriques.
- Si le cordon d'alimentation est endommagé, le faire réparer par un centre technique agréé.

Ne pas manipuler le cordon d'alimentation avec les mains mouillées.

- Cela peut entraîner des chocs électriques.it become wet.

Brancher la fiche du cordon d'alimentation fermement dans la prise de courant.

- Si la fiche n'est pas complètement insérée, cela peut entraîner des chocs électriques ou la faire surchauffer.
- Si la fiche est endommagée ou la plaque de la prise est desserrée, elles ne devraient pas être utilisées.

Ne pas placer le projecteur sur des surfaces instables.

- Si le projecteur est placé sur une surface qui est inclinée ou instable, il risque de tomber ou de se renverser et cela peut causer des blessures ou des dommages.

Ne pas placer le projecteur dans l'eau ou ne pas le laisser se mouiller.

- Sinon cela peut causer un incendie ou des chocs électriques.

Ne pas placer des récipients de liquide sur le projecteur.

- Si de l'eau se renverse sur le projecteur, s'adresser à un centre technique agréé.
- Si n'importe quel liquide de s'infiltrer à l'intérieur du projecteur, entrer en contact avec un centre commercial autorisé.

Ne démontez pas le bloc lampe.

- Une rupture de la lampe peut provoquer une blessure corporelle.

Ne pas mettre d'objets étrangers dans le projecteur.

- Ne pas insérer d'objets métalliques ou inflammables dans les orifices de ventilation ou les faire tomber sur le projecteur, car cela peut causer un incendie ou des chocs électriques.

Après avoir retiré la pile de la télécommande, la garder hors de la portée des enfants.

- Si avalée, la pile peut causer la mort par suffocation.
- Si la pile est avalée, s'adresser à un médecin immédiatement.

Ne pas laisser les bornes + et - de la pile entrer en contact avec des objets métalliques tels que des colliers ou des épingles à cheveux.

- Cela peut faire que la pile fuit, surchauffe, éclate ou prend feu.
- Garder la pile dans un sachet en plastique et la maintenir éloignée des objets métalliques.

Isoler la pile à l'aide de ruban ou autre avant de la mettre au rebut.

- Si la pile entre en contact avec des objets métalliques ou d'autres piles, elle peut prendre feu ou éclater.

Attention

Ne pas installer le projecteur dans des endroits humides ou poussiéreux ou dans des endroits où le projecteur peut entrer en contact avec de la fumée ou la vapeur.

- L'utilisation du projecteur dans de telles conditions peut causer un incendie ou des chocs électriques.

Pour débrancher le cordon d'alimentation, tenir la fiche et non pas le cordon.

- Si le cordon d'alimentation est tiré, le cordon sera endommagé et cela peut causer un incendie, des courts-circuits ou des chocs électriques sérieux.

Débrancher toujours tous les câbles avant de déplacer le projecteur.

- Le fait de déplacer le projecteur avec des câbles branchés peut endommager les câbles, ce qui pourrait causer un incendie ou des chocs électriques.

Ne pas placer d'objets lourds sur le projecteur.

- Cela peut déséquilibrer le projecteur et le faire tomber, ce qui peut entraîner des dommages ou des blessures.

Ne pas court-circuiter, chauffer ou démonter la pile et ne pas la placer dans l'eau ou le feu.

- Cela peut faire que la pile fuit, surchauffe, éclate ou prend feu et causer des brûlures ou autres blessures.

Précautions concernant la sécurité

Lors de l'insertion de la pile, s'assurer que les polarités (+ et -) sont correctes.

- Si la pile est insérée incorrectement, elle peut éclater ou fuir et cela peut causer un incendie, des blessures ou la contamination du compartiment des piles.

N'utiliser que la pile indiquée.

- Si une pile incorrecte est utilisée, elle peut éclater ou fuir et cela peut causer un incendie, des blessures ou la contamination du compartiment des piles.

Ne pas regarder directement dans la lentille pendant que le projecteur fonctionne.

- Une lumière intense est émise par la lentille du projecteur. Si l'on regarde directement dans cette lumière, elle risque de causer des blessures et de graves lésions aux yeux.

Ne pas placer les mains ou autres objets près de la sortie d'air.

- De l'air chaud sort par l'ouverture de sortie d'air. Ne pas placer les mains ou le visage, ou d'autres objets qui ne peuvent résister à la chaleur près de cette sortie d'air, sinon cela peut causer des blessures ou des dommages.

N'utilisez pas un bloc lampe usagé.

- Cela peut entraîner une rupture de la lampe.

Le remplacement de l'unité de lampe ne devrait être effectué que par un technicien qualifié.

- L'unité de lampe a une pression interne élevée. Elle peut facilement s'endommager si cognée contre des objets durs ou si elle tombe, et cela peut causer des blessures ou des mauvais fonctionnements.

Débrancher la fiche du cordon d'alimentation de la prise de courant comme mesure de sécurité avant d'effectuer tout nettoyage.

- Sinon cela peut causer des chocs électriques.

Demander à un centre technique agréé de nettoyer l'intérieur du projecteur au moins une fois par an.

- S'il n'est pas nettoyé et que la poussière s'accumule à l'intérieur du projecteur, cela peut causer un incendie ou des problèmes de fonctionnement.
- Il est recommandé de nettoyer l'intérieur du projecteur avant que la saison humide n'arrive. Demander au centre technique agréé le plus proche de nettoyer le projecteur lorsque cela est requis. Se renseigner auprès du centre technique agréé pour le coût du nettoyage.

Nous faisons tous les efforts possibles afin de préserver l'environnement. Prière d'apporter l'appareil, s'il n'est pas réparable, à votre revendeur ou à un centre de recyclage.

Précautions pour la manipulation

■ Précautions pour le transport

L'objectif de projection est sensible aux vibrations et aux impacts. Le protéger contre les vibrations et les impacts pendant le transport.

■ Précautions pour l'installation

Observez les précautions suivantes à l'installation du produit.

- **Évitez d'installer le produit à un emplacement exposé à des vibrations ou impacts.**

Si le projecteur est installé à un emplacement où des vibrations sont transmises d'une source à puissance motrice et autre, ou monté sur une voiture ou un bateau, des vibrations ou impacts peuvent être transmis au produit qui peuvent endommager les pièces internes, causant une défaillance. Installez le produit à un emplacement exempt de vibrations et d'impacts.

- **N'installez pas le projecteur près de lignes haute tension ou de sources d'énergie.**

Le produit pourrait être exposé à des interférences s'il est installé à proximité de lignes haute tension ou de sources d'énergie.

- **Ne placez pas le projecteur sur une feuille en vinyle ou un tapis.**

Si la feuille de vinyle est aspirée et bloque de port d'admission du filtre à air, la température peut augmenter à l'intérieur du projecteur, ce qui déclenchera le circuit de protection et mettra le projecteur hors tension.

- **Consultez un technicien spécialisé pour l'installation du projet au plafond.**

Si le produit doit être suspendu au plafond, achetez un accessoire de suspension en option (pour plafond haut: modèle n° ET-PKD75) (pour plafond bas: modèle n° ET-PKD75S) et appelez un technicien spécialisé pour l'installation.

- **N'installez pas le projecteur à plus de 2 700 m (8881.5') au-dessus du niveau de la mer. A l'utilisation au-dessus de 1 400 (4605.3') m au-dessus du niveau de la mer, réglez "CTRL.VENTILATEUR", expliqué à la page 72, à "HAUTE".**

En cas contraire, la durée de vie l'appareil risque d'être raccourcie.

■ Précautions pour l'utilisation

Si le projecteur est utilisé en continu pendant plus de huit heures, un réglage spécial est requis. Consulter un agent de service.

- **Pour visualiser des images nettes:**

- Le public ne peut pas jouir d'un fort contraste et d'image nettes si la lumière extérieure ou l'éclairage interfère avec la surface de l'écran. Tirez les rideaux des fenêtres ou les stores, éteignez l'éclairage près de l'écran ou prenez d'autres mesures adaptées.
- Cas rare, un flottement peut survenir sur l'écran affecté par l'air chaud du port de sortie selon l'environnement.

- **Ne touchez pas la surface de l'objectif de projection les mains nues.**

Si des empreintes de doigts sont laissées sur la surface de l'objectif de projection, elles seront agrandies et projetées sur l'écran. Maintenez vos mains loin de l'objectif. Couvrez l'objectif avec le bouchon d'objectif fourni quand le projecteur n'est pas utilisé.

- **Ecran**

Si l'écran est taché, a des défauts ou est décoloré, des images nettes ne pourront pas être obtenues. En manipulant l'écran, évitez d'appliquer des substances volatiles ou de laisser des imperfections ou taches sur l'écran.

- **Lampe**

Une lampe au mercure à pression interne élevée est utilisée comme source lumineuse de ce produit. Cette lampe a les caractéristiques suivantes.

- Elle peut éclater sous l'effet d'un son fort ou terminer sa vie de service par un non-éclairage à cause de certains impacts, d'imperfections ou d'une détérioration due aux heures d'utilisation.
- La vie de service d'une lampe au mercure varie individuellement et selon les conditions d'utilisation.
- Dans de rares cas, elle peut éclater un peu après son premier allumage.
- La possibilité d'un éclatement augmente quand la lampe est utilisée au-delà du temps de remplacement.

■ Mise au rebut

Contactez le revendeur ou un revendeur spécialisé pour la mise au rebut du produit.

Nettoyage et maintenance

Débranchez bien la fiche du cordon d'alimentation de la prise avant le nettoyage.

Utilisez un chiffon doux et sec pour nettoyer le coffret

Pour les taches rebelles, utilisez un chiffon humidifié de solution détergente de cuisine (neutre) et essorez-le pour essuyer le coffret; finissez avec un chiffon sec. En cas d'utilisation d'un produit chimique, suivez ses instructions.

Ne nettoyez pas la surface de l'objectif avec un chiffon pelucheux ou poussiéreux.

Si de la poussière adhère à l'objectif, elle sera grossie et projetée sur l'écran.

Utilisez un chiffon doux et sec pour éliminer la poussière.

Remplacement de la lampe

CAUTION

- Attendez que la lampe soit refroidie pour effectuer le remplacement.

Précautions pour le remplacement de la lampe

- Soyez prudent en manipulant la lampe source de lumière. La lampe peut éclater si elle est heurtée par des objets solides ou si elle tombe à cause de la forte pression d'air dans l'ampoule.
- Une lampe usée peut éclater si elle est manipulée sans soin. Contactez une entreprise d'évacuation des déchets industriels pour l'enlèvement des lampes usées.
- Ne remettez pas à zéro la durée cumulée, à moins que le bloc lampe n'ait été remplacé par un bloc lampe neuf.
- Si vous persistez à utiliser une lampe après le moment où elle aurait dû être remplacée, la lampe peut casser.
- Un tournevis Philips est requis pour le remplacement de la lampe. Faites attention que votre main ne glisse pas en utilisant le tournevis.

- Attention** • La lampe est une pièce en option (vendue comme pièce de service). Contactez le revendeur.
Lampe modèle n° : ET-LAD7500 (une ampoule), ET-LAD7500W (deux ampoules)
Valeurs nominales: 300 W, 65 V
- Des lampes autres que celles spécifiées ci-dessus ne sont pas utilisables. Utilisez la lampe spécifiée.

■ Période de remplacement de la lampe

La lampe utilisée comme source lumineuse dans le projecteur a une vie de service de 1 500 heures (quand la sortie de la lampe est HAUT et la sélection de lampe DOUBLE). Il peut arriver que la lampe soit épuisée (ne s'allume pas) à 1 500 heures selon les caractéristiques des lampes individuelles et les conditions de travail (la vie de service des lampes peut être réduite par le nombre d'allumages et les intervalles entre les allumages). Il est donc fortement conseillé aux utilisateurs de conserver une ampoule de rechange. Si la lampe n'est pas remplacée après 1 300 heures, l'alimentation sera automatiquement coupée à 1 500 heures, avec passage en mode d'attente. 1 500 heures à partir de l'allumage initial, l'alimentation est automatiquement coupée environ 10 minutes plus tard, avec passage en mode d'attente, même si la lampe est allumée à nouveau.

● Indication après 1 300 heures

Quand la lampe a été utilisée 1 300 heures, le témoin de lampe (LAMPE1 ou LAMPE2) s'allume, état d'attente y compris.

Une indication sur écran apparaîtra également environ 30 secondes comme indiqué dans le diagramme de droite, recommandant le remplacement de la lampe. (L'indication dans le diagramme de droite disparaîtra après environ 30 secondes ou quand la touche de commande de l'arrière du projecteur ou de la télécommande est opérée.)

Après 1 500 heures, l'indication sur écran ne disparaîtra pas à moins d'une opération de la touche MENU.



■ Procédure de remplacement de la lampe

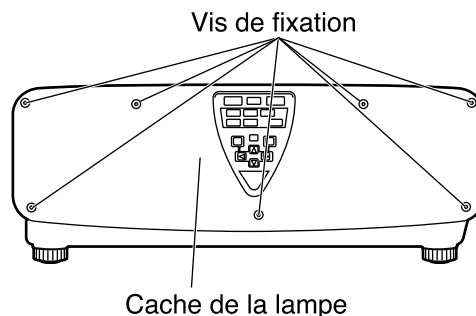
Attention • Au bout de 1 500 heures de fonctionnement pour une même lampe, le projecteur ne peut plus fonctionner que pendant environ 10 minutes. Les étapes 8 à 14 doivent être achevées en moins de dix minutes.

1. Mettez hors tension en suivant la procédure de la page 39 à 40, débranchez la fiche électrique et vérifiez que les éléments autour de la lampe ont refroidi.

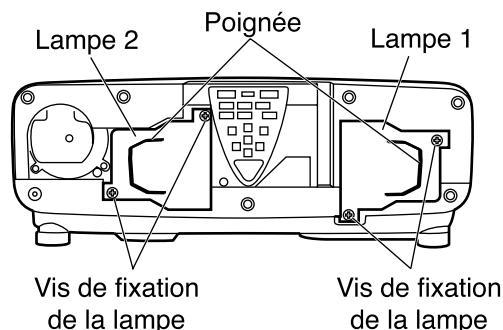
2. En utilisant un tournevis Phillips, retirez les 7 vis de la porte d'accès à la lampe située à l'arrière du projecteur.

3. Retirez la porte du logement de lampe du projecteur.

Attention • Faites attention de ne pas casser le cliquet situé au centre de la partie inférieure de la porte d'accès la lampe.



4. À l'aide d'un tournevis Phillips, desserrez les deux vis de fixation de la lampe jusqu'à ce qu'elles puissent tourner facilement. Ensuite, saisissez la poignée de la lampe et tirez doucement pour la sortir du projecteur.



Attention

La lampe est chaude si elle vient d'être utilisée.

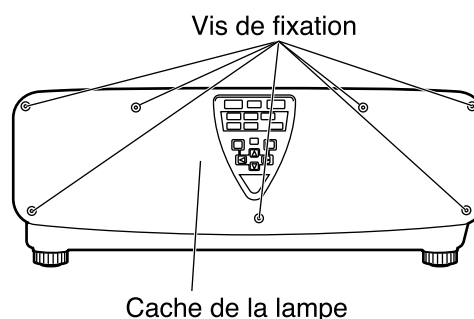
Vous risquez de vous brûler si vous la touchez alors qu'elle est encore chaude.

5. Installez la nouvelle lampe.

6. Utilisez un tournevis Phillips pour serrer correctement les vis de fixation de la lampe (2 pos.).

7. Remettez en place le cache de la lampe, puis, à l'aide d'un tournevis Phillips, serrez fermement les 7 vis de fixation du cache de la lampe.

Attention • La lampe et le cache doivent être correctement fixés. Si ce n'est pas le cas, un circuit de protection entre en action et la mise sous tension sera impossible.



Remplacement de la lampe

8. Branchez la fiche du cordon d'alimentation dans la prise murale et actionnez l'interrupteur MAIN POWER.

Attention • Si la mise sous tension ne s'effectue pas (le témoin d'alimentation (rouge) ne s'éclaire pas) bien que vous ayez positionné l'interrupteur principal sur " I ", remplacez l'interrupteur principal sur " O ", vérifiez que la lampe et son cache sont correctement installés et effectuez une nouvelle fois la mise sous tension.

9. Appuyez sur la touche "POWER" afin de projeter une image sur l'écran.

10. Appuyez sur la touche "MENU" pour afficher l'écran du menu principal, puis utilisez les touches ▲ et ▼ pour amener le curseur sur "OPTION" et sélectionner cette option.

MENU PRINCIPAL	
IMAGE	
POSITION	
LANGAGE (LANGUAGE)	
OPTION	
MIRE DE TEST	
LISTE SIGNAUX ENREGISTRES	

▲▼:SÉLECTION RUBRIQUE
ENTER:MENU SECONDAIRE

11. Appuyez sur la touche "ENTER" pour passer dans l'écran "OPTION", puis utilisez les touches et pour sélectionner "L. 1 TEMPS DE MARCHE" ou "L. 2 TEMPS DE MARCHE".

12. Maintenez presse la touche "ENTER" sur le projecteur ou sur la telcommande pendant environ 3 secondes.

L'article "REINITIALISATION LAMPE" sera ajouté.

Remarque • Lorsque vous appuyez sur la touche "MENU", la page de remise à zéro de la durée de la lampe disparaît.

13. Appuyez sur les touches ▲ et ▼ pour sélectionner le paramètre de remplacement de la lampe.

LAMPE 1: Remplacement de la lampe 1

LAMPE 2: Remplacement de la lampe 2

DOUBLE: Remplacement de la lampe 1 et de la lampe 2

14. Appuyez sur la touche "ENTER". Quand "OUI?" s'affiche, appuyez sur la touche ENTER.

Les heures d'utilisation de la lampe spécifiée seront remises à zéro.

15. Consultez le mode d'emploi pour remplacer l'ancien filtre à air.

OPTION	
ID	2
RÉGLAGES	FA ADE-SOL
L. 1 TEMPS DE MARCHE	1310h
L. 2 TEMPS DE MARCHE	1310h
S LECTION LAMPE	DOUBLE
PUIS. LAMPE	HAUT
TEMPS REFROID. L	COURT
R G. RS232C	
S LECTION RGB2	RGB1 SORTIE
POSITION OSD	1

▲▼:S LECTION RUBRIQUE
ENTER:INITIALISER

OPTION	
ID	2
RÉGLAGES	FAÇADE-SOL
L. 1 TEMPS DE MARCHE	1310h
L. 2 TEMPS DE MARCHE	1310h
REINIT. LAMPE	DOUBLE
SÉLECTION LAMPE	DOUBLE
PUISSANCE LAMPE	HAUT
TEMPS REFROID. L	COURT
RÉG. RS232C	
SÉLECTION RGB2	RGB1 SORTIE

▲▼:SÉLECTION RUBRIQUE
◀▶:CHANGEMENT ENTER:EXÉCUTER

OPTION		OUI?
ID	2	
RÉGLAGES	FA ADE-SOL	
L. 1 TEMPS DE MARCHE	1310h	
L. 2 TEMPS DE MARCHE	1310h	
REINIT. LAMPE	DOUBLE	
S LECTION LAMPE	DOUBLE	
PUIS. LAMPE	HAUT	
TEMPS REFROID. L	COURT	
R G. RS232C		
S LECTION RGB2	RGB1 SORTIE	

ENTER:EX CUTER MENU:SORTIR

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